



TECH EVENTS WITH PERSPECTIVE



5 GREAT CONFERENCES,
1 GREAT PRICE

Visual Studio **LIVE!**
EXPERT SOLUTIONS FOR .NET DEVELOPERS

SQL Server **LIVE!**
TRAINING FOR DBAs AND IT PROS

TECHMENTOR
IN-DEPTH TRAINING FOR IT PROS

Office & SharePoint **LIVE!**
ON-PREMISE, CLOUD & CROSS-PLATFORM TRAINING

ModernApps **LIVE!**
MOBILE, CROSS-DEVICE & CLOUD DEVELOPMENT

The Ultimate Education Destination

2017 Orlando

ROYAL PACIFIC RESORT AT UNIVERSAL ORLANDO
NOVEMBER 12-17

NEW: HANDS-ON LABS



Join us for full-day, pre-conference hands-on labs Sunday, November 12.

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#live360



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LIVE! 360 CONFERENCE CHAIRS



Andrew Brust
*SQL Server Live! and Visual Studio Live!
Conference Co-Chair
Senior Director, Market Strategy
and Intelligence, Datameer*



Andrew Connell
*Office & SharePoint Live!
Conference Co-Chair
Consultant, Instructor, Developer, & Author*



Sami Laiho
*TechMentor Conference Co-Chair
Senior Technical Fellow, Adminize*



Thomas LaRock,
*SQL Server Live! Conference Co-Chair
Head Geek, SolarWinds*



Rockford Lhotka
*Modern Apps Live! Conference Chair,
and Visual Studio Live! Conference
Co-Chair CTO, Magenic*



Matthew McDermott
*Office & SharePoint Live!
Conference Co-Chair
Founder and Director, Aptillon, Inc*



Brian Randell
*Visual Studio Live! Conference Co-Chair
Partner, MCW Technologies*



Greg Shields
*TechMentor Conference Co-Chair
Author Evangelist, Pluralsight*

WHAT IS LIVE! 360?



The Ultimate Education Destination

Live! 360SM is a unique conference where the IT and Developer community converge to discuss leading edge technologies and educate themselves on current ones. These 5 co-located events feature expert education, training, knowledge transfer and networking as you create your own custom conference, choosing sessions, workshops and hands-on labs to best suit your needs.

Whether you are a developer, an IT Pro, or a DBA; whether you are new to the industry or been around for years; whether you manage a large team or work in a 2-person shop; the agendas are crafted for (almost) every IT title, experience level and team size!

Choose the ultimate education destination: Live! 360.

Attendees of any of the Live! events will have unlimited access to all five—mix and match sessions to create a custom conference!

Visual Studio LIVE! EXPERT SOLUTIONS FOR .NET DEVELOPERS

Code in Paradise at VSLive!™, featuring unbiased and practical development training on the Microsoft Platform.

SQL Server LIVE! TRAINING FOR DBAs AND IT PROS

SQL Server Live! will leave you with the skills needed to drive your data to succeed, whether you are a DBA, developer, IT Pro, or Analyst.

TECHMENTOR IN-DEPTH TRAINING FOR IT PROS

This is where IT training meets sunshine, with zero marketing speak on topics you need training on now, and solid coverage on what's around the corner.

Office & SharePoint LIVE! ON-PREMISE, CLOUD & CROSS-PLATFORM TRAINING

Today, organizations expect people to work from anywhere at any time. Office & SharePoint Live! provides leading-edge knowledge and training to work through your most pressing projects.

Modern Apps LIVE! MOBILE, CROSS-DEVICE & CLOUD DEVELOPMENT

Presented in partnership with Magenic, this unique conference delivers on what you need to know to architect, design and build a complete Modern App.



Top

REASONS TO ATTEND Live! 360 Orlando

1

NEW!

SUNDAY PRE-CONFERENCE FULL-DAY HANDS-ON LABS.

We've added another full day of learning with eight full day hands-on labs. Bring your laptop and learn by doing. (Additional Fee does apply, see [pricing page](#) for details).

2

NEW!

FAST, FUN AND FOCUSED.

On Tuesday afternoon before the Welcome reception we have 2 rounds of fast focused sessions planned. Our conference speakers have crafted special sessions to deliver need-to-know information in a laser-focused, engaging way.

3 MAKE THE CONFERENCE YOUR OWN.

Mix and match sessions and workshops from any of the five events to best serve your needs. Because of the convenient co-location, there will be even more opportunities to access 245+ sessions, 95+ speakers, 1200+ fellow attendees, and a robust exhibit floor—all enhancing your event experience.

4 SPEND QUALITY TIME WITH PEERS FROM AROUND THE WORLD.

Incorporating knowledge transfer, networking and leading-edge training into six intense days, these conferences will get you up-to-date on current technologies with a look to the future, while giving you the opportunity to network with fellow tech pros from points around the globe!

5 IT'S CALLED LIVE! 360 FOR A REASON.

Not only do we cover a full circle of technologies, but we feature both unbiased industry experts and Microsoft insiders, so you'll hear every side of the story on the most recent software and industry updates.

6

CHOOSE YOUR SESSIONS BY JOB ROLE.

These forward-thinking and educational events are geared toward 5 general job roles: [Developer](#), [IT Pro](#), [DBA](#), [SharePoint Specialist](#), [BI Professional/Analyst](#). Whether you are a developer who uses Visual Studio or a team lead in charge of implementing Agile, or an IT Pro who is looking to improve your technical skills or just getting into your SharePoint administrative duties, or a SQL Server DBA looking to maintain, tune and consolidate, the agendas are crafted for (almost) every IT title.



7

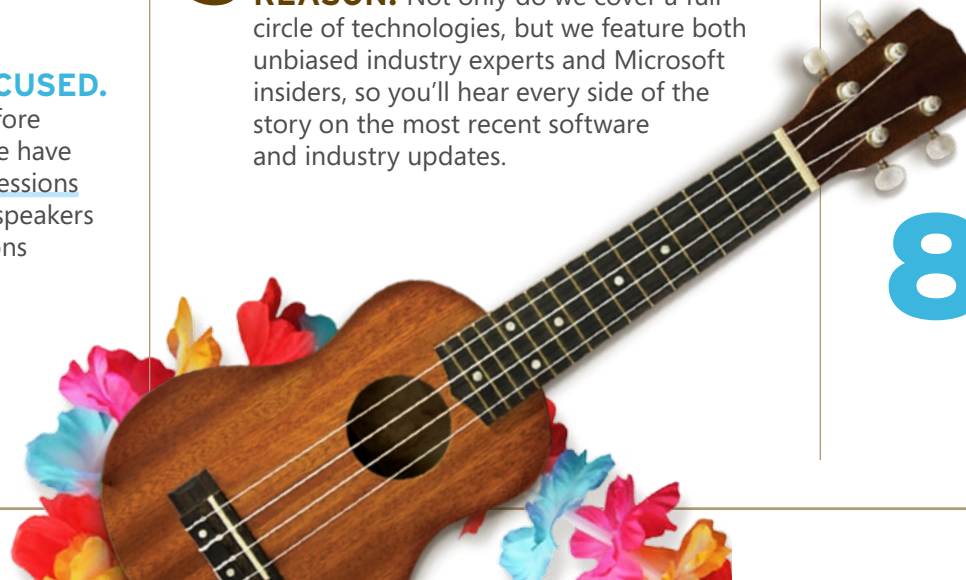
FIVE GREAT CONFERENCES; 1 GREAT PRICE!

Attend any one of the Live! 360 events and you'll have unlimited access to all five—and it's all included in one low price!

8

THE ULTIMATE EDUCATION DESTINATION.

Located at the beautiful (and attendee favorite) Royal Pacific Resort at Universal Orlando, the setting and time of year are perfect for bringing the family along to enjoy all that Orlando has to offer.



The Fun Stuff:

LIVE! 360 ORLANDO EVENTS & ACTIVITIES

YOUR ATTENDANCE AT LIVE! 360

is about learning from your peers as well as the experts; make the most of your time with us and add these events and activities to your itinerary!

DINE-A-ROUND DINNER

**Monday, November 13,
6:30 – 8:00pm, Universal CityWalk**

Join other conference attendees and speakers for a casual, no-host dinner and make a few new friends while enjoying the fun and delicious themed restaurants at Universal CityWalk. This is your opportunity to meet fellow attendees and start friendships that can last for the week or even longer. Attendees can break into smaller groups based on where everyone wants to dine and head off to dinner. Everyone is responsible for their own dinner.

EXHIBITOR WELCOME RECEPTION

**Tuesday, November 14,
5:30 – 7:30pm, Expo Hall**

Enjoy drinks and snacks while you explore the Live 360 exhibits and network with fellow attendees and speakers. This is your chance to check out the latest offerings from our exhibitors to help you in daily life when you return to the office.

BIRDS-OF-A-FEATHER LUNCH

**Wednesday, November 15,
12:30 – 1:30pm**

Plumb the knowledge and experience of your colleagues, conference speakers and exhibitors by participating in one of the Birds-of-a-Feather table discussions. These tables are designated with a sign and seating is on a first-come basis. There will be a wide variety of topics covering all Live! 360 events and many tables will host a conference speaker to keep the conversation going.

LIVE! 360 DESSERT LUAU

**Wednesday, November 15,
8:00 – 10:00pm**

Come celebrate the South Pacific with delectable desserts, drinks and fabulous entertainment! Mingle with fellow attendees and speakers while enjoying the warm Florida winter weather. Settle down under the stars to enjoy a delicious dessert buffet, complete with cocktails, and an authentic Polynesian performance including dancers and fire throwers.



Dine-A-Round Dinner



Welcome Reception



Live! 360 Dessert Luau



Birds of a Feather Lunch

LIVE! 360 KEYNOTES

TUESDAY LIVE! 360 KEYNOTE*

Lessons Learned Doing DevOps at Microsoft at Scale

Tuesday, November 14

11:00am - 12:00pm / Pacifica 6



Buck Hodges, Director of Engineering,
Visual Studio Team Services, Microsoft

A new significant culture shift happened at Microsoft: software engineer accountabilities transitioned from responsibility not only building and testing, but ultimately the health of production. In 2017, Microsoft has transformed how we deliver solutions across its entire product line. Nowhere is this more apparent than in the Visual Studio Team Services (VSTS) offering—Microsoft’s built- for the Azure Cloud team development platform for any developer, building any app, on any platform. Come to this insightful keynote to hear how the VSTS team handles a world-wide, 24/7 system, that millions of users on DevOps teams rely upon to be available when they need it. Learn how they manage the production systems, roll out updates, and handle live site incidents. Buck will tell you how Microsoft took an on-premises product, Team Foundation Server, that shipped about every two years and moved to an agile release cycle of about every three weeks.

“EVERY SESSION I ATTENDED PROVIDED SOME GEM OF KNOWLEDGE THAT I WILL BE ABLE TO USE RIGHT AWAY OR PASS ALONG TO COLLEAGUES AND MAKE SURE WE ARE LEVERAGING AT OUR COMPANY. THE BEST PART IS GETTING SOME KNOWLEDGE ON DIFFERENT TOPICS AT ONE LOCATION.”

- Sheena Cooley, PaySett Corporation

WEDNESDAY LIVE! 360 PANEL*:

Industry Trends, Technology, and Your Career

Wednesday, November 15

11:30am – 12:30pm / Pacifica 6



Michael Aaron, CTO, Biller Solutions, Fiserv

Francois Charette, Senior Vice President, Engineering, OptumInsight

Martin Leifker, Vice President, Digital Innovation and Solutions, Texas Mutual Insurance Company

Matt Lockhart, Executive Vice President, Magenic

Technological competency is definitely one aspect to being a highly sought after professional, but how can you really set yourself apart from your colleagues? What are technology leaders looking for now and into the foreseeable future when they build out teams to support key initiatives? These are just some of the questions that this Live! 360 panel will address.

This panel discussion brings together executive leaders who are guiding their organizations through extraordinary transformations. The panelists will share their insights on the top trends companies are looking to incorporate into their business models, how those trends manifest in technology, and what it means for the technology professional looking to build their career. Attendees will leave this panel session with a clear understanding of what the future holds for business technology, and what they should do to proactively develop themselves into highly sought after talent that stands apart from the crowd.

Topics being covered include Digital Transformation, Agile Transformation, and the 2nd generation of Cloud Consumption.

Live! 360 Keynotes / General Sessions with an * denote keynotes / general sessions of interest to all conference attendees, regardless of their primary event.

CONFERENCE KEYNOTES

TUESDAY KEYNOTES:

Visual Studio LIVE! **ModernApps LIVE!**
EXPERT SOLUTIONS FOR .NET DEVELOPERS MOBILE, CROSS-DEVICE & CLOUD DEVELOPMENT
KEYNOTE

Optimizing and Deploying Angular and Node.js Web Apps to the Cloud

Tuesday, November 14
8:00 - 9:00am / Pacifica 6



John Papa, Principal Developer Advocate, Microsoft

You did it! You wrote the code and the app works... locally. But how will you get it to work in the cloud? Will it “just work” everywhere? We’ll explore how to build JavaScript apps with Node.js, optimize Angular performance, push it to GitHub, use CI tooling to perform custom builds, containerize with Docker, and host in Azure. You’ll learn how to take your app across the finish line and you’ll get access to the source code and instructions so you can try it yourself!

SQL Server LIVE! **KEYNOTE**
TRAINING FOR DBAs AND IT PROS

Microsoft BI - What’s New for BI Pros, DBAs and Developers

Tuesday, November 14
8:00 - 9:00am / Pacifica 8 - 10



Charles Sterling, Senior Program Manager, Microsoft

With Microsoft releasing new Business Intelligence updates monthly (and sometimes weekly), there are a lot of

fantastic features to keep track of. In this keynote session, Charles Sterling does a walkthrough and demo of what’s just been released, and a look at what the teams are working on for future releases. Drill-down topics include how to use Microsoft BI to track and manage your database infrastructure; using new collaboration features in the cloud-based business analytics service; the new authoring and modeling features of Power BI Desktop; scaling your BI with Analysis Services; extending your reach to mobile applications; new Power BI resources; and, finally, what’s new for developers leveraging the Power BI platform.

TECHMENTOR KEYNOTE
IN-DEPTH TRAINING FOR IT PROS

How to Succeed In IT (Or At Least How I Succeeded in IT)

Tuesday, November 14
8:00 - 9:00am / Oceana 1 & 2



Mark Minasi, IT Consultant, Author, Speaker, MR&D

In November of 1973, Mark Minasi got his first programming lesson. It wasn’t long after that that he started making money and giving advice about computers, and that led to 40-plus books, thousands of articles, about a hundred thousand attendees to his classes and talks, and millions of readers. This year, however, he’s calling it quits... almost. Mark rounds out a 44-year career by opening November’s TechMentor Orlando with a final keynote filled with stories, a lot of laughs, and possibly even a couple of useful bits of advice. What can IT pros learn from invertebrates? Why are IT pros largely Alzheimer’s-free? How are bugs the key to finding the best jobs in IT? Find out when one of the industry’s most-loved speakers delivers his fast-paced, funny, and provocative “farewell to the troops!”

Office & SharePoint LIVE! **KEYNOTE**

Office 365 Intelligence Transforming Productivity

Tuesday, November 14
8:00 - 9:00am / Timor Sea 1 & 2



Yina Arenas, Principal Program Manager Lead, Microsoft

Cloud-powered intelligent services from the Microsoft Graph are fueling new experiences in Office 365. These services use machine learning and advanced algorithms to create personalized, intuitive insights that are used across Office 365 in remarkable experiences that help maximize business productivity. From content discovery with Delve, time and network insights with MyAnalytics, to powerful people and content experiences throughout – we will explore how intelligence helps you and your organization discover the right people, the right content, and save time. We will also cover how these intelligent services not only power Office 365 experiences, but also enable developers to leverage them in their own applications in any platform.

Live! 360 Keynotes / General Sessions with an * denote keynotes / general sessions of interest to all conference attendees, regardless of their primary event.

Panel Discussions

Get the full 360 degree perspective and hear different viewpoints on hot topics. Strengthen your career and sharpen your mind with these expert panel discussions.

Visual Studio Live! Panel: Native or Web—Does it Matter?

Thursday November 16, 11:00am – 12:00pm

The web has won. Or has it? Come join Billy, Damian, Deborah, Esteban, Jeremy and your host Brian as we discuss where we're at today when it comes to building, deploying, and managing "modern" applications. We'll look at how the web seems to be the "go to" app model, yet native apps (on computers and devices) continue to be developed and pushed by vendors, including Microsoft. Is JavaScript all you need, or is there still a place for languages like C# and C++? Does any of this matter in the era of the cloud and DevOps? If you're a developer, you've got your opinion as well, so come to this interactive panel where you can put your two cents in and hear honest feedback from our group of speakers.



Damian Brady
Cloud DevOps Advocate
Microsoft



Jeremy Clark
Consultant, Speaker & Mentor
JeremyBytes.com



Esteban Garcia
Chief Technologist
Nebbia Technology



Billy Hollis
Next Version Systems



Deborah Kurata
President
InStep Technologies, Inc.



Brian Randell
Partner
MCW Technologies

Next? Visual Studio Live! Networking Event

Thursday November 16, 4:00pm – 5:00pm

After a week of intense learning, what's next for you and your current projects? Part Q&A with speakers and conference chairs and part peer exchange, you can use this time to network with your fellow Visual Studio Live! attendees and select speakers to discuss the best ways to move your projects to the next level.



Damian Brady
Cloud DevOps Advocate
Microsoft



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Consultant, Speaker & Mentor
JeremyBytes.com



Esteban Garcia
Chief Technologist
Nebbia Technology



Billy Hollis
Next Version Systems



Brian Randell
Partner
MCW Technologies



Adam Tuliper
Principal Software Engineer, DX
Microsoft



Panel Discussions

Get the full 360 degree perspective and hear different viewpoints on hot topics. Strengthen your career and sharpen your mind with these expert panel discussions.

SQL Server Live! Panel: In with The New, And The Old Too: The Database New World Order

Thursday November 16, 11:00am – 12:00pm

In the last few years, the database world has changed so much, it's as if we're now surrounded by new trends and technologies. Whether it's NoSQL, Big Data, BI and Analytics, Machine Learning/AI or the move to the Cloud, sometimes it seems as if the world of the on-premise RDBMS has withered away.

But it hasn't. In fact, as incredibly fast as the new stuff is coming out, demand for conventional skills hasn't diminished one bit, and the complexities in the OLTP arena are growing in their own right. Truth is, you can't ignore what's new, and you can't turn your back on the foundational technologies. Somehow, you've got to find an equilibrium and build your skill set to encompass new and old, together.

The question is how. If you'd like some answers, come to this panel discussion. Everyone on the panel has a background in conventional database technologies, and each panel member has branched out into an area of next-gen database tech or the sophisticated new capabilities of on-premises relational database products.



Andrew Brust (Moderator)
SQL Server Live! co-chair, and an industry journalist and analyst focused on Big Data, Analytics, IoT and AI



Ginger Grant
A specialist in BI, with expertise in PolyBase and Azure Data Lake Analytics



Thomas LaRock
SQL Server Live! co-chair, and hardcore SQL Server IT pro



Leni Lobel
Our resident NoSQL/Cosmos DB expert



Karen Lopez
Highly-focused on Azure SQL Database



Jen Stirrup
A veteran machine learning and data visualization expert

Next? SQL Server Live! Networking Event

Thursday November 16, 4:00pm – 5:00pm

After a week of intense learning, what's next for you and your current projects? Part Q&A with speakers and conference chairs and part peer exchange, you can use this time to network with your fellow Visual Studio Live! attendees and select speakers to discuss the best ways to move your projects to the next level.



Bradley Ball
Sr. Consultant – Premier Support for Developers Microsoft



Andrew Brust
Senior Director, Market Strategy and Intelligence Datameer



Denny Cherry
Principal Consultant Denny Cherry & Associates Consulting



Thomas LaRock
Head Geek SolarWinds



Karen Lopez
Data Evangelist InfoAdvisorsAdminize



Panel Discussions

Get the full 360 degree perspective and hear different viewpoints on hot topics. Strengthen your career and sharpen your mind with these expert panel discussions.

TechMentor Panel: The Future of Windows Management

Thursday November 16, 11:00am – 12:00pm

How will we manage Windows in the future? Will MDM replace Group Policy, will Windows Server have a GUI at all? How will we service Windows now that both workstations and servers have a semi-annual upgrade model? Join our panel of world leading experts to hear how they believe the Windows environments of the future will be managed.



Sami Laiho (Moderator)
MVP, MCITP, MCT
Senior Technical Fellow
Adminize



Jeffery Hicks
Senior Technology Fellow,
JDH IT Solutions



Jeremy Moskowitz
Founder, GPanswers.com /
PolicyPak Software



Petri Paavola
Yodamiitti Oy



Panu Saukko
ProTrainIT Oy

Next? TechMentor Networking Event

Thursday November 16, 4:00pm – 5:00pm

After a week of intense learning, what's next for you and your current projects? Part Q&A with speakers and conference chairs and part peer exchange, you can use this time to network with your fellow TechMentor attendees and select speakers to discuss the best ways to move your projects to the next level.



Moderator:
Sami Laiho
MVP, MCITP, MCT
Senior Technical Fellow
Adminize

“OUTSTANDING, EDUCATIONAL SESSIONS!! I LEARNED A LOT. I LIKED THE MIX OF HIGH-LEVEL INTRODUCTORY SESSIONS WITH IN-DEPTH TECHNICAL ONES. THE VARIOUS SPEAKERS WERE ALL EXCELLENT.”

- Scott Borders,
Systems Engineer, Exelis Inc./
Naval Research Lab



Panel Discussions

Get the full 360 degree perspective and hear different viewpoints on hot topics. Strengthen your career and sharpen your mind with these expert panel discussions.

Office & SharePoint Panel: Adapting to & Embracing the Cloud First Office World

Thursday November 16, 11:00am – 12:00pm

A movement within the Office division that started just a few years ago is arguably having an even bigger impact on companies today. From the start, Office 365 included hosted versions of popular products many enterprises use such as SharePoint and Exchange. Since it was introduced, Microsoft has moved to a position of building features and new versions for the hosted Office 365 platform in the cloud first and later porting some of those capabilities to the on-premises offering.

Organizations didn't jump to the cloud in masses at first, rather it happened slowly over time. To their credit, the improvements to the platform have helped with the appeal and convinced many enterprises to go from their on-premises deployments to Office 365. At the same time, many organizations have decided to put their feet in both camps with a hybrid approach.

For developers and IT Pro's alike, these changes have brought interesting challenges to how they work with their customers. Developers have a new customization and extensibility development model in the SharePoint Framework, while IT pros deal with things like hybrid deployments, groups, search, identity, and many others.

How do you make sense of it all and handle these changes? Come to this panel, staffed by Office & SharePoint Live! speakers, backed with years of experience in these topics, to get guidance and ideas on how to tackle the challenges facing you and your organization.



Andrew Connell
MVP, Independent Contractor,
Instructor, Author,
Andrew Connell Inc.



Paul Schaefflein
Microsoft MVP – Office Development
Enterprise Architect,
DMI (Digital Management, LLC)



Scott Hoag
MCITP/MCPD,
Office 365 Solutions Architect,
Crowley Maritime



Julie Turner
Principal Architect,
Sympraxis Consulting



Brian Pendergrass
Senior Premier Field Engineer,
Microsoft



Rob Windsor
Independent Consultant and Author,
Pluralsight

Next? Office & SharePoint Live! Networking Event

Thursday November 16, 4:00pm – 5:00pm

After a week of intense learning, what's next for you and your current projects? Part Q&A with speakers and conference chairs and part peer exchange, you can use this time to network with your fellow Visual Studio Live! attendees and select speakers to discuss the best ways to move your projects to the next level.



Andrew Connell
MVP, Independent Contractor,
Instructor, Author,
Andrew Connell Inc.



Paul Schaefflein
Microsoft MVP – Office Development
Enterprise Architect,
DMI (Digital Management, LLC)



Scott Hoag
MCITP/MCPD,
Office 365 Solutions Architect,
Crowley Maritime



Julie Turner
Principal Architect,
Sympraxis Consulting



Brian Pendergrass
Senior Premier Field Engineer,
Microsoft



Rob Windsor
Independent Consultant and Author,
Pluralsight



Panel Discussions

Get the full 360 degree perspective and hear different viewpoints on hot topics. Strengthen your career and sharpen your mind with these expert panel discussions.

Modern Apps Live! Panel: Mobile Development Technologies

Thursday November 16, 11:00am – 12:00pm



Kevin Ford
*Mobile Practice Lead
Magenic*



Rockford Lhotka
*CTO,
Magenic*



James Montemagno
*Principal Program Manager – Xamarin,
Microsoft*

Next? Modern Apps Live! Networking Event

Thursday November 16, 4:00pm – 5:00pm

After a week of intense learning, what's next for you and your current projects? Part Q&A with speakers and conference chairs and part peer exchange, you can use this time to network with your fellow Modern Apps Live! attendees and select speakers to discuss the best ways to move your projects to the next level.



Rockford Lhotka
*(Moderator)
CTO,
Magenic*



ALM / DevOps	Cloud Computing	Mobile Client
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START TIME	END TIME	NEW! Visual Studio Live! Full Day Hands-On Labs: Sunday, November 12, 2017
7:30 AM	9:00 AM	Hands-On Lab Registration - Coffee and Breakfast Item
9:00 AM	6:00 PM	VSS01 Full Day Hands-On Lab: Busy Developer's HOL on Angular - Ted Newark
2:00 PM	7:00 PM	Pre-Conference Registration - Royal Pacific Resort Conference Center

START TIME	END TIME	Visual Studio Live! Pre-Conference Workshops: Monday, November 13, 2017
7:00 AM	8:30 AM	Registration - Coffee and Breakfast Item
8:30 AM	5:30 PM	VSM01 Workshop: Distributed Cross-Platform Application Architecture - Jason Bock & Rockford Lhotka VSM02 Workshop: Artificial Intelligence or DevOps? - Brian Rouseff
6:30 PM	8:00 PM	Dine-A-Round Dinner @ Margaritaville at Universal CityWalk: 6:30pm - Meet at Conference Registration Desk to walk over with the group

START TIME	END TIME	Visual Studio Live! Day 1: Tuesday, November 14, 2017
7:00 AM	9:00 AM	Registration - Coffee and Breakfast Item
8:00 AM	8:00 AM	VISUAL STUDIO LIVE! / MODERN APPS LIVE! KEYNOTE: Optimizing and Deploying Angular and Node.js Web Apps to the Cloud - Pacific 6 John Papa, Principal Developer Advocate, Microsoft
9:35 AM	10:30 AM	VST01 Front-end Web Development in 2017 for the Front-endally Challenged Microsoft Developer - Chris Klug VST02 Go Mobile with C#, Visual Studio, and Xamarin - Matthew Soucoup
10:30 AM	11:00 AM	Networking Break - Visit the EXPO - Pacific 7

11:00 AM	12:00 PM	LIVE! 360 KEYNOTE: Lessons Learned Doing DevOps at Microsoft at Scale - Pacific 6 Buck Hodges, Director of Engineering, Visual Studio Team Services, Microsoft
12:00 PM	12:45 PM	Lunch - Oceano Ballroom - Visit the EXPO - Pacific 7
12:45 PM	1:30 PM	Dessert Break - Visit the EXPO - Pacific 7
1:30 PM	2:45 PM	VST05 ASP.NET Core MVC - What You Need to Know - Philip Japikse VST06 Optimizing and Extending Xamarin.Forms Mobile Apps - Matthew Soucoup
2:45 PM	3:15 PM	Networking Break - Visit the EXPO - Pacific 7
3:15 PM	4:30 PM	VST09 Angular2/2+ - The 75-Minute Crash Course - Chris Klug VST10 Building a Cross-Platform Mobile App Backend in the Cloud - Nick Landry
4:40 PM	5:00 PM	VST13 Fast Focus: Aurelia vs. Just Angular - Chris Klug VST14 Fast Focus: Tips & Tricks for the Front-endally Challenged Microsoft Developer - Matthew Soucoup
5:10 PM	5:30 PM	VST17 Fast Focus: Web Security 101 - Brock Allen VST18 Fast Focus: Cross-Platform Code Base - Rockford Lhotka
5:30 PM	7:30 PM	Exhibitor Reception - Pacific 7

7:30 AM	8:00 AM	Registration - Coffee and Breakfast Item
8:00 AM	9:15 AM	VSM01 User Authentication for ASP.NET Core MVC Applications - Victor Roubicek VSM02 Cloud Oriented Programming - Victor Roubicek
9:30 AM	10:45 AM	VSM05 Building AngularJS Component-Based Applications - Miguel Castro VSM06 Building Modern Web Apps with Azure - Miguel Castro
10:45 AM	11:30 AM	Networking Break - Visit the EXPO - Pacific 7
11:30 AM	12:30 PM	LIVE! 360 PANEL: Industry Trends, Technology, and Your Career - Pacific 6 Matt Lockhart, Executive Vice President, Microsoft; Michael Aaron, CTO, Biller Solutions, Fieric; Francois Charette, Senior Vice President, Engineering, Optimisight, and Martin Leffler, Vice President, Digital Innovation and Solutions, Texas Mutual Insurance Company
12:30 PM	1:30 PM	Birds-of-a-Feather Lunch - Oceano Ballroom - Visit the EXPO - Pacific 7
1:30 PM	2:00 PM	Dessert Break - Visit the EXPO - Pacific 7
2:00 PM	3:15 PM	VSM08 Securing Web APIs in ASP.NET Core - Brock Allen VSM10 A/B Testing, Canary Releases and Dark Launching: Implementing Continuous Delivery on Azure - Eric D. Boyd
3:15 PM	4:00 PM	Networking Break - Visit the EXPO - Expo Raffle @ 3:30 p.m. - Pacific 7
4:00 PM	5:15 PM	VSM13 Building Enterprise Apps in JavaScript with TypeScript - John Papa VSM14 Lock the Doors, Secure the Valuables, and Set the Alarm - Eric D. Boyd
8:00 PM	10:00 PM	Level 360 Dessert Luau - Wai'anani Pavilion

START TIME	END TIME	Visual Studio Live! Day 2: Wednesday, November 15, 2017
7:30 AM	8:00 AM	Registration - Coffee and Breakfast Item
8:00 AM	9:15 AM	VSM01 User Authentication for ASP.NET Core MVC Applications - Victor Roubicek VSM02 Cloud Oriented Programming - Victor Roubicek
9:30 AM	10:45 AM	VSM05 Building AngularJS Component-Based Applications - Miguel Castro VSM06 Building Modern Web Apps with Azure - Miguel Castro
10:45 AM	11:30 AM	Networking Break - Visit the EXPO - Pacific 7
11:30 AM	12:30 PM	LIVE! 360 PANEL: Industry Trends, Technology, and Your Career - Pacific 6 Matt Lockhart, Executive Vice President, Microsoft; Michael Aaron, CTO, Biller Solutions, Fieric; Francois Charette, Senior Vice President, Engineering, Optimisight, and Martin Leffler, Vice President, Digital Innovation and Solutions, Texas Mutual Insurance Company
12:30 PM	1:30 PM	Birds-of-a-Feather Lunch - Oceano Ballroom - Visit the EXPO - Pacific 7
1:30 PM	2:00 PM	Dessert Break - Visit the EXPO - Pacific 7
2:00 PM	3:15 PM	VSM08 Securing Web APIs in ASP.NET Core - Brock Allen VSM10 A/B Testing, Canary Releases and Dark Launching: Implementing Continuous Delivery on Azure - Eric D. Boyd
3:15 PM	4:00 PM	Networking Break - Visit the EXPO - Expo Raffle @ 3:30 p.m. - Pacific 7
4:00 PM	5:15 PM	VSM13 Building Enterprise Apps in JavaScript with TypeScript - John Papa VSM14 Lock the Doors, Secure the Valuables, and Set the Alarm - Eric D. Boyd
8:00 PM	10:00 PM	Level 360 Dessert Luau - Wai'anani Pavilion

START TIME	END TIME	Visual Studio Live! Day 3: Thursday, November 16, 2017
7:30 AM	8:00 AM	Registration - Coffee and Breakfast Item
8:00 AM	9:15 AM	VSM01 HTTP/2: What You Need to Know - Robert Bodoghian VSM02 PowerApps and Flow Part II: PowerApps and Flow Applications - Manoj Maheshwari & Prasad Lakshmi
9:30 AM	10:45 AM	VSM05 ASP.NET Tag Helpers - Robert Bodoghian VSM06 Storyboarding 101 - Billy Holts
11:00 AM	12:00 PM	VISUAL STUDIO LIVE! PANEL: Native or Web - Does it Matter? - Pacific 6 Brian Randall (Moderator), Damian Brady, Jeremy Clark, Esteban Garcia, Billy Holts, & Deborah Kurata
12:00 PM	1:00 PM	Lunch on the Lanai - Lanai / Pacific 7
1:00 PM	2:15 PM	VSM09 See You Watching the User with Reactive Forms - Deborah Kurata VSM10 Continuous Integration and Delivery for Mobile Applications using YSTS - Brian Randall
2:30 PM	3:45 PM	VSM13 Angular Routing - Deborah Kurata VSM14 XAML Integration: Deep Composition for Better UI - Billy Holts
4:00 PM	5:00 PM	Next! Visual Studio Live! Networking Event - Pacific 7 - Brian Randall (Moderator), Damian Brady, Jeremy Clark, Esteban Garcia, Billy Holts, & Deborah Kurata

START TIME	END TIME	Visual Studio Live! Post-Conference Workshops: Friday, November 17, 2017
7:30 AM	8:00 AM	Registration - Coffee and Breakfast Item
8:00 AM	5:00 PM	VSP01 Workshop: Angular Fundamentals - John Papa VSP02 Workshop: Building, Running & Continuously Deploying Microservices with Docker Containers on Azure - Marcel de Vries & Pieter van Dorsselaer

Software Practices	Visual Studio / .NET Framework	Web Client	Web Server
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START TIME	END TIME	NEW! Visual Studio Live! Full Day Hands-On Labs: Sunday, November 12, 2017
7:30 AM	9:00 AM	Hands-On Lab Registration - Coffee and Breakfast Item
9:00 AM	6:00 PM	VSS02 Full Day Hands-On Lab: From 0-60 in a Day with Xamarin and Xamarin.Forms - Roy Conner
2:00 PM	7:00 PM	Pre-Conference Registration - Royal Pacific Resort Conference Center

START TIME	END TIME	Visual Studio Live! Pre-Conference Workshops: Monday, November 13, 2017
7:00 AM	8:30 AM	Registration - Coffee and Breakfast Item
8:30 AM	5:30 PM	VSM03 Workshop: Service Oriented Technologies: Designing, Developing, & Implementing WCF and Xamarin.Forms - Roy Conner VSM04 Workshop: The Modern Data Warehouse - Bradley Ball & Joshua Lederman VSM05 Workshop: The Secret Toolbox for Performance Tuning and Optimizing Queries - Pinal Dave
6:30 PM	8:00 PM	Dine-A-Round Dinner @ Margaritaville at Universal CityWalk: 6:30pm - Meet at Conference Registration Desk to walk over with the group

START TIME	END TIME	Visual Studio Live! Day 1: Tuesday, November 14, 2017
7:00 AM	9:00 AM	Registration - Coffee and Breakfast Item
8:00 AM	8:00 AM	VISUAL STUDIO LIVE! / MODERN APPS LIVE! KEYNOTE: Optimizing and Deploying Angular and Node.js Web Apps to the Cloud - Pacific 6 John Papa, Principal Developer Advocate, Microsoft
9:35 AM	10:30 AM	VST03 Microservices with Azure Container Service & Service Fabric - Vishwas Lale VST04 What's New in Visual Studio 2017 - Nick Landry
10:30 AM	11:00 AM	Networking Break - Visit the EXPO - Pacific 7

11:00 AM	12:00 PM	LIVE! 360 KEYNOTE: Lessons Learned Doing DevOps at Microsoft at Scale - Pacific 6 Buck Hodges, Director of Engineering, Visual Studio Team Services, Microsoft
12:00 PM	12:45 PM	Lunch - Oceano Ballroom - Visit the EXPO - Pacific 7
12:45 PM	1:30 PM	Dessert Break - Visit the EXPO - Pacific 7
1:30 PM	2:45 PM	VST07 Tactical DevOps with Visual Studio Team Services - Brian Randall VST08 Building ASP.NET Apps on Google Cloud - Mete Abanali
2:45 PM	3:15 PM	Networking Break - Visit the EXPO - Pacific 7
3:15 PM	4:30 PM	VST11 Database Lifecycle Management and the SQL Server Database - Brian Randall VST12 Top 10 Entry Framework Core Features Every Developer Should Know - Philip Japikse
4:40 PM	5:00 PM	VST15 Fast Focus on Azure Functions - Brian Clark VST16 Fast Focus: Busting .NET Myths - Jason Bok
5:10 PM	5:30 PM	VST19 Fast Focus: Exploring Microservices in a Microsoft Landscape - Marcel de Vries VST20 Fast Focus: Dependency Injection in 20 Minutes - Miguel Castro
5:30 PM	7:30 PM	Exhibitor Reception - Pacific 7

7:30 AM	8:00 AM	Registration - Coffee and Breakfast Item
8:00 AM	9:15 AM	VSM01 Overcoming the Challenges of Mobile Development in the Enterprise - Victor Roubicek VSM02 Building Mixed Reality Experiences for HoloLens & Immersive Headsets in Unity - Nick Landry
9:30 AM	10:45 AM	VSM05 Designing Beautiful REST-APIs with Ion - Eric D. Boyd VSM06 Building Modern Web Apps with Azure - Miguel Castro
10:45 AM	11:30 AM	Networking Break - Visit the EXPO - Pacific 7
11:30 AM	12:30 PM	LIVE! 360 PANEL: Industry Trends, Technology, and Your Career - Pacific 6 Matt Lockhart, Executive Vice President, Microsoft; Michael Aaron, CTO, Biller Solutions, Fieric; Francois Charette, Senior Vice President, Engineering, Optimisight, and Martin Leffler, Vice President, Digital Innovation and Solutions, Texas Mutual Insurance Company
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3:15 PM	4:00 PM	Networking Break - Visit the EXPO - Expo Raffle @ 3:30 p.m. - Pacific 7
4:00 PM	5:15 PM	VSM13 Unit Testing & Test-Driven Development (TDD) for Mere Mortals - Benjamin Voss VSM14 PowerApps, Flow, and Common Data Service: Empowering Business - Benjamin Voss
8:00 PM	10:00 PM	Level 360 Dessert Luau - Wai'anani Pavilion

START TIME	END TIME	Visual Studio Live! Day 2: Wednesday, November 15, 2017
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START TIME	END TIME	Visual Studio Live! Post-Conference Workshops: Friday, November 17, 2017
7:30 AM	8:00 AM	Registration - Coffee and Breakfast Item
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BI, Big Data, Data Analytics, and Data Visualization	SQL Server	SQL Server in the Cloud	SQL Server for Developers	SQL Server Performance Tuning and Optimization
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START TIME	END TIME	NEW! SQL Server Live! Full Day Hands-On Labs: Sunday, November 12, 2017
7:30 AM	9:00 AM	Hands-On Lab Registration - Coffee and Breakfast Item
9:00 AM	6:00 PM	TS001 Full Day Hands-On Lab: Developer Dive into SQL Server 2016 - Leonard Lobel TS002 Full Day Hands-On Lab: Experience New SQL Server Availability Options - Allan Hirt
2:00 PM	7:00 PM	Pre-Conference Registration - Royal Pacific Resort Conference Center

START TIME	END TIME	SQL Server Live! Pre-Conference Workshops: Monday, November 13, 2017
7:00 AM	8:30 AM	Registration - Breakfast Item
8:30 AM	5:30 PM	SQ001 Workshop: The Modern Data Warehouse - Bradley Ball & Joshua Lederman SQ002 Workshop: The Secret Toolbox for Performance Tuning and Optimizing Queries - Pinal Dave
6:30 PM	8:00 PM	Dine-A-Round Dinner @ Margaritaville at Universal CityWalk: 6:30pm - Meet at Conference Registration Desk to walk over with the group

START TIME	END TIME	SQL Server Live! Day 1: Tuesday, November 14, 2017
7:00 AM	9:00 AM	Registration - Coffee and Breakfast Item
8:00 AM	8:00 AM	SQL SERVER LIVE! KEYNOTE: Microsoft BI - What's New for BI Pros, DBAs and Developers - Pacific 8-10 Charles Sterling, Senior Program Manager, Microsoft
9:35 AM	10:30 AM	SQT01 Introduction to Azure Cosmos DB - Leonard Lobel SQT02 What's New for Developers in SQL Server 2016 - Leonard Lobel SQT03 Business Intelligence/Analytics in SQL Server 2016 - Thomas LeBlanc
10:30 AM	11:00 AM	Networking Break - Visit the EXPO - Pacific 7

11:00 AM	12:00 PM	LIVE! 360 KEYNOTE: Lessons Learned Doing DevOps at Microsoft at Scale - Pacific 6 Buck Hodges, Director of Engineering, Visual Studio Team Services, Microsoft
12:00 PM	12:45 PM	Lunch - Oceano Ballroom - Visit the EXPO - Pacific 7
12:45 PM	1:30 PM	Dessert Break - Visit the EXPO - Pacific 7
1:30 PM	2:45 PM	SQT04 What's New for Developers in SQL Server 2016 - Leonard Lobel SQT05 Loading a Data Warehouse Using SSIS - Tim Mitchell SQT06 Turbo Boost! - SQL Tricks Everybody MUST Know - Pinal Dave
2:45 PM	3:15 PM	Networking Break - Visit the EXPO - Pacific 7
3:15 PM	4:30 PM	SQT07 SQL Server Analysis Services: Cube Versus Tabular - Java Sea J SQT08 Advanced SSIS Package Authoring with Biml - Java Sea J SQT09 Fast Focus: Using Polybase to Analyze Data from Other Data Sources, Including Hadoop Data - Ginger Grant SQT10 Fast Focus: Azure SQL Data Warehouse - Fast and Furious - Joseph DiStasio SQT11 Fast Focus: Python Essentials for C# Devs - Jan Strup
4:40 PM	5:00 PM	SQT13 Fast Focus: Introduction to Data Science with Azure ML - Bradley Ball SQT14 Fast Focus: Python Essentials for C# Devs - Jan Strup SQT15 Fast Focus: Azure SQL Database A Quick Introduction - Tim Mitchell
5:30 PM	7:30 PM	Exhibitor Reception - Pacific 7

7:30 AM	8:00 AM	Registration - Coffee and Breakfast Item
8:00 AM	9:15 AM	SQW01 Power BI: What Have You Done for Me Lately? - Andrew Brant SQW02 Getting Started with Query Tuning - Joseph DiStasio SQW03 Azure SQL Database and the DBA - Grant Frisby SQW04 Graph DB Support in SQL Server 2017 - Karen Lopez SQW05 HA and DR in the Cloud - Building Robust SQL Server Solutions on Azure - Joseph Gravano SQW06 Cardinality Estimates in Microsoft SQL Server - Thomas LaTook
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2:00 PM	3:15 PM	SQW07 Big Data Technologies: What, Where and How to Run Them on Azure - Java Sea J SQW08 Introduction to R - Java Sea J SQW09 Data Lake Analytics with U-SQL - Ginger Grant SQW10 Data Lake Analytics with R in Hadoop and SQL Server - Jan Strup SQW11 Big Data Smorgasbord with R in Hadoop and SQL Server - Jan Strup SQW12 Exploring Execution Plans - Grant Frisby
3:15 PM	4:00 PM	Networking Break - Visit the EXPO - Expo Raffle @ 3:30 p.m. - Pacific 7
4:00 PM	5:15 PM	SQW13 Unit Testing & Test-Driven Development (TDD) for Mere Mortals - Benjamin Voss SQW14 PowerApps, Flow, and Common Data Service: Empowering Business - Benjamin Voss
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2:00 PM	3:15 PM	SQW07 Big Data Technologies: What, Where and How to Run Them on Azure - Java Sea J SQW08 Introduction to

Visual Studio® **LIVE!**

EXPERT SOLUTIONS FOR .NET DEVELOPERS

Coding in Paradise



AGENDA AT-A-GLANCE

ALM / DevOps		Cloud Computing		Native Client		Software Practices		Visual Studio / .NET Framework		Web Client		Web Server	
<div style="text-align: center;">  Visual Studio Live! Full Day Hands-On Labs: Sunday, November 12, 2017 (additional fee applies) </div>													
9:00 AM	6:00 PM	VSS01 Full Day Hands-On Lab: Busy Developer's HOL on Angular - Ted Neward						VSS02 Full Day Hands-On Lab: From 0-60 in a Day with Xamarin and Xamarin.Forms - Roy Cornelissen					
2:00 PM	7:00 PM	Pre-Conference Registration											
<div style="text-align: center;"> Visual Studio Live! Pre-Conference Workshops: Monday, November 13, 2017 </div>													
8:30 AM	5:30 PM	VSM01 Workshop: Distributed Cross-Platform Application Architecture - Jason Bock & Rockford Lhotka				VSM02 Workshop: Artificial Intelligence - Brian Randell				VSM03 Workshop: Service Oriented Technologies: Designing, Developing, & Implementing WCF and the Web API - Miguel Castro			
6:30 PM	8:00 PM	Dine-A-Round Dinner @ Universal CityWalk											
<div style="text-align: center;"> Visual Studio Live! Day 1: Tuesday, November 14, 2017 </div>													
8:00 AM	9:00 AM	VISUAL STUDIO LIVE! KEYNOTE: Optimizing and Deploying Angular and Node.js Web Apps to the Cloud John Papa, Principal Developer Advocate, Microsoft											
9:15 AM	10:30 AM	VST01 Front-end Web Development in 2017 for the Front-endally Challenged Microsoft Developer - Chris Klug			VST02 Go Mobile with C#, Visual Studio, and Xamarin - James Montemagno			VST03 Microservices with Azure Container Service & Service Fabric - Vishwas Lele			VST04 What's New in Visual Studio 2017 - Robert Green		
10:30 AM	11:00 AM	Networking Break • Visit the EXPO											
11:00 AM	12:00 PM	LIVE! 360 KEYNOTE: Lessons Learned Doing DevOps at Microsoft at Scale - Buck Hodges, Director of Engineering, Visual Studio Team Services, Microsoft											
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12:45 PM	1:30 PM	Dessert Break • Visit the EXPO											
1:30 PM	2:45 PM	VST05 ASP.NET Core MVC—What You Need to Know - Philip Japikse			VST06 Optimizing and Extending Xamarin.Forms Mobile Apps - James Montemagno			VST07 Tactical DevOps with Visual Studio Team Services - Brian Randell			VST08 Building ASP.NET Apps on Google Cloud - Mete Atamel		
2:45 PM	3:15 PM	Networking Break • Visit the EXPO											
3:15 PM	4:30 PM	VST09 Angular(2)—The 75-Minute Crash Course - Chris Klug			VST10 Building a Cross-Platform Mobile App Backend in the Cloud - Nick Landry			VST11 Database Lifecycle Management and the SQL Server Database - Brian Randell			VST12 Top 10 Entity Framework Core Features Every Developer Should Know - Philip Japikse		
4:40 PM	5:00 PM	VST13 Fast Focus: Aurelia vs. Just Angular - Chris Klug			VST14 Fast Focus: Tips & Tricks for Xamarin Development - James Montemagno			VST15 Fast Focus on Azure Functions - Brian Clark			VST16 Fast Focus: Busting .NET Myths - Jason Bock		
5:10 PM	5:30 PM	VST17 Fast Focus: Web Security 101 - Brock Allen			VST18 Fast Focus: Cross-Platform Code Reuse - Rockford Lhotka			VST19 Fast Focus: Exploring Microservices in a Microsoft Landscape - Marcel de Vries			VST20 Fast Focus: Dependency Injection in 20 Minutes - Miguel Castro		
5:30 PM	7:30 PM	Exhibitor Reception											

Sessions and speakers subject to change.

Continued next page

AGENDA AT-A-GLANCE (continued)

		ALM / DevOps	Cloud Computing	Native Client	Software Practices	Visual Studio / .NET Framework	Web Client	Web Server
Visual Studio Live! Day 2: Wednesday, November 15, 2017								
8:00 AM	9:15 AM	VSW01 User Authentication for ASP.NET Core MVC Applications - Brock Allen	VSW02 Cloud Oriented Programming - Vishwas Lele	VSW03 Overcoming the Challenges of Mobile Development in the Enterprise - Roy Cornelissen	VSW04 Building Apps with Microsoft Graph and Visual Studio - Robert Green			
9:30 AM	10:45 AM	VSW05 Building AngularJS Component-Based Applications - Miguel Castro	VSW06 Building Modern Web Apps with Azure - Eric D. Boyd	VSW07 Creating a Release Pipeline with Team Services - Esteban Garcia	VSW08 Bots are the New Apps: Building Bots with ASP.NET Web API & Language Understanding - Nick Landry			
10:45 AM	11:30 AM	Networking Break • Visit the EXPO						
11:30 AM	12:30 PM	LIVE! 360 KEYNOTE: Live! 360 Panel: Industry Trends, Technology, and Your Career - Matt Lockhart, Michael Aaron, Martin Leifke, Francois Charette						
12:30 PM	1:30 PM	Birds-of-a-Feather Lunch						
1:30 PM	2:00 PM	Dessert Break • Visit the EXPO						
2:00 PM	3:15 PM	VSW09 Securing Web APIs in ASP.NET Core - Brock Allen	VSW10 A/B Testing, Canary Releases and Dark Launching, Implementing Continuous Delivery on Azure - Marcel de Vries	VSW11 Azure Functions Webhook Interface - Nick Zimmerman	VSW12 To Be Announced			
3:15 PM	4:00 PM	Networking Break • Visit the EXPO • Expo Raffle						
4:00 PM	5:15 PM	VSW13 Build Object-Oriented Enterprise Apps in JavaScript with TypeScript - John Papa	VSW14 Lock the Doors, Secure the Valuables, and Set the Alarm - Eric D. Boyd	VSW15 Unit Testing & Test-Driven Development (TDD) for Mere Mortals - Benjamin Day	VSW16 PowerApps, Flow, and Common Data Service: Empowering Businesses with the Microsoft Business Application Platform - Charles Sterling			
8:00 PM	10:00 PM	Live! 360 Dessert Luau						

Sessions and speakers subject to change.

Continued next page

“THERE WERE LOTS OF DEVELOPER FOCUSED CLASSES, AND THEY AREN'T ALL FOCUSED ON NEW TRENDY THINGS. THEY ACTUALLY FOCUS ON THINGS THAT ARE PRACTICAL AND I SHOULD HAVE LEARNED THEM A LONG TIME AGO.”

- Thomas M. Adams, i360

AGENDA AT-A-GLANCE (continued)

		ALM / DevOps	Cloud Computing	Native Client	Software Practices	Visual Studio / .NET Framework	Web Client	Web Server	
Visual Studio Live! Day 3: Thursday, November 16, 2017									
8:00 AM	9:15 AM	VSH01 HTTP/2: What You Need to Know - Robert Boedigheimer		VSH02 PowerApps and Flow Part II: Package, Embed, and Extend Your Applications - Manas Maheshwari & Pratap Ladhani		VSH03 Exploring C# 7 New Features - Adam Tuliper		VSH04 Top 10 Ways to Go from Good to Great Scrum Master - Benjamin Day	
9:30 AM	10:45 AM	VSH05 ASP.NET Tag Helpers - Robert Boedigheimer		VSH06 Storyboarding 101 - Billy Hollis		VSH07 .NET Standard—From Noob to Ninja - Adam Tuliper		VSH08 Devs vs. Ops: Making Friends with the Enemy - Damian Brady	
11:00 AM	12:00 PM	VISUAL STUDIO LIVE! PANEL: Native or Web - Does it Matter? - Brian Randell (Moderator), Damian Brady, Jeremy Clark, Esteban Garcia, Billy Hollis, & Adam Tuliper							
12:00 PM	1:00 PM	Lunch on the Lanai							
1:00 PM	2:15 PM	VSH09 I See You: Watching the User with Reactive Forms - Deborah Kurata		VSH10 Continuous Integration and Delivery for Mobile Applications using VSTS - Kevin Ford		VSH11 Deploying Straight to Production: A Guide to the Holy Grail - Damian Brady		VSH12 Design Patterns: Not Just for Architects - Jeremy Clark	
2:30 PM	3:45 PM	VSH13 Angular Routing - Deborah Kurata		VSH14 XAML Inception—Deep Composition for Better UI - Billy Hollis		VSH15 Application Insights: Measure Your Way to Success - Esteban Garcia		VSH16 DI Why? Getting a Grip on Dependency Injection - Jeremy Clark	
4:00 PM	5:00 PM	Next? Visual Studio Live! Networking Event - Brian Randell (Moderator), Damian Brady, Jeremy Clark, Esteban Garcia, Billy Hollis, & Deborah Kurata							
Visual Studio Live! Post-Conference Workshops: Friday, November 17, 2017									
8:00 AM	5:00 PM	VSF01 Workshop: Angular Fundamentals - John Papa				VSF02 Workshop: Building, Running & Continuously Deploying Microservices with Docker Containers on Azure - Marcel de Vries & Rene van Osnabrugge			

Sessions and speakers subject to change.

“OPPORTUNITIES TO SPEAK WITH VENDORS AND LEARN MORE ABOUT C# 6 IN COURSES. I WAS LOOKING TO IMPROVE MY CURRENT SKILL SETS, AND FELT THAT I DID.”

- David Sitzes, Aces

VISUAL STUDIO LIVE! ORLANDO 2017 SESSION DESCRIPTIONS BY TRACK

NEW!

Full Day Hands-On Labs



New to Live! 360 Orlando, these instructor-led, pre-conference Hands-On Labs offer attendees intensive in-depth training before the conference officially begins. Choose from eight extended 8-hour labs and take advantage of in-person instruction as well as collaboration with peers.

Attendance for each Hands-On Lab is limited, so be sure to sign up early for these special bring your own laptop pre-conference HOLs.

(Additional fee required. See [pricing page](#) for details.)

VSS01 Full Day Hands-On Lab: Developer's HOL on Angular

Intermediate

TED NEWARD

Sunday, November 12, 9:00am – 6:00pm

In the world of the Single-Page Application (SPA), one name that appears over and over again is that of AngularJS, a JavaScript web framework that does things a little differently—and with great effect. But getting started with AngularJS is a higher bar than some other JavaScript frameworks, because if you don't do things the "Angular Way", it gets really tricky really quickly. In this Hands-On Lab, we'll start from zero, with a little TypeScript, then start working with Angular 2: its core constructs and how it works with components, modules, and of course the ubiquitous model/view/controller approach. Bring your laptop, a buddy, and a caffeinated beverage of your choice, because once you strap in, it's going to be an exciting hands-on, lecture/lab ride.

Attendance is limited.

Attendee Requirements:

You must provide your own laptop computer for this hands-on lab.

Any development laptop with NodeJS v5.x.x (or greater) and npm v3.x.x (or greater) installed before arriving. (Check the versions by opening a command-line terminal and typing "node -v" and "npm -v".) VisualStudio Code is recommended, but not required.

VSS02 Full Day Hands-On Lab: From 0-60 in a day with Xamarin and Xamarin.Forms

Introductory / Intermediate

ROY CORNELISSEN

Sunday, November 12, 9:00am – 6:00pm

Becoming a multi-platform mobile developer using just .NET seemed like a dream until recently. When Microsoft acquired Xamarin, they opened up a whole new world of native mobile app development with our beloved .NET framework. But building high quality apps on iOS, Android and Windows UWP isn't just that easy and may seem daunting. Let us guide you on your journey into mobile.

In this full day Hands-On Lab, you'll walk through the process of building one app for many platforms. You'll learn how to reuse as much code as possible, while keeping the uniqueness of each platform to appeal to the native users. You'll also learn the details of each platform, the app concepts of each platform, because we think building quality apps requires understanding the platforms you're building for. You'll learn how you can architect your app in such a way to share code amongst these platforms and help you get much better ROI than building three separate native apps.

You will learn:

- How to build your first mobile apps on three platforms with the Xamarin framework
- How to build your first Xamarin mobile app
- How to maintain platform uniqueness while sharing a large chunk of your codebase
- How to think "mobile first" in your application architecture

Attendance is limited.

Attendee Requirements:

You must provide your own laptop computer for this hands-on lab.

ALM/DevOps

Shipping high quality software may be a team sport, but doing it requires herding cats. From process management to the mechanics of automation, you need to get people, process, and tools working in harmony. Good Application Lifecycle Management practices are hard. Add to that the fact that business demands more from teams, more quickly, and it's clear that we as an industry need to evolve. DevOps is the hot buzzword but what does it mean and how do you bring it to your organization?

In this track we've got a range of sessions to help you build software that has greater quality and can be delivered continuously if your users need it. You'll find coverage of:

- DevOps with Visual Studio Team Services
- Automated deployment pipelines
- Mobile development challenges in the enterprise
- Database lifecycle management and DevOps for SQL Server databases
- UI Automation testing
- Unit Testing and TDD
- Deploying straight to production
- Measuring your applications with Application Insights

VISUAL STUDIO LIVE! ORLANDO 2017 SESSION DESCRIPTIONS BY TRACK (continued)

VSM02 Workshop: Artificial Intelligence

BRIAN RANDELL

Monday, November 13, 8:30am – 5:30pm

Building the future today means adding intelligence to your apps. In the modern world that means taking advantage of the cloud and the huge power it brings to bear. In this workshop, Brian will show you how to put a UI on artificial intelligence by teaching you how to build multi-channel bots using the Microsoft Bot Framework and Cognitive Services. Bots built with the Microsoft Bot Framework can easily be integrated with multiple channels like a web site, Skype, Slack, Facebook, and even Cortana.

By optionally adding Cognitive Services to your apps you can add powerful algorithms to see, hear, speak, understand, and interpret our needs using natural methods of communication, with just a few lines of code. You'll learn about the various services and how you use the smarts behind them to make your apps even better. In particular the Language Understanding Intelligent Service, LUIS, lets you add conversational intelligence to give your bot a natural flow.

All of this can be built on top of ASP.NET, or node.js if you're so inclined. We'll focus on ASP.NET and C# in the workshop. In addition, like all apps, you'll want to wrap your app in a solid DevOps practice so you'll see how you can host your code in Visual Studio Team Services, have full traceability with work item tracking, use Team Build for quality with unit tests, and use the Release Management tools to control updates to your bot via a full CI/CD pipeline. By the end of the day you'll have all the code and notes to add intelligence to your solutions.

VST07 Tactical DevOps with Visual Studio Team Services

Introductory

BRIAN RANDELL

Tuesday, November 14, 1:30 – 2:45pm

Come spend 75 minutes digging into Visual Studio Team Services with Visual Studio 2017. No theory – just a practical drill down into the latest features you can use to take a .NET Core Web Application and get a full DevOps pipeline working on either Windows or Linux. This session will cover storing code in private Git repos, tracking work using the Scrum Template, creating a build that runs unit tests, creating a release that runs deployment tests, and adding analytics so you know how your site is performing.

You will learn:

- How to create a .NET Core Web Application
- How to manage the app development process with VSTS
- How to create a practical DevOps pipeline

VST11 Database Lifecycle Management and the SQL Server Database

Intermediate

BRIAN RANDELL

Tuesday, November 14, 3:15 – 4:30pm

DevOps is hot, but the database is often the missing link. How do you manage the necessary changes need to support your applications? How do you track these changes and follow a change from development to test to production? You need an effect database lifecycle management plan.

In this session, you'll learn where the SQL Server database fits in to DevOps, and how you can use tools to extend your infrastructure to make the database a first-class citizen, just like your source code. You'll see how to track changes with version control, create update packages, and with complete automation, deploy to multiple environments like development, test, UAT, and

production and basically bring things under control with Database Lifecycle Management. You'll learn the process as well as see examples using the Visual Studio SQL Server Database Tools, Team Foundation Server Team Build, Release Management, as well as custom tools from Redgate.

You will learn:

- Why you need DevOps for your database
- How to define a good Database Lifecycle Management (DLM) process
- How to use Microsoft and Redgate tools to implement the DLM process

VSW03 Overcoming the Challenges of Mobile Development in the Enterprise

Introductory / Intermediate

ROY CORNELISSEN

Wednesday, November 15, 8:00 – 9:15am

Mobility has taken a real flight in recent years, and is also becoming prevalent in the Enterprise. Suddenly organizations are faced with many choices, ranging from a choice of devices/platforms to support, enabling Bring Your Own Device policies, development strategies and management/governance issues.

In this session, Roy will cover some of these issues, and more specifically, how some aspects may bite each other. After doing projects for customers in which we built cross platform applications with Xamarin in combination with Enterprise Mobility Management platforms, he's learned some pitfalls which he will share with you.

VSW07 Creating a Release Pipeline with Team Services

Introductory / Intermediate

ESTEBAN GARCIA

Wednesday, November 15, 9:30 – 10:45am

Teams go through an entire project without knowing if their applications work or compile anywhere other than a developer's machine. It's often thought that creating a

VISUAL STUDIO LIVE! ORLANDO 2017 SESSION DESCRIPTIONS BY TRACK (continued)

Continuous build and release process is really difficult to do. By creating a robust Release Pipeline, you can reduce your team's cycle time and increase your ability to have a healthy codebase.

We will use Team Services to create a continuous integration build and release process that will help you go from coding in Visual Studio 2017 to running your code in Azure in just a few simple actions. Your release pipeline will compile your code, run unit tests, create multiple Azure environments, run functional tests and load tests, and ensure that you have working and deployable software throughout your entire project.

You will learn:

- About the build and release system in Team Services
- About deploying infrastructure to Azure
- How to create a reliable process that will help you build quality into your software development process

VSW15 Unit Testing & Test-Driven Development (TDD) for Mere Mortals

Intermediate / Advanced

BENJAMIN DAY

Wednesday, November 15, 4:00 – 5:15pm

Unit Testing and Test-Driven Development (TDD) arguably mean the same thing. They (both describe a way of developing software so that you always know whether or not it's working. You write little chunks of code (unit tests) that verify the objects and methods in your application's code and it helps you make sure that you have PROOF that your code works. It also makes your code easier to maintain and easier to refactor. Plus, while it might not feel like it right away, writing using tests makes your development process go a lot faster.

In this session, Ben will discuss what unit testing & TDD are all about, why you should care, and how to do it with C# and ASP.NET MVC. Along the way, expect to hear about "designing for testability" and some really helpful testability design patterns like the Strategy, Repository, and Adapter patterns.

You will learn:

- Why write unit tests?
- How to write unit tests?
- Unit tests for user interface code

VSH11 Deploying Straight to Production: A Guide to the Holy Grail

Introductory / Intermediate

DAMIAN BRADY

Thursday, November 16, 1:00 – 2:15pm

You've toiled hard on your code, tested it locally, and you're confident it's ready to go. But how long until you see it in production? For some teams, it can be months or even years. By the time your new feature or bug fix gets used in anger, you've forgotten what you did! But with a great deployment pipeline and some clever architecture, there's a better way.

This session is packed with war stories and real world successes. We'll walk through the realities of a no-touch deployment pipeline that you can trust all the way to production, and we'll examine some clever architectural patterns to enable true software agility. By the end, you'll be convinced that if it's not in production, it doesn't count. If you struggle to get updates in the hands of users, this is the session for you.

You will learn:

- The importance of a delivery pipeline that focuses on automation and filtering to get good stuff to production quickly, and keep the bad stuff out
- How to get started on a pipeline that lets you do no-touch deployments to production safely and quickly

VSH15 Application Insights: Measure Your Way to Success

Intermediate

ESTEBAN GARCIA

Thursday, November 16, 2:30 – 3:45pm

Application Insights helps you monitor your live applications by giving you the tools to detect and diagnose performance issues, and getting insights into how your application is used. Once you deploy your application to Azure, it will be important to determine usage patterns, performance changes, response time metrics, and other key information to help you keep your application running efficiently.

This session will introduce you to Application Insights, how to get started using it in your new and existing applications, and how to harness its power by adding instrumentation with your own metrics.

You will learn:

- Why getting metrics about your application is so important, especially in Azure
- How to get started with Application Insights very quickly
- How to discover metrics available on the Azure Portal

VISUAL STUDIO LIVE! ORLANDO 2017 SESSION DESCRIPTIONS BY TRACK (continued)

Cloud Computing

A growing number of IT practitioners believe the future of application development is service-based and in the cloud. Cloud computing offers flexible scalability and can provide a less expensive way to host many applications. Even if you aren't ready for Microsoft Azure yet, you owe it to yourself to become familiar with cloud computing and the services approach to development.

This track includes coverage of the following:

- Microservices with Azure Container Service & Service Fabric
- Fast Focus on Azure Functions
- Fast Focus on Microservices
- Cloud-Oriented Programming
- Build modern web apps with Azure
- A/B Testing on Azure
- Security on Azure

VSM01 Workshop: Distributed Cross-Platform Application Architecture

Intermediate

JASON BOCK & ROCKFORD LHOTKA

Monday, November 13, 8:30am – 5:30pm

When it comes to software architecture and development, distributed computing is both a pressing development concern and age-old concept. It can still be confusing and intimidating to work with systems that span multiple machines and platforms, especially with the myriad cloud-based and on-premises technologies available today. You have numerous resources at your disposal to make your distributed systems scalable, reliable, and maintainable. This workshop will cover

the fundamentals of distributed computing, along with tools and frameworks you can use to build and deploy your application. You'll learn how to apply technologies such as Azure Functions, Azure Service Fabric, Signal-R, RESTful services, and so on.

VST03 Microservices with Azure Container Service & Service Fabric

Intermediate

VISHWAS LELE

Tuesday, November 14, 9:15 – 10:30am

Many are increasingly seeing microservices as the architectural style of choice, especially when it comes to building cloud-based applications. This session will look at key tenets of microservices. Then you'll switch to practically applying these concepts to two related Azure Services: Azure Container Service and Azure Service Fabric.

VST08 Building ASP.NET Apps on Google Cloud

Introductory to Intermediate

METE ATAMEL,
Developer Advocate, Google

Tuesday, November 14, 1:30 – 2:45pm

With high performance Virtual Machines (VM) and networking, blazing fast VM provisioning and autoscaling and a rich set of services, Google Cloud is a great platform to deploy and run your traditional ASP.NET and new containerised ASP.NET Core applications. In this session, we will cover:

- How to run traditional Windows and SQL Server based ASP.NET apps on Compute Engine.
- How to run the new Linux based containerised ASP.NET Core apps App Engine and Kubernetes/ Container Engine.

- How to integrate with Google Cloud services such as Cloud Storage and use machine learning APIs such as Vision API and Speech API.
- How to use Google Cloud PowerShell cmdlets and Visual Studio extension to manage your projects.
- This is your opportunity to learn about what Google Cloud offers for your ASP.NET app!

VST15 Fast Focus on Azure Functions

Intermediate

BRIAN CLARK

Tuesday, November 14, 4:40 – 5:00pm

Azure functions enables developers to host and run chunks of code in the cloud, without the need for creating and maintaining the infrastructure around that code, such a solutions and projects, as you do when developing websites. They are event driven, serverless, compute-on-demand experiences that you can write in just about any language, from JavaScript to C# to Python, Ruby, and PHP. Azure functions can enable integrated backend operations for a wide array of scenarios including web and apps, IoT, and more. With Azure functions, you can immediately get your code up and running, which is essential in today's ever changing technology world. In this session, you'll learn how to architect and build Azure functions apps and microservices for a variety of scenarios.

You will learn:

- About micro and nanoservices
- How to build Azure Functions apps
- About cloud computing with Azure

VISUAL STUDIO LIVE! ORLANDO 2017 SESSION DESCRIPTIONS BY TRACK (continued)

VST19 Fast Focus: Exploring Microservices in a Microsoft Landscape

Introductory / Intermediate

MARCEL DE VRIES

Tuesday, November 14, 5:10 – 5:30pm

In this session we will discuss the basic fundamentals of MSA and how to apply this to your software. We will have a look at using windows containers to deliver your services to either Azure Container services or Service Fabric. This session is a real must-see for any developer that wants to stay ahead of the curve in modern architectures

You will learn:

- Some fundamentals on what micro services are
- How to deliver a micro service using containers
- What options the Microsoft platform has to offer

VSW02 Cloud Oriented Programming

Intermediate

VISHWAS LELE

Wednesday, November 15, 8:00 – 9:15am

The public cloud is tomorrow's IT backbone. As cloud vendors introduce new capabilities, the application-building process is going through a profound transformation. The cloud is based on the key tenets of commodity hardware, usage-based billing, scale-out, and automation – all on a global scale. So how does the cloud affect what you do as a developer every day? What do you need to do at the code level that aligns with the aforementioned tenets? This session will go over tips and tricks designed to help you make more effective use of the cloud.

You will learn:

- About the tenets of cloud development: global scale, commodity hardware, usage-based billing, scale-out, and automation

- How the cloud impacts what you do as a programmer every day
- What you need to do at a program level that aligns you with those tenets

VSW06 Building Modern Web Apps with Azure

Introductory / Intermediate

ERIC D. BOYD

Wednesday, November 15, 9:30 – 10:45am

Modern web apps typically consist of web APIs, web front-ends and background jobs. These modern web apps typically store data in multiple data services including relational databases like SQL Server, NoSql JSON document databases, NoSql key-value stores, files, and distributed caches. And we want to provide a great experience and great performance for users using edge services for routing requests and caching data.

- Azure can sometimes be confusing with the many options available to solve a given problem. For example:
- Should you store data in Blob Storage, Table Storage, SQL Database, DocumentDB or yet another service?
- Should you host your applications in a Virtual Machine, Cloud Service, App Service or Service Fabric?
- Should you do messaging with Queues, Service Bus, Event Hubs or IoT Hubs?
- Should you do background processing in a Virtual Machine, Cloud Service, WebJob or Function?

In this session, you will learn how to build robust web apps and business solutions using the Azure PaaS services. Eric will walkthrough design scenarios and explain the strengths and weaknesses of the services in each scenario to empower you make good design decisions. Throughout the session, you will see how to develop with several Azure services that complement each other and will ultimately form a robust web app.

If you are building modern web applications, you will not want to miss this session.

You will learn:

- Overview of modern web app capabilities in Azure
- When to use each Azure service in your solutions
- How to develop robust solutions using Azure services

VSW10 A/B Testing, Canary Releases and Dark Launching, Implementing Continuous Delivery on Azure

Introductory / Intermediate

MARCEL DE VRIES

Wednesday, November 15, 2:00 – 3:15pm

With continuous delivery we strive for delivering features on demand any time we want. This is of course something that can be challenging if you run an operation that needs to be available 24x7. In this session we will have a look at different technologies that we have at hand to separate feature deployments from feature exposure, making it possible to make releasing a feature to the end user nothing more than the flip of a switch. We will have a look at how we can use the different technologies like feature toggles and traffic management to implement continuous delivery release techniques like A/B Testing, Canary releases, and dark launching.

You will learn:

- About working with Feature toggles in stead of a branch
- About using Microsoft release manager
- About using Traffic Management and Deployment slots to create a canary release or a dark launch

VISUAL STUDIO LIVE! ORLANDO 2017 SESSION DESCRIPTIONS BY TRACK (continued)

VSW11 Azure Functions Webhook Interface

Introductory to Intermediate

NICK ZIMMERMAN

Senior Site Reliability Engineer, SparkPost

Wednesday, November 15, 2:00pm - 3:15pm

Azure Functions make it easy to create and host webhook interfaces without maintaining a server. You can quickly setup an endpoint to receive data and act on it. Being able to ingest, process, and respond to data from a variety of sources without building out an infrastructure gives you time to focus on building functionality.

This presentation will show you how to setup an Azure Function, accept webhook data, process that data with C#, and integrate that data into an application in real time.

VSW14 Lock the Doors, Secure the Valuables, and Set the Alarm

Introductory / Intermediate

ERIC D. BOYD

Wednesday, November 15, 4:00 – 5:15pm

Data center attacks and security breaches are hot, but common news today. When considering the cloud, security, privacy, and compliance are often top concerns. And rightfully so, you don't want to be the next big news story.

Join Azure MVP, Eric D. Boyd, and learn how to secure your Azure Data Center by reducing the exposure for attacks, locking down internal and external communications, protecting your data, and monitoring the activities within your Azure environment.

You will get a lap around a number of Azure capabilities including network security groups, Key Vault, VM disk encryption, SQL Database security, Azure Security Center, Next-Generation Firewalls, Web Application Firewalls, and more.

You will learn:

- How to secure the Azure environment, network, servers, services and even your applications
- How to encrypt and protect your data
- How to monitor and audit your Azure environment

VSF02 Workshop: Building, Running, & Continuously Deploying Microservices with Docker Containers on Azure

Introductory / Intermediate

MARCEL DE VRIES & RENE VAN OSNABRUGGE

Friday, November 17, 8:00am – 5:00pm

You are a (lead-)developer or architect who wants to design and implement a modern Microsoft based microservices architecture using Microsoft technologies. You want to transition from a monolithic architecture to an architecture that consists out of small and independent services that you can scale independently on your different develop, test and production environments.

In this one day Workshop we will guide you through the concepts behind Micro Services, Containers and Containerized delivery to help you build and manage MSA based systems.

We will show how to build services and deploy them to different hosting environments like Azure ACS (with either Kubernetes, DC/OS or Swarm), Service fabric or on your own on premises container environment.

Topics that will be covered:

- Microservice architectures on a Microsoft Stack
- Containers & Docker on Windows
- Continuous delivery with VSTS of containerized applications
- Setting up ACS clusters with Kubernetes, DC/OS or Swarm
- Deploying to different environments including clusters
- Adding Telemetry to your system to find issues in the constellation of services
- Zero downtime deployments of new versions of your application, including the database!
- You will learn:
 - About Microservices
 - How you can apply the reactive manifesto
 - How to think in events versus request response
 - How to build, deploy, and debug a set of Microservices
 - What technologies you can use to build a Microservices Architecture on the Microsoft Stack
 - What Container technology has to offer
 - About building and running Docker containers on Windows
 - How to set up a Containerized Delivery Pipeline
 - How to build and maintain a container cluster in the cloud
 - How to manage and operate a cluster

VISUAL STUDIO LIVE! ORLANDO 2017 SESSION DESCRIPTIONS BY TRACK (continued)

Native Client

Native applications, whether they be on Windows, iOS and Android are of utmost importance. Mobile apps are becoming a common vehicle to allow users' interaction with each other, their organizations and their business applications. In the desktop arena, it can be easy to forget that there are over a billion Windows PCs in the world and Windows remains the dominant OS. This track is focused on building native mobile apps with tools like Xamarin and Windows apps using XAML and other technologies. This track includes coverage of the following:

- Mobile development with C#, Xamarin, and Visual Studio
- Optimizing Xamarin Forms Apps
- Building mobile friendly apps in the cloud
- Fast Focus on Xamarin Development
- Fast Focus on cross-platform code reuse
- Mobile on the Microsoft stack
- Storyboarding 101
- CI for mobile using Azure Services
- XAML deep composition

VST02 Go Mobile with C#, Visual Studio, and Xamarin

Introductory / Intermediate

JAMES MONTEMAGNO

Tuesday, November 14, 9:15 – 10:30am

The mobile landscape continues to expand and evolve at a rapid pace. Users expect great native experiences in the palm of their hands on each and every platform.

A major hurdle for developers today is the separate programming language and tools to learn and maintain for each platform. Even if you tackle the burden of learning Objective-C, Swift, or Java, you'll still have to manage multiple code bases, which can be a nightmare for any development team large or small. It doesn't have to be this way as you can create Android, iOS, Windows apps leveraging the .NET framework and everything you love about C#.

In this session, you'll learn about the technology that Xamarin offers and how it works to enable developers to leverage a shared C# code base across all mobile platforms. You'll walk you through developing, designing, deploying, and optimizing your first mobile apps for iOS, Android, and Windows from a single code base. You'll even see how to share more code with Xamarin.Forms, which enables you to build native UIs for iOS, Android and Windows from a single, shared C# codebase. You will walk away with the knowledge to build cross platform mobile app with C# features such as LINQ, async/await, events, and delegates and inside of both Visual Studio and Xamarin Studio.

You will learn:

- How to apply C# and Visual Studio skills for mobile development
- About assessment tools for determining how much existing C# code can be mobilized
- Architectural best practices

VST06 Optimizing and Extending Xamarin.Forms Mobile Apps

Intermediate

JAMES MONTEMAGNO

Tuesday, November 14, 1:30 – 2:45pm

Xamarin.Forms allows you to build a native UI for three platforms with one shared C# codebase. Simply put, if you know C# then you already know how to build iOS, Android, and Windows apps. Leverage the .NET Framework to build out your shared business logic including integration with web services and Azure

Mobile Apps and then build out your shared UI in C# or XAML. Xamarin.Forms also features a built-in two-way data binding, dependency service to help you implement platform-specific code, an advanced cross-platform animation system, support for custom controls, and lots of other powerful features to help you build the best apps possible in the least amount of time.

During this session, we will focus on the latest developments in Xamarin.Forms enabling you to share even more code and build even more beautiful apps in less time. We will look at Custom Renders, Effects, Platform Specifics, Bindable Native Views, the Xamarin.Forms previewer, and so much more! We will end by looking at tweaking and tuning your Xamarin.Forms applications for the best performance possible.

You will learn:

- About sharing XAML between iOS, Android, and Windows with shared and native views
- How to easily extending Xamarin.Forms with effects and platform specifics
- Hopw to optimizing your Xamarin.Forms apps

VST10 Building a Cross-Platform Mobile App Backend in the Cloud

Intermediate / Advanced

NICK LANDRY

Tuesday, November 14, 3:15 – 4:30pm

The Cloud is the perfect extension for mobile applications. Mobile apps don't exist in a vacuum, you never know if you'll have 10 or 10,000 users, and sooner or later you'll need to save user data in the cloud, perform operations server-side for enhanced scalability, or monitor data feeds to push notifications to your mobile users. Microsoft Azure provides the best infrastructure for mobile developers across all platforms thanks to cross-platform storage, authentication and push notification services, all residing in the cloud. This session explores how you can build cloud-enabled cross-platform applications for iOS, Android and Windows 10 devices using C#, Xamarin tools & frameworks, and

VISUAL STUDIO LIVE! ORLANDO 2017 SESSION DESCRIPTIONS BY TRACK (continued)

Microsoft Azure Mobile App Services. You'll learn how to authenticate users via Microsoft, Google, Facebook or Twitter credentials, store data remotely in cloud storage, blob storage, and more, all through live cross-platform demos. Whether you're a weekend warrior building consumer apps or a corporate mobile developer building apps for the enterprise, the cloud is the perfect companion for your mobile apps. Come learn how easy it is to harness its power.

You will learn:

- About the benefits of the cloud in various enterprise scenarios, and how the cloud can be an extension of any mobile ecosystem
- About Windows Azure Mobile Services and how to integrate them within a cross-platform app built in C#
- How to authenticate users and store remote data in the cloud in mobile iOS, Android and Windows Phone applications

VST14 Fast Focus: Tips & Tricks for Xamarin Development

Introductory / Intermediate

JAMES MONTEMAGNO

Tuesday, November 14, 4:40 – 5:00pm

No matter if you are new to mobile development with Xamarin or an expert crafting beautiful native apps there are always new and exciting advancements to help make it fast, easy, and fun. In just 20 minute we will cover day to day tips and tricks, amazing libraries to simplify development, best architecture practices, and tons of awesome things that I have learned in the 6 years since I started mobile development with Xamarin.

You will learn:

- Day to Day Tips & Tricks
- Amazing Libraries to Simplify Development
- Tons of Xamarin Awesome

VST18 Fast Focus: Cross-Platform Code Reuse

Introductory / Intermediate

ROCKFORD LHOTKA

Tuesday, November 14, 5:10 – 5:30pm

At some point you are going to need to get your existing code base running on .NET Core, UWP, Xamarin, or another flavor of .NET. In 20 minutes you'll learn the options available to you as you make that migration.

You will learn:

- About Shared Projects
- About Portable Class Libraries (PCLs)
- About .NET Standard and the new csproj file format

VSW16 PowerApps, Flow, and Common Data Service: Empowering Businesses with the Microsoft Business Application Platform

Introductory

CHARLES STERLING

Wednesday, November 15, 4:00 – 5:15pm

In today's fast paced world it is important for business to be able to adapt and change at a rapid pace. With the Microsoft Business Application Platform, citizen developers and professional developers alike gain new ways of working and adapting more productively. PowerApps makes it easy to build rich applications without writing code. Microsoft Flow allows citizen integrators to quickly automate workflows. The Common Data Service unites information from across Dynamics, Office, and beyond in a common model and easy extensibility point. All are easily extended with building blocks based on Azure. In this session, get hands on with the business application platform and see how developers are using it to dramatically increase their productivity and reach more users.

VSH02 PowerApps and Flow Part II: Package, Embed, and Extend Your Applications

Intermediate / Advanced

MANAS MAHESHWARI & PRATAP LADHANI

Thursday, November 16, 8:00 – 9:15am

In this session you will learn about the current methods and future roadmap for packaging assets across PowerApps, Flow, and the Common Data Service. Learn how to manage the lifecycle of projects from development to production, deliver solutions to customers in different tenants, and market your finished solutions to other customers via AppSource. You'll also learn how to extend your own applications with the capabilities of Microsoft PowerApps and Flow. You can now have easy-to-use customizable UI right inside of your application. Moreover, you can empower anyone who uses your application to automate any aspect of their workflow. See how other application developers—notably Microsoft products like SharePoint Online—are taking advantage of these embedded capabilities to quickly deliver world-class extensibility to their own users.

VSH06 Storyboarding 101

Introductory

BILLY HOLLIS

Thursday, November 16, 9:30 – 10:45am

Billy's first rule for designing better UX—don't sit down at your computer first. Use paper, pencil, and other real-world tools to explore a design space of ideas. Create many low fidelity, low investment designs, and then evaluate and select the best for further design, wireframing, and prototyping. This session will get you started.

VISUAL STUDIO LIVE! ORLANDO 2017 SESSION DESCRIPTIONS BY TRACK (continued)

You will learn:

- The reasons that starting with paper and pencil will result in more fluid and innovative designs
- How experimental design produces better results than the usual single-track design
- Basic techniques and options for sketching low fidelity, low investment, innovative designs and interactions

VSH10 Continuous Integration and Deployment for Mobile Using Azure Services

Intermediate

KEVIN FORD

Thursday, November 16, 1:00 – 2:45pm

Session focuses on creating continuous integration and deployment setups for mobile applications. Increasingly mobile is becoming more formalized and things such as unit tests are becoming more common. This session will look at setting up CI and CD for mobile applications, including running platform specific unit tests as part of the build process using Xamarin Test Cloud, using HockeyApp to deploy to QA groups, generating release notes and ensuring you have a git branching strategy that supports your release cycle.

You will learn:

- How to setup CI and CD servers using VSTS for mobile applications (Android, iOS and UWP)
- How to create a CD build to deploy to QA groups
- How to do Platform specific unit testing

VSH14 XAML Inception—Deep Composition for Better UI

Intermediate

BILLY HOLLIS

Thursday, November 16, 2:30 – 3:45pm

Compelling modern app UI in XAML is built up—composed—from fine-grained pieces. Layers build upon layers to create responsiveness to different sizes and form factors, and to create visualizations, interactions, and aesthetics that users need and love. Come go six layers deep in the composition for a typical business app in XAML, from the outer application shell to the deepest inner workings of controls. See how the grand unifying principles of layout and composition work throughout the layers, allowing you to learn one set of concepts that are applied throughout the stack. This session features numerous examples of compelling UI inspired by real world XAML applications.

You will learn:

- The fundamental concept of XAML composition
- How layers build up to get the ultimate end result in XAML
- See real world examples that may inspire you to improve your own applications

Software Practices

Every developer knows that there's more to software development than just code and tooling. The practices and techniques we use to understand and analyze the problem space, to manage interpersonal communication and conflict, and other patterns and practices are key to success.

Topics in this track include:

- Top 10 Entity Framework Core Features
- Fast Focus on Dependency Injection
- Good to great Scrum Master
- Dev vs. Ops – making friends with the enemy
- Design Patterns
- Why Dependency Injection matters

VST12 Top 10 Entity Framework Core Features Every Developer Should Know

Intermediate

PHILIP JAPIKSE

Tuesday, November 14, 3:15 – 4:30pm

In this session, Phil will take you through his favorite features of Entity Framework that will significantly improve your productivity and ease of maintaining your data access code.

You will learn:

- Advanced features of Entity Framework
- Using BCP with Entity Framework
- Field Mapping
- Connection Resiliency
- Plus many more!

VISUAL STUDIO LIVE! ORLANDO 2017 SESSION DESCRIPTIONS BY TRACK (continued)

VST20 Fast Focus: Dependency Injection in 20 Minutes

Introductory

MIGUEL CASTRO

Tuesday, November 14, 5:10 – 5:30pm

STOP newing up classes! Got your attention yet? Dependency Injection should really be mainstream by now with some sort of usage in every project, yet it isn't. I find that too many, the intimidation factor far exceeds the actual complexity factor; and I'm going to prove that to you in twenty minutes. Come jump in head first into using DI containers to assist you in making easy to resolve classes at any level in any size object hierarchy, all the while making your application much easier to test.

do to help keep everything on track? How do you have the difficult conversations when things are 'sub-optimal'? From that lazy guy on your team, to the Product Owner who doesn't like to estimate, to you losing your mind because you're always picking up the slack. How do you help your team to solve problems and really sing? You're a good Scrum Master. Come find out how to be great.

You will learn:

- If you're a technically-oriented Scrum Master, how do you help your team?
- The right balance between Big-Design-Up-Front, Emergent Architecture, and suicidally reckless non-planning
- How to efficiently align Teams with Products

day! IT pros in this session will learn about software architectures to watch out for, how to encourage developers to think about problems early, and how to avoid "last-minute" pushback.

From grudgingly working alongside each other to truly working together towards a common goal, this session seeks to encourage mutual respect, and ultimately a much better DevOps story for your organisation.

You will learn:

- About the common points of conflict between developers and IT Pros, and how to avoid them before they become a problem
- About architectural techniques to avoid infrastructure issues

VSH04 Top 10 Ways to Go from Good to Great Scrum Master

Advanced

BENJAMIN DAY

Thursday, November 16, 8:00 – 9:15am

The Scrum Master role in an organization can be difficult. You live between a rock and a hard place. You're influential but you probably don't have any real power. You're not a project manager but you're on the hook for delivering. You're asked to promise dates when the best you can give is a forecast. You're long on responsibility and short on power. (Awesome.) But you do it because it's a great job, right? There's nothing like helping your team come together and deliver actual working software.

VSH08 Devs vs. Ops: Making Friends with the Enemy

Introductory

DAMIAN BRADY

Thursday, November 16, 9:30 – 10:45am

Developers and IT Pros are like enemies forced onto the same team. The goal is the same—stable, working software in the hands of users—but devs care about very different parts of that equation than ops, and that can easily lead to enmity. So how do you bridge that gap?

This session focuses on what the other side cares about. For developers, it's all about the code. But your code doesn't run in isolation and there are legitimate reasons the operations team might push back. Developers in this session will learn about these concerns, including ways to avoid pushback through better architecture, or explain requirements early and in the right way.

On the flip side, there are things that the operations team needs to know about the code that runs on their infrastructure. It might seem like it sometimes, but developers aren't deliberately setting out to ruin your

VSH12 Design Patterns: Not Just for Architects

Introductory

JEREMY CLARK

Thursday, November 16, 1:00 – 2:15pm

Design patterns are not just for architects. In fact, you already use Design Patterns but probably don't know it. Observer, Facade, Iterator, Proxy—these are all patterns that allow us to better communicate our ideas with other developers. And once we understand the patterns, we can use solutions that people way smarter than us have already implemented. In this session, we'll take a look at several Gang of Four patterns that we regularly use without realizing it. Don't know who the Gang of Four is? Join us to find out.

You will learn:

- What Design Patterns are (and what they are not)
- Who the Gang of Four is and why they are important to developers
- How Design Patterns are useful to our everyday development

VISUAL STUDIO LIVE! ORLANDO 2017 SESSION DESCRIPTIONS BY TRACK (continued)

VSH16 DI Why? Getting a Grip on Dependency Injection

Introductory / Intermediate

JEREMY CLARK

Thursday, November 16, 2:30 – 3:45pm

Many of our modern frameworks have Dependency Injection (DI) built in. But how do we use that effectively? We need to look at what DI is and why we want to use it. That's why we're here. We'll look at the problems caused by tight coupling. Then we'll use some DI patterns such as constructor injection and property injection to break that tight coupling. We'll see how loosely-coupled applications are easier to extend and test. With a better understanding of the basic patterns, we'll remove the magic behind DI containers so that we can use the tools appropriately in our code.

You will learn:

- The "what" and "why" of Dependency Injection
- How loose coupling helps with extensibility and testability
- How to use the constructor injection and property injection patterns in our code

Visual Studio / .NET Framework

Microsoft continues to deliver updates to its dev tools at a rapid pace. Quarterly updates to Visual Studio and Team Foundation Server (TFS) on-premises, and Visual Studio Team Services (VSTS) in the cloud, continue to deliver value on a regular basis. Microsoft has been actively releasing updates to Team Foundation Server 2017 and Visual Studio 2017. When we get to Visual Studio Orlando, there will have been updates tools like Visual Studio Code, cross-platform .NET Core and more. The 2017 wave has tons of new features, not to mention Microsoft's continued investment into open source and cross-platform development. But what's next? Our speakers will be up to date on the current items right up to the last minute.

Topics in this track include:

- What's new in Visual Studio 2017
- Fast Focus on .NET Myths
- Cross-platform .NET and open source
- Productivity features in Visual Studio 2017
- Exploring C# 7
- .NET Standard

VST04 What's New in Visual Studio 2017

Introductory / Intermediate

ROBERT GREEN

Tuesday, November 14, 9:15 – 10:30am

Visual Studio 2017 is here. As always, the latest release of Visual Studio is packed with new goodies. This

session will provide a whirlwind tour of what's new in Visual Studio, with a heavy focus on new productivity and language features, but also covering performance updates, improvements to mobile, UWP and cloud development tooling and the new setup experience. Come and see why you want to upgrade to this latest release as soon as you can.

You will learn:

- About the new features in Visual Studio 2017 that increase your productivity
- About the new features in Visual Studio 2017 that help you cut down on your development time
- About the new features in Visual Studio 2017 that help you write better applications

VST16 Fast Focus: Busting .NET Myths

Intermediate

JASON BOCK

Tuesday, November 14, 4:40 – 5:00pm

Both C# and the .NET Framework have a ton of features and capabilities within, but sometimes erroneous information is spread about how they work. In this session, we'll set things straight on a number of topics so you know exactly what's going with your code.

You will learn:

- How parts of the .NET Framework and the C# language really work
- Gain insight into language features and their implementations
- Develop new skills to apply in .NET applications

VISUAL STUDIO LIVE! ORLANDO 2017 SESSION DESCRIPTIONS BY TRACK (continued)

VSW04 Building Apps with Microsoft Graph and Visual Studio

Introductory / Intermediate

ROBERT GREEN

Wednesday, November 15, 8:00 – 9:15am

With the Microsoft Graph you can connect to the data that drives productivity—mail, calendar, contacts, documents, directory, devices, and more. In this session, you will see how to use the Graph API to build apps (desktop, Web, mobile, UWP) that make your life easier and your apps more powerful.

You will learn:

- What the Microsoft Graph is and how you can use it your apps
- How Microsoft Graph is the gateway to Microsoft Cloud Services data and intelligence which can be used to power your apps
- How to build integrations with Office 365 using a combination of Microsoft Graph, direct service endpoints and LOB data to best serve customer needs

VSW08 Bots are the New Apps: Building Bots with ASP.NET Web API & Language Understanding

Intermediate / Advanced

NICK LANDRY

Wednesday, November 15, 9:30 – 10:45am

Bots (or conversation agents) are rapidly becoming an integral part of your users' digital experience – they are as vital a way for users to interact with a service or application as is a web site or a mobile experience. Developers writing bots all face the same problems: bots require basic I/O; they must have language and dialog skills; and they must connect to users – preferably in any conversation experience and language the user chooses. In this session, you will learn how to build and connect intelligent bots to interact with your users

naturally wherever they are, from text/sms to Skype, Slack, Facebook, e-mail and other popular services. We will explore the Microsoft Bot Framework, which provides just what you need to build and connect intelligent bots that interact naturally wherever your users are talking. Through live demos, we'll cover the Bot Connector in the cloud, the Bot Build SDK with ASP.NET WebAPI & C# (Node.js is also supported) and we'll also explore how to handle natural language input from the user with the Language Understanding Intelligent Service (LUIS) from Microsoft Cognitive Services. Every business needs bots to provide a more personal experience to its users and customers. Come learn how you can build your own bots in just a few hours.

You will learn:

- The role of bots and conversation agents in various business scenarios
- The fundamentals of the Bot Framework, including the Bot Connector, the Bot Builder SDK and Language Understanding Intelligent Service (LUIS) from Microsoft Cognitive Services
- How to get started with building simple intelligent bots that support natural language and can interact via the web, Skype, Slack, texting and other channels

VSH03 Exploring C# 7 New Features

Introductory

ADAM TULIPER

Thursday, November 16, 8:00 – 9:15am

C# brings long requested features to what is already a powerful language. This new version contains many rich features that have had strong interest from the developer community. In this session, we'll explore where C# 6 left off and C# 7 picks up to include features such as pattern matching to do advanced comparisons with values in objects, local functions for function-in-function support (which can be better than anonymous if you understand their use cases), and tuple value types. If you thought that was pretty good with just that, there's even

more. Attend this session to get a good understanding of the entire new feature set and when to use them.

You will learn:

- What the C# 7 feature set is
- New features such as tuples and what runtimes can utilize them
- Understand when it is optimal to use new features

VSH07 .NET Standard—From Noob to Ninja

Introductory

ADAM TULIPER

Thursday, November 16, 9:30 – 10:45am

Creating .NET code that can run across the various .NET Platforms is challenging on many levels. There are many runtimes and versions to complicate things even more. How do you move your code between the full .NET Framework and .NET Core (or vice-versa)? Enter in the .NET Standard. The .NET Standard exists for the reason of making portable code easier. I don't mean portable class libraries (PCL's) as those were a bit difficult at times to work with. With the .NET Standard we can now easily understand what platforms our code can run on. Can a NuGet package run in my project? Why or why not? Now you can understand how and why a package will run in your project. Join this session to learn all about the .NET Standard and leave understanding the portability of .NET code.

You will learn:

- Why the .NET Standard exists
- How the .NET Standard is built and how it is versioned
- When to develop against the .NET Standard and use .NET Standard assemblies

VISUAL STUDIO LIVE! ORLANDO 2017 SESSION DESCRIPTIONS BY TRACK (continued)

Web Client

The browser and JavaScript provide perhaps the highest and best abstraction over every operating system, allowing developers to build Web apps that run across browsers, platforms and operating systems. This is possible in large part due to various JavaScript frameworks such as Angular, Aurelia, and many others. This track will arm you with the knowledge to be part of this next-generation Web app development wave based on JavaScript and HTML5:

- Front-end web development for new comers
- Angular 2 crash course
- Fast Focus—Angular vs Aurelia
- Angular Component Development
- Build OO Apps in JavaScript with TypeScript
- Reactive Forms
- Angular Routing

VST01 Front-end Web Development in 2017 for the Front-endally Challenged Microsoft Developer

Introductory / Intermediate

CHRIS KLUG

Tuesday, November 14, 9:15 – 10:30am

Front-end development for the web has changed a lot in the last few years—a LOT! Not necessarily for the better if you ask some, but at least to something different. With the relatively slow cadence in releases of Visual Studio, a lot of VS users have missed out on this shift. A lot of them still use NuGet for client-side resources and the ASP.NET Web Optimization Framework for bundling and minification. And even though this definitely works, and might even work very well, these are things that are changing.

In this talk, you will get a walkthrough of the tools and technologies all front-end developing code monkeys should be aware of. Not necessarily use, but at least be aware of. Having that said, you will not get a list of them in this abstract, as they are likely to have changed by the time this talk is actually presented.

You will learn about the different tools that a front-end developer needs to know today, such as Gulp, Webpack, npm, node etc.

VST09 Angular(2)—The 75-Minute Crash Course

Introductory / Intermediate

CHRIS KLUG

Tuesday, November 14, 3:15 – 4:30pm

Angular has been one of the top honchos when it comes to JavaScript SPA frameworks for quite some time. A long time! Way too long for being a JavaScript framework! And a JavaScript framework it is, and as such, it has been around long enough to be considered a dinosaur. Looking at the GitHub repo is like an archeologic JavaScript excavation.

The answer to being an ancient technology is obviously to release a new version. A new version that somewhat resembles the one that made it a household name. And while being at it, move to a new language, a new way to load it, a new way to structure it and a new set of tools.

Some might even argue that this new framework should have named some other random word. That it is not truly a successor to Angular. But it doesn't really matter what people think. It will be big. It will be used. It will be a big part of the future of web. At least for the next few months. Naming, and opinions, won't change that. So learning it is a `_very_` good idea.

In this session, you will go from barely being able to spell Angular, to understanding the development environment, the tools, and the overall architecture. You will even have seen Angular code being composed in front of you!

As you walk out of the session, you will be ready to go into battle. You will be armed with Angular knowledge. And you will have an urge to geek out in front of your computer for hours with Angular!

You will learn:

- The architecture used by Angular to create applications
- How to write code for Angular to get started
- How Angular is built using webpack or Angular-CLI

VST13 Fast Focus: Aurelia vs. Just Angular

Introductory / Intermediate

CHRIS KLUG

Tuesday, November 14, 4:40 – 5:00pm

There are a gazillion JavaScript frameworks out there. And probably another one being released while you read this abstract. However, for a lot of Microsoft devs, the two main frameworks to focus on are Aurelia and Angular. Why? Well, the way they are written fit well into the way we Microsoft developers are used to writing our applications. But which one is the best? Which one is the right choice? Which one will make my project a success, and which one will make it a pile of failure?

Obviously, those are some hard questions to answer. It all depends, as usual. But knowing a bit about how they both work, and the pros and cons of both, does make it a lot easier, and that is exactly what this talk is about. It will give you a run through of both frameworks, focusing on comparing them, giving you enough information for you to make an informed choice of which one will fit you the best.

You will learn:

- A basic knowledge of how both frameworks work
- How to compare when it comes to developing apps on them
- Where they differ, and how that affects the choice between them

VISUAL STUDIO LIVE! ORLANDO 2017 SESSION DESCRIPTIONS BY TRACK (continued)

VSW05 Building AngularJS Component-Based Applications

Intermediate

MIGUEL CASTRO

Wednesday, November 15, 9:30 – 10:45am

Angular (2) uses Typescript as a syntax new installation and setup procedures. But the single most significant change is that it forces us down the path of component-based design. This is not a bad thing; in fact, it's an awesome way to design and write web application. But what if you are not ready to make the leap to the next version of Angular, whether for personal reasons or those of your place of employment? Well, AngularJS (1.6) back ported the idea of components directly from Angular's design. Now you can design and develop your web applications using this great modular and encapsulated paradigm. And you can do it using the familiar Angular 1 environment that in all honesty, is not going anywhere any time soon. In this session, I'll give you a run-down on how to leverage all your existing AngularJS knowledge but learning a great hierarchical way of designing your applications. You'll also see the Angular UI router in action, giving you the ability to target any part of the app structure using a URL. This component-based of way of writing applications will put you in the right mindset so when you jump to Angular, the move will be much easier. The session will be for MS and non-MS centric devs as it will start non-Microsoft centric, but end with a port of the design and code to work within the ASP MVC platform.

You will learn:

- About component-based design
- How to do things the new Angular way using AngularJS
- To use the Angular-UI Multi-Level Router

VSW13 Build Object-Oriented Enterprise Apps in JavaScript with TypeScript

Introductory / Intermediate

JOHN PAPA

Wednesday, November 15, 4:00 – 5:15pm

TypeScript is JavaScript evolved, so if you're writing in JavaScript, TypeScript is worth checking out. Come to this session and learn all about the TypeScript language from its object oriented features to its ES6-style capabilities. You also learn how to use TypeScript's language features that makes JavaScript application-scale and more manageable language for building websites and apps as well as how to leverage TypeScript in Visual Studio.

You will learn:

- Typescript language
- About OOP in JavaScript
- About Enterprise app architecture with TypeScript

VSH09 I See You: Watching the User with Reactive Forms

Introductory / Intermediate

DEBORAH KURATA

Thursday, November 16, 1:00 – 2:15pm

What if we could watch every change that the user makes? Every character, every keystroke. Yea, that may sound a bit creepy, but in Reactive forms, it is a good thing. Really! By watching the user's changes, we can react to those changes, dynamically controlling the form.

This session begins with a brief introduction to template-driven forms. Then covers the Reactive approach to building Angular forms, performing validation, watching for user changes.

You will learn:

- HTML-based template-driven forms
- Code-based reactive forms
- Form validation

VSH13 Angular Routing

Introductory / Intermediate

DEBORAH KURATA

Thursday, November 16, 2:30 – 3:45pm

Ah, routing! We often just use you to move the user between multiple views of an application. But you can do so much more!

With routing, we have the tools we need to set up navigation through our application. We can define multiple routes, pass data to routes, preload data for our views, group our routes, guard our routes, add styling and animation, and even improve performance by asynchronously loading our routes.

This session explores the many facets of routing in an Angular application, and covers a lot of awesome yet practical techniques.

You will learn:

- Typescript language
- Debugging TypeScript
- Enterprise app architecture with TypeScript

VSF01 Workshop: Angular Fundamentals

Introductory / Intermediate

JOHN PAPA

Friday, November 17, 8:00am – 5:00pm

Learn how to develop, build, and deploy Angular (v5) applications using the most important Angular features. We'll use the Angular CLI to crank up a new application and then to build and serve it. We'll discuss the design of component trees, how to define routes, lazy loading, production build optimization, services and dependency injection, and much more.

This full day workshop will immerse you in a balance of demos, presentation and hands on experience with Angular that will arm you to hit the ground running.

VISUAL STUDIO LIVE! ORLANDO 2017 SESSION DESCRIPTIONS BY TRACK (continued)

Attendee Recommendation:

While not required for this workshop, you can bring your laptops with node and the latest version of the Angular CLI installed for an optimal experience.

You will learn:

- How to efficiently create Angular applications and features using the Angular CLI
- How to tune and debug the Angular app using tooling
- A fundamental understanding of how to design an Angular app

Web Server

ASP.NET has been Microsoft's core Web development platform since 2002. Starting with Web Forms at the very beginning, then morphing into MVC and ASP.NET Web Pages, it's been quite a ride. And just when you thought you knew the ropes, along comes ASP.NET Core 1.0, which represents a change comparable in magnitude to the move from classic Active Server Pages to ASP.NET in the first place.

The Visual Studio Live! Web Server track covers all this and more. Come take in the content, to get current and stay that way, with topics including:

- ASP.NET Core MVC
- Fast Focus on Web Security
- User authentication in ASP.NET Core
- Securing Web APIs in ASP.NET Core
- HTTP/2 – what you need to know
- ASP.NET Tag Helpers

VSM03 Workshop: Service Oriented Technologies: Designing, Developing, & Implementing WCF and the Web API

Intermediate

MIGUEL CASTRO

Monday, November 13, 8:30am – 5:30pm

Service Oriented Architectures are the best way to ensure that today's applications are extensible, maintainable, and scalable in a volatile world filled with ever-changing demands. Decomposing your systems into smaller, loosely coupled, and more autonomous components ensures that your application can continue to grow or change without having to continuously undergo rewrites or redesigns. But with great power comes great responsibility (I know, I know, Spiderman), and the need for great technology and tooling. WCF is the heart of Microsoft's stack for building connected systems and loosely coupled components. ASP.NET Web API is the more newer addition to this stack in a world where REST and it's interoperability power becomes more necessary and in more demand. Come learn both of these technologies and how to properly use them, apart and together. I'll teach you what a Service Oriented Architecture is and then you'll learn how to use WCF & Web API from the ground up, side-by-side, comparing their strengths and weaknesses along the way.

You will learn:

- About writing services using WCF
- About developing REST APIs with WebAPI
- Comparison of Microsoft's two service technologies side by side

VST05 ASP.NET Core MVC—What You Need to Know

Intermediate

PHILIP JAPIKSE

Tuesday, November 14, 1:30 – 2:45pm

Core MVC has changed in "revolutionary ways." This session will show you what you need to know to move to ASP.NET Core MVC for Web UI and RESTful services.

You will learn:

- The new MVC features such as tag helpers and view components
- About using DI with MVC
- How to create RESTful services with Core MVC

VST17 Fast Focus: Web Security 101

BROCK ALLEN

Tuesday, November 14, 5:10 – 5:30pm

VSW01 User Authentication for ASP.NET Core MVC Applications

Introductory / Intermediate

BROCK ALLEN

Wednesday, November 15, 8:00 – 9:15am

ASP.NET Core is now here and this means we now have a fundamentally new architecture for authenticating users in our applications. This session explores what that means for your application design. We will first look at the simple authentication scenarios such as using a traditional password for authentication and then using external social media identity providers for single sign-on. We'll then discuss why these simple approaches are not typically sufficient and why introducing your own single sign-on provider is important to your application architecture.

You will learn:

- About authenticating users with middleware
- About supporting external authentication
- About designing for single sign-on

VSW09 Securing Web APIs in ASP.NET Core

Introductory / Intermediate

BROCK ALLEN

Wednesday, November 15, 2:00 – 3:15pm

Traditional security for web applications involves cookies, but web APIs have a fundamentally different security model. In fact, there are security vulnerabilities when using cookies for web APIs. So what's the solution? Token-based authentication with OAuth2. Come to this session to learn about the issues, how to get and use tokens, and how ASP.NET Core helps protect your web APIs.

You will learn:

- How to protect web APIs with token-based security
- The benefits of OAuth2
- About using middleware to protect web APIs

VSH01 HTTP/2: What You Need to Know

Intermediate

ROBERT BOEDIGHEIMER

Thursday, November 16, 8:00 – 9:15am

The HTTP protocol is now over 15 years old and it has served us well, but a new version will address some of the fundamental problems with how it was implemented "on the wire." The changes are based on experience with Google's SPDY protocol, but standardized for everyone to use. Major features of the current version such as methods and status codes will be unaffected. Existing sites should just work with the latest version, but they can drop many of the old tricks they used to squeeze out performance like CSS Sprites and file bundling. This session will review the basics of what is being changed and how to best utilize the new protocol.

You will learn:

- Performance techniques that should not be used anymore
- Strategies for adopting HTTP/2 while still supporting HTTP 1.1
- Single HTTP connection to reduce overhead and improve efficiency

VSH05 ASP.NET Tag Helpers

Intermediate

ROBERT BOEDIGHEIMER

Thursday, November 16, 9:30 – 10:45am

ASP.NET has introduced Tag Helpers which are a much more HTML-centric approach to using server-side code to help construct HTML elements in Razor views. ASP.NET will ship with built in tag helpers such as the "environment" that can include specific HTML (such as links to CSS or script tags) based on the level of server like development, stage, or production. Tag helpers provide specific attributes for elements like the "asp-fallback" attributes for automatic fallback to local resources when they are not available from a CDN. The "asp-append-version" used on URLs automatically appends a hash of the file contents to allow aggressive use of expirations for caching while forcing server requests when the files are modified. Besides the many tag helpers provided directly by ASP.NET, it is also possible to use third party tag helpers or create your own! This session will review a custom tag helper used to augment the lowly "img" tag to provide simple support for responsive images that delivers the most appropriate image for a particular device and use.

You will learn:

- How to use built in tag helpers for downloading specific JavaScript and CSS
- Compare Tag Helpers with existing HTML Helpers
- How to create custom tag helpers

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Nick Landry
Senior Technical Evangelist, Microsoft



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Vishwas Lele
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9:00 AM	6:00 PM	SQS01 Full Day Hands-On Lab: Developer Dive into SQL Server 2016 - <i>Leonard Lobel</i>				SQS02 Full Day Hands-On Lab: Experience New SQL Server Availability Options - <i>Allan Hirt</i>			
2:00 PM	7:00 PM	Pre-Conference Registration							
SQL Server Live! Day 1: Tuesday, November 14, 2017									
8:30 AM	5:30 PM	SQM01 Workshop: The Modern Data Warehouse - <i>Bradley Ball & Joshua Luedeman</i>				SQM02 Workshop: The Secret Toolbox for Performance Tuning and Optimizing Queries - <i>Pinal Dave</i>			
6:30 PM	8:00 PM	Dine-A-Round Dinner @ Universal CityWalk							
SQL Server Live! Day 2: Wednesday, November 15, 2017									
8:00 AM	9:00 AM	SQL SERVER LIVE! KEYNOTE: Microsoft BI - What's New for BI Pros, DBAs and Developers <i>- Charles Sterling, Senior Program Manager, Microsoft</i>							
9:15 AM	10:30 AM	SQT01 Business Intelligence/Analytics in SQL Server 2016 - <i>Thomas LeBlanc</i>		SQT02 Is SQL Server Making You Wait? Discover the Top 10 Wait Types Every DBA Should Know - <i>Janis Griffin</i>		SQT03 Introduction to Azure Cosmos DB - <i>Leonard Lobel</i>			
10:30 AM	11:00 AM	Networking Break • Visit the EXPO							
11:00 AM	12:00 PM	LIVE! 360 KEYNOTE: Lessons Learned Doing DevOps at Microsoft at Scale <i>- Buck Hodges, Director of Engineering, Visual Studio Team Services, Microsoft</i>							
12:00 PM	12:45 PM	Lunch • Visit the EXPO							
12:45 PM	1:30 PM	Dessert Break • Visit the EXPO							
1:30 PM	2:45 PM	SQT04 What's New for Developers in SQL Server 2016 - <i>Leonard Lobel</i>		SQT05 Loading a Data Warehouse Using SSIS - <i>Tim Mitchell</i>		SQT06 Turbo Boost—SQL Tricks Everybody MUST Know - <i>Pinal Dave</i>			
2:45 PM	3:15 PM	Networking Break • Visit the EXPO							
3:15 PM	4:30 PM	SQT07 SQL Server Analysis Service: Cube Versus Tabular - <i>Thomas LeBlanc</i>		SQT08 Advanced SSIS Package Authoring with Biml - <i>Tim Mitchell</i>		SQT09 To Be Announced			
4:40 PM	5:00 PM	SQT10 Fast Focus: Using Polybase to Analyze Data from Other Data Sources, Including Hadoop Data - <i>Ginger Grant</i>		SQT11 Fast Focus: A Brave New World—SQL Server on Linux - <i>Joseph D'Antoni</i>		SQT12 Fast Focus: Azure SQL Data Warehouse—Fast and Furious - <i>Karen Lopez</i>			
5:10 PM	5:30 PM	SQT13 Fast Focus: Introduction to Data Science with Azure ML - <i>Bradley Ball</i>		SQT14 Fast Focus: Python Essentials for C# Devs - <i>Jen Stirrup</i>		SQT15 Fast Focus: Azure SQL Database—A Quick Introduction - <i>Tim Mitchell</i>			
5:30 PM	7:30 PM	Exhibitor Reception							

Sessions and speakers subject to change.

Continued next page

AGENDA AT-A-GLANCE (continued)

		BI, Big Data, Data Analytics, and Data Visualization	SQL Server Administration & Maintenance	SQL Server in the Cloud	SQL Server for Developers	SQL Server Performance Tuning and Optimization
SQL Server Live! Day 2: Wednesday, November 15, 2017						
8:00 AM	9:15 AM	SQW01 Power BI: What Have You Done for Me Lately? - Andrew Brust		SQW02 Getting Started with Query Tuning - Joseph D'Antoni		SQW03 Azure SQL Database and the DBA - Grant Fritchey
9:30 AM	10:45 AM	SQW04 Graph DB Support in SQL Server 2017 - Karen Lopez		SQW05 HA and DR in the Cloud— Building Robust SQL Server Solutions on Azure - Joseph D'Antoni		SQW06 Cardinality Estimates in Microsoft SQL Server - Thomas LaRock
10:45 AM	11:30 AM	Networking Break • Visit the EXPO				
11:30 AM	12:30 PM	LIVE! 360 PANEL: Industry Trends, Technology, and Your Career Matt Lockhart, Michael Aaron, Martin Leifker, Francois Charette				
12:30 PM	1:30 PM	Birds-of-a-Feather Lunch				
1:30 PM	2:00 PM	Dessert Break • Visit the EXPO				
2:00 PM	3:15 PM	SQW07 Big Data Technologies: What, Where and How to Run Them on Azure - Andrew Brust		SQW08 Introduction to R - Bradley Ball		SQW09 To Be Announced
3:15 PM	4:00 PM	Networking Break • Visit the EXPO • Expo Raffle				
4:00 PM	5:15 PM	SQW10 Data Lake Analytics with U-SQL - Ginger Grant		SQW11 Big Data Smorgasbord with R in Hadoop and SQL Server - Jen Stirrup		SQW12 Exploring Execution Plans - Grant Fritchey
8:00 PM	10:00 PM	Live! 360 Dessert Luau				

Sessions and speakers subject to change.

Continued next page

“LOVED THE LUAU! IT WAS AN AWESOME SHOW AND GREAT TIME. GOOD WAY TO KICK BACK AND RELAX FROM A WEEK OF LEARNING.”

- Josh Obudzinski, Intuition LLC

AGENDA AT-A-GLANCE (continued)

BI, Big Data, Data Analytics, and Data Visualization		SQL Server Administration & Maintenance		SQL Server in the Cloud		SQL Server for Developers		SQL Server Performance Tuning and Optimization		
SQL Server Live! Day 3: Thursday, November 16, 2017										
8:00 AM	9:15 AM	SQH01 Top Five SQL Server Query Tuning Tips - Janis Griffin			SQH02 Windows PowerShell Jumpstart for the SQL Server DBA - Edwin M. Sarmiento			SQH03 Introduction to Azure Data Factory - Tim Mitchell		
9:30 AM	10:45 AM	SQH04 Upgrading to SQL Server 2016 - Thomas LaRock			SQH05 A Database Designer's Favorite SQL Server Security & Privacy Features - Karen Lopez			SQH06 Manage Your Azure Databases Using PowerShell - Grant Fritchey		
11:00 AM	12:00 PM	SQL Server Live! Panel: In with The New, And The Old Too: The Database New World Order - Andrew Brust (Moderator), Ginger Grant, Thomas LaRock, Leonard Lobel, Karen Lopez, and Jen Stirrup								
12:00 PM	1:00 PM	Lunch on the Lanai								
1:00 PM	2:15 PM	SQH07 T-SQL User-Defined Functions, or: How to Kill Performance in One Easy Step - Hugo Kornelis			SQH08 SQL Server 2016 Database Administration for the Non-DBA - Denny Cherry			SQH09 Lighting Up Big Data Analytics with Apache Spark in Azure - Jen Stirrup		
2:30 PM	3:45 PM	SQH10 Adaptive Query Processing - Hugo Kornelis			SQH11 Using SQL Server AlwaysOn Availability Groups - Denny Cherry			SQH12 Operational Analytics in SQL Server 2016 - Edwin M. Sarmiento		
4:00 PM	5:00 PM	Next? SQL Server Live! Networking Event - Thomas LaRock (Moderator), Bradley Ball, Andrew Brust, Denny Cherry, and Karen Lopez								
SQL Server Live! Post-Conference Workshops: Friday, November 17, 2017										
8:00 AM	5:00 PM	SQF01 Workshop: Big Data, BI, and Analytics on The Microsoft Stack - Andrew Brust				SQF02 Workshop: Database Administration for the Non Database Administrator - Denny Cherry				

Sessions and speakers subject to change.

"TOPICS ARE GOOD. THE EVENTS ARE FUN. THE LOCATION IS GREAT."

- Joshua Cichoski, Quicken Loans, Inc.

SQL SERVER LIVE! SESSION DESCRIPTIONS BY TRACK

NEW!

Full Day Hands-On Labs



New to Live! 360 Orlando, these instructor-led, pre-conference Hands-On Labs offer attendees intensive in-depth training before the conference officially begins. Choose from eight extended 8-hour labs and take advantage of in-person instruction as well as collaboration with peers.

Attendance for each Hands-On Lab is limited, so be sure to sign up early for these special bring your own laptop pre-conference HOLs.

(Additional fee required. See [pricing page](#) for details.)

SQS02 Full Day Hands-On Lab: Experience New SQL Server Availability Options

Intermediate

ALLAN HIRT

Sunday, November 12, 9:00am – 6:00pm

SQL Server 2016 and 2017 have major enhancements to existing availability features as well as brand new ones that increase uptime for SQL Server instances and databases. This full day workshop will cover not only what is new in SQL Server, such as all of the improvements to availability groups like automatic seeding and distributed AGs, but also SQL Server on Linux as well as important Windows Server 2016 features like site awareness, storage replica, and more that anyone implementing SQL Server should be aware of.

In addition to learning about the new features for availability, everyone will get hands on experience with some of these new features with labs custom designed for the day.

If you want to get up to speed quickly and get hands-on experience with what's new for availability in SQL Server, Windows Server, and Linux, sign up today.

You will learn:

- What's new for availability for SQL Server 2016 and 2017
- How Linux deployments differ from Windows Server deployments
- What's new for SQL Server availability in Windows Server 2016

Attendee Requirements:

You must provide your own laptop computer for this hands-on lab.

All attendees should have at least a basic understanding of Always On availability groups (AGs), Always On failover cluster instances (FCIs), and Windows Server failover clusters (WSFCs). Requirements for each attendee's laptop will be sent after registration.

SQS01 Full Day Hands-On Lab: Developer Dive into SQL Server 2016

Intermediate

LEONARD LOBEL

Sunday, November 12, 9:00am – 6:00pm

Roll up your sleeves, and get ready to spend a full day learning great new features for developers in SQL Server 2016. You'll start with a vanilla database, and then adorn it – step by step – with some of the most compelling new SQL Server 2016 features, including dynamic database masking (DDM), row level security (RLS), and Always Encrypted. Then you'll "stretch" the database, which transparently relocates select tables to the cloud in Azure SQL Database), and utilize temporal tables, which enables "time-travel" queries. You'll also exploit the new JSON capabilities to consume and produce JSON in the database, integrate FILESTREAM and FileTable for native

BLOB storage, and add location awareness with the geospatial data types.

Attendance is limited.

You will learn:

- New SQL Server 2016 security features such as dynamic data masking, row level security, and always encrypted
- Other new SQL Server 2016 features, such as stretch database, temporal tables, and JSON
- Beyond relational features, such as FILESTREAM, FileTable, and geospatial data types

Attendee Requirements:

You must provide your own laptop computer for this hands-on lab.

You will need a computer that supports Wi-Fi and that can connect to a Microsoft Azure hosted virtual machine via Remote Desktop Protocol (RDP). If you're running Windows 8.1 or Windows 10, you're ready to go! For the stretch database demos only, you'll also need a Microsoft Azure subscription. No worries if you don't have one though, you'll be able to follow along with the rest of the workshop without it.

If you're running Windows 7, you'll want to make sure you're have installed the latest Remote Desktop client. You can get it at <https://support.microsoft.com/en-us/kb/2923545>.

You can also use a Mac running OS/X 10.7 (Lion) or later with an Intel 64-bit processor. You'll want to install the latest Microsoft Remote Desktop client from the Mac App Store. You can find it via <https://itunes.apple.com/us/app/microsoft-remote-desktop/id715768417?mt=12>.

SQL SERVER LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

BI, Big Data, Data Analytics, and Data Visualization

Organizations are increasingly turning to SQL Server and related technologies to make better business decisions. SQL Server Live! presents a full track to help you master the complex world of BI, Big Data and Analytics. This track will cover Analysis Services, Power BI, Azure Data Lake Analytics/U-SQL and HDInsight (including both Apache Hadoop and Spark). It all comes back to the relational engine as well, including coverage of SQL Server-Hadoop Integration with PolyBase; operational analytics with columnstore indexes; and new graph database capabilities in SQL Server 2017.

SQM01 Workshop: The Modern Data Warehouse

Intermediate

BRADLEY BALL & JOSHUA LUEDEMAN

Monday, November 13, 8:30am – 5:30pm

Most of the world's data exists in a combination of on premise, cloud and non-relational forms. What you normally do is use a tool like SSIS to export from Teradata, Oracle, SQL Server, Flat Files, Hadoop, or some other source and then load it into a SQL Server database. You may use Cubes, you apply indexes, then there are visualizations that are constructed. That was your data warehouse. Now you are being asked to provide more data from different sources, and people want to run something called R against the data. Enter SQL Server 2016. You have the ability to connect to multiple data sources using Polybase, to have SQL Server treat those tables not just as linked servers but first class citizens with Polybase. You have In-database R, the ability to install R packages, and in vNext you have on premise

Power BI. In this session we will review what the new Modern Data Warehouse looks like, how we ingest data, review data, connect R Studio to SQL Server, move R scripts to In-Database R, and visualize the data with Power BI.

You will learn:

- How to create an external data source and use Polybase to query Hadoop data
- How to install R packages to SQL Server, Connect R Studio to SQL Server, and create an In-Database R stored procedure
- How to visualize the database output with Power BI in Azure and on premise

SQT01 Business Intelligence/Analytics in SQL Server 2016

Intermediate

THOMAS LEBLANC

Tuesday, November 14, 9:15 – 10:30am

There have been long awaited updates in the Business Intelligence stack and new features to bring analytics into SQL Server 2016. The SQL Server community can rest now that Microsoft showed the world it is not leaving On-Premise features as is and only working on Cloud. Their motto is Cloud First, but this just gives the "I want my own server" group with a Cloud tested product before the release.

SQL Server Reporting Services has the most improvements with a new Website that is modern and tablet/phone friendly. The updates to Analysis Services concentrate on Tabular Models but performance has been improved with Cubes. The start of package parts in Integration Services seems to be the most important and we will look at why.

You will learn:

- SQL Server 2016 additions in SSRS, SSAS and SSIS.
- New landing page for SSRS
- Language and relationship updates in SSAS Tabular Package deployments and parts in SSIS

SQT07 SQL Server Analysis Service: Cube Versus Tabular

Intermediate

THOMAS LEBLANC

Tuesday, November 14, 3:15 – 4:30pm

Analysis Service Path Forward: Do I keep using Multidimensional Cubes or switch to Tabular Model? What do I use if I am just getting started? Can I use both model types on the same instance? What is that third option Power Pivot in SharePoint?

The answer to the riddle of what type of Analysis Services (SSAS) database to use is 'It Depends'. What? There is some weight on the decision to which version to use if you have already started using Cubes in production. But, there is no reason why you should not investigate the differences.

We will look at the last couple releases to validate what the future holds for Analysis Services. All versions still rely on a Dimensional Model for best results, even if you want to just use Power BI or Power Pivot. An enterprise system definitely needs a well tested system. You would also want to go with the future.

We will make this analysis together by going through the design and deployment of all types. Starting with a dimensional model for the connection and selection of dimension and fact tables. The dimension hierarchies and attributes are review side-by-side. Measures are created to dive into MDX versus DAX. Finally, we will look at administrative functions.

You will learn:

- How to select Tabular or Cube for development
- Understanding the path forward in SQL Server Analysis Services
- About Dimensional Modeling in the Analysis Service world

SQL SERVER LIVE! SESSION DESCRIPTIONS BY TRACK *(continued)*

SQT10 Fast Focus: Using Polybase to Analyze Data from Other Data Sources, Including Hadoop Data

Introductory

GINGER GRANT

Tuesday, November 14, 3:15 – 4:30pm

SQL Server 2016's Polybase feature provides the ability to analyze data stored outside of SQL Server using SQL Server relational database queries. This powerful new tool provides the ability to combine data stored in a number of different locations with an existing relational database, without needing to import data into SQL Server. Data stored in Hadoop or large flat files can be analyzed together with SQL Server to provide the ability to provide in depth analyst on large datasets without needing to apply other languages and tools, from within SSMS.

The session will demonstrate the Polybase configurations, query formats for accessing Polybase data, and examples of query performance for different types of queries. Attendees will find out limitations of Polybase queries, performance information, and what kind of data can be analyzed with Polybase.

You will learn:

- How to analyze data within SQL Server using Polybase
- When to use Polybase by understanding its strengths and the weaknesses
- The configuration steps needed for implementing Polybase into a SQL Environment

SQT13 Fast Focus: Introduction to Data Science with Azure ML

Introductory / Intermediate

BRADLEY BALL

Tuesday, November 14, 5:10 – 5:30pm

Data Science. You've heard the buzz word, but what is it? It is a quantifiable and repeatable process. We will discuss the scientific method and the steps within the process of data science. We will discuss some patterns, real world observations, and ways that data science can be applied. We will then create a basic example of a data science model, train the model, and create a web service that can use the model all using ML Studio and Azure ML.

You will learn:

- A greater understanding of what Data Science is and the types of questions it can solve
- The individual steps in the process of Data Science
- How to use Azure ML to train a model and deploy it as a web service

SQW01 Power BI: What Have You Done for Me Lately?

Intermediate

ANDREW BRUST

Wednesday, November 15, 8:00 – 9:15am

Power BI has been a runaway success for Microsoft in terms of adoption and mindshare; at this point almost everyone has an awareness of it. Awareness is good, and you may already know Power BI creates great looking visualizations, or that it runs on Windows, iOS, Android and the Web. But do you know how to use it? And if you do, are you up-to-date with all the new features of this product that's updated on a monthly basis?

Come to this session for a combination of a quick intro to Power BI (including its technology underpinnings, the costs around it and, of course, how to use it) and a

check-in on several new features, including the latest visuals, integration with the R programming language and easy ways to do advanced data prep and measure calculations. We'll even cover features released after this abstract is published!

SQW04 Graph DB Support in SQL Server 2017

Introductory / Intermediate

KAREN LOPEZ

Wednesday, November 15, 9:30 – 10:45am

Graph databases solve a lot of complex relationship problems that relational databases struggle to support. Relational databases are optimized for capturing data and answering

transactional data questions. Graph databases are highly optimized for answering questions about data relationships. Do you, as a data professional, understand which data stories need which type of technology?

- Master Data
- Networks & Infrastructure
- Forensics
- Customer Behaviors
- Trees and Hierarchies

Join us for this discussion of graph processing and databases, with demonstrations of the new features that allow you to leverage both graph and relational technologies within the same database.

You will learn:

- Which data stories are the right fit for your relational stores and which are the right fit for graph databases
- Options for bringing this data together for more intelligent data solutions
- The basics of how graph data is persisted and queried in the next release of SQL Server

SQL SERVER LIVE! SESSION DESCRIPTIONS BY TRACK *(continued)*

SQW07 Big Data Technologies: What, Where and How to Run Them on Azure

Intermediate

ANDREW BRUST

Wednesday, November 15, 2:00 – 3:15pm

Big Data and technologies around it, like Apache Hadoop and Apache Spark, aren't mere curiosities anymore. In fact, these technologies are becoming standard in corporate IT environments. But that doesn't mean you know them yet – you're busy with operational database concerns, after all. Plus, even if you have the skills, the technology is changing at such a rapid clip, that a check-in is warranted.

In this talk, we'll start from the beginning but then rapidly accelerate to modern day-and-date. You'll learn what Big Data really is, how to work with the core technologies around it, and then get up-to-speed on all the new ecosystem companion technologies, including discussions of Kafka, Flink and TensorFlow, and direct demo exposure to Tez, Spark SQL and even a little Python.

What you learn will help you work with Big Data technology in any environment, and you'll take away specific knowledge of how to get everything running on Azure HDInsight. We'll also cover tie-ins to SQL Server, Visual Studio, Powershell and even the new Bash on Windows feature of Windows 10.

SQW10 Data Lake Analytics with U-SQL

Introductory

GINGER GRANT

Wednesday, November 15, 4:00 – 5:15pm

Azure Data Lake Analytics are used to provide meaning to data stored in an Azure Data Lake. This session will show how to analyze the data using a U-SQL, a powerful new query processing language. Attendees will learn how Data Lake Analytics can analyze large data sets through its features which provide the capability to

scale code to provide meaning to large volumes of data. While reviewing how to use Data Lake Analytics, attendees will learn techniques to create a development environment to write U-SQL code in Visual Studio locally, a best practice providing an economic and efficient development methodology. Best practice techniques for creating a Data Lake will be reviewed to provide the greatest analytic capability when that analysis is required.

You will learn:

- The fundamentals of U-SQL, a powerful new language which was created to combine the strengths of C# and SQL to analyze data
- Best Practice Techniques for creating a Data Lake optimally configured for providing later analysis
- How Data Lake Analytics can scale to process very large data sets very quickly

SQH09 Lighting Up Big Data Analytics with Apache Spark in Azure

Advanced

JEN STIRRUP

Thursday, November 16, 1:00 – 2:15pm

Today, CIOs and other business decision-makers are increasingly recognizing the value of open source software and Azure cloud computing for the enterprise, as a way of driving down costs whilst delivering enterprise capabilities. For the Business Intelligence professional, how can you introduce Open Source for analytics into the Enterprise in a robust way, whilst also creating an architecture that accommodates cloud, on-premise and hybrid architectures?

We will examine strategies for using open source technologies to improve existing common Business Intelligence issues, using Apache Spark as our backdrop to delivering open source Big Data analytics.

- Incorporating Apache Spark into your existing projects
- Looking at your choices to parallelize Apache Spark your computations across nodes of a Hadoop cluster

- How ScaleR works with Spark
- Using Sparkly and SparkR within a ScaleR workflow
- Join this session to learn more about open source with Apache Spark in Azure for Business Intelligence. Open Source does not mean on premise. Demos will provide practical takeaways in your Business Intelligence Enterprise architecture with open source in mind.

SQH12 Operational Analytics in SQL Server 2016

Intermediate / Advanced

EDWIN SARMIENTO

Thursday, November 16, 2:30 – 3:45pm

SQL Server 2016 introduces the ability to run both analytics and OLTP workloads on the same database tables at the same time with minimal impact on business critical OLTP workloads. This session covers how this is made possible with the new storage structures in the database engine, various configurations and best practices for achieving significant performance gains using SQL Server 2016 Operational Analytics.

You will learn:

- The new storage structures in SQL Server 2016 that made Operational Analytics possible
- Best practices in implementing SQL Server 2016 Operational Analytics
- Index maintenance strategies when implementing SQL Server 2016 Operational Analytics

SQF01 Workshop: Big Data, BI, and Analytics on The Microsoft Stack

Intermediate

ANDREW BRUST

Friday, November 17, 8:00am – 5:00pm

In this workshop, we'll look at the full Microsoft BI stack, including SQL Server Analysis Services, Power BI and Excel. We'll also look at Microsoft's growing cloud Big Data and analytics stack, including HDInsight (both

SQL SERVER LIVE! SESSION DESCRIPTIONS BY TRACK *(continued)*

Hadoop and Spark), Azure Data Lake Store, Data Lake Analytics and Machine Learning. We'll explore the R programming language, and even SQL Server relational engine features like columnstore indexes and PolyBase. Perhaps most important, we'll investigate the many integrations between all of these technologies.

We'll start with the conceptual, where you'll learn what Big Data is and the fundamentals of Data Warehousing and dimensional modeling. We'll then move on to the individual technologies, starting on-premises with Excel and Analysis Services, followed by a gradual shift to mobile and the cloud with Power BI and then the full-on cloud with HDInsight and other Azure services.

Then we'll see how to mix and match technologies. Integrations like using Excel against Power BI and Analysis Services; SQL Server with Hadoop/HDInsight via PolyBase; and Power BI with SQL Server Reporting Services. Plus, we'll hit on the integrations of R and Python with SQL Server, HDInsight and Azure Machine Learning as well as R's further integration with Power BI.

Working with data isn't just about relational databases and data access anymore. It's a much bigger, more exciting world than that now. There are new challenges too, but they're not insurmountable. Take in this workshop to get past them and see the cool stuff that awaits.

You will learn:

- Power BI, against an array of data sources
- Open Source Big Data technologies like Hadoop and Spark
- Fundamentals of the R programming language, including its integrations into SQL Server, Power BI and HDInsight

SQL Server Administration and Maintenance

Looking to brush up on SQL Server administration fundamentals? Are you a "reluctant DBA" charged with supporting SQL Server—and given no training? SQL Server Live! is here to help, with a complete selection of core maintenance topics: Availability Groups, disaster recovery, encryption, data security and privacy, index maintenance, SQL Server upgrades, Azure SQL Database, PowerShell for SQL Server and more.

SQT02 Is SQL Server Making You Wait? Discover the Top 10 Wait Types Every DBA Should Know

Intermediate

JANIS GRIFFIN

Tuesday, November 14, 9:15 – 10:30am

There are over 800 wait types in SQL Server, but in my experience there are only 10 that DBAs and developers should be very familiar with... If you can master these 10 wait types, what causes them and their solutions, you will be ahead of the performance analysis game. In this session, Janis Griffin, Database Performance Evangelist, SolarWinds, will share her top 10 wait types based on over 25 years of experience and over 500 consulting engagements with customers. Griffin will also provide the key steps needed to identify, prioritize and solve any performance issues that these wait types cause, in order to help attendees hone their performance troubleshooting skills.

SQT05 Loading a Data Warehouse Using SSIS

Introductory / Intermediate

TIM MITCHELL

Tuesday, November 14, 1:30 – 2:45pm

Data warehouses and ETL processes are an essential part of business decision-making. In an age where big data and NoSQL solutions, traditional data warehouse architectures and ETL tools to feed them (such as SQL Server Integration Services) remain critical to providing reliable, repeatable, and auditable answers.

SQL Server Integration Services has evolved into an ideal tool for loading data warehouses. Its modular design and variety of load tools allow it to process most any data warehouse load design (full load, incremental load, or near real-time), while its data flow transformations and scripting tools make it flexible enough to handle complex reshaping and cleansing required of data warehouse loads.

In this session, we will discuss and demonstrate loading a data warehouse using SQL Server Integration Services. We will briefly cover some ETL best practices for data warehouse loads, and will demonstrate how these practices can be implemented using SSIS. Among the topics we'll cover:

- Why SSIS for data warehouse loads?
- Handling different DW load types (full, incremental) in SSIS
- SSIS Design patterns for loading facts and dimensions
- Change detection in SSIS
- Data lineage

SQL SERVER LIVE! SESSION DESCRIPTIONS BY TRACK *(continued)*

SQT08 Advanced SSIS Package Authoring with Biml

Introductory / Intermediate

TIM MITCHELL

Tuesday, November 14, 3:15 – 4:30pm

Have you ever needed to generate dozens (or even hundreds) of similar SSIS packages? Do you ever find yourself needing to regenerate a lot of packages when some piece of the upstream data format changes? Using native SSIS, this can be a tedious and error prone exercise.

However, using Biml (Business Intelligence Markup Language) can greatly increase your productivity as an ETL developer. In this session, we'll cover the essentials of Biml. I'll discuss what it is and what it can do for SSIS, demonstrating how it can easily generate dozens or even hundreds of packages in just a few minutes. I'll also demonstrate some realistic examples and discuss how Biml fits into the enterprise ETL picture.

Attendees will learn the essentials of Biml, including the basics of the language and how it fits into an SSIS environment; Attendees will learn how Biml can speed up SSIS development by eliminating much of the mundane work of building packages; Attendees will see several examples of how Biml can be used to automate package development.

SQT11 Fast Focus: A Brave New World—SQL Server on Linux

Introductory / Intermediate

JOSEPH D'ANTONI

Tuesday, November 14, 4:40 – 5:00pm

With the brave new world of SQL Server on Linux, it is important for SQL Server professionals to have good understanding of the platform so they can best advise their employers. Even though it is early days for SQL Server on Linux. In quick talk, you will learn about the

Linux operating system, how to login to it, and how to best deploy SQL Server on the Linux platform.

SQW12 Exploring Execution Plans

Intermediate

GRANT FRITCHEY

Wednesday, November 15, 4:00 – 5:15pm

Getting started reading execution plans is very straight forward. The real issue is understanding the plans as they grow in size and complexity. This session will show you how to explore the nooks and crannies of an execution plan in order to more easily find the necessary information needed to make what the plan is telling you crystal clear. The information presented here will better empower you to traverse the execution plans you'll see on your own servers. That knowledge will make it possible to more efficiently and accurately tune and troubleshoot your queries.

You will learn:

- How to read execution plan properties to identify the most useful data in various situations
- How to use the new tools available in SQL Server 2016 that show how execution plans and queries behave
- How to apply the tools and techniques from this session in order to better and more efficiently tune a query

SQH02 Windows PowerShell Jumpstart for the SQL Server DBA

Introductory / Intermediate

EDWIN SARMIENTO

Thursday, November 16, 8:00 – 9:15am

Windows PowerShell is becoming the scripting language of choice for managing Microsoft servers and workstations. And while T-SQL is still the scripting language for DBAs to administer and manage SQL

Server, there are tons of stuff that can be easily done with Windows PowerShell.

In this session, learn Windows PowerShell from the ground up and how you can use it with SQL Server Management Objects (SMO) to administer and manage a SQL Server instance.

You will learn:

- The basics of Windows PowerShell
- How to manage SQL Server using Windows PowerShell
- How to automate operational SQL Server administrative tasks using Windows PowerShell scripting

SQH05 A Database Designer's Favorite SQL Server Security & Privacy Features

Intermediate

KAREN LOPEZ

Thursday, November 16, 9:30 – 10:45am

SQL Server includes recent features that focus on data security and privacy. In this session we will review the best features from a database designer's and developer's point of view.

- TDE
- Endpoint Encryption
- Always Encrypted
- Database Scope Level Credentials
- Dynamic Data Masking
- ...and more

We'll look at the new features, why you should consider them, where they work, where they don't, who needs to be involved in using them, and what changes, if any, need to be made to applications or tools that you use with SQL Server.

You will learn:

- The pros and cons of implementing each feature
- How implementing these new features may impact existing applications
- 10 tips for enhancing SQL Server security and privacy protections

SQL SERVER LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

SQH08 SQL Server 2016 Database Administration for the Non-DBA

Introductory

DENNY CHERRY

Thursday, November 16, 1:00 – 2:15pm

Are you a developer or a systems admin and you've just been handed a SQL Server database and you've got no idea what to do with it? I've got some of the answers here in this session for you. During this session we will cover a variety of topics including backup and restore, recovery models, database maintenance, compression, data corruption, database compatibility levels and indexing.

While this session won't teach you everything you need to know, it will give you some insights into the SQL Server database engine and give you the ability to better know what to look for.

During this session Microsoft MVP and Certified Master Denny Cherry will give you the basic information that is needed to get that new SQL Server that you've just been told that you need to manage running and safe. After this session you will be armed with the basic information needed to know how to properly backup the database so that you can recover it after a failure. You will learn how to properly maintain the database so that it runs at peak performance, while using the least possible space. You will also learn how to look for, and correct database corruption problems.

SQH11 Using SQL Server AlwaysOn Availability Groups

Introductory / Intermediate

DENNY CHERRY

Thursday, November 16, 2:30 – 3:45pm

In this session we will look at the features which are provided with Microsoft SQL Server 2012 & 2014 as part of the "AlwaysOn Availability Group" features including site to site configurations to allow of a large scale high availability solution without the need for any high end SAN storage solution.

Additionally we will be looking at the ability to have redundant servers which can be used for reporting or for taking your backups reducing the load from the production database. We will also look a unique use case using SQL Server AlwaysOn Availability Group feature to scale out the reads to synchronous and/or asynchronous read only copies.

You will learn:

- How to setup "AlwaysOn"
- How to leverage "AlwaysOn" to increase production performance by offloading reporting and backups
- When not to use AlwaysOn Availability Groups

SQF02 Workshop: Database Administration for the Non Database Administrator

Introductory

DENNY CHERRY

Friday, November 17, 8:00am – 5:00pm

In this all day workshop on Microsoft SQL Server we will be learning about how Microsoft SQL Server works and what needs to be done to keep it up and running smoothly when you don't have a full time database administrator on staff to help you keep it running.

In this workshop we will cover a variety of topics including backups, upgrade paths, indexing, database maintenance, database corruption, patching, virtualization, disk configurations, high availability, database security, database mail, anti-viruses, scheduled jobs, and much, much more.

After taking this full day session on SQL Server you'll be prepared to take the information that we go over and get back to the office, get the SQL Server's patched and properly configured so that they run without giving you problems for years to come.

You will learn:

- Backups
- Recovery
- Corruption
- Indexing

SQL SERVER LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

SQL Server in the Cloud

With sessions on Azure SQL Database, Data Warehouse, Data Factory and Cosmos DB (formerly DocumentDB), not to mention HA/DR with SQL Server on Azure, we've got data in the cloud covered. Learn the dos and don'ts from our experienced experts.

SQT03 Introduction to Azure Cosmos DB

Introductory

LEONARD LOBEL

Tuesday, November 14, 9:15 – 10:30am

This session presents an overview of Azure Cosmos DB, a globally distributed, massively scalable, low (single-digit millisecond) latency, fully managed NoSQL database service that is designed specifically for modern web and mobile applications. Like other NoSQL platforms, Cosmos DB supports a schema-free data model, built-in partitioning for sustained heavy-write ingestion, and replication for high availability. But only Cosmos DB offers turnkey global distribution, automatic indexing, and SLAs for guarantees on 99.99% availability, throughput, latency, and consistency.

We begin by explaining NoSQL databases in general, and how they compare with traditional relational database platforms. Then we tour the many features of Cosmos DB, including its multi-model capabilities which allow you to store and query schema-free JSON documents (using either DocumentDB or MongoDB APIs), graphs (Gremlin API), and key/value entities (tables API). You'll learn about global distribution, scale-out partitioning, tunable consistency, custom indexing, attachments, and more. We'll also explore client development using the many available SDKs and APIs. Attend this session, and get up to speed on Cosmos DB today!

You will learn:

- An introduction to NoSQL databases, and Microsoft Azure Cosmos DB
- The differences between NoSQL and relational database platforms, and when to choose one or the other for your next application
- About the unique NoSQL features of Cosmos DB, including global distribution, server-side partitioning, multi-model support, rich query over schema-free data, client development, server-side programming, tunable consistency, indexing, and attachments

SQT12 Fast Focus: Azure SQL Data Warehouse: Fast and Furious

Introductory / Intermediate

KAREN LOPEZ

Tuesday, November 14, 4:40 – 5:00pm

Data Warehousing has been part of our IT landscape for decades now. But business requirements for variable data analysis needs has been a challenge for developers and IT professionals. Data is getting bigger, ad hoc queries more necessary, and new data formats mean just moving reporting data to a new environment won't hack it.

In this session, we'll look at:

- DW Scalability Architecture
- DW Use Cases and Cost Managements
- Querying multiple datasets
- Advanced data processing features available
- Impact on your current IT processes
- New skills you need to learn...or don't...

SQT15 Fast Focus: Azure SQL Database—A Quick Introduction

Introductory

TIM MITCHELL

Tuesday, November 14, 5:10 – 5:30pm

Cloud database applications have become a key component of data storage and interaction. Building database apps in the cloud helps speed up time-to-market

and eliminates the locked-in nature of on-premises hardware. In the world of cloud applications, Microsoft's Azure SQL Database is one of the most secure and easy-to-use platforms. By leveraging tools and technologies you already know well, the process of building in or migrating to the cloud has never been easier.

In this session, we will review and demonstrate the essential features of SQL Database. We will discuss the benefits of using SQL Database as a cloud database platform, and walk through its merits and limitations. We'll discuss migration strategies, and how SQL Database fits into a hybrid on-prem/cloud architecture. Finally, we'll cover how SQL Database fits into an ongoing data management architecture, including options for backup and maintenance, ETL, and reporting.

SQW03 Azure SQL Database and the DBA

Intermediate

GRANT FRITCHEY

Wednesday, November 15, 8:00 – 9:15am

Everyone knows that Azure SQL Database only supports a small subset of SQL Server functionality, small databases, and has really bad performance. Except, everyone is wrong. In fact, Azure SQL Server Database is ready to support many, if not most, databases within your enterprise. This session reintroduces Azure SQL Database and shows the high degree of functionality and improved performance that is now available. We'll cover topics from monitoring, to high availability to disaster recovery, all within Azure SQL Database. You'll leave this session with a more thorough understanding of the strengths and weaknesses of Azure SQL Database so that you can make a more informed choice over when, or if, you should use it within your environment.

SQL SERVER LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

SQW05 HA and DR in the Cloud— Building Robust SQL Server Solutions on Azure

Intermediate

JOSEPH D'ANTONI

Wednesday, November 15, 9:30 – 10:45am

The cloud is awesome, but it is not magic. In this session you will learn how to protect your data in Azure. You will learn about some built-in solutions like AlwaysOn Availability Groups, as well as some homegrown solutions that come at a much lower price tag. You will also learn some fundamentals about Azure infrastructure that can improve the availability of your application.

You will learn:

- High Availability (HA) and Disaster Recovery(DR) options in Azure
- About underlying Azure infrastructure as it relates to high availability
- About Azure networking to build DR solutions for SQL Server

SQH03 Introduction to Azure Data Factory

Introductory

TIM MITCHELL

Thursday, November 16, 8:00 – 9:15am

With the growth of cloud data storage comes the need to move and transform that data between cloud endpoints. Azure Data Factory is one of the newer integration tools in the Microsoft toolbox, and it is designed specifically for wrangling cloud-based data.

This session will be an introduction to Azure Data Factory (ADF). We'll cover what it is, where to find it, and how to get started with its use. We'll also discuss what it isn't, providing scenarios of where it should (and shouldn't) be

used. We will walk through some of the common uses of ADF, and will step through demonstrations on how to get started using Azure Data Factory.

SQH06 Manage Your Azure Databases Using PowerShell

Intermediate

GRANT FRITCHEY

Thursday, November 16, 9:30 – 10:45am

Moving your databases to the cloud through the use of Azure SQL Database and Azure SQL Data Warehouse can be challenging. These challenges are exacerbated by the fact that you simply don't have as much tooling available to manage and maintain your databases. Enter Powershell. Through the use of Powershell you can much more easily maintain your Azure databases. Further, once you start using Powershell to maintain the databases, you'll be able to automate a lot more processes within your Azure environment. This session will provide you with the core knowledge to create your own Powershell scripts and it will give you a set of foundation scripts from which you can build your own. You don't have to feel limited on what you can just because you're on Azure. Powershell will empower you to get more done within your Azure environment.

You will learn:

- How to automate the database aspects of Azure specifically around the traditional SQL Database and Azure SQL Data Warehouse databases
- How to configure local machines for use with automation of Azure databases
- The potential problems and pitfalls when attempting to control Azure through Powershell

SQL Server for Developers

Developers have an incredible amount of impact on database application performance, and SQL Server Live! shines a spotlight to help developers deliver more. From a general "what's new" for developers in SQL Server 2016 to coverage of R and Python (now both part of the SQL Server story), and a Developer Dive on SQL Server 2016 full day hands-on lab, there's plenty of content to keep you busy—or to supplement your Visual Studio Live! or Modern Apps Live! agenda.

SQT04 What's New for Developers in SQL Server 2016

Introductory / Intermediate

LEONARD LOBEL

Tuesday, November 14, 1:30 – 2:45pm

SQL Server 2016 adds many powerful features that you'll learn about in this demo-packed session. Discover new security features such as dynamic data masking, row-level security, and always encrypted. Other innovative capabilities include "stretch" database (allow select tables in an on-premises database to be transparently relocated in Azure SQL Database), temporal data (enable "time travel" to access data as it existed at any point in time), and integrated JSON support. Attend this session and get ready for SQL Server 2016 today!

You will learn:

- New security features in SQL Server 2016, including dynamic data masking, row-level security, and always encrypted.
- How to examine stretch database and temporal data support added in SQL Server 2016.
- How to store, retrieve, and manipulate JSON data in SQL Server

SQL SERVER LIVE! SESSION DESCRIPTIONS BY TRACK *(continued)*

SQT14 Fast Focus: Python Essentials for C# Devs

Introductory

JEN STIRRUP

Tuesday, November 14, 5:10 – 5:30pm

Python has become extremely popular in the broader technology community, and it is a great way to get started in the world of data. If you are already a C# programmer, whether beginner or expert, Python is an easy-to-learn language that makes use of your existing skill set.

In this demo-led session, we will look at Python in Visual Studio with some examples that will help you on your way to success with Python. You'll see how it hangs together, and we will look at some of the similarities and differences in both languages.

Why not join this session to get started in learning this increasingly popular language?

SQW08 Introduction to R

Introductory / Intermediate

BRADLEY BALL

Wednesday, November 15, 2:00 – 3:15pm

R is a language and environment for statistical computing and graphics. R provides a wide variety of statistical techniques such as linear and nonlinear modeling, classical statistical tests, time series analysis, classification, clustering and more. R is highly extensible. One of R's strengths is the ease with which well-designed publication-quality plots can be produced. R has been in use by the Data Scientist community for quite some time. In this session we will do an introduction to the language and show demo's, examples, recommended tutorials, as we prepare to utilize and support R.

You will learn:

- How to review vectors, matrix, factors, lists, and data frames
- How to review how to select, aggregate, count, sum, or append to a data frame, and the packages that help us perform these actions
- How to review simple visualization types such as plots, histograms, and briefly touch on designing advanced charts with packages like ggplot2

SQW11 Big Data Smorgasbord with R in Hadoop and SQL Server

Advanced

JEN STIRRUP

Wednesday, November 15, 4:00 – 5:15pm

Join this session for advanced expertise in R options for SQL Server for Big Data. We will look at:

- Intro to R in SQL Server and Hadoop
- Choosing and deploying predictive modelling for SQL Server
- Using Microsoft R Server as a Hadoop Client
- HDFS operations with rxHadoop helper functions
- Compute Contexts in SQL Server and Hadoop for delivering faster analytics
- Using ScaleR functions with Hadoop on a Map/Reduce cluster for analytics

SQL Server Performance Tuning and Optimization

Get the most from SQL Server—even if it's hosting a third-party application database. Learn the insider tricks to performance tuning, covering the query optimizer, cardinality estimates, execution plans, virtualized SQL Server workloads, monitoring techniques, and much more. SQL Server Live! helps you maximize your SQL Server investment.

SQM02 Workshop: The Secret Toolbox for Performance Tuning and Optimizing Queries

Intermediate / Advanced

PINAL DAVE

Monday, November 13, 8:30am – 5:30pm

This demo-oriented day-long workshop will answer the questions which DBAs and Developers often wonder about Performance Tuning and Query Optimization. There are some problems which have straight forward answers, but there are some problems which are often invisible or need attention without even a problem statement. This full-day workshop will be divided in these three major components

1. Identifying common patterns and anti-patterns for database performance tuning
 - slow running queries
 - IO Intensive operations
 - CPU bottlenecks
 - memory optimizations
 - tempdb contention
 - and much more

SQL SERVER LIVE! SESSION DESCRIPTIONS BY TRACK *(continued)*

2. Resolving optimization hindrances and issues proactively
 - indexing strategies
 - file growths
 - server deployment best practices
 - statistics
 - wait stats and queues
 - and much more
3. Avoid query performance surprises when upgraded to the latest version of SQL Server 2014 and 2016
 - new cardinality engine
 - column store indexes best practices
 - live plans
 - azure enhancements
 - in-memory OLTP optimizations
 - and much more

You will learn:

- About identifying common patterns and anti-patterns for database performance tuning
- About resolving optimization hindrances and issues proactively
- How to avoid query performance surprises when upgraded to the latest version of SQL Server 2014/2016

SQT06 Turbo Boost—SQL Tricks Everybody MUST Know

Introductory / Intermediate

PINAL DAVE

Tuesday, November 14, 1:30 – 2:45pm

Data and Database is a very important aspect of application development for businesses. Developers often come across situations where they face a slow server response, even though their hardware specifications are above par. This session is for all the Developers who want their server to perform at blazing fast speed, but want to invest very little time to make it happen. We will go over various database

tricks which require absolutely no time to master and require practically no SQL coding at all. After attending this session, Developers will only need 60 seconds to improve performance of their database server in their implementation. We will have a quiz during the session to keep the conversation alive. Developers will walk out with scripts and knowledge that can be applied to their servers, immediately post the session.

You will learn:

- SQL Server 2014 has introduced quite a few new things with related to SQL configurations. We will cover its impact with examples (memory, SSMS settings, filegrowth)
- About the concepts of auto-update as well auto-create statistics with a clear example
- The common tricks of SQL deployments which can immediately improve performance like tempdb, memory and CPU configurations etc.

SQW02 Getting Started with Query Tuning

Intermediate

JOSEPH D'ANTONI

Wednesday, November 15, 8:00 – 9:15am

In this session you will learn the basics of how to tune queries in a SQL Server environment, through a demo-heavy and technique focused session. You will learn how to read an execution plan, and gain knowledge of techniques to improve query performance and throughput.

You will learn:

- How to read an execution plan
- Why SQL Server chooses the operators it does, and which ones are fastest
- About getting information from the Query Store

SQW06 Cardinality Estimates in Microsoft SQL Server

Intermediate

THOMAS LAROCK

Wednesday, November 15, 9:30 – 10:45am

SQL Server 2014 introduced a new cardinality estimator. This feature allows for statistics to be calculated differently than previous versions of SQL Server, often (but not always) resulting in better query performance. Attend this session and understand how, why, and when SQL Server uses statistics and how this new feature will help improve performance.

You will learn:

- The differences between old and new cardinality estimator
- How to know if the new version is causing performance issues
- How to revert back to the old version if needed

SQH01 Top Five SQL Server Query Tuning Tips

Introductory / Intermediate

JANIS GRIFFIN

Thursday, November 16, 8:00 – 9:15am

Query tuning can be complex. It's often hard to know which knob to turn or button to press to get the biggest performance boost. In this presentation, Janis Griffin, database performance evangelist at SolarWinds, will share her secrets for determining the best approach for tuning queries by utilizing the performance schema (specifically instrumented wait types, query execution plans, SQL diagramming techniques and more). Regardless of the complexity of your database or your skill level, this systematic approach will lead you down the correct tuning path with no guessing,

SQL SERVER LIVE! SESSION DESCRIPTIONS BY TRACK *(continued)*

saving countless hours of tuning queries and optimizing performance of your SQL Server databases.

You will learn:

- How to effectively use wait types to quickly identify bottlenecks and get clues on the best tuning approach
- How to quickly identify inefficient operations through review of query execution plans
- How to use SQL diagramming techniques to find the best execution plan

SQH04 Upgrading to SQL Server 2016

Intermediate / Advanced

THOMAS LAROCK

Thursday, November 16, 9:30 – 10:45am

Upgrading to the latest version of SQL Server is often seen as a comprehensive and difficult project. Management often fails to see the benefit for migrating to the latest version and your end users aren't interested in all of the extra testing. As a DBA you need to come up with a plan that earns both management and end-user support.

In this session, we will cover all the information you need to collect and consider before, during, and after upgrading to SQL Server 2016. We will discuss licensing, upgrade approaches, and build out your own upgrade checklist.

If you feel stuck on an older version of SQL Server, attend this session to understand the features and benefits of SQL Server 2016 that will justify your upgrade project. Come and learn about the tools and methods that will make your upgrade project be successful.

You will learn:

- Pre-upgrade tasks
- Upgrade tasks and options
- Post-upgrade tasks

SQH07 T-SQL User-Defined Functions, or: How to Kill Performance in One Easy Step

Introductory / Intermediate

HUGO KORNELIS

Thursday, November 16, 1:00 – 2:15pm

User-defined functions in SQL Server are very much like custom methods and properties in .Net languages. At first sight, they seem to be the perfect tool to introduce code encapsulation and reuse in T-SQL. So why is this feature mostly avoided by all T-SQL gurus?

The reason is performance. In this session, you will learn how user-defined functions feed the optimizer with misleading and insufficient information, how the optimizer fails to use even what little information it has, and how this can lead to shocking query performance.

However, you will also see that there is a way to avoid the problems. With just a little extra effort, you can reap the benefits of code encapsulation and reuse, and still get good performance.

You will learn:

- How T-SQL user-defined functions can hurt query performance
- Which T-SQL performance metrics are and which are not trustworthy when user-defined functions are involved
- How to use inline table-valued functions to avoid the performance hit of other types of user-defined functions

SQH10 Adaptive Query Processing

Introductory / Intermediate

HUGO KORNELIS

Thursday, November 16, 2:30 – 3:45pm

Late 2016, Microsoft announced a new feature coming to both SQL Database on Azure and SQL Server "vNext": Adaptive Query Processing.

What exactly does this mean, and what does it do? What are typical use cases, and where could this new feature cause issues? All those questions, and many more, will be answered in this session.

You will learn:

- How to use cases of Adaptive Query Processing
- The limitations of Adaptive Query Processing
- How to recognize when Adaptive Query Processing is used

"BRADLEY BALL'S SESSIONS WERE AMAZING. VERY DEEP, VERY USEFUL. PERFECT PACE. REALLY, SO WERE ALL OF THE SQL SERVER LIVE! SPEAKERS. I TOOK SO MANY NOTES!!"

- Howard Holton, Precision Discovery

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AGENDA AT-A-GLANCE

Client		DevOps		Infrastructure		IT Soft Skills		Security		Server / Datacenter		The Real Cloud	
<div style="text-align: center;">  TechMentor Full Day Hands-On Labs: Sunday, November 12, 2017 (additional fee applies) </div>													
9:00 AM	6:00 PM	TMS01 Hands-On Lab: Ethical Hacking with Kali Linux - Mike Danseglio & Avril Salter						TMS02 Hands-On Lab: Advanced Windows Troubleshooting for IT/Ops Pros - Bruce Mackenzie-Low					
2:00 PM	7:00 PM	Pre-Conference Registration											
<div style="text-align: center;"> TechMentor Pre-Conference Workshops: Monday, November 13, 2017 </div>													
8:30 AM	5:30 PM	TMM01 Workshop: Learn the latest and Greatest Updates to the Azure Platform IaaS and PaaS Services - Peter De Tender						TMM02 Workshop: Windows Security—How I Do It! - Sami Laiho					
6:30 PM	8:00 PM	Dine-A-Round Dinner @ Universal CityWalk											
<div style="text-align: center;"> TechMentor Day 1: Tuesday, November 14, 2017 </div>													
8:00 AM	9:00 AM	TECHMENTOR KEYNOTE: How to Succeed In IT (Or At Least How I Succeeded in IT) - Mark Minasi, IT Consultant, Author, Speaker											
9:15 AM	10:30 AM	TMT01 Right Tool for the Right Job! Group Policy, SCCM, MDM, Azure AD, and More. Do Management Right! - Jeremy Moskowitz				TMT02 Secure Access Everywhere! Implementing DirectAccess with Windows Server 2016 - Richard Hicks				TMT03 Learn What It Takes to Build a Cockpit Alike View for Monitoring all of Your Azure Resources - Peter De Tender			
10:30 AM	11:00 AM	Networking Break • Visit the EXPO											
11:00 AM	12:00 PM	LIVE! 360 KEYNOTE: Lessons Learned Doing DevOps at Microsoft at Scale - Buck Hodges Director of Engineering, Visual Studio Team Services, Microsoft											
12:00 PM	12:45 PM	Lunch • Visit the EXPO											
12:45 PM	1:30 PM	Dessert Break • Visit the EXPO											
1:30 PM	2:45 PM	TMT04 Keepin' The Bad Guys Out of Windows 10 with Microsoft's In-box (and 3rd party) Tools - Jeremy Moskowitz				TMT05 Become a Windows Server 2016 Cluster Master in Five Easy Architectures - Greg Shields				TMT06 An Absolute Beginners Guide to Storage Spaces Direct (S2D) - Dave Kawula			
2:45 PM	3:15 PM	Networking Break • Visit the EXPO											
3:15 PM	4:30 PM	TMT07 Pitfalls and Problems: Windows 10 and Server 2016 - Jeremy Moskowitz				TMT08 Hardware, Camtasia, and a Storyline: Creating Your Own User Training - Greg Shields				TMT09 To Be Announced			
4:40 PM	5:00 PM	TMT10 Fast Focus: New Ways to Install Windows 10 Without Imaging, Is Task Sequence Dead? - Petri Paavola				TMT11 Fast Focus: Preparing for the Windows Server 2016 MCSA—The Expert Tips - Greg Shields				TMT12 Fast Focus: Mythbusters—Windows Pagefile-Settings - Sami Laiho			
5:10 PM	5:30 PM	TMT13 Fast Focus: System Center Configuration Manager Current Branch: How to Survive with Fast Release Cadence - Panu Saukko				TMT14 Fast Focus: Recovering Your On-premises Workloads to Azure in 20 minutes— with Nothing But Demos - Peter De Tender				TMT15 Fast Focus: Mythbusters—Tweaking Windows Performance - Sami Laiho			

Sessions and speakers subject to change.

Continued next page

AGENDA AT-A-GLANCE (continued)

		Client	DevOps	Infrastructure	IT Soft Skills	Security	Server / Datacenter	The Real Cloud
5:30 PM	7:30 PM	Exhibitor Reception						
START TIME	END TIME	TechMentor Day 2: Wednesday, November 15, 2017						
8:00 AM	9:15 AM	TMW01 The Network is Slow! Or is it? Network Troubleshooting for Windows Administrators - Richard Hicks	TMW02 Configuring Active Directory Certificate Services for DSC Credential Encryption - Melissa Januszko	TMW03 Bypass Every Security Technology with Social Hacking: A Beginner's Toolkit - Dale Meredith				
9:30 AM	10:45 AM	TMW04 Intelligent DNS for Modern Networks: Introducing DNS Policies in Windows Server 2016 - Richard Hicks	TMW05 Make Your PowerShell Scripts Bulletproof with Pester - Melissa Januszko		TMW06 Pen Testing with PowerShell: Cmdlets That'll Pwn Your Network - Dale Meredith			
10:45 AM	11:30 AM	Networking Break • Visit the EXPO						
11:30 AM	12:30 PM	LIVE! 360 PANEL: Industry Trends, Technology, and Your Career <i>Matt Lockhart, Michael Aaron, Martin Leifker, Francois Charette</i>						
12:30 PM	1:30 PM	Birds-of-a-Feather Lunch						
1:30 PM	2:00 PM	Dessert Break • Visit the EXPO						
2:00 PM	3:15 PM	TMW07 Automated Troubleshooting Techniques in Enterprise Domains - Petri Paavola	TMW08 Create a Customized Office 365 Software Deployment Package - John O'Neill, Sr.			TMW09 To Be Announced		
3:15 PM	4:00 PM	Networking Break • Visit the EXPO • Expo Raffle						
4:00 PM	5:15 PM	TMW10 How to Manage Windows 10 Devices with System Center Configuration Manager Current Branch - Panu Saukko	TMW11 Putting the Windows Assessment and Deployment Kit to Work - John O'Neill, Sr.			TMW12 Controlling Your Azure Spend - Timothy Warner		
8:00 PM	10:00 PM	Live! 360 Dessert Luau						

Sessions and speakers subject to change.

Continued next page

"I REALLY LIKED THE VARIETY OF COURSES. GREG SHIELDS AND DON JONES ARE GREAT! VENUE WAS NICE, AND IS THE SURROUNDING AREA. FOOD IS GREAT!"

- Rob McConaumet, Siemens Corporation

AGENDA AT-A-GLANCE (continued)

Client		DevOps	Infrastructure	IT Soft Skills	Security	Server / Datacenter	The Real Cloud
TechMentor Day 3: Thursday, November 16, 2017							
8:00 AM	9:15 AM	TMH01 Fully Integrated Azure Resource Manager Deployments - Neil Peterson		TMH02 Keep Up with NOW! Automate Rebuilding Your (Home)Lab—On Steroids - Sven van Rijen		TMH03 Regular Expressions Jump Start - Timothy Warner	
9:30 AM	10:45 AM	TMH04 Automating Azure with PowerShell—Beyond the Azure PowerShell Module - Neil Peterson		TMH05 Weakest Link of Office 365 Security - Nestori Syynimaa		TMH06 Git and GitHub Jump Start - Timothy Warner	
11:00 AM	12:00 PM	TECHMENTOR PANEL: The Future of Windows Management - Moderator: Sami Laiho					
12:00 PM	1:00 PM	Lunch on the Lanai					
1:00 PM	2:15 PM	TMH07 Moving from Active Directory to Azure Active Directory Quick Wins and Common Challenges - Tarek Dawoud & Mark Morowczynski		TMH08 Nine O365 Security Issues Microsoft Probably Has Not Told You (and You Probably Don't Want to Know) - Nestori Syynimaa		TMH09 PowerShell Scripting Secrets - Jeffery Hicks	
2:30 PM	3:45 PM	TMH10 Deep Dive on SaaS Apps with Azure Active Directory - Tarek Dawoud & Mark Morowczynski		TMH11 Starting Your Own Gig: Three Steps to Launching Your Own Business - Nick Cavalancia		TMH12 In-Depth Introduction to Docker - Neil Peterson	
4:00 PM	5:00 PM	Next? TechMentor Networking Event - Moderator: Sami Laiho					
TechMentor Post-Conference Workshops: Friday, November 17, 2017							
8:00 AM	5:00 PM	TMF01 Workshop: Managing Windows 10 from the Cloud - Panu Saukko & Petri Paavola			TMF02 Workshop: Advanced Desired State Configuration - Jeffery Hicks		

Sessions and speakers subject to change.

“THE THINGS I LIKED THE MOST WERE THE ABILITY TO TAILOR SESSIONS TO DIFFERENT TRACKS, THE ACCESSIBILITY OF SPEAKERS, THE LOCATION AND THE VENUE.”

- Glenn Heydolph, Raydon

TECHMENTOR SESSION DESCRIPTIONS BY TRACK

NEW!

Full Day Hands-On Labs



New to Live! 360 Orlando, these instructor-led, pre-conference Hands-On Labs offer attendees intensive in-depth training before the conference officially begins. Choose from eight extended 8-hour labs and take advantage of in-person instruction as well as collaboration with peers.

Attendance for each Hands-On Lab is limited, so be sure to sign up early for these special bring your own laptop pre-conference HOLs.

(Additional fee required. See [pricing page](#) for details.)

TMS01 Hands-On Lab: Ethical Hacking with Kali Linux

Intermediate

MIKE DANSEGLIO & AVRIL SALTER

Sunday, November 12, 9:00am – 6:00pm

This is a hands-on session on ethical hacking using the infamous penetration tool Kali Linux. You will learn how to conduct a penetration test against your own networks and servers to discover and document vulnerabilities before nefarious hackers do. This is a 100 percent offensive hacking hands-on lab where you will learn the weak points of most businesses, including wireless networks, passwords, and denial of service prevention.

You will learn:

- How to identify, connect to, and scan a target network
- How to capture and analyze wireless traffic without being detected
- How to execute a network attack using Kali Linux

Attendance is limited.

Attendee Requirements:

Each attendee must bring the following:

A laptop configured to boot the current version of Kali Linux, either installed or a live distro on USB. The

software and instructions are available at <http://www.kali.org>. The laptop must natively boot Kali, running it in a virtual machine will not work for these labs.

Optionally, a wireless USB NIC that uses the Realtek 8187 or 8187L chipset (e.g. Alfa AWUS036)

TMS02 Hands-On Lab: Advanced Windows Troubleshooting for IT/Ops Pros

Advanced

BRUCE MACKENZIE-LOW

Sunday, November 12, 9:00am – 6:00pm

Take advantage of this opportunity to enhance your troubleshooting skills by learning how to tackle the toughest problems that Windows can dish out. Enrich your job security for years to come by knowing what tools to use to analyze the Blue Screen of Death and determine what driver caused your server to crash. Leverage free, state-of-the-art tools from Microsoft including the Windows Debugging Tools, along with step-by-step cookbook instructions to guide you along the way. You'll leave this workshop with the knowledge, tools and confidence you'll need to tackle the toughest outages for years to come. Bring your own laptop running Windows to gain hands on experience with debugging tools and example crash dumps.

You will learn:

- How to configure and capture Windows memory dumps
- Install the Windows Debugger and learn the best commands for analyzing crashes
- How to force a memory dump on a hung server and troubleshoot why it locked-up

Attendee Requirements:

You must provide your own laptop computer for this hands-on lab.

Your laptop must have Windows 7 or later with at least 2GB of free disk space for lab material. Network connection to the internet is required.

Client

There has always been excitement in the server space. You still have to support, upgrade, migrate, and troubleshoot all those client computers though, right? We've got your back with a brand-new lineup of client-centric sessions from some of our favorite speakers.

TMT10 Fast Focus: New Ways to Install Windows 10 Without Imaging; Is Task Sequence Dead?

Intermediate

PETRI PAAVOLA

Tuesday, November 14, 4:40 – 5:00pm

Windows 10 provides new ways to install computers without using traditional reimaging with win-images and Task Sequences. Provisioning packages and other new technologies offers an alternative to the way you will install computers in future.

You will learn:

- How provisioning packages work, how they can be used to provision computers without reimaging them
- New ways to install Windows 10 devices
- About the differences between different installation techniques

TMT12 Fast Focus: Mythbusters—Windows Pagefile-Settings

Intermediate

SAMI LAIHO

Tuesday, November 14, 4:40 – 5:00pm

If anything is surrounded in myths, it's the Windows Pagefile. In this fast-paced session, you will see how to really set the pagefile settings on Windows.

TECHMENTOR SESSION DESCRIPTIONS BY TRACK *(continued)*

You will learn:

- How to size the pagefile
- How to optimize the pagefile
- Why you should not switch off the pagefile

TMT13 Fast Focus: System Center Configuration Manager Current Branch: How to Survive with Fast Release Cadence

Introductory/ Intermediate

PANU SAUKKO

Tuesday, November 14, 5:10 – 5:30pm

Microsoft has released new System Center Configuration Manager (SCCM) Current Branch version every four months. The fast release cadence is great, because new features are coming along rapidly. But the constant change brings both technical and non-technical challenges to SCCM admins. Also, you need to understand the differences between Technical Preview, Pre-Release and Production features. Join this session to hear tips how to manage most effectively SCCM Current Branch upgrades.

You will learn:

- How to keep up with SCCM's improvements
- How to prepare for upgrades
- How to deploy new features to production

TMT15 Fast Focus: Mythbusters— Tweaking Windows Performance

Intermediate

SAMI LAIHO

Tuesday, November 14, 5:10 – 5:30pm

If something has myths related to it it's the Windows Pagefile! In this session, we will see how to REALLY set the pagefile settings on Windows.

You will learn:

- How to size the pagefile
- How to optimize the pagefile
- Why you should not switch off the pagefile

TMW07 Automated Troubleshooting Techniques in Enterprise Domains

Intermediate / Advanced

PETRI PAAVOLA

Wednesday, November 15, 2:00 – 3:15pm

Troubleshooting is something you usually do manually. With automated tools though, you could help gather data to get more information to analyze. What if you could even outsource data gathering to the helpdesk, so you don't have any delays when customers call the helpdesk? This session covers ways to gather Sysinternals Process Monitor traces remotely, network traces remotely and powershell scripts and commands. This session will also introduce other tools and techniques used in real life (for example Windows Performance Toolkit).

You will learn:

- How to make traces from remote computers with Sysinternals Process Monitor and network traces, and with Windows Performance Toolkit
- How to use powershell to gather data from computer
- Basic analysis and quick tips to get started

TMW08 Create a Customized Office 365 Software Deployment Package

Introductory/ Intermediate

JOHN O'NEILL, SR.

Wednesday, November 15, 2:00 – 3:15pm

By default, Office 365 installations rely on click-to-run installers streaming setup files from the Internet. Unfortunately, this approach often misses the mark for larger organizations. These deployments require more administrative control and better bandwidth utilization.

This session will get into the details of leveraging the Office Deployment Tool to customize an Office 365 installation, fine tune program options, and define a local Office 365 deployment share to speed installations.

You will learn:

- The difference between the standard Office installer and Office 365 Click to Run installers
- How to download and use the Office Deployment Tool
- About installing Office 365 using a customized local Office 365 Click to Run deployment share

TMW10 How to Manage Windows 10 Devices with System Center Configuration Manager Current Branch

Introductory/ Intermediate

PANU SAUKKO

Wednesday, November 15, 4:00 – 5:15pm

System Center Configuration Manager (SCCM) Current Branch provides a complete feature set to manage Windows 10 devices. You can install/upgrade Windows 10, install updates, deploy universal apps and manage Windows 10 settings. But you need to know what is the right thing to do at the right time.

- Should you use Task Sequence or Service Plans to upgrade to Windows 10?
- When do you want to use Express Updates?
- Do you need to integrate SCCM with Windows Store for Business? How to do it?
- Windows 10 requirements for OSD

In this session, you'll learn best practices on how to utilize SCCM's features to tame Windows 10.

You will learn:

- How to upgrade to Windows 10
- Typical Windows 10 tweaks during OSD
- How to manage universal apps with SCCM?
- About Windows 10 settings management with SCCM
- How install updates to Windows 10 devices

TECHMENTOR SESSION DESCRIPTIONS BY TRACK *(continued)*

TMF01 Workshop: Managing Windows 10 from the Cloud

Introduction / Intermediate

PANU SAUKKO & PETRI PAAVOLA

Friday, November 17, 8:00am – 5:00pm

During this workshop, you will learn how to implement Windows 10 cloud management using Microsoft's services from start to finish. You'll need to know the status quo of cloud management vs. on-premises management to have a bright future in IT. The day includes technical and non-technical information how to configure the actual features in real life using the best practices from multiple customer cases. The workshop includes the following sessions:

- Introduction to cloud-based Windows 10 management
- What is the business case for cloud-based management?
 - How cloud-based management differs from traditional PC management?
 - What non-technical issues you will face?
 - What is Windows 10 Modern Device Management (MDM) stack?
 - Other relevant components: Intune, ConfigMgr, Azure AD, Office 365, EM+S, Windows Analytics

How to enroll Windows 10 devices

- How to prepare for enrollment
- Is OSD required for cloud management?
- Azure AD join and automatic enrollment to management
- How to start the enrollment

Configure settings and device management

- Inventory from Windows 10 devices
- Grouping devices with Azure AD dynamic groups
- Settings management with Intune
- Common settings to manage
- Using custom OMA-URI settings
- Windows Information Protection?

- Using conditional access
- Provisioning packages

Application deployment

- Introduction to Windows Store for Business
- Deploying universal applications to cloud devices with Intune
- Deploying Win32 apps to cloud devices with Intune
- How to run PowerShell scripts with Intune?

Automating management with Microsoft Graph

- What is Microsoft Graph?
- What you can do with Microsoft Graph?
- How to use Microsoft Graph in your scripts?
- Microsoft Graph & PowerShell

Using ConfigMgr to manage cloud-based Windows 10 devices

- Implementing traditional internet client management (IBCM)
- Using Cloud Management Gateway (CMG)
- Which one to use: IBCM vs CMG
- When to use ConfigMgr vs Intune?

You will learn:

- What are the possibilities and limitations of the cloud management
- Step by step instructions on how to enable cloud management of Windows 10 devices
- Tips on how to effectively use Microsoft Intune & Azure AD premium
- When to use SCCM for cloud-management?

DevOps

TechMentor brings PowerShell, the automation, and the DSC. It's all part of the new DevOps approach to things. Sessions in this track teach the tools and tech that make it happen inside your organization.

TMW02 Configuring Active Directory Certificate Services for DSC Credential Encryption

Intermediate

MELISSA JANUSZKO

Wednesday, November 15, 8:00 – 9:15am

There are times when you may have to run parts of a DSC Configuration under alternate, highly privileged credentials. Encryption is an absolute must for protecting these credentials in any production environment. Encrypting credentials in PowerShell DSC Configurations requires a PKI infrastructure that issues document encryption certificates. This session will show you how to configure a PKI infrastructure for your DSC needs; including why you want a PKI, how to set up a two-tier PKI, and how to configure the PKI to issue document encryption certificates.

You will learn:

- Best practices for setting up a PKI
- How to install and configure AD CS using DSC
- How to configure the AD and AD CS infrastructure to issue certificates
- How to use the certificates to encrypt credentials in a DSC configuration

TECHMENTOR SESSION DESCRIPTIONS BY TRACK *(continued)*

TMW05 Make Your PowerShell Scripts Bulletproof with Pester

Introductory

MELISSA JANUSZKO

Wednesday, November 15, 9:30 – 10:45am

Unleashing automation in a production environment can be scary. After all, programmers are human. Sometimes they make mistakes. Code failures become more expensive as a piece of code moves further along the development pipeline, and can result in loss of data, time, and business. Testing early and often in the development stages can alleviate these fears. Pester is a built-in PowerShell testing framework in Windows 10 and Windows Server 2016. In this introductory session, you will learn how to get started writing Pester tests—even before writing your code—to ensure the quality of your PowerShell scripts and functions.

You will learn:

- What is test-driven development and why it is important
- How to write the test first and the code second
- How to write a simple Pester test
- How to graduate from simple tests to more advanced tests

TMH03 Regular Expressions Jump Start

Intermediate / Advanced

TIMOTHY WARNER

Thursday, November 16, 8:00 – 9:15am

Sometimes you need to go beyond simple string matching. Many IT pros and even developers are leery about using regular expressions (regex) due to its seemingly arcane syntax. This session will start from scratch and get you comfortable with crafting precise matches. In case you were wondering, you'll also use .NET Framework-compliant PCRE regular expression syntax and free development/testing tools.

You will learn:

- Several high-impact use cases for regular expressions
- How to leverage regex metacharacters and character classes to define accurate string matches
- How to reduce the possibility of false positive matches

TMH06 Git and GitHub Jump Start

Introductory / Intermediate

TIMOTHY WARNER

Thursday, November 16, 9:30 – 10:45am

DevOps means systems administrators need to learn about source code control. Using PowerShell as a base, you'll get comfortable with Git version control. You'll also learn how to interact with the GitHub cloud for community and team collaboration.

You will learn:

- How to use the Git desktop client
- How to clone code between local machine and GitHub
- How to maintain and contribute to open source projects hosted at GitHub

TMH09 PowerShell Scripting Secrets

Intermediate

JEFFERY HICKS

Thursday, November 16, 1:00 – 2:15pm

Hopefully you agree and think writing a PowerShell script is fun. How would you like to have even more fun? In this session, you'll learn some scripting secrets from a long time PowerShell MVP. Some of them are simple tips that might make your code more manageable. Others might yield great performance benefits. Whether you are just beginning with PowerShell or a veteran scripter there should be a secret worth knowing for everybody.

You will learn:

- How to write more manageable scripts that are easier to troubleshoot

- How to write more effective PowerShell scripts that could improve performance
- How to use some lesser-known or understood PowerShell commands and techniques

TMF02 Workshop: Advanced Desired State Configuration

Intermediate / Advanced

JEFFERY HICKS

Friday, November 17, 8:00am – 5:00pm

Desired State Configuration (DSC) has been part of PowerShell since version 4.0. Perhaps you've even used a bit; maybe to push a configuration to a server. But you want to do more. In this full day workshop, you'll learn how easy it is to take advantage of DSC's more advanced features. You'll look at how to set up a secure pull server and configure servers to start using it. You'll also look at how to use partial and named configurations, including when not to use them. You'll look at some of the newer reporting and management features for DSC. And finally, you'll explore how DSC can play a pivotal role in your DevOps environment.

You will learn:

- How to securely deploy a DSC Pull server
- Advanced DSC techniques like partial or named configurations
- About DSC reporting and management

TECHMENTOR SESSION DESCRIPTIONS BY TRACK *(continued)*

Infrastructure

TechMentor's Infrastructure track covers the services that make the server, client, application and services work together in an IT environment. The best teachers the industry has to offer are here to teach you about services like Direct Access, Certificate Services, network troubleshooting, and Group Policy.

TMT01 Right Tool for the Right Job! Group Policy, SCCM, MDM, Azure AD, and More. Do Management Right!

Intermediate

JEREMY MOSKOWITZ

Tuesday, November 14, 9:15 – 10:30am

Microsoft has a bevy of on-premises and cloud-based tools for managing Windows endpoints. Between Group Policy, SCCM, Intune, MDM, Azure AD and other tools, how can people like us possibly know what tool to use for what management task? Come to this session and come away knowing what management tool is the right one for what job. Yep, it's confusing. Let's get it all sorted out so your next deployment and rollout can be a successful one.

You will learn:

- What on-premises and cloud-based management tools Microsoft has
- When to use the right tool for the right job
- What NOT to do when using on-premises and cloud based management tools

TMT04 Keepin' The Bad Guys Out of Windows 10 with Microsoft's In-box (and third party) Tools

Intermediate

JEREMY MOSKOWITZ

Tuesday, November 14, 1:30 – 2:45pm

Remember the days before malware? A nice strong firewall was all you needed. Not today—now you have to have defenses everywhere. There is some good news though: Inside the box from Microsoft are a gaggle of fortification tools to keep the bad guys away. This whirlwind tour will explore in-box Applocker, Device Guard, Credential Guard and other Microsoft tools. Plus, since not everyone has Windows Enterprise edition, you'll also explore some options if you're using Windows Pro, with some third-party tools to fill the gaps. Shore up the security and leave ready to defend your kingdom.

You will learn:

- Microsoft's in-box tools for end-user defenses
- How to get started and fortify your endpoints
- 3rd party tools which can make security easier and for those with Windows Pro (and not Enterprise)

TMT07 Pitfalls and Problems: Windows 10 and Server 2016

Intermediate

JEREMY MOSKOWITZ

Tuesday, November 14, 3:15 – 4:30pm

Windows 10 is here, but the darn thing won't sit still. It keeps coming and coming; like Jaws I, II, and III. This means you better know how to handle it, so this session will show you some very important tips, tricks and traps about Windows 10 and Server 2016. This is good stuff to know before you get going in a significant way, or if you're already on the road, how to keep going nicely and smoothly.

You will learn:

- What's new in Windows Server 2016 and decide which versions to use

- How different versions of Windows 10 are different, and how making the right choice now is VERY important
- What's new in Windows 10's "Servicing model"

TMW01 The Network is Slow! Or is it? Network Troubleshooting for Windows Administrators

Intermediate

RICHARD HICKS

Wednesday, November 15, 8:00 – 9:15am

There are myriad causes for network slowness. With the growing complexity of networks today, network-related connectivity and performance issues are becoming more common. Network virtualization, encrypted communication, and multiple abstraction layers all pose challenges to optimum network performance. Using tools such as Wireshark and Microsoft Network Monitor and Message Analyzer, Windows administrators can quickly identify and isolate many common causes of network slowness.

You will learn:

- Common symptoms and causes of network performance problems.
- Tools and techniques to effectively identify and resolve network-related issues
- Tips and tricks for quickly locating the source of network slowness

TMW04 Intelligent DNS for Modern Networks: Introducing DNS Policies in Windows Server 2016

Introductory

RICHARD HICKS

Wednesday, November 15, 9:30 – 10:45am

With a few exceptions, DNS has remained largely unchanged in the last few releases of Windows Server. To support today's modern infrastructure with continuous

TECHMENTOR SESSION DESCRIPTIONS BY TRACK *(continued)*

availability and dynamic workload placement, Microsoft has created “intelligent DNS” with the introduction of DNS polices in Windows Server 2016. Using DNS policies, you can ensure high availability for their applications by ensuring clients always connect to the healthiest and optimal resources. You can use DNS policies to route clients to the closet endpoint based on their physical location, and even respond with different resources based on the time of day. Security is enhanced by allowing for the blacklisting of DNS queries from malicious IPs or FQDNs, allowing or denying specific types of queries, and allowing or denying requests based on the originating subnet.

You will learn:

- Common uses cases for DNS policies
- To define DNS policies for geographic traffic distribution
- How to control DNS responses based on time of day
- How to allow or deny DNS queries based on type or network location

TMH02 Keep Up with NOW! Automate Rebuilding Your (Home)Lab—On Steroids

Intermediate

SVEN VAN RIJEN

Thursday, November 16, 8:00 – 9:15am

Are you busy studying for (Microsoft) exams and sick and tired of manually rebuilding your lab environment over and over again? Then please come to this session on how to automate building or rebuilding your home lab. You'll learn about a PowerShell module created to automate these tasks; making use of Hyper-V and Azure Automation DSC. Which tasks are being covered and what hardware and software do you need? It's all covered during this session.

You will learn:

- How to quickly (re-)build a Hyper-V (lab) environment based on Hyper-V
- Nested virtualization on Hyper-V
- Know how to work with Azure Automation DSC

IT Soft Skills

Being a successful IT Pro requires more than just technology skills. Boost your career with a selection of sessions on the lighter side of technology from the industry's most experienced speakers.

TMT08 Hardware, Camtasia, and a Storyline: Creating Your Own User Training

Introductory / Intermediate

GREG SHIELDS

Tuesday, November 14, 3:15 – 4:30pm

There's no better force multiplier like helping your users help yourselves, or even by helping your fellow IT Pros help themselves. Recording tools like Camtasia make video training easy, if you're willing to struggle through some of its initial...idiosyncrasies.

Greg Shields has been using Camtasia on a near-daily basis for over a decade. He's worked with a wide range of recording equipment from inexpensive to very expensive. He's even built a professional-grade recording studio in his home office to capture the best possible experience in his video training. Join him in this 75-minute presentation on presentations where you'll get the inside scoop on how best to build your own training program in your company. You'll explore the hardware and the Camtasia software that'll have you recording professional-level training for your company in no time.

You will learn:

- Explore the recording hardware to buy, as well as the hardware to avoid
- Dig deeply into TechSmith Camtasia as a platform for recording internal training videos
- The secret tips for video editing that greatly speed the production process

TMH11 Starting Your Own Gig: Three Steps to Launching Your Own Business

Intermediate

NICK CAVALANCIA

Thursday, November 16, 2:30 – 3:45pm

Everyone dreams of working for themselves, or some additional way to make money. You know you have the skills, but no idea how to go about starting a business. Sure, you can get a domain name and setup a website, but that won't necessarily bring you customers or drive revenue. So, what does it take to start your own business? This session will help you:

- Decide on your product or service: from MSP to Mary Kay and everything in between
- Build a name for yourself: getting the word out and establishing credibility
- Focus on predictability: building a business that can actually grow

“POWERSHELL SESSIONS THAT I ATTENDED WERE ALL OUTSTANDING, AS WAS SYSINTERVALS. LIKEWISE FOR WINDOWS TROUBLESHOOTING!”

- Wade Altmon, Florida Tech Group

TECHMENTOR SESSION DESCRIPTIONS BY TRACK *(continued)*

Security

Explore how attackers try to defeat your best security measures. Learn how to think like a hacker and prevent the black hats from getting anywhere near your electronic assets. TechMentor has assembled some of the best in the industry to guide sessions on computer forensics, ethical hacking, wireless networking and more.

TMM02 Workshop: Windows Security— How I Do It!

Intermediate

SAMI LAIHO

Monday, November 13, 8:30am – 5:30pm

This workshop is an autobiography to the life of one of the leading Windows Security Experts Sami Laiho. He will show you how he deals with security in small to giant enterprises. Want to know the tricks one expert is hiding up sleeve? Here is a one day consultation that will give you more ROI than you get from probably any one session. No sales pitch or guesses, just real life examples on how to do things.

You will learn:

- How to secure Windows workstations
- How to secure Windows servers
- How to secure Windows domains

TMW03 Bypass Every Security Technology with Social Hacking: A Beginner's Toolkit

Introductory

DALE MEREDITH

Wednesday, November 15, 8:00 – 9:15am

The weakest link is always the user. And it's not only your "standard" user, but also IT staff. By better understanding the art of social engineering, you'll get a better understanding of the types of attacks and methods attackers are using to gain access to your network or worse yet, hold your data for a ransom. This session will cover the four primary emotions attackers use to gain users trust, which eventually leads to the attacker gaining access to your resources.

You will learn:

- Why social engineering works
- About the various methods that attackers are using to social engineer your users
- How to protect yourself and teach your users to protect themselves from this attack vector

TMW06 Pen Testing with PowerShell: Cmdlets That'll Pwn Your Network

Intermediate

DALE MEREDITH

Wednesday, November 15, 9:30 – 10:45am

You know PowerShell is the latest and greatest when it comes to managing your systems, but the real power comes from understanding how attackers can take this framework to create amazing tools and then using these tools against your infrastructure. From discovering and inventorying all your systems to totally owning your systems, they can even bypass your "remote execution policies." This session will cover how to implement your own penetration test against yourself using PowerShell

so you can start to see the new techniques and tools being using against your networks.

You will learn:

- How attackers are using this built-in framework against you
- How to use PowerShell to discover systems
- How to map out domain(s)

TMH05 Weakest Link of Office 365 Security

Intermediate / Advanced

NESTORI SYYNIMAA

Thursday, November 16, 9:30 – 10:45am

The security has always been the most discussed issue in cloud services, such as Office 365. But what are the real security threats related to Office 365? This session will first discuss on Office 365 security in general. Then you'll see demonstrations of various ways one can access others' data in Office 365. You'll also learn show ways how to detect and protect against these exploitation techniques.

You will learn:

- Understand techniques to access others' data in Office 365
- How to detect usage of exploitation techniques
- How to protect against exploitation techniques

TECHMENTOR SESSION DESCRIPTIONS BY TRACK *(continued)*

TMH08 Nine O365 Security Issues Microsoft Probably Has Not Told You (and You Probably Don't Want to Know)

Introductory/ Intermediate

NESTORI SYYNIMAA

Thursday, November 16, 1:00 – 2:15pm

Office 365 has many great features to help organizations ease their day-to-day activities. However, some of these features have security issues not generally known among user organizations. For instance, normal users without any administrative rights can access data not meant for their eyes. This session will raise awareness of security issues associated with some basic Office 365 features. During the session, you will walk through and demonstrate these issues. When possible, you will also introduce mitigation techniques to deal with the issues.

You will learn:

- Understand various security issues of some Office 365 features
- Understand the risk and possible consequences associated with the issues
- The available mitigation techniques for some of the issues

Server / Datacenter

TechMentor's got the info you need to make managing servers easier, more efficient, and definitely more fun. From Windows Core to Nano, join the biggest names covering the most influential server technologies in the industry with sessions in this track.

TMT02 Secure Access Everywhere! Implementing DirectAccess with Windows Server 2016

Intermediate

RICHARD HICKS

Tuesday, November 14, 9:15 – 10:30am

With today's highly mobile workforce, providing secure access regardless of location is essential for maintaining productivity. DirectAccess, a remote access technology included with Windows Server 2016, is a paradigm shift in the way you deliver remote access. DirectAccess provides always-on, seamless and transparent remote access any time a client is connected to the Internet. With DirectAccess, users can access data and applications remotely as if they were in the office. Network communication is protected using IPsec encryption and authenticated using Kerberos, NTLM, and certificates. DirectAccess connectivity is bidirectional, enabling compelling-out capabilities not available with tradition VPN solutions.

You will learn:

- What's new with DirectAccess in Windows Server 2016
- Best practices for security, scalability, and performance
- Considerations for deploying DirectAccess in Azure and Amazon Web Services (AWS)

TMT05 Become a Windows Server 2016 Cluster Master in Five Easy Architectures

Intermediate

GREG SHIELDS

Tuesday, November 14, 1:30 – 2:45pm

Failover Clustering hasn't always been the easiest technology to bring high availability to Windows services. It's only been very recently Windows Failover Clustering has even really gained widespread attention thanks to Hyper-V virtual machines. Even so, implementing the right cluster architecture still isn't a task for mere mortals. Microsoft offers no less than five major architectures for building a Failover Cluster atop Windows Server 2016. Are you using the right configuration?

Greg Shields has been building Windows clusters since their earliest days as Wolfpack Clustering in Windows NT. Join him in this 75-minute exploration of Failover Clustering in Windows Server 2016. With local storage, remote storage, and Storage Spaces Direct as options, you'll learn which of Microsoft's architectures are best for your clustered services.

You will learn:

- The five major architectures in Failover Clustering for Windows Server 2016
- To implement the right configuration based on cluster workload
- Discover the best practices that build a Windows Failover cluster that actually works for your Hyper-V virtual machines and other cluster workloads

TECHMENTOR SESSION DESCRIPTIONS BY TRACK *(continued)*

TMT06 An Absolute Beginners Guide to Storage Spaces Direct (S2D)

Introductory

DAVE KAWULA

Tuesday, November 14, 1:30 – 2:45pm

In this session, you'll learn everything you need to know about Microsoft Hyper Converged Storage Solution called Storage Spaces Direct (S2D). This session will cover all of the key concepts required to build your own S2D environment. You'll see a live environment built out and configured in both Windows Server 2016 GUI and Nano Server. S2D is the new storage foundation in your data center and this session is one that you will surely enjoy.

You will learn:

- Windows Server 2016 Feature First Hand
- How to Manage Virtualization Environments with PowerShell
- Enough knowledge to start building Windows Server 2016 Storage yourself

TMT11 Fast Focus: Preparing for the Windows Server 2016 MCSA—The Expert Tips

Introductory / Intermediate

GREG SHIELDS

Tuesday, November 14, 4:40 – 5:00pm

Easily, one of the most difficult parts of starting with IT certification is knowing where to start. Certifying your knowledge on Microsoft technologies has only gotten more difficult over the years, as Microsoft learns how to ask more-difficult questions and the sheer number of technologies to know goes up. Greg Shields has spent a lifetime getting to know Microsoft certification. In that time, he's taken countless exams and built hundreds

of hours of video training to help countless more. Join him in this 20-minute fast focus on not-entirely secret knowledge that'll GUARANTEE* your success with Microsoft certification.

** Disclaimer: Guarantee not actually guaranteed. Your mileage may vary, particularly if you choose the wrong multiple choice answer.*

You will learn:

- Explore the broad strokes and deep detail of Microsoft's certification platform, tailored specifically to the needs of the potential test-taker
- Learn the best practices for taking a Microsoft certification exam, along with the question types and tips to read between the lines
- Discover the important tips for deciphering the meaning in Microsoft's exam guides and objectives

TMW11 Putting the Windows Assessment and Deployment Kit to Work

Introductory/ Intermediate

JOHN O'NEILL, SR.

Wednesday, November 15, 4:00 – 5:15pm

The Windows Assessment and Deployment Kit is practically as old as Windows itself, yet many are unsure how to leverage this powerful toolkit. From user migrations to deployment image management, the ADK can save overworked IT Pros time and effort. This session will cover what the ADK is and how to put its tools to work for you.

You will learn:

- About the ADK and when to use its different versions
- About the free tools to convert from/to VHD, VHDx, and VMDK formats
- About performing a user migration with USMT
- About creating a Provisioning Package with WCD

TMH12 In-Depth Introduction to Docker

Intermediate / Advanced

NEIL PETERSON

Thursday, November 16, 2:30 – 3:45pm

Not often is a new piece of technology so quickly embraced and at such a scale as Docker. Docker is seemingly re-writing the future of application development, bringing with this big potential change for datacenter and cloud management. This session will discuss and demonstrate Docker, and related technology, from A to Z. The session will start with a briefing on containers themselves, and then work through container networking, clustering, and scale management. This session will appeal to both developer and infrastructure engineer looking to begin a technical ramp up in container technology.

You will learn:

- Insight into what Docker is and what it is so important
- To quickly deploy and begin using Docker
- To deploy applications into Docker containers

TECHMENTOR SESSION DESCRIPTIONS BY TRACK *(continued)*

The Real Cloud

At TechMentor, we leave the marketing presentations at home. Replacing them are real-world discussion on “the cloud” as you’re actually using it—hybrid, connected, private, and absolutely real.

TMM01 Workshop: Learn the latest and Greatest Updates to the Azure Platform IaaS and PaaS Services

Intermediate / Advanced

PETER DE TENDER

Monday, November 13, 8:30am – 5:30pm

Learn the latest and greatest updates to the Azure Platform IaaS and PaaS services, bringing you all the required knowledge to start architecting and deploying Azure resources as soon as you are back in the office, with confidence. For this session, you should be familiar with Azure concepts already, or have experience in using Azure Service Manager and are eager to learn what Azure Resource Manager has to offer. Content is targeted to IT Pros, Architects, and Developers who are interested in a good combination of architect-to-architect knowledge sharing and doing hands-on labs.

You will learn:

- Best practices of Azure subscriptions and how to configure the right access roles
- About architecting and deploying Azure VMs, storage and complex network solutions
- Understanding Azure Disaster Recovery and High Availability solutions
- Implementing Azure Identity and enabling Single Sign-On to SaaS applications
- Deploying Azure Applications Services
- Overview of the different Azure Monitoring tools available today
- DevOps concepts in an Azure world, aka Infrastructure as Code

Contents/Topics covered in the workshop:

- Azure subscriptions, Role Based Access Control, Azure Resource Policies
- Azure VMs, Azure Storage Overview, Availability Sets
- ARM Template design & deployment using Visual Studio / Visual Studio Code
- Azure Active Directory, Azure AD Connect, Azure Application Access Panel
- Azure Web Sites and Azure Mobile Services
- Operations Management Suite, Application Insights, Azure Monitor

TMT03 Learn What It Takes to Build a Cockpit Alike View for Monitoring all of Your Azure Resources

Intermediate / Advanced

PETER DE TENDER

Tuesday, November 14, 9:15 – 10:30am

With partners and customers deploying more and more Azure components, both IAAS and PAAS, in a pure Azure cloud or hybrid approach, requires having decent monitoring capabilities at their disposal. In this session, you will learn how to interconnect existing Azure monitoring solutions to an F-16-alike cockpit view; letting you monitor all of your Azure Resources leveraging on the power of Operations Management Suite (OMS) Log Analytics and Application Insights, spiced up with a pinch of PowerBI and some custom Azure dashboard.

You will learn:

- The architectural side and feature possibilities of Operations Management Suite, for monitoring your IT Infrastructure end-to-end
- The powers of Application Insights, providing you detailed metrics of your in-Azure deployed applications
- How to build custom Azure portal views by integrating Operations Management Suite, Azure Application Insights and Azure monitor with PowerBI, and feel like a Jet fighter pilot in an F16 Cockpit

TMT14 Fast Focus: Recovering Your On-premises Workloads to Azure in 20 minutes—with Nothing But Demos

Intermediate

PETER DE TENDER

Tuesday, November 14, 5:10 – 5:30pm

In this session, learn from Peter De Tender, Microsoft Cloud Solution Architect / Microsoft Certified Trainer / Azure MVP (2013-2015) and passionate speaker, what it takes to architect and deploy a rock-solid disaster recovery solution for your application servers, using Azure Site Recovery (ASR). Whether these servers are running on-premises as physical servers, Hyper-V VMs or in Amazon AWS. This demo-only session walks you through the architecture, deployment, troubleshooting and best practices sides of Azure Site Recovery. And common in Peter’s presentations, he will share his deep-technical knowledge in a passionate and fun way.

You will learn:

- The architectural side of building an Azure Site Recovery solution and where it fits in your IT Infrastructure. Learn how current typical disaster recovery solutions are a thing of the past, because they are too complex to deploy, too complex to manage, too expensive
- Experience the deployment of ASR to replicate from Hyper-V VMs and Amazon AWS VMs, see a failover in action and monitor the full process. By building a custom protection plan, you will also see a fallback in action once the primary site is back up and running
- Grasp the passion and enthusiasm from Peter’s demo’s to go back to the office and deploy ASR in your own environment. Azure deployment scripts to speed up this process will be shared by Peter too

TECHMENTOR SESSION DESCRIPTIONS BY TRACK *(continued)*

TMW12 Controlling Your Azure Spend

Introductory / Intermediate

TIMOTHY WARNER

Wednesday, November 15, 4:00 – 5:15pm

You never want to get a “surprise” bill at the end of the month from Microsoft Azure. This session will show you where to go, what to look for, and how to set controls on your Azure spend. You’ll leave this session with full visibility of your Azure subscription and how you use Azure resources.

You will learn:

- Where to go in the Azure Portal to visualize your spending details
- How to protect yourself against unexpected charges
- How to accurately forecast future use

TMH01 Fully Integrated Azure Resource Manager Deployments

Introductory/ Intermediate

NEIL PETERSON

Thursday, November 16, 8:00 – 9:15am

Azure has gone through some changes over the last 18 months. What was once a Microsoft centric cloud computing platform, a simple portal, and PowerShell module, has evolved into a cross platform, fully automated, cloud powerhouse. An area of concentrated evolution has been Azure Resource Manager (ARM). ARM is the new controlling platform for deploying Azure Resources such as virtual machines, storage accounts, and networking assets. That’s said, it is so much more than a simple deployment engine. ARM Allows for repeatable deployments of complex infrastructure and application configurations.

This session will dive into a fully integrated ARM deployment. Starting with a simple virtual machine, working our way towards a highly available, load balanced application, complete with backup automation, and full application monitoring. All of this wrapped into one ARM deployment. This session will cover a range

of Azure topics such as Azure Virtual Machine, Azure Virtual Machine Extensions, Azure Automation, and the Operations Management Suite, and will show how these the services can become integrated through ARM deployments.

You will learn:

- How to build Azure Resource Manager Templates
- Envision complete Azure solutions and understand deployment options
- Integrate the different services of Azure and OMS through Resource Manager deployments

TMH04 Automating Azure with PowerShell—Beyond the Azure PowerShell Module

Intermediate / Advanced

NEIL PETERSON

Thursday, November 16, 9:30 – 10:45am

Azure and PowerShell are big deals, no question about it. However, are you aware the PowerShell capability in Azure extends well beyond what you can perform with the Azure PowerShell module? This session will detail the many ways in which you can engage with Azure and Azure virtual machines using PowerShell. You see demonstrations of the following features:

- Azure PowerShell Module
- Azure VM DSC extensions
- Azure VM Custom Script Extension
- Azure Automation

This session will quickly ramp you up on everything you need in order to select and use one or many options for Azure VM automation and configuration using PowerShell.

You will learn:

- A practical understanding of the many ways to use PowerShell with Azure
- Understand when and how to use each PowerShell option in Azure
- Prepare yourself to automate anything in Azure with PowerShell

TMH07 Moving from Active Directory to Azure Active Directory Quick Wins and Common Challenges

Intermediate / Advanced

TAREK DAWOUD & MARK MOROWCZYNSKI

Thursday, November 16, 1:00 – 2:15pm

Azure Active Directory is quickly becoming one of the most used cloud directories for business. In this session, you will learn some of the key reasons and benefits of moving to Azure Active Directory Premium, some quick deployment wins, and discuss some real-world challenges with moving identity to the cloud.

You will learn:

- The differences between Active Directory and Azure Active Directory
- Key benefits and mistakes to avoid when moving to Azure Active Directory Premium
- Five deployment wins that are low risk and high reward

TMH10 Deep Dive on SaaS Apps with Azure Active Directory

Intermediate / Advanced

TAREK DAWOUD & MARK MOROWCZYNSKI

Thursday, November 16, 2:30 – 3:45pm

This will be a thorough discussion of how identity federation protocols work, specifically SAML and OpenID Connect. Learn how to configure and deploy SaaS Applications in Azure Active Directory using best practices. You’ll see demonstrations of the proper tools to troubleshoot SaaS App issues.

You will learn:

- A detailed understanding of the identity federation protocols
- Common SaaS App deployment practices
- How to use tools to debug common SaaS App issues.

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AGENDA AT-A-GLANCE

SharePoint On-Premises Infrastructure Management and Administration	SharePoint, Office 365 and the Cloud	High-Value SharePoint Workloads: Social, Search, BI, Workflow, and Business Process Automation	Developing for Office, Office 365 and SharePoint	Information and Content Management: Documents, Records, and Web
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START TIME	END TIME	NEW! Office & SharePoint Live! Full Day Hands-On Labs: Sun, November 12, 2017 (additional fee applies)	
9:00 AM	6:00 PM	OSS01 Full Day Hands-On Lab: Search Managers 101 - Agnes Molnar	OSS02 Full Day Hands-On Lab: Developing Extensions for Microsoft Teams - Paul Schaefflein
2:00 PM	7:00 PM	Pre-Conference Registration	
START TIME	END TIME	Office & SharePoint Live! Pre-Conference Workshops: Monday, November 13, 2017	
8:30 AM	5:30 PM	OSM01 Workshop: Configuring Hybrid Workloads for Office 365 & SharePoint - Matthew McDermott	OSM02 Workshop: Mastering the SharePoint Framework - Andrew Connell
6:30 PM	8:00 PM	Dine-A-Round Dinner @ Universal CityWalk	
START TIME	END TIME	Office & SharePoint Live! Day 1: Tuesday, November 14, 2017	
8:00 AM	9:00 AM	OFFICE & SHAREPOINT LIVE! KEYNOTE: Office 365 Intelligence Transforming Productivity - Yina Arenas, Principal Program Manager Lead, Microsoft	
9:15 AM	10:30 AM	OST01 "Quick Win" Features vs. Long Term Strategy in Search - Agnes Molnar	OST02 TypeScript for SharePoint Developers - Rob Windsor
10:30 AM	11:00 AM	Networking Break • Visit the EXPO	
11:00 AM	12:00 PM	LIVE! 360 KEYNOTE: Lessons Learned Doing DevOps at Microsoft at Scale - Buck Hodges, Director of Engineering, Visual Studio Team Services, Microsoft	
12:00 PM	12:45 PM	Lunch • Visit the EXPO	
12:45 PM	1:30 PM	Dessert Break • Visit the EXPO	
1:30 PM	2:45 PM	OST03 Managing and Configuring Office 365 Identity - Scott Hoag	OST04 To Be Announced
2:45 PM	3:15 PM	Networking Break • Visit the EXPO	
3:15 PM	4:30 PM	OST05 Intelligent Insights and Collaboration in Office 365 - Agnes Molnar	OST06 To Be Announced - Yina Arenas
4:40 PM	5:00 PM	OST07 Fast Focus: 5 Query Rules Every SharePoint Pro Should Know - Matthew McDermott	OST08 Fast Focus: Using Features to Provision Assets in SharePoint Framework Solutions - Rob Windsor
5:10 PM	5:30 PM	OST09 Fast Focus: The 5 PowerShell Tricks for SharePoint You NEED to Know - Ben Stegink	OST10 Fast Focus: SharePoint Developers Sound Off - Andrew Connell

Sessions and speakers subject to change.

Continued next page

AGENDA AT-A-GLANCE (continued)

SharePoint On-Premises Infrastructure Management and Administration	SharePoint, Office 365 and the Cloud	High-Value SharePoint Workloads: Social, Search, BI, Workflow, and Business Process Automation	Developing for Office, Office 365 and SharePoint	Information and Content Management: Documents, Records, and Web
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START TIME	END TIME	Office & SharePoint Live! Day 2: Wednesday, November 15, 2017	
5:30 PM	7:30 PM	Exhibitor Reception	
8:00 AM	9:15 AM	OSW01 What Every IT Pro Needs to Know About SharePoint On-Premises - <i>Robert Bogue</i>	OSW02 Building Office Add-ins for Outlook with Angular - <i>Andrew Connell</i>
9:30 AM	10:45 AM	OSW03 What Every IT Pro Needs to Know About SharePoint Online - <i>Robert Bogue</i>	OSW04 Introduction to the SharePoint Client Object Model and REST API - <i>Rob Windsor</i>
10:45 AM	11:30 AM	Networking Break • Visit the EXPO	
11:30 AM	12:30 PM	LIVE! 360 PANEL: Industry Trends, Technology, and Your Career Matt Lockhart, Michael Aaron, Martin Leifker, Francois Charette	
12:30 PM	1:30 PM	Birds-of-a-Feather Lunch	
1:30 PM	2:00 PM	Dessert Break • Visit the EXPO	
2:00 PM	3:15 PM	OSW05 Managing Office 365 Groups in Office 365 - <i>Scott Hoag</i>	OSW06 Developing with the SharePoint Framework: Web Parts & Customizing the UI - <i>Andrew Connell</i>
3:15 PM	4:00 PM	Networking Break • Visit the EXPO • Expo Raffle	
4:00 PM	5:15 PM	OSW07 Upgrade to SharePoint 2016 - <i>Matthew McDermott</i>	OSW08 Developing SharePoint Framework Components Using Visual Studio - <i>Paul Schaefflein</i>

Sessions and speakers subject to change.

Continued next page

"I BRING MY CHILDREN TO DISNEY. THIS IS MY FAVORITE LOCATION."

- Shannon Tackett, MFG

AGENDA AT-A-GLANCE (continued)

SharePoint On-Premises Infrastructure Management and Administration		SharePoint, Office 365 and the Cloud		High-Value SharePoint Workloads: Social, Search, BI, Workflow, and Business Process Automation		Developing for Office, Office 365 and SharePoint		Information and Content Management: Documents, Records, and Web	
8:00 PM	10:00 PM	Live! 360 Dessert Luau							
START TIME		END TIME		Office & SharePoint Live! Day 3: Thursday, November 16, 2017					
8:00 AM	9:15 AM	OSH01 What Every Developer Needs to Know about SharePoint Development Online or On-Prem - Robert Bogue			OSH02 Feel the Flow—Adding your Custom API to Microsoft Flow - Paul Schaefflein				
9:30 AM	10:45 AM	OSH03 Office 365 and Hybrid Solutions—What Works for My Organization? - Scott Hoag			OSH04 BI for the Cobbler's Children: JavaScript Charting and Graphing - Julie Turner				
11:00 AM	12:00 PM	OFFICE & SHAREPOINT PANEL: Adapting to & Embracing the Cloud First Office World - Andrew Connell (Moderator), Scott Hoag, Brian Pendergrass, Paul Schaefflein, Julie Turner, Rob Windsor							
12:00 PM	1:00 PM	Lunch on the Lanai							
1:00 PM	2:15 PM	OSH05 All about PowerShell for SharePoint - Ben Stegink			OSH06 Introduction to the Office Dev PnP Core Libraries - Rob Windsor				
2:30 PM	3:45 PM	OSH07 SharePoint Cloud Hybrid Search—A Field Guide to Effective Planning and Deployments - Brian Pendergrass			OSH08 Build a Complete Business Solution Using Microsoft Graph API through Client Side Web Parts - Julie Turner				
4:00 PM	5:00 PM	Next? Office & SharePoint Live! Networking Event - Andrew Connell (Moderator), Scott Hoag, Brian Pendergrass, Paul Schaefflein, Julie Turner, Rob Windsor							
START TIME		END TIME		Office & SharePoint Live! Post-Con Workshops: Friday, November 17, 2017					
8:00 AM	5:00 PM	OSF01 Workshop: Deploying Office 365: Soup to Nuts - Ben Stegink & Scott Hoag							

Sessions and speakers subject to change.

"I LIKED THAT THERE WAS TIME FOR QUESTIONS DURING, AFTER, AND BEFORE THE SESSIONS."

- David Bliss, Nexteer Automotive

OFFICE & SHAREPOINT LIVE! SESSION DESCRIPTIONS BY TRACK

NEW!

Full Day Hands-On Labs



New to Live! 360 Orlando, these instructor-led, pre-conference Hands-On Labs offer attendees intensive in-depth training before the conference officially begins. Choose from eight extended 8-hour labs and take advantage of in-person instruction as well as collaboration with peers.

Attendance for each Hands-On Lab is limited, so be sure to sign up early for these special bring your own laptop pre-conference HOLs.

(Additional fee required. See [pricing page](#) for details.)

OSS01- Full Day Hands-On Lab: Search Managers 101

Introductory / Intermediate

AGNES MOLNAR

Sunday, November 12, 9:00am – 6:00pm

You've just been given the responsibility for search at your organization—what's next?

Perhaps there is a new initiative to improve search, or perhaps the previous search manager mysteriously disappeared; in any case, you've discovered that search is a deceptively tricky domain, and that the expectations of many of your stakeholders are difficult to meet or even to define.

This hands-on lab workshop will provide an orientation and exposure to the key issues, effective processes, and technology. Agnes will provide lay-of-the-land information and approaches to get you off to a good start.

You will learn:

- How to get started and where to find practical guidance in search management

- What kind of tasks and roles are involved in managing search; ways to build a cross-functional team
- How to assess the current state of search at your organization, establish a vision, and create a findability strategy
- How to get stakeholders together and constructively involved; discovering and managing expectations
- The top misconceptions about search and how to educate your organization (without whining)
- "Layers of the onion": the top 5 and next 5 tools and techniques for improving search
- Approaches for planning and managing updates and improvements
- Measuring search: KPIs, tools, and techniques for internal search engine optimization

Attendee Requirements:

You must provide your own laptop computer for this hands-on lab.

- Required software installed before arriving:
- SharePoint Designer 2013

Web browser which supports SharePoint 2016 and Office 365 (Microsoft Edge, IE10+, Google Chrome or Mozilla Firefox)

OSS02 Full Day Hands-On Lab: Developing Extensions for Microsoft Teams

Intermediate

PAUL SCHAEFLEIN

Sunday, November 12, 9:00am – 6:00pm

Microsoft Teams is a chat-based conversation tool, that contains everything your team needs to keep in touch. You can extend Teams by building Bots and Connectors, as well as extending the user interface with custom Tabs. The Teams extensibility options allow developers to bring their application to the place that users are already interacting. No need for switching between windows and multiple sign-ins. This Hands-On Lab will provide the opportunity to learn about and build each of these

types of extensions. In addition, the modules will cover authentication and integration techniques.

Attendee Requirements:

You must provide your own laptop computer for this hands-on lab.

Teams extensibility requires that the attendee have an Office 365 Tenant with Teams enabled. Visit <https://dev.office.com/devprogram> to learn how to get a developer tenant. Also recommended is an Azure Subscription. Visit <https://azure.microsoft.com/en-us/free/> to learn more about a free Azure subscription.

"THE SESSIONS ON SHAREPOINT, JAVASCRIPT AND ANGULAR JS WERE THE MOST HELPFUL TO ME!"

*- Alexander Toro,
School District of Palm Beach County*

OFFICE & SHAREPOINT LIVE! SESSION DESCRIPTIONS BY TRACK *(continued)*

SharePoint On-Premises Infrastructure Management and Administration

It's a complex stack of technologies that comprise SharePoint services. From SQL Server and Active Directory to DNS and SharePoint itself, the myriad moving parts can challenge even the most intrepid IT pros. These technologies become even more complex when you add public and hybrid cloud scenarios, including Office 365 and Microsoft Azure IaaS. The sessions in this track are geared primarily to IT pros and DBAs. The first-class speakers will guide you through the nuances of SharePoint infrastructure management and administration "on-prem" and will equip you to effectively deploy and support SharePoint, with both GUI and PowerShell methodologies.

OSW01 What Every IT Pro Needs to Know About SharePoint On-Premises

Introductory / Intermediate

ROBERT BOGUE

Wednesday, November 15, 8:00 – 9:15am

SharePoint is a complex product. In this session, we'll do a quick flyover of the important points that you'll need to consider if you or your organization is planning on implementing SharePoint. Whether you're planning on a simple installation for one particular need or you're looking for a new information management platform, you'll learn what you need to know to speak intelligently about SharePoint On-premises

You will learn:

- The requirements for setting up fault tolerant configurations
- How to address authentication issues

- How SharePoint Add-Ins are configured (and why they're sometimes called Apps)
- Fundamentals of SharePoint search

OSW07 Upgrade to SharePoint 2016

Intermediate

MATTHEW MCDERMOTT

Wednesday, November 15, 4:00 – 5:15pm

Are you planning or evaluating a SharePoint 2016 Upgrade? This presentation provides a discussion and demos that walk through many issues that you may encounter during a typical upgrade. Taught by a veteran SharePoint consultant who has successfully upgraded many farms, this course is taught from the perspective of avoiding the many possible issues you may encounter and understanding the risks involved.

You will learn:

- If you should upgrade
- About upgrade Planning
- About 2013 Farm Survey
- About Service Application Upgrade
- About Content Upgrade

OSH05 All about PowerShell for SharePoint

Intermediate

BEN STEGINK

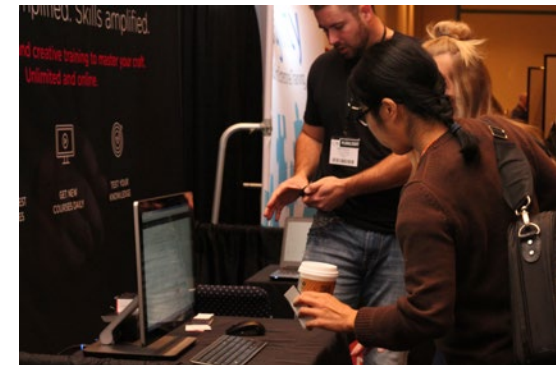
Thursday, November 16, 1:00 – 2:15pm

This session will be all about writing PowerShell for SharePoint. It will cover both SharePoint Online and SharePoint On-Premises. We'll go over the difference between the two platforms when it comes to PowerShell so you'll be comfortable to start writing PowerShell against either platform. We'll also look at how you can leverage PowerShell to automate tasks and make broad change across your environment that may impact multiple sites. Ben will provide some examples of instances where spending time writing a PowerShell

script has enabled him to save time in the long run, or provide valuable information to the business. To conclude the session, he will also provide a brief example of how you can leverage PowerShell report and to gain insights about SharePoint that aren't available in the GUI.

You will learn:

- The difference between PowerShell for SharePoint Online and SharePoint On-Premises
- Why you would want to automate SharePoint tasks with PowerShell
- Administrative tasks that can be simplified and performed quicker with PowerShell



OFFICE & SHAREPOINT LIVE! SESSION DESCRIPTIONS BY TRACK *(continued)*

SharePoint, Office 365 and the Cloud

There's no doubt the cloud will play a role in one or more SharePoint workloads in your future. The cloud, though, is appropriately nebulous. It's online, in public forms like Office 365 and in private, dedicated offerings, including Microsoft Azure IaaS (Virtual Machines). It's onsite, in clouds provided by third parties, and in your own, on-premises data centers. It's crucial you understand the variety of options available in "the cloud," so you can align your business needs with the best solution. You must understand how to architect SharePoint 2016 to scale efficiently to the cloud. As an IT pro, you must be able to configure SharePoint in the cloud. As a developer, you must adapt to the new APIs and models of development in Office 365 and Azure. And as a business user or leader, you must guide your organization in making the right choice for each workload. Join the elite presenters for invaluable, first-hand guidance and insight.

OSM01 Workshop: Configuring Hybrid Workloads for Office 365 & SharePoint

Intermediate

MATTHEW MCDERMOTT

Monday, November 13, 8:30am – 5:30pm

Are you interested in how SharePoint Hybrid can benefit your company? This workshop will detail the prerequisites for SharePoint Hybrid configuration and clarify the SharePoint hybrid workloads. Through many demonstrations, this workshop will step through the phases of configuration for hybrid connections to Office 365 and present options for managing the hybrid configuration.

You will learn:

- The hybrid workloads and prerequisites
- What is required for Single Sign-On and Directory Synchronization
- Configuring the hybrid workloads
- OneDrive
- Sites
- Search
- Unified Managed Metadata
- Unified Auditing
- Additional Configuration for Hybrid Workloads

OST03 Managing and Configuring Office 365 Identity

Introductory / Intermediate

SCOTT HOAG

Tuesday, November 14, 1:30 – 2:45pm

Office 365 Groups have become a foundational service in Office 365 and offer connectivity between Exchange Online, SharePoint Online, Yammer, Planner, Microsoft Teams and more. As groups continue to become more prevalent, you'll want to make sure you have a plan to govern existing groups, provide guidance to users creating new groups, plan for external access to Groups, and even automate Group membership.

In this session, we'll review how Groups are created and how they differ from Exchange Distribution Groups, how to manage Groups through both the Office 365 Admin Portal and PowerShell, and how you can leverage additional services in Office 365 such as Dynamic Security Groups to take your usage of Office 365 Groups to the next level.

You will learn:

- How to manage Groups in Office 365 through both the Admin Portal and through automation
- How to configure Office 365 tenancy to meet the organizations needs and policies for Groups creation
- How Groups compare to existing workloads in Office 365

OSW03 What Every IT Pro Needs to Know About SharePoint Online

Introductory / Intermediate

ROBERT BOGUE

Wednesday, November 15, 9:30 – 10:45am

SharePoint Online is a great alternative to an on-premises deployment but it's not without its challenges. In this session you'll learn what you'll need to do to setup a new Office 365 tenant and get SharePoint Online up and running.

You will learn:

- How to create and configure an Office 365 tenant
- How to connect your DNS domain name to the Office 365 tenant
- How to configure external sharing
- How to manage directory synchronization to Office 365
- How to manage authentication with Office 365

OSW05 Managing Office 365 Groups in Office 365

Introductory / Intermediate

SCOTT HOAG

Wednesday, November 15, 2:00 – 3:15pm

Office 365 Groups have become a foundational service in Office 365 and offer connectivity between Exchange Online, SharePoint Online, Yammer, Planner, Microsoft Teams and more. As groups continue to become more prevalent, you'll want to make sure you have a plan to govern existing groups, provide guidance to users creating new groups, plan for external access to Groups, and even automate Group membership.

In this session, we'll review how Groups are created and how they differ from Exchange Distribution Groups, how to manage Groups through both the Office 365 Admin Portal and PowerShell, and how you can leverage additional services in Office 365 such as Dynamic Security Groups to take your usage of Office 365 Groups to the next level.

OFFICE & SHAREPOINT LIVE! SESSION DESCRIPTIONS BY TRACK *(continued)*

You will learn:

- How to manage Groups in Office 365 through both the Admin Portal and through automation
- How to configure their Office 365 tenancy to meet the organizations needs and policies for
- Groups creation, and how Groups compare to existing workloads in Office 365

OSH03 Office 365 and Hybrid Solutions—What Works for My Organization?

Introductory / Intermediate

SCOTT HOAG

Thursday, November 16, 9:30 – 10:45am

Going to The Cloud(tm) doesn't mean we need to start over. Organizations big and small can leverage Office 365 with their on-premises systems, gaining the agility of a hosted solution that is always up-to-date while adhering to your current policies for compliance and security. If you've ever heard the term "Hybrid SharePoint", but want to understand what it really means and what you can really do with it when it comes to Office 365 and SharePoint Online, this is the session for you. We'll walk through the Hybrid models and the advantages and disadvantages of each.

In this session, we'll discuss the various aspects of why an organization may wish to stay in a hybrid solution with both on-premises and cloud hosted solutions that are integrated with one another.

You will learn:

- How to integrate your on-premises SharePoint deployments with Office 365 and SharePoint Online for Search, Taxonomy, OneDrive for Business, app launcher extensibility, and more
- An understanding of how Office 365 identity impacts hybrid deployments and best practices for ensuring consistent access to both on-premises and Office 365 hosted workloads

OSF01 Workshop: Deploying Office 365: Soup to Nuts

Intermediate

BEN STEGINK & SCOTT HOAG

Friday, November 17, 8:00am – 5:00pm

In this workshop, you'll learn everything you may possibly need know about deploying Office 365 to your organization (or at least almost everything). Maybe you're just considering Office 365 for your organization. Or maybe you're part way through your deployment. Maybe you've even rolled it out and just want to learn about what's new or ask questions about something your struggling with, this session is for you. We'll cover topics ranging from standing up a brand-new Office 365 tenant to Exchange migrations. We'll cover deploying Office 365 ProPlus to you end users, as well as how to configure Azure AD Connect and ADFS. As we go through these topics it won't just be slides, we'll have lots of demos that involve both the GUI as well as PowerShell. We'll also talk about our experience both deploying as well as maintaining Office 365 within various organizations best practices as well as pitfalls to avoid. This will be a workshop with a ton of great content and you'll walk away with a solid base of knowledge about all things Office 365.

You will learn:

- How to stand up a brand-new Office 365 tenant
- How to configure the Office 365 Services: Exchange, SharePoint, Skype for Business, Microsoft Teams, Office 365 Video Portal, Azure AD Connect and ADFS, Office 365 ProPlus, Planner and any other Office 365 Service

High-Value SharePoint Workloads: Social, Search, BI, Workflow, and Business Process Automation

SharePoint is more than just a collaboration application. It's a platform upon which you can build business intelligence and business process automation. It helps your users find content, people, and answers through both traditional, search-based approaches; as well as modern social behavioral approaches. These high-value workloads require careful planning, architecture, and implementation. Join one of the most notable industry experts to learn just how to build BI, BPA, search, and enterprise social solutions with SharePoint 2016 and Office 365.

OST01 "Quick Win" Features vs. Long Term Strategy in Search

Introductory / Intermediate

AGNES MOLNAR

Tuesday, November 14, 9:15 – 10:30am

Many organizations want to have "quick win" in search: they want to "implement changes or enhancements that require minimal effort to drive business value associated with Search in the short term".

On the other hand, Search has to be the part of the company's business strategy and roadmap, to maximize its long-term business value and benefits.

In this session, Agnes will provide practical guidance on where to invest your time and resources. For long-term planning, she'll provide an overview of industry trends and how to establish a value proposition and sell to the business.

OFFICE & SHAREPOINT LIVE! SESSION DESCRIPTIONS BY TRACK *(continued)*

For your short-term benefits, we will set up a five-step action plan which you can implement immediately.

You will learn:

- Practical, step-by-step guidance
- An overview of industry trends and how to apply them in practice
- Five immediate steps to be applied

OST05 Intelligent Insights and Collaboration in Office 365

Introductory / Intermediate

AGNES MOLNAR

Tuesday, November 14, 3:15 – 4:30pm

In today's demanding business climate, it is common for people to get overwhelmed by the ever-growing volume of data and information. In Office 365, Office Graph, Machine Learning (ML) techniques provide new-wave intelligent insights. Microsoft is modernizing the search experience, making it more personal, more intelligent and more consistent across entry points. These features make it possible not only to search and re-act, but also, pro-actively find and discover content.

This session will cover the new intelligent insight capabilities, improvements to search relevance and performance, as well as new productivity scenarios.

You will learn:

- An overview of Search experiences ("islands") in Office 365
- Intelligent insights and the value provided by them
- Productivity scenarios

OSH07 SharePoint Cloud Hybrid Search—A Field Guide to Effective Planning and Deployments

Intermediate

BRIAN PENDERGRASS

Thursday, November 16, 2:30 – 3:45pm

Cloud Hybrid Search enables a powerful abstraction layer for your content spread across Office 365 and on-premises – just one place to search for it all. In this session, we'll peel back a layer from any existing documentation to share the lessons learned from the field and help you learn how to avoid common pitfalls or gotchas when deploying the Cloud Search Service Application. Through this, we'll cover planning/onboarding considerations, HA vs DR, operational monitoring, the mechanics behind queries (including security trimming), common blockers, and FAQs.

Developing for Office, Office 365, and SharePoint

This track is for developers only. The sessions focus on tools and methodologies for developing in SharePoint and Office 365. Expert speakers will lead you through patterns and practices, highlighting the capabilities of various development tools and addressing important considerations including application lifecycle management and the future of the cloud app model versus full-trust solutions. You'll find high-value sessions throughout this track.

OSM02 Workshop: Mastering the SharePoint Framework

Introductory / Intermediate

ANDREW CONNELL

Monday, November 13, 8:30am – 5:30pm

The new way Microsoft wants us to customize and extend SharePoint is to use the SharePoint Framework. This model brings client-side development as a first-class development model complete with packaging, deployment and real a full deployment lifecycle. But this model is very different from what traditional SharePoint developers have been used to.

In this workshop, you will learn what the SharePoint Framework is all about, what is involved in getting your environment setup to be productive and how to build custom components. We will go from using no web frameworks to leveraging React, Angular, Vue.js and even implement automated testing for robust and reliable components for your SharePoint deployment. By the end of the day, you will be well on your way to being a SharePoint Framework Master!

OFFICE & SHAREPOINT LIVE! SESSION DESCRIPTIONS BY TRACK *(continued)*

OST02 TypeScript for SharePoint Developers

Intermediate

ROB WINDSOR

Tuesday, November 14, 9:15 – 10:30am

TypeScript is a new language and toolset designed to make JavaScript coding feel more familiar to developers used to working with statically-typed languages. TypeScript is a typed superset of JavaScript that compiles to plain JavaScript. TypeScript adds optional static types, classes, and modules to JavaScript to enable great tooling and better structuring of large JavaScript applications. This session introduces TypeScript and shows how it can be used in SharePoint Apps and Solutions.

You will learn:

- About TypeScript
- Basic use of TypeScript
- How to use TypeScript with SharePoint

OST06 – Microsoft Graph—All You Need to Know to Get Started and Become a Rockstar Office 365 Dev

Introductory to Intermediate

YINA ARENAS

Principal Program Manager Lead, Microsoft

Tuesday, November 14, 3:15 – 4:30pm

The Microsoft Graph is the gateway to Office 365 and Microsoft cloud data, insights and rich relationships. It is the easiest way to integrate with user's data and build smarter and contextual aware applications that leverage the power of Office. Join this session to learn how easy it is to use the Microsoft Graph to build apps that access data from the consumer cloud and the commercial cloud using a single code base. Learn about the latest features and become a rockstar Office 365 developer.

OSW02 Building Office Add-ins for Outlook with Angular

4 Intermediate

ANDREW CONNELL

Wednesday, November 15, 8:00 – 9:15am

Microsoft Office clients, from Outlook to Excel, Word, PowerPoint and even OneNote support an extensibility option. Developers can build add-ins which are web applications that can reach into, be called and interact with the hosting Office client application. In this session, you will learn how you can use the latest version of Angular to create custom add-ins for Outlook. These add-ins will work wherever you use Outlook, from Windows, to MacOS to the web client or even mobile clients. The techniques and skills learned in this session can be used to also create add-ins for Microsoft Word, Excel, PowerPoint and OneNote.

You will learn:

- How to build Office Add-ins
- How to use Angular to build Office Add-ins

OSW04 Introduction to the SharePoint Client Object Model and REST API

Intermediate

ROB WINDSOR

Wednesday, November 15, 9:30 – 10:45am

As Microsoft was releasing SharePoint 2013 it was pretty clear that they were steering people away from using the product as a portal to using it as a gateway to external systems and services. Since the Server Object Model cannot be used remotely, developers building these external systems will need to become familiar with the Client Object Model (CSOM) and/or the REST API if they want to communicate with SharePoint. This session will introduce these two APIs, give a brief overview of their history, and then show you how to get started using them through a series of demonstrations.

You will learn:

- How to use the Client Object Model
- How to use the REST API
- About the relative strengths and weaknesses of the two APIs

OSW06 Developing with the SharePoint Framework: Web Parts & Customizing the UI

Level?

ANDREW CONNELL

Wednesday, November 15, 2:00 – 3:15pm

Microsoft has extended the SharePoint Framework from the initial release of introducing client-side web parts to provide ways to extend the user experience. These new additions enable customizations available in previous development model options in SharePoint. In this demo-heavy session you will learn how create client-side web parts, command sets (what you knew as custom actions), field customizers (what you knew as JSLink) and application customizers (which are similar to what you knew as delegate controls). You will see how to use the SharePoint Framework to not just deploy client-side web parts, but also extend the SharePoint user experience with these new capabilities!

OSW08 Developing SharePoint Framework Components Using Visual Studio

Intermediate

PAUL SCHAEFLEIN

Wednesday, November 15, 4:00 – 5:15pm

The SharePoint Framework uses many modern, script frameworks. This includes the tools used to create, package and publish the components. But what about Visual Studio and it's capabilities? If you use VSTS capabilities other than source code control, the new tool chain has some gaps. This session will introduce

OFFICE & SHAREPOINT LIVE! SESSION DESCRIPTIONS BY TRACK *(continued)*

a community effort that enables SPFx component development in Visual Studio.

You will learn:

- About the SPFx build, package and publish process
- Steps to enable SPFx development using Visual Studio
- To engage in community activities around SharePoint development

OSH01 What Every Developer Needs to Know about SharePoint Development Online or On-Prem

Intermediate

ROBERT BOGUE

Thursday, November 16, 8:00 – 9:15am

SharePoint has five development models: Solutions, Add-Ins, Azure AD Apps, Framework, and JavaScript injection—and that's after you've exhausted the configuration options and excluding the sub-types of development. Needless to say just selecting which development approach and API you want to use is a challenge in and of itself. In this session we'll walk through the options and develop a decision tree for how to select the right SharePoint development model.

You will learn:

- What the development models are
- Which development models are supported where
- How to decide which approach to use.
- The myths and realities there are to developing for SharePoint
- How to leverage Office integration and customization to reduce the development effort

OSH02 Feel the Flow—Adding your Custom API to Microsoft Flow

Intermediate

PAUL SCHAEFLEIN

Thursday, November 16, 8:00 – 9:15am

Out of the box, Microsoft Flow allows you to connect to many cloud-services. But what about your line-of-business systems? With a JSON-capable web service, your employees can use Flow to automate their processes without development skills. Come learn how to connect Flow, APIs, Azure AD and Office 365 in this demo-heavy session.

You will learn:

- How to create process automation using Flow
- How to create and document WebAPI services
- How to integrate custom API services to Flow

OSH04 BI for the Cobbler's Children: JavaScript Charting and Graphing

Intermediate / Advanced

JULIE TURNER

Thursday, November 16, 9:30 – 10:45am

Data visualizations are a hot commodity, and "Power" tools abound. To be sure, they are powerful. With some time, patients, and effort they can also be visually pretty appealing. But what happens when you want to create a very customized visualization, or you need to make it interactive like an application, or you need to manipulate data in code first but lack access to a full-blown back end server stack to make it happen. Enter, "Client BI"... custom web parts written using HTML, JavaScript, and CSS to turn data visualization on its head. We'll start with really easy examples using libraries such as Highcharts and c3 and then move up to more advanced solutions using canvas. Join me and explore some of the ways we can make data visualization in a web part a reality.

You will learn:

- How to manipulate data to generate business insights
- How to utilize third party, open source, JavaScript charting libraries, i.e. SVG graphics
- How to utilize HTML canvas tag to generate graphics

OSH06 Introduction to the Office Dev PnP Core Libraries

Intermediate

ROB WINDSOR

Thursday, November 16, 1:00 – 2:15pm

The Office 365 Developer Patterns and Practices (PnP) team have released two libraries focused on increase developer productivity by reducing the amount of code needed when building remote applications. The Office 365 Developer PnP Core Component is a managed code library that extends and encapsulates commonly used Client Object Model operations. The Office 365 Developer PnP JavaScript Core Library is a JavaScript library that simplifies the use of the REST API. After a brief discussion of the Office 365 Developer Patterns and Practices project as a whole we'll move to demos showing how you get started using the Office 365 Developer PnP Core libraries.

You will learn:

- What is Office Dev PnP?
- About using the Managed Core library with CSOM
- About using the JavaScript Core library with the REST API

OSH08 Build a Complete Business Solution Using Microsoft Graph API through Client Side Web Parts

Advanced

JULIE TURNER

Thursday, November 16, 2:30 – 3:45pm

One API to rule them all, the Microsoft Graph API is the central hub to access all your Office 365 assets such as

OFFICE & SHAREPOINT LIVE! SESSION DESCRIPTIONS BY TRACK *(continued)*

user profiles, Groups, One Drive, Excel, and video. This session will assume a grasp of authentication theory, how to create Azure Applications, and how to leverage adal.js (adal-angular.js), to access the MS Graph APIs. We will focus on pulling all of those things together in a robust real world demo that will leverage many aspects of working with external APIs such as the Microsoft Graph as well as other third party web APIs to bring together a complete solution.

You will learn:

- How to utilize multiple secured endpoints to build a robust business solution
- How to leverage various aspects of the MS Graph API
- How to understand the various security considerations and potential business workflows that can be achieved

Information and Content Management: Documents, Records, and Web

At the heart of any SharePoint service is content: content in the form of collaborative documents, records, lists, and web pages. SharePoint provides myriad features to ensure that content is managed securely and efficiently through its lifecycle, and that content is usable and findable by users. Sessions in this track focus on collaboration, information architecture and information management from business, IT pro, and developer perspectives.

OST07 Fast Focus: 5 Query Rules Every SharePoint Pro Should Know

Intermediate

MATTHEW MCDERMOTT

Tuesday, November 14, 4:40 – 5:00pm

If you have always wanted to try query rules but don't know where to start this is a session for you. In this

session, you will learn how to help your users find what they seek, promote content, and create a great end user experience with SharePoint Search Query Rules.

You will learn 5 classes of query rules to help you make search better.

OST08 Fast Focus: Using Features to Provision Assets in SharePoint Framework Solutions

Intermediate

ROB WINDSOR

Tuesday, November 14, 4:40 – 5:00pm

There are lots of examples showing how to build and deploy SharePoint Framework client web parts. But what if you want to provision assets like content types or lists to go along with your web part? In this fast focus session will examine how to provision these types of assets using CAML and the Feature framework. We'll see how to add element manifests to your project, how to manage the feature manifest, and we'll briefly touch on feature upgrades.

You will learn:

- How to create and manage element and feature manifests
- How to work around the lack of tooling
- Other options for asset provisioning

OST09 Fast Focus: The 5 PowerShell Tricks for SharePoint You NEED to Know

Introductory / Intermediate

BEN STEGINK

Tuesday, November 14, 5:10 – 5:30pm

In this 20-minute flash focus session you'll come away with my top 5 PowerShell tricks that are a must when writing scripts for SharePoint. This will be some SharePoint On-Premises, some SharePoint Online and some that apply to both. Join me for a fast paced, 20 minutes where we'll crack open PowerShell and dive

right in. So, come ready to learn how these tricks can help you administer your SharePoint environment with PowerShell.

OST10 Fast Focus: SharePoint Developers Sound Off

Everyone

ANDREW CONNELL

Tuesday, November 14, 5:10 – 5:30pm

Come hear some of the SharePoint developer presenters share their thoughts on some top of mind issues going on in the SharePoint development space!

“THIS CONFERENCE IS NOT FLASHY; IT'S CONSISTENT. I REALLY LIKE THE LONGEVITY OF THE CONFERENCE CHAIRS AND THE CLOSING ROUND TABLE DISCUSSIONS. PLUS I CAN KEEP UP ON TRENDS AND THE STATE OF INDUSTRY WHILE GETTING THE TRAINING I NEED TO STAY CURRENT!”

- Greg Hoover, Sungard Public Sector

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Modern Apps **LIVE!**

MOBILE, CROSS-DEVICE & CLOUD DEVELOPMENT

Delivering Modern Apps

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AGENDA AT-A-GLANCE

What sets Modern Apps Live! apart is the **singular topic focus**; sessions build on each other as the conference progresses, leaving you with a holistic understanding of modern applications, which means a complete picture of what goes into building a modern app for web, iOS, Android, and Windows 10 devices that all interact with state-of-the-art backend services running in public or private clouds.

START TIME	END TIME	
Modern Apps Live! Pre-Conference: Sunday, November 13		
2:00 PM	7:00 PM	Pre-Conference Registration • Royal Pacific Resort Conference Center
Modern Apps Live! Pre-Conference Workshop: Monday, November 13		
8:30 AM	5:30 PM	MAM01 Workshop: Building Modern Mobile Apps - Brent Edwards & Kevin Ford
6:30 PM	8:00 PM	Dine-A-Round Dinner @ Universal CityWalk Dine-A-Round Dinner @ Universal CityWalk
Modern Apps Live! Day 1: Tuesday, November 14		
8:00 AM	9:00 AM	MODERN APPS LIVE! / VISUAL STUDIO LIVE! KEYNOTE: Optimizing and Deploying Angular and Node.js Web Apps to the Cloud - John Papa, Principal Developer Advocate, Microsoft
9:15 AM	10:30 AM	MAT01 Modern App Development: Transform How You Build Web and Mobile Software - Rockford Lhotka
10:30 AM	11:00 AM	Networking Break • Visit the EXPO
11:00 AM	12:00 PM	LIVE! 360 KEYNOTE: Lessons Learned Doing DevOps at Microsoft at Scale - Buck Hodges, Director of Engineering, Visual Studio Team Services, Microsoft
12:00 PM	12:45 PM	Lunch • Visit the EXPO
12:45 PM	1:30 PM	Dessert Break • Visit the EXPO
1:30 PM	2:45 PM	MAT02 Architecture: The Key to Modern App Success - Brent Edwards
2:45 PM	3:15 PM	Networking Break • Visit the EXPO
3:15 PM	4:30 PM	MAT03 Focus on the User Experience #FTW - Jim Barrett
4:40 PM	5:00 PM	MAT04 Fast Focus: Hybrid Web Frameworks - Allen Conway
5:10 PM	5:30 PM	MAT05 Fast Focus: Web Assembly - Jason Bock
5:30 PM	7:30 PM	Exhibitor Reception

Sessions and speakers subject to change.

Continued next page

AGENDA AT-A-GLANCE (continued)

START TIME	END TIME	Modern Apps Live! Day 2: Wednesday, November 15
8:00 AM	9:15 AM	MAW01 Manage Distributed Teams with Visual Studio Team Services and Git - <i>Brian Randell</i>
9:30 AM	10:45 AM	MAW02 DevOps, Continuous Integration, the Cloud, and Docker - <i>Dan Nordquist</i>
10:45 AM	11:30 AM	Networking Break • Visit the EXPO
11:30 AM	12:30 PM	LIVE! 360 PANEL: Industry Trends, Technology, and Your Career <i>Matt Lockhart, Michael Aaron, Martin Leifker, Francois Charette</i>
12:30 PM	1:30 PM	Birds-of-a-Feather Lunch
1:30 PM	2:00 PM	Dessert Break • Visit the EXPO
2:00 PM	3:15 PM	MAW03 Security with Speed for Modern Developers - <i>Michael Lester</i>
3:15 PM	4:00 PM	Networking Break • Visit the EXPO • Expo Raffle
4:00 PM	5:15 PM	MAW04 Coding for Quality and Maintainability - <i>Jason Bock</i>
8:00 PM	10:00 PM	Live! 360 Dessert Luau
START TIME	END TIME	Modern Apps Live! Day 3: Thursday, November 16
8:00 AM	9:15 AM	MAH01 Modern Web Development: Building Server Side Using ASP.NET Core, MVC, Web API, and Azure - <i>Allen Conway</i>
9:30 AM	10:45 AM	MAH02 Modern Web Development: Building Client Side Using TypeScript and Angular - <i>Allen Conway</i>
11:00 AM	12:00 PM	Modern Apps Live! Panel: Mobile Development Technologies - <i>Rockford Lhotka (Moderator), James Montemagno, Kevin Ford</i>
12:00 PM	1:00 PM	Lunch on the Lanai
1:00 PM	2:15 PM	MAH03 Using All That Data: Power BI to the Rescue - <i>Scott Diehl</i>
2:30 PM	3:45 PM	MAH04 Modern Mobile Development: Build a Single App For iOS, Android, and Windows with Xamarin Forms - <i>Kevin Ford</i>
4:00 PM	5:00 PM	Next? Modern Apps Live! Networking Event - <i>Moderator: Rockford Lhotka</i>
START TIME	END TIME	Modern Apps Live! Post-Conference Workshop: Friday, November 17
8:00 AM	5:00 PM	MAF01 Workshop: Modern App Deep Dive—Xamarin, Responsive Web, UWP - <i>Kevin Ford, Brent Edwards, Allen Conway</i>

Sessions and speakers subject to change.

MODERN APPS LIVE! SESSION DESCRIPTIONS BY TRACK

Modern Apps Live!

Modern app development brings a whole new set of challenges to software developers, designers, managers, architects and team leaders. Many of these apps target multiple client platforms and technologies, including numerous mobile platforms. They rely on state-of-the-art, server-side platform capabilities. Users expect professional quality and performance in their business apps, and they expect them to be delivered on time. That means you need to apply application lifecycle processes and tools effectively, along with embedded developer and acceptance testing.

This single track conference provides an end-to-end narrative covering all aspects of building modern apps using today's technologies. You'll learn how to manage a project lifecycle when that project includes Azure cloud services supporting clients running on iOS, Android, Windows 10 and HTML5/JavaScript.

MAM01 Workshop: Building Modern Mobile Apps

Intermediate

BRENT EDWARDS & KEVIN FORD

Monday, November 13, 8:30am – 5:30pm

You can use a variety of different technologies and back ends to build today's mobile applications. During this workshop, you'll look at how a mobile backend is created using Azure. You'll also step through the creation of several mobile clients using different development technologies including Cordova, UWP, Xamarin and

native UI technologies. Finally, you'll discuss how these different development technologies stacked up against each other for our app's needs.

You will learn:

- How Azure and other cloud providers can be leveraged to create a mobile backend
- How to use different mobile technologies to create apps for Android, iOS, Windows, and web
- How these different technologies compare and in what situations they excel or are weak

MAT01 Modern App Development: Transform How You Build Web and Mobile Software

Intermediate

ROCKFORD LHOTKA

Tuesday, November 14, 9:15 – 10:30am

In today's world apps are typically responsive web or mobile apps, with cloud-based back-ends becoming more common all the time. These "modern apps" come along with new requirements where users expect a more intuitive, productive, and compelling experience from their computers and devices. They expect a similar app experience on their phone, their tablet, and their computer; all of which is supported by infrastructure so the app has their data and settings everywhere they go. Added to this, more dev teams are distributed or remote, requiring maturity in process and tooling around development, communication, testing, and DevOps. This session will demonstrate how all these concepts fit together to enable what we call "modern app development".

MAT02 Architecture: The Key to Modern App Success

Intermediate

BRENT EDWARDS

Tuesday, November 14, 1:30 – 2:15pm

There's a lot of technology involved when architecting and developing modern apps. Somehow you need an architecture that can support multiple disparate client operating systems and platforms, and take advantage of services hosted on Windows or Linux. Balance that against the desire to reuse as much code as possible between different client platforms and the server, and architecture becomes a serious challenge. In this session you'll see several options for modern app architecture with discussion about the pros and cons of each.

MAT03 Focus on the User Experience #FTW!

Intermediate

JIM BARRETT

Tuesday, November 14, 3:15 - 4:30pm

Learn some new ways of thinking that will enable you to reimagine application development.

Although quality business and data layers are critical to any application, the user sees and interacts with the application through its user interface. Modern apps in particular have set a higher bar in terms of productivity, aesthetics, platform integration, and usability by putting designer/developer collaboration at the forefront of the software creation. Each of the major device platforms has its own set of UX gestures, features, and user expectations. But do you really have to implement a different user experience for each phone, tablet, and desktop computing scenario? When should you follow guidelines & UI conventions? When does brand

MODERN APPS LIVE! SESSION DESCRIPTIONS BY TRACK *(continued)*

consistency across multiple platforms matter more? Learn how to reuse UX concepts across platforms, and when you really do need to provide a custom implementation for one or more platforms or device types.

MAT04 Fast Focus: Hybrid Web Frameworks

Introductory / Intermediate

ALLEN CONWAY

Tuesday, November 14, 4:40 – 5:00pm

Hybrid Web Frameworks give developers an option to create cross-platform applications using common web technologies. By working with a single codebase consisting of JavaScript, HTML, and CSS to reach both Android and iOS, your team can cut down development time and reach beyond browser-based web only applications. In this session, we'll discuss some of the mainstream frameworks like Cordova/ PhoneGap, Kendo UI, and Onsen UI to see how they can be leveraged to build hybrid web applications. We'll also look briefly at the differences between 'Hybrid Web Frameworks' and 'Native Mobile Frameworks' like React Native and NativeScript and the pros and cons of each.

MAT05 Fast Focus: WebAssembly

Introductory / Intermediate

JASON BOCK

Tuesday, November 14, 5:10 – 5:30pm

WebAssembly is coming to JavaScript, but what is it exactly? Is it a new VM? Is it a way to create a binary version of JavaScript? Is it a new standard to get everyone to code in C/C++ for the web? This session will demystify WebAssembly, demonstrate exactly what it is and provide insight into how this will affect JavaScript and web development in the future.

MAW01 Manage Distributed Teams with Visual Studio Team Services and Git

Intermediate

BRIAN RANDELL

Wednesday, November 15 8:00 – 9:15am

Managing distributed or remote teams in an agile manner requires tools and processes to enable rich communication and coordination. Visual Studio Team Services and git are particularly good options from a tooling perspective. This session gets you started on the right foot by walking through the process of setting up a project in VSTS with git source control. You'll learn how to manage your backlog, issues, scheduling, requirements gathering, and reporting with VSTS, and how to leverage git to enable agile development effectively through Git Flow. In so doing, you'll understand how to properly handle branching, pull requests, code revisions, and tagging.

MAW02 DevOps, Continuous Integration, the Cloud, and Docker

Intermediate

DAN NORDQUIST

Wednesday, November 15, 9:30 – 10:45am

Achieving rapid development is great, but to be truly effective your team also needs to integrate with operations. Ideally you'll not only have continuous integration to automate builds and unit testing, but also continuous deployment into QA or staging. The cloud makes this necessary and easier, and container-based deployment technologies such as Docker have the potential to transform how we think about delivering software to QA or production. In this session you'll learn how .NET Core enables the use of Docker, and how your CI server and process can be enhanced to result in production of deployment-ready Docker containers for on-premises, Azure, or other cloud-hosted environments.

MAW03 Security with Speed for Modern Developers

Intermediate

MICHAEL LESTER

Wednesday, November 15, 2:00 – 3:15pm

Events of the past few years have driven home the importance of security in modern applications. No one wants to be responsible for the next big data breach! In this session, you will learn how security impacts all aspects of modern app dev, from planning, to coding, to data, to devops. Security is bigger than just app dev, but every aspect of app dev is ultimately affected. Michael will discuss how to integrate security into each step in an agile app dev process, while maintaining good velocity toward ultimate delivery.

MAW04 Coding for Quality and Maintainability

Intermediate

JASON BOCK

Wednesday, November 15, 4:00 – 5:15pm

Cost-effective enterprise software development requires the entire team to be focused on ensuring quality is present right from the beginning and at every step in the process. Much of this work involves some form of testing to verify the application works as expected. In this session you will learn how to implement effective strategies using mocking and unit testing for your modern app code across various operating systems and platforms. Even the most basic code testing regimen provides amazing value to any software development effort, and you owe it to yourself and your organization to get started, or to continually improve your existing process.

MODERN APPS LIVE! SESSION DESCRIPTIONS BY TRACK *(continued)*

MAH01 Modern Web Development: Building Server Side Using ASP.NET Core, MVC, Web API, and Azure

Intermediate

ALLEN CONWAY

Thursday, November 16, 8:00 – 9:15am

With so much focus on front-end JavaScript frameworks, we can't forget about the important role the server still plays in modern web development. With the advent of ASP.NET Core and .NET Core, we have lean options for creating and deploying server-side web applications and services. There are times however we still may desire a traditional full .NET Framework MVC solution. We'll discuss the options of using ASP.NET Core, .NET Core, ASP.NET MVC, and Web API on the server to support a rich responsive web UI in the browser. Many of the server-side technologies are the same, but how and when you use them is different. In this session, you'll learn about modern web development on the server, and how to make the most of ASP.NET Core, .NET Core, and Web API services to support the rich Angular client app in the browser covered in the next session.

"I LIKED THE MODERN APPS LIVE! TRACK FROM BEGINNING TO END!"

- *Dustin Wood, IM Flash Technologies*

MAH02 Modern Web Development: Building Client Side Using TypeScript and Angular

Intermediate

ALLEN CONWAY

Thursday, November 16, 9:30 – 10:45am

Modern web apps are often described as "responsive web," "Single Page Applications (SPAs)," or "JS Applications." These apps built with HTML5 and JavaScript (or TypeScript) are popular both for their light weight and high performance nature. Responsive apps run in a modern browser and provide users with a rich smart client experience that is generally consistent across different browsers and platforms. We'll discuss Modern Web Applications using a JavaScript framework as an implementation choice, their viability, advantages/disadvantages and comparison to server-side ASP.NET Web applications. In this session, you'll learn about modern web development on the client using tools like Angular and TypeScript for building a rich and compelling user experience in the browser, supported by the server-side technologies covered in the previous session.

Modern Apps Live! Panel: Mobile Development Technologies

ROCKFORD LHOTKA (MODERATOR),
JAMES MONTEMAGNO, AND KEVIN FORD

Thursday, November 16, 11:00am – 12:00pm

You have quite the array of choices in front of you when building a mobile app. Should you build a native app for each platform? Use a pure responsive web approach? Try a hybrid approach using Cordova? Or perhaps leverage your existing C# skills by using Xamarin? Moderated by Rockford Lhotka, this panel includes James Montemagno from Xamarin and Kevin Ford, Magenics' mobile Practice Lead. Bring your questions and get them answered by this amazing panel of experts on mobile technologies and platforms!

MAH03 Using All That Data: Power BI to the Rescue

Intermediate

SCOTT DIEHL

Thursday, November 16, 1:00 – 2:15pm

The amount of data created by modern apps is constantly increasing. Making sense out of this data, especially in the context of business users, metrics, and trends, is becoming critical. Fortunately, we have tools such as PowerBI that enable the creation of interactive dashboards and reports that allow users to quickly view data, or dive deep into detail to see what's going on beneath the surface. In this session, you'll learn how to use PowerBI to analyze data stored in SQL Server to enable users and decision makers to efficiently do their jobs.

MAH04 Modern Mobile Development: Build a Single App For iOS & Android with Xamarin Forms

Intermediate

KEVIN FORD

Thursday, November 16, 2:30 – 3:45pm

Learn how to reuse nearly all of your code while providing a comparable user experience on iOS and Android using Xamarin.Forms.

Xamarin.Forms provides a consistent platform on which to build mobile apps that run on iOS, Android, and UWP. In this session, we'll focus entirely on iOS and Android, showing how you can reuse nearly all of your code across both platforms, while still leveraging the sensibilities of each platform when necessary. This one mobile app will leverage the same Azure-hosted services from iOS and Android, as will our responsive web and UWP apps.

MODERN APPS LIVE! SESSION DESCRIPTIONS BY TRACK *(continued)*

MAF01 Workshop: Modern App Deep Dive: Xamarin, Responsive Web, UWP

Intermediate

BRENT EDWARDS, KEVIN FORD, & ALLEN CONWAY

Friday, November 17, 8:00am – 5:00pm

The Modern Apps Live! conference content focused a lot on the tradeoffs and choices involved in designing and building a modern app. This workshop dives deep into the technology behind those choices and the way they are used to implement the MyVote demo app used in the conference. This is a no-holds barred deep dive into use of Xamarin, Angular/TypeScript, ASP.NET Core, MVC, Web API, and UWP. You will see all the gory details from the Azure app server to the mobile services to each client app technology.

Do you want to know how we achieved 100% reuse of our business logic across all these platforms? How we implemented authentication for the mobile and web apps? How we stored relational and blob data in a secure and efficient manner? All these questions and more will be answered in this workshop, delivered by the people who wrote the code and know it best.



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- Robert Meritt, American Heart Association

MODERN APPS LIVE! CONFERENCE CHAIR

CONFERENCE CHAIR



Rockford Lhotka
CTO, Magenic
Modern Apps Live! Conference Chair

"THE LOCATION WAS NICE AND
THE SPEAKERS WERE ENGAGING
AND KNOWLEDGEABLE."

- Tyler Ortix, Acton Mobile

MODERN APPS LIVE! CONFERENCE SPEAKERS



Jim Barrett
Senior UX Designer,
Magenic Technologies



Jason Bock
Practice Lead,
Magenic Technologies



Allen Conway
Senior Consultant,
Magenic Technologies



Scott Diehl
Practice Lead,
Magenic Technologies



Brent Edwards
Principal Lead Consultant,
Magenic Technologies



Kevin Ford
Mobile Practice Lead,
Magenic Technologies



Michael Lester
Chief Security Officer / Vice President
of Shared Services,
Magenic Technologies



Rockford Lhotka
CTO, Magenic Technologies
Modern Apps Live! Conference Chair



Matt Lockhart
Executive Vice President,
Magenic Technologies



James Montemagno
Principal Program Manager –
Xamarin, Microsoft



Dan Nordquist
Architect, Magenic Technologies



Brian Randell
Partner, MCW Technologies

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EXHIBITORS



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EXHIBITORS



After your Windows 10 is out there, how do you deliver and maintain settings for the operating system, browsers, the user's desktop and Java? Answer: PolicyPak. Founded by Group Policy MVP Jeremy Moskowitz, PolicyPak's enhances your on-prem tools (like Group Policy or SCCM) or cloud management tool (like Intune or Airwatch), enabling you to deliver, enforce, remediate and report on settings beyond what your on-prem or cloud based management tool can do. If you want to manage Java, browsers, eliminate and/or bypass UAC prompts, and put the smackdown on ransomware, come check out PolicyPak while at Live! 360 and say Hi to Jeremy and his team.

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The Krewe

The Krewe is a community organized professional IT networking group. We are a team of hard working, fun loving IT Pros & Developers with all levels of expertise. Our mission is to build a dynamic networking community through various activities and gatherings. <https://twitter.com/thekrewe>



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Venue & Travel



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THE LOEWS ROYAL PACIFIC RESORT CONFERENCE CENTER is located in the middle of two of Orlando's best Universal Orlando resorts, Loews Royal Pacific Resort and Loews Sapphire Falls Resort. Both resorts are just a short walk or water taxi ride away from Universal's two amazing theme parks, Universal Studios Florida® and Universal's Islands of Adventure®, and Universal CityWalk®. These well-situated properties make visiting this sunny locale easy.

LOEWS ROYAL PACIFIC RESORT
6300 Hollywood Way
Orlando, FL 32819

SOLD OUT

Book your room online for the Live! 360 Room Block, or call Reservations at 866.360.7395 and ask for the Live! 360 Room Block.



Rooms at Loews Royal Pacific Resort in the Live! 360 Room Block also include the following:

- Complimentary in-room internet connectivity**
- Complimentary use of The Gymnasium, fitness center
- Exclusive Universal Orlando theme park benefits—
[Click here for more details.](#)

** Rooms are subject to availability and applicable sales and local taxes, so book your accommodations today.*

*** Premium wireless access is complimentary for up to 4 devices per room for a 24-hour period 1pm to 1pm.*

LOEWS SAPPHIRE FALLS RESORT
6601 Adventure Way
Orlando, FL 32819

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Rooms at Loews Sapphire Falls Resort in the Live! 360 Room Block also include the following:

- Complimentary in-room internet connectivity**
- Complimentary use of Kalina Health & Fitness
- Exclusive Universal Orlando theme park benefits—
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For the most up-to-date alternate hotel options, visit the [LIVE! 360 TRAVEL PAGE.](#)

VENUE & TRAVEL (continued)

TRAVEL

CAR RENTAL DISCOUNTS

Avis Rent-a-Car is offering a discount on car rental for Live! 360 Orlando attendees. To receive the discounted rates, call Avis at 800.331.1600 and use the Avis Worldwide Discount (AWD) number D005872, or [click here](#) to make your reservation online.

AIRPORT TRANSPORTATION

(Orlando International Airport)

Loews Hotels at Universal Orlando do not provide airport transportation, but there are several options:

Mears Transportation: 800.759.5219

Mears provides convenient and affordable transportation between the Orlando International Airport and both Loews Royal Pacific Resort and Loews Sapphire Falls Resort. One way fares start at \$18. This is a shuttle service that will have other stops along the way.

Mears can also assist with sedan reservations or advance taxi reservations.

Taxi: One way fares from Orlando International Airport (MCO) average \$45-\$50

DIRECTIONS TO THE ROYAL PACIFIC RESORT AT UNIVERSAL ORLANDO

Located in Universal Studios Florida, Loews Royal Pacific Resort is only 15 minutes from Orlando International Airport.

From Turnpike (North and South):

- Take Exit 259 (I-4 interchange) onto I-4 West (Tampa)
- Take Exit 74B (Universal Studios) and get in the right lane
- At traffic light, turn right onto Hollywood Way.
- Loews Royal Pacific Resort entrance is second entrance on the right

From Downtown Orlando (I-4 West):

- Take I-4 West to Exit 74B (Universal Studios) and get in the right lane
- At traffic light, turn right onto Hollywood Way
- Loews Royal Pacific Resort entrance is second on the right

From Tampa (I-4 East):

- Take I-4 East towards downtown Orlando.
- Take Exit 75A (Universal Studios) and get in the left lane
- At traffic light, turn left on Universal Blvd.
- Turn left at next traffic light (Hollywood Way)
- Loews Royal Pacific Resort entrance is 1/3 mile on your left

From Orlando International Airport:

- Take the North exit out the airport onto Beachline Expressway (SR528*) West (International Drive, Convention Center)
- Continue on Beachline and take I-4 East
- Take Exit 75A (Universal Studios) and get in the left lane
- At the end of the exit ramp, turn left onto Universal Blvd.
- At the second traffic light, turn left (Hollywood Way)
- Loews Royal Pacific Resort entrance is 1/3 mile on your left

From I-95 South:

- Take I-95 South to Exit 260B (I-4 West towards Orlando)
- Take I-4 West to Exit 74B (Universal Studios) and get in the right lane
- At the traffic light, turn right onto Hollywood Way
- Loews Royal Pacific resort entrance is second on the right

From I-95 North:

- Take I-95 North to Exit 205 onto Beachline Expressway (SR528*) heading West
- Continue on Beachline and take I-4 East
- Take Exit 75A (Universal Studios) and get in the left lane
- Turn left on Universal Blvd.
- Turn left at second traffic light (Hollywood Way)
- Loews Royal Pacific Resort entrance is 1/3 mile on your left

*SR528 is a toll road.

PARKING

Loews Royal Pacific Resort Self or valet parking for Live! 360 attendees:

- Self-parking is \$10.00** per day
- Valet parking is \$14.00** per day

Loews Sapphire Falls Resort Self or valet parking for Live! 360 attendees:

- Self-parking is \$10.00** per day
- Valet parking is \$14.00** per day

** Rates subject to change without prior notice.

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[Click here](#) to purchase Universal Orlando® theme park tickets.

After 2pm Convention Tickets

Once you arrive and check in for Live 360!, you can show your conference badge at the Universal Orlando ticket desk in the lobby of either conference hotel and purchase after 2:00pm discounted tickets. Single Park admission tickets are \$53.99. Park-to-Park admission tickets are \$90.99.*pricing subject to change

Note: you need a Universal Orlando® theme park "Park-to-Park" pass to ride the Hogwarts™ Express train between the two parks to experience all of the Harry Potter™ magic and excitement.

DISCOVER ORLANDO AND THE UNIVERSAL ORLANDO AREAS

Visit www.orlandoinfo.com for information on places to visit and things to do in the Orlando area. You can also visit www.universalorlando.com/convention for more information on Universal Orlando® Resort.

FOR MORE TRAVEL INFORMATION, VISIT: live360events.com/events/orlando-2017/information/travel.aspx

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REGISTRATION PACKAGES (continued)



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REGISTRATION PACKAGES (continued)



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- Sheena Cooley, PaySett Corporation

REGISTRATION PACKAGES (continued)



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- Andrew Stagg, Lyr-Delta

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