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2015 Orlando

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November 16-20

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EXPERT SOLUTIONS FOR .NET DEVELOPERS

TECHMENTOR
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SharePoint **LIVE!**
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LIVE! 360 CONFERENCE CO-CHAIRS



Andrew Brust

*SQL Server Live! and Visual Studio Live!
Conference Co-Chair
Senior Director, Datameer*



Andrew Connell

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



Don Jones

*SQL Server Live! Conference Co-Chair
TechMentor Conference Co-Chair
Curriculum Director, Pluralsight*



Rockford Lhotka

*Modern Apps Live! Conference Chair, and
Visual Studio Live! Conference Co-Chair
CTO, Magenit*



Matthew McDermott

*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?



LIVE! 360 IS A UNIQUE CONFERENCE WHERE THE IT AND DEVELOPER COMMUNITY CONVERGE TO TEST-DRIVE LEADING EDGE TECHNOLOGIES AND FUEL UP ON CURRENT ONES.

These five co-located events incorporate knowledge transfer and networking, along with finely tuned education and training, as you create your own custom conference, mixing and matching sessions and workshops to best suit your needs. Whether you are a developer who uses Visual Studio, SQL Server, and SharePoint; or an IT Pro looking for ways to modernize your datacenter or assistance with your SharePoint administrative duties; or a DBA focused on building and supporting successful applications using SQL Server, the agendas are crafted for (almost) every IT title.

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 THE SUN and experience unbiased and practical development training on the Microsoft Platform.

TECHMENTOR

IN-DEPTH TRAINING FOR IT PROS

This is **IT TRAINING THAT'S WORTH THE TRAVEL**, focused entirely on making your datacenter more modern, more capable, and more manageable.

SQL Server **LIVE!**

TRAINING FOR DBAs AND IT PROS

SQL Server Live! will leave you with the skills needed to **DRIVE DATA FORWARD**, whether you are a DBA, developer, IT Pro, or Analyst.

SharePoint **LIVE!**

TRAINING FOR COLLABORATION

CHART THE BEST COLLABORATION COURSE with SharePoint Live!, providing leading-edge SharePoint knowledge and training

ModernApps **LIVE!**

MOBILE, CROSS-DEVICE & CLOUD DEVELOPMENT

Presented in partnership with Magenic, this unique conference **LEADS THE WAY TO LEARNING** how to architect, design and build a complete Modern App.

Top

REASONS TO ATTEND Live! 360 Orlando

1

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.

2

SO MANY OPTIONS; SO LITTLE TIME.

These forward-thinking and educational events are geared toward both the IT and Developer community. Whether you are a developer who uses Visual Studio and SQL Server, or an IT Pro who is looking to improve your technical skills or just getting into your SharePoint administrative duties, or a DBA looking to maintain, tune and consolidate, the agendas are crafted for (almost) every IT title.

3

5 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!



4

CREATE YOUR OWN AGENDA.

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 75+ speakers, 900+ fellow attendees, and a robust exhibit floor—all enhancing your event experience.

5

GET TO KNOW YOUR NEIGHBOR.

Incorporating knowledge transfer, networking and leading-edge training into five intense days, these conferences will get you up-to-date on current technologies with a look to the future, while connecting you with your peers from around the world.

6

PERSPECTIVE FROM EVERY ANGLE.

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.



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

Sunday, November 15

6:00pm – 9:00pm

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.

EXPO PREVIEW

Monday, November 16

5:00pm – 6:00pm

Expo Hall

Join us on Monday evening for drinks, snacks and to get a "sneak peek" at the Live! 360 exhibitors before the Live! 360 Keynote at 6:00pm. This is a great opportunity to meet and network with your fellow attendees early in the week and to learn about the innovations and latest technologies available from our exhibitors.

EXHIBITOR WELCOME RECEPTION

Tuesday, November 17

5:30pm – 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 18

12:15pm – 1:45pm

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.

We will also have designated speaker tables—noted with the speakers name. Join your favorite speaker for a lunchtime discussion or just to ask questions or clarify anything from their sessions. All seating is on a first come basis. Enjoy!

LIVE! 360 DESSERT LUAU

Wednesday, November 18

8:00pm – 10:00pm

Sponsored by:



Come celebrate the South Pacific with delectable desserts, drinks, and fabulous entertainment courtesy of Live! 360 and Amazon Web Services! 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.



Live! 360 Dessert Luau



Dine-A-Round Dinner



Welcome Reception



Birds of a Feather Lunch

Live! 360 Keynotes

Get the lowdown on current Microsoft strategy—and learn to “keep up” with where the company is going. Strengthen your career and sharpen your mind with awesome “insider” keynotes and general addresses.

Monday, November 16
6:00pm - 7:00pm

KEYNOTE: Microsoft 3.0: New Strategy, New Relevance



Mary Jo Foley,
Journalist and Author



Andrew Brust
*Senior Director,
Datameer*

The past year-plus was one of huge changes for Microsoft—perhaps the most tumultuous in its history.

Microsoft has moved from a devices and services company to a productivity and platforms one. Following on the heels of its “One Microsoft” reorg, the company has largely made good on its “One Windows” promise. It has refocused on its software/services core. And it has become a true cross-platform vendor and open-source participant.

All these moves have created some new challenges and questions for the company, not the least of which is how it will move to new business models to support its new charter and structure.

These changes don’t just impact Microsoft employees. They affect every single developer and IT Pro using Microsoft technologies in ways that are just as profound as the changes themselves. But how can you track these changes and make intelligent decisions about your skills and career choices, especially at a technical conference?

Easy! Come to our Visual Studio Live! New York keynote, with ZDNet’s “All About Microsoft” blogger Mary Jo Foley. Mary Jo will be interviewed by Visual Studio Live! Co-Chair and Visual Studio Magazine columnist Andrew Brust, who will ask Foley about Microsoft’s future product roadmaps, leadership outcomes, big technology bets and more.

Gaining context from this discussion will enhance your Visual Studio Live! experience, and audience questions will be welcome. So come with your best Microsoft-centric questions, quibbles and insights, and get ready to supplement your developer skills with some serious industry analysis.

Wednesday, November 18
8:00am - 9:00am

KEYNOTE: DevOps—What it Means to You and How to Get There

Sponsored by

PLURALSIGHT



Don Jones,
*MVP
Curriculum Director
for IT Pro Content,
Pluralsight*



Brian Randell
*Partner,
MCW Technologies*



Seems like everyone’s talking about DevOps these days. But is it just another marketing term? A way to sell tools? An extension of Agile development? Well... yes, it’s all of those things, but also none of them. Join Live 360! Presenters Brian Randell and Don Jones for a unique look at the IT management philosophy that’s uniting Development and Operations, and changing the way we think about application quality, delivery, and lifecycle. Learn what DevOps actually means, and what you and your organization will need to change if you’re going to embrace the approach. Learn about the advantages, the potential pitfalls, and the definite stress points that are all wrapped up in the DevOps world.

Conference Keynotes

Tuesday, November 17 • 8:00am – 9:00am

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

KEYNOTE: The Future of Application Development—Visual Studio 2015 and .NET 2015



Jay Schmelzer
*Director of Program Management,
Visual Studio Team,
Microsoft*

Details coming soon.

TECHMENTOR
IN-DEPTH TRAINING FOR IT PROS

KEYNOTE: How To Get Your Company Moving Forward in Technology



Jason Helmick
*Author,
Pluralsight*



Greg Shields
*MVP, vExpert
Author Evangelist,
Pluralsight*

Details coming soon.

SQL Server 
TRAINING FOR DBAs AND IT PROS

KEYNOTE: Microsoft's Data Platform Landscape



Scott Klein
*Senior Technical Evangelist
Microsoft*

This keynote session will look at Microsoft's data platform landscape, discussing everything you want to know about the exciting next generation SQL Server to the big data and IoT technologies in the cloud. We'll begin by taking a deep-dive into the evolution and mission-critical investments of SQL Server, investments in Transaction Processing and Data Warehouse to Enterprise Business Intelligence and Hybrid Cloud Scenarios. We'll then take a look how Microsoft thinks about the data platform in cloud for solving some of the challenges presented by today's era of big data.



SharePoint 
TRAINING FOR COLLABORATION

KEYNOTE: Conference Welcome & State of SharePoint & Office 365



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



Matthew McDermott
*Founder and Director,
Aptillon, Inc.*

It's a big year for Microsoft, Office 365 & SharePoint! We are going to see the next on-premises version of SharePoint start to make it's way into customers hands. This new version, SharePoint 2016, has been heavily influenced by Microsoft's experience in hosting it in Office 365. In this keynote you'll see conference chairs Andrew & Matt not only give you an overview of the sessions that you'll find at the conference, but also get an update on where we are today. This includes SharePoint for those who are & will stay on-premises as well as those in Office 365 and beyond. Think of it as a State of the SharePoint / Office 365!



Visual Studio® **LIVE!**

EXPERT SOLUTIONS FOR .NET DEVELOPERS



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AGENDA AT-A-GLANCE


Cloud Computing		Database and Analytics		Lessons Learned and Advanced Practices		Mobile Client		Visual Studio / .NET Framework		Web Development		Windows Client	
START TIME	END TIME	Visual Studio Live! Pre-Conference: Sunday, November 15, 2015											
4:00 PM	9:00 PM	Pre-Conference Registration • Royal Pacific Resort Conference Center											
6:00 PM	9:00 PM	Dine-A-Round Dinner @ Universal CityWalk											
START TIME	END TIME	Visual Studio Live! Pre-Conference Workshops: Monday, November 16, 2015											
8:00 AM	5:00 PM	VSM01 - Workshop: Service Oriented Technologies: Designing, Developing, & Implementing WCF and the Web API - Miguel Castro				VSM02 - Workshop: Triple D: Design, Development, and DevOps - Billy Hollis and Brian Randell				VSM03 - Workshop: Busy Developer's Guide to MEANJS - Ted Neward			
5:00 PM	6:00 PM	EXPO Preview											
6:00 PM	7:00 PM	LIVE! 360 KEYNOTE: Microsoft 3.0: New Strategy, New Relevance - Mary Jo Foley, Journalist and Author; with Andrew Brust, Senior Director, Datameer											
START TIME	END TIME	Visual Studio Live! Day 1: Tuesday, November 17, 2015											
8:00 AM	9:00 AM	VISUAL STUDIO LIVE! KEYNOTE: The Future of Application Development—Visual Studio 2015 and .NET 2015 Jay Schmelzer, Director of Program Management, Visual Studio Team, Microsoft											
9:00 AM	9:30 AM	Networking Break • Visit the EXPO											
9:30 AM	10:45 AM	VST01 - AngularJS 101 - Deborah Kurata			VST02 - A Tour of Azure for Developers - Adam Tuliper			VST03 - Busy Developer's Guide to NoSQL - Ted Neward			VST04 - Visual Studio, TFS, and VSO in 2015—What's New? - Brian Randell		
11:00 AM	12:15 PM	VST05 - From ASP.NET Site to Mobile App in About an Hour - Ryan J. Salva			VST06 - Introduction to Next Generation of Azure PaaS—Service Fabric and Containers - Vishwas Lele			VST07 - Real World SQL Server Data Tools (SSDT) - Benjamin Day			VST08 - Automate Your Builds with Visual Studio Online or Team Foundation Server - Tiago Pascoal		
12:15 PM	2:00 PM	Lunch • Visit the EXPO											
2:00 PM	3:15 PM	VST09 - I Just Met You, and "This" is Crazy, But Here's My NaN, So Call(Me), Maybe? - Rachel Appel			VST10 - Cloud or Not, 10 Reasons Why You Must Know "Websites" - Vishwas Lele			VST11 - Windows 10 for Developers: What's New in Universal Apps - Nick Landry			VST12 - Defensive Coding Techniques in C# - Deborah Kurata		
3:15 PM	4:15 PM	Networking Break • Visit the EXPO											
4:15 PM	5:30 PM	VST13 - Better Unit Tests through Design Patterns for ASP MVC, WebAPI, and AngularJS - Benjamin Day			VST14 - Running ASP.NET Cross Platform with Docker - Adam Tuliper			VST15 - Build Your First Mobile App in 1 Hour with Microsoft App Studio - Nick Landry			VST16 - Putting CodedUI Tests on Steroids - Donovan Brown		
5:30 PM	7:30 PM	Exhibitor Reception											

Sessions and speakers subject to change.

Continued next page

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AGENDA AT-A-GLANCE (continued)

Cloud Computing		Database and Analytics		Lessons Learned and Advanced Practices		Mobile Client		Visual Studio / .NET Framework		Web Development		Windows Client			
START TIME		END TIME		Visual Studio Live! Day 2: Wednesday, November 18, 2015											
8:00 AM		9:00 AM		<div>LIVE! 360 KEYNOTE: DevOps—What it Means to You and How to Get There</div> <div>- Don Jones, Curriculum Director, Pluralsight; Brian Randell, Partner, MCW Technologies</div> <div>Sponsored by</div> <div>PLURALSIGHT</div>											
9:15 AM		10:30 AM		VSW01 - Mobile App Development with Xamarin and F# - Rachel Reese			VSW02 - Notify Your Millions of Users with Notification Hubs - Matt Milner			VSW03 - Let's Write a Windows 10 App: A Basic Introduction to Universal Apps - Billy Hollis			VSW04 - To Git or Not to Git for Enterprise Development - Benjamin Day		
10:30 AM		11:00 AM		Networking Break • Visit the EXPO											
11:00 AM		12:15 PM		VSW05 - Automated UI Testing for Android and iOS Mobile Apps - James Montemagno			VSW06 - Busy Developer's Guide to the Clouds - Ted Neward			VSW07 - Designing and Building UX for Finding and Visualizing Data in XAML Applications - Billy Hollis			VSW08 - Anything C# Can Do, F# Can Do Better - Rachel Appel & Rachel Reese		
12:15 PM		1:45 PM		Birds-of-a-Feather Lunch • Visit the EXPO											
1:45 PM		3:00 PM		VSW09 - Stop Creating Forms In Triplicate—Use Xamarin Forms - Matt Milner			VSW10 - To Be Announced			VSW11 - Developing Awesome 3D Games with Unity and C# - Adam Tuliper			VSW12 - Unit Testing Makes Me Faster: Convincing Your Boss, Your Co-Workers, and Yourself - Jeremy Clark		
3:00 PM		4:00 PM		Networking Break • Visit the EXPO • Expo Raffle @ 3:30 p.m.											
4:00 PM		5:15 PM		VSW13 - Go Mobile with C#, Visual Studio, and Xamarin - James Montemagno			VSW14 - To Be Announced			VSW15 - Recruiters: The Good, The Bad, & The Ugly - Miguel Castro			VSW16 - DI Why? Getting a Grip on Dependency Injection - Jeremy Clark		
8:00 PM		10:00 PM		<div>Live! 360 Dessert Luau</div> <div>Sponsored by</div> <div> The AWS Cloud supports Microsoft Windows Server</div>											

Sessions and speakers subject to change.

Continued next page

AGENDA AT-A-GLANCE (continued)

Cloud Computing		Database and Analytics		Lessons Learned and Advanced Practices		Mobile Client		Visual Studio / .NET Framework		Web Development		Windows Client	
START TIME		END TIME		Visual Studio Live! Day 3: Thursday, November 19, 2015									
8:00 AM	9:15 AM	VSH01 - Getting Started with ASP.NET 5 - Scott Allen			VSH02 - Lessons Learned: Being Agile in a Waterfall World - Philip Japikse			VSH03 - Windows, NUI and You - Brian Randell			VSH04 - Improving Performance in .NET Applications - Jason Bock		
9:30 AM	10:45 AM	VSH05 - Build Data Driven Web Applications with ASP.NET MVC - Rachel Appel			VSH06 - User Story Mapping - Philip Japikse			VSH07 - Building Adaptive Uis for All Types of Windows - Ben Dewey			VSH08 - Asynchronous Tips and Tricks - Jason Bock		
11:00 AM	12:15 PM	VSH09 - Automated Cross Browser Testing of Your Web Applications with Visual Studio CodedUI - Marcel de Vries			VSH10 - Performance and Debugging with the Diagnostic Hub in Visual Studio - Sasha Goldshtein			VSH11 - XAML Antipatterns - Ben Dewey			VSH12 - Roslyn and .NET Code Gems - Scott Allen		
12:15 PM	1:30 PM	Lunch on the Lanai											
1:30 PM	2:45 PM	VSH13 - Hate JavaScript? Try TypeScript. - Ben Hoelting			VSH14 - Advanced Modern App Architecture Concepts - Marcel de Vries			VSH15 - WPF MVVM In Depth - Brian Noyes			VSH16 - Getting More Out of Visual Studio Online: Integration and Extensibility - Tiago Pascoal		
3:00 PM	4:15 PM	VSH17 - Grunt, Gulp, Yeoman and Other Tools for Modern Web Development - Ben Hoelting			VSH18 - The Vector in Your CPU: Exploiting SIMD for Superscalar Performance - Sasha Goldshtein			VSH19 - Building Maintainable and Extensible MVVM WPF Apps with Prism - Brian Noyes			VSH20 - Readable Code - John Papa		
4:30 PM	5:45 PM	LIVE! 360 CONFERENCE WRAP-UP - Andrew Brust (Moderator), Andrew Connell, Don Jones, Rockford Lhotka, Matthew McDermott, Brian Randell, & Greg Shields											
START TIME		END TIME		Visual Studio Live! Post-Conference Workshops: Friday, November 20, 2015									
8:00 AM	5:00 PM	VSF01 - Workshop: Angular in 0 to 60 - John Papa						VSF02 - Workshop: Native Mobile App Development for iOS, Android and Windows Using C# - Marcel de Vries & Roy Cornelissen					

Sessions and speakers subject to change.

VISUAL STUDIO LIVE! SESSION DESCRIPTIONS BY TRACK

Cloud Computing

A growing number of IT and development professionals 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 yet ready for Microsoft Azure, you owe it to yourself to become familiar with cloud computing and the services approach to development. This track includes coverage of the following:

- Microsoft Azure Web sites
- Docker on Microsoft Azure
- Hybrid clouds

■ VSM01 Workshop: Service Oriented Technologies: Designing, Developing, & Implementing WCF and the Web API

Intermediate

MIGUEL CASTRO

Monday, November 16, 8:00am – 5:00pm

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 your application can continue to grow or change without having to continuously undergo rewrites or redesigns. With great power, though, comes great responsibility, 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 latest addition to this stack in a world where REST and its interoperability power become more necessary and more in demand. Come learn both of these technologies and how to properly use them, apart and together. You'll learn what a Service Oriented Architecture is and how to use WCF and Web API from

the ground up. You'll learn these technologies together, side-by-side and how to integrate them into applications whose clients may vary from WPF to ASP.NET MVC to Windows 8 Tablet apps. This will cover setup and consumption of your services end-to-end, showing you how and where to properly set up your projects, properly use proxies, contracts, and even REST URL design. You'll have the knowledge of how to use service technology and to properly implement it in a clean and elegant fashion.

You will learn:

- How to write services using WCF
- How to develop REST APIs with WebAPI
- About Microsoft's two service technologies side by side

■ VST02 A Tour of Azure for Developers

Introductory

ADAM TULIPER

Tuesday, November 17, 9:30 – 10:45am

Azure is a large set of services available for developing IaaS (infrastructure as a service) and PaaS (platform as a service) to do everything from running a Web site to running your entire business services, including active directory in the cloud or shared between your site and the cloud. It may be overwhelming to learn what the platform supports with truly thousands of features. This session will take you through a journey of Azure's services as it relates to developers. Did you know you can remote debug Web applications running in the cloud? You can also provide a cross platform data storage solution for all your apps? Bite-sized demos and use cases will showcase the functionality available to you within Azure as a developer.

You will learn:

- To understand the functionality Azure provides to the developer through its major services
- How to develop for its various services
- How to deploy your solutions to the cloud, including web and services

■ VST06 Introduction to Next Generation of Azure PaaS—Service Fabric and Containers

Introductory

VISHWAS LELE

Tuesday, November 17, 11:00am – 12:15pm

Learn about, what many consider to be the most important recent announcement from the Azure Team—Azure Service Fabric and support for containers. This session will cover programming models available in Service Fabric to build highly available, low latency micro-services that can be deployed on Microsoft Azure or Windows Server. We will also explore the container model, why it transforms the development process and how to create, use and manage them and integrate with Docker technologies.

You will learn:

- Programming models available in Service Fabric to build highly available, low latency micro-services
- Write object-oriented microservices using the Service Fabric programming model
- Understand the benefit of container model

■ VST10 Cloud or Not, 10 Reasons Why You Must Know "Websites"

Intermediate

VISHWAS LELE

Tuesday, November 17, 2:00 – 3:15pm

This session will look at the 10 reasons (backed by code walkthrough, of course) why you as a Web developer need to be up to speed with "Websites." From fast provisioning and scalability to continuous integration and Websites (Cloud and on-premises) technology is the fastest way to build Web applications.

You will learn:

VISUAL STUDIO LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

- All about Website architecture
- About continuous integration and deployment with Websites
- About Website and hybrid connectivity

■ VST14 Running ASP.NET Cross Platform with Docker

Introductory / Intermediate

ADAM TULIPER

Tuesday, November 17, 4:15 – 5:30pm

Recent changes to ASP.NET 5 let you run it cross platform and completely self-host. Want to run an entire site off a USB without having IIS installed or even do this cross platform? You can. Come see how to setup ASP.NET cross platform.

Docker is an amazing technology that lets your apps be completely portable with their own dependency and change tracking. Docker abstracts certain specifics to let apps run in a container. By doing that, you can deliver them virtually anywhere and remove the burden of having to make sure all dependencies are installed between your dev/qa/production environments. Docker currently runs on Linux, but Microsoft has announced it will support Windows, so you'll learn how it runs on Windows as well.

This session will cover how to set up ASP.NET to run cross platform, but also install and configure Docker and bring over your ASP.NET applications.

You will learn:

- How to setup ASP.NET cross platform
- What docker is and how to set it up
- How to setup ASP.NET apps to run in Docker containers

■ VSW02 Notify Your Millions of Users with Notification Hubs

Intermediate

MATT MILNER

Wednesday, November 18, 9:15 – 10:30am

Every popular mobile platform provides some mechanism for sending push notifications to applications on the device. Unfortunately, every platform is slightly different. Learn how to use Notification Hubs to simplify your application development experience and quickly start sending notifications to your users on many different platforms. In this session, you'll learn how to use templates to customize notifications for each platform, tags to filter messages, and raw messaging to process messages inside the application. You'll also see how to push notification messages to devices such as the Microsoft Band.

You will learn:

- How Notification Hubs handles push notifications to many different platforms
- How to broadcast templated and raw notifications to users and how to target certain platforms
- Examples of how to use notifications on various devices

■ VSW06 Busy Developer's Guide to the Clouds

Intermediate

TED NEWARD

Wednesday, November 18, 11:00am – 12:15pm

Microsoft has one. Amazon has one. It turns out there are a lot of different developer-focused cloud environments out there, though. Sometimes, it may be exactly what you need to get your project going quickly—assuming you know it exists. This session will survey the variety of different cloud providers, many with wildly varying different approaches to "what developers

need," and give you a series of ideas to explore the next time the boss says, "We need to move into the cloud!"

You will learn:

- An overview of Azure and AWS
- Offerings from other environments
- About how working with multiple cloud providers can be both a good and a bad thing

"I CAME HERE FOR VISUAL STUDIO LIVE! BUT ATTENDED SOME MODERN APPS AND SQL SERVER LIVE! SESSIONS TOO—CO-LOCATING THE CONFERENCES INTO ONE WAS THE BEST THING."

- Abhishek Pandey, Neuberger Berman

VISUAL STUDIO LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

Database and Analytics

SQL Server 2014 is here. And no Microsoft-focused developer conference would be complete without coverage of Microsoft's formidable database platform. Visual Studio Live! meets this challenge handsomely with coverage of:

- SQL Server Data Tools (SSDT)
- Reporting Services for Developers
- Memory-Optimized Tables and Columnstore Indexes in SQL Server 2014
- Microsoft Azure SQL Database

■ VST03 Busy Developer's Guide to NoSQL

Intermediate

TED NEWARD

Tuesday, November 17, 9:30 – 10:45am

With the introduction of CouchDB, the world suddenly seems to be alive with a whole slew of "alternative" approaches to data persistence. These are collectively called "NoSQL" and offer a slightly to radically different views of data storage and retrieval. It's left a few developers scratching their heads, trying to figure out when to use a NoSQL database instead of a regular database, much less which NoSQL database to use. This session will examine the NoSQL ecosystem, look at the major players, how they compare and contrast, and what sort of architectural implications they have for software systems in general.

You will learn:

- Some NoSQLs
- What they offer that the RDBMS doesn't
- When and how (and when not) to use them

■ VST07 Real World SQL Server Data Tools (SSDT)

Intermediate / Advanced

BENJAMIN DAY

Tuesday, November 17, 11:00am – 12:15pm

SQL Server Data Tools (SSDT) help you manage your database schemas under source control. However, every demo you've ever seen is just "Hello World." Your databases are just a bit more complicated. What if your databases have been around for a while and they're filled with deadSQL structures? What if your databases reference other databases? How about managing lookup values and doing automated deployment? This session will go beyond the basics and show you how to use SSDT in complex real-world scenarios. From taming that old legacy database to representing complex relationships between databases to deployment scenarios, this session will teach you how to really use SSDT to make your coding and deployment life better.

You'll learn techniques for importing existing legacy SQL Server schemas with old, dead code.

Lessons Learned and Advanced Practices

This track provides you with insights that are earned through hard work and experience. Sessions in this track will improve your software development processes and show you best practices on how you should design, build, and debug applications.

■ VSW15 Recruiters: The Good, The Bad, & The Ugly

Introductory

MIGUEL CASTRO

Wednesday, November 18, 4:00 – 5:15pm

Let's face it, recruiters are part of our world, and they're here to stay. And to be honest, they're not all bad. But when they decide to get weird on you, they don't mess around. If you'd like to hear some interesting and maybe even frustrating stories regarding that one animal that we all love to pick on yet all seem to need, come join this session. Feel free to bring your own horror stories. Every so often, a group needs to unwind and do something a little more light-hearted. I'll top off the session with a few good recruiter stories and share my views on how our two worlds can work together a little better.

You will learn:

- How to identify good recruiters vs. bad ones
- Tips for how to better deal with recruiters
- Light-hearted entertainment and enjoyment

■ VSH02 Lessons Learned: Being Agile in a Waterfall World

Intermediate

PHILIP JAPIKSE

Thursday, November 19, 8:00 – 9:15am

Scrum and XP have found a strong following in the development community. But most non-development

VISUAL STUDIO LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

groups (such as Web Administrators, Production Support, Security, Testing and Users/Stake Holders) within the enterprise aren't just far from agile, they're not even trying to be more agile. The session starts with a refresher on Scrum, and then uses real experiences from large enterprise development projects to teach you how to effectively work with non-agile teams. Instead of trying to "convert" them, you'll learn strategies to adapt to their needs while remaining agile in the development realm.

You will learn:

- How to work with Traditional PMO
- How to work with devops and infrastructure teams
- About moving QA, Designers, etc. to agile

■ VSH06 User Story Mapping

Intermediate

PHILIP JAPIKSE

Thursday, November 19, 9:30 – 10:45am

Initially put forward by Jeff Patton, Use Story Mapping is an approach to Organizing and Prioritizing User Stories. In this hands-on exercise, attendees will jointly create a user map, clearly defining order, minimal marketable features and release plans. A tip of the hat to Steven Rogalsky for first showing me this session.

You will learn:

- Why User Story Mapping matters
- How to story map
- How to integrate story mapping into other methodologies

■ VSH10 Performance and Debugging with the Diagnostic Hub in Visual Studio

Intermediate / Advanced

SASHA GOLDSHTEIN

Thursday, November 19, 11:00am – 12:15pm

The recent versions of Visual Studio introduce more tools for analyzing the application performance. You can measure and inspect the energy consumption and expected battery life of your Windows Phone, the frame rate and redraw regions of your Windows Store app, the heap contents of your .NET and C++ code, the memory and CPU utilization of your ASP.NET server, and database queries executed from your Entity Framework data layer. All these features are part of the convergence to a Diagnostic Hub in Visual Studio 2013, which adds even more capabilities such as analyzing memory leaks from within Visual Studio. This session will experiment with the various performance and debugging tools Visual Studio offers.

You will learn:

- About measuring CPU utilization and wall-clock time with Visual Studio Profiler
- About analyzing power consumption, battery life, and other mobile device metrics
- About debugging memory leaks and allocation trouble with the Visual Studio 2013 Diagnostic Hub

■ VSH14 Advanced Modern App Architecture Concepts

Intermediate / Advanced

MARCEL DE VRIES

Thursday, November 19, 1:30 – 2:45pm

Building apps with modern mobile or Web interfaces that leverage scalable cloud services can be complex. In this session, you'll learn about technologies, techniques and patterns to help address that complexity. Topics

in this session will include micro-architecture, enabling continuous delivery in your app architecture and applying solutions for bad things that can happen in cloud scenarios. Some of those solutions include the circuit breaker pattern, app and service instrumentation, solutions to decouple parts of the system and design for scale out.

You will learn:

- Alternative architectures then the standard 3 tier
- How to design systems to scale
- How to design systems for fast feature delivery
- How to empower teams deliver more value faster

■ VSH18 The Vector in Your CPU: Exploiting SIMD for Superscalar Performance

Intermediate / Advanced

SASHA GOLDSHTEIN

Thursday, November 19, 3:00 – 4:15pm

For more than ten years, modern processors have been equipped with vector registers and instructions to make certain algorithms four to eight times faster. In the past, it took intrinsic or intimate knowledge of assembly language to use them. In this session, you'll learn how to take advantage of vector instructions in .NET applications using the newly released Microsoft.Bcl.Simd library and the upcoming RyuJIT compiler. You'll explore a variety of algorithms that can benefit from vectorization.

You will learn:

- About vector capabilities in modern processors
- How to speed up simple algorithms by using the Microsoft.Bcl.Simd library
- How to find ways to vectorize algorithms that have inter-iteration dependencies

VISUAL STUDIO LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

Mobile Client

Mobile clients are becoming the most common way for users to interact with each other, their organizations, and their business applications. Mobile apps might be native client apps or mobile Web sites, and they often make use of cloud-based data and services. This track includes:

- Using Xamarin tools to leverage your C# code on iOS and Android
- Azure Mobile Services
- Building Cross-Platform Games with MonoGame
- Swift for .NET Developers

■ VST05 From ASP.NET Site to Mobile App in About an Hour

Introductory / Intermediate

RYAN J. SALVA

Tuesday, November 17, 11:00am – 12:15pm

Every organization has investments in the web – from intranets and business apps to customer-facing portals. But the web has limitations. What happens when you need to support offline, access the file system, send push notifications and still work on mobile devices from every major ecosystem (iOS, Android and Windows)? When these requirements appear, the web is no longer sufficient. You need a mobile app.

This session will provide you with an inventory and coding strategy for packaging your existing ASP.NET web assets for mobile devices via Apache Cordova.

You will learn:

- How to leverage your web assets for mobile apps
- How to support offline scenarios
- How to integrate with device capabilities (e.g. camera, address book)
- How to send a simple push notification
- How to avoid common performance pitfalls

■ VST11 Windows 10 for Developers: What's New in Universal Apps

Introductory

NICK LANDRY

Tuesday, November 17, 2:00 – 3:15pm

First introduced in Windows 8.1 and Windows Phone 8.1, Universal Windows apps let developers build apps that share a maximum amount of code across a wide range of devices, including smartphones, phablets, tablets, laptops, desktops, hybrids, 2-in-1's and even servers. You can build universal apps natively using either HTML+Javascript, or XAML with C#, VB or C++. Windows 10 is the final destination for convergence with "One Windows across all devices," adapting itself to the device form factor to provide the optimum capabilities and user experience. Windows 10 improves on this model with the Universal App Platform (UAP) that lets you build a single binary across all Windows 10 platforms, even Xbox One, Windows on Devices and HoloLens. Join us for this overview session and explore new features for developers in Windows 10, including code sharing, targeting specific devices and API contracts, Visual Studio 2015 tooling, new APIs, and our favorite virtual assistant: Cortana. One code base, one binary, and countless Windows devices on which to run. Come learn about the opportunities, and see how it's done.

You will learn:

- The basics of the Windows 10 Universal App Platform, how to get started in mobile development and the available tools, including the emulators
- How to design a converged Windows 10 app user interface with XAML in Visual Studio, which controls are available, how to share code, and more
- About specific development features like API contracts, touch gestures, accelerometers, Live Tiles, speech, notifications, location, mobile data access and more

■ VST15 Build Your First Mobile App in 1 Hour with Microsoft App Studio

Introductory / Intermediate

NICK LANDRY

Tuesday, November 17, 4:15 – 5:30pm

Microsoft App Studio is an innovative new tool to help you design and build a starter app for Windows Phone and Windows Store without writing any code. Whether you're a mobile development neophyte or a savvy developer filled with great ideas and not enough time to prototype them, App Studio can help you get started. It will build the core of your application using multiple page templates and data sources, such as RSS feeds, YouTube videos, Flickr photos, HTML content, Twitter feeds, custom collections and more. In this session, you'll build a live, working mobile app for both Windows Phone and Windows Store on the fly, exploring the various options of App Studio. Then you'll generate the source code and dive into Visual Studio to understand the various parts produced by App Studio and how to extend them. You'll discuss how to add custom features to the starter app, turning our prototype into a real-world app, such as advertising, in-app purchasing and such. You'll also learn what's involved to get the app published, how the submission process works, and where to take your app from there. If you still haven't published any mobile apps, it doesn't get any easier than with App Studio. Come learn how to get from "Idea" to "Publish" in just a few hours.

You will learn:

- How to build a starter mobile app for Windows Phone and Windows Store using Microsoft App Studio
- The basics of the Windows Phone and Windows SDKs, how to get started in mobile development and the available tools, including the emulators
- How to extend your starter Windows Phone and Windows apps from App Studio by diving into the generated source code in Visual Studio

VISUAL STUDIO LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

■ VSW01 Mobile App Development with Xamarin and F#

Introductory

RACHEL REESE

Wednesday, November 18, 9:15 – 10:30am

With the release of Swift, functional programming for mobile apps has suddenly flown into the limelight. But did you realize that F# has been a solid mobile option for some time? It's entirely possible to write fully native, cross-platform mobile apps completely in F#! This session will concentrate on the features of F# that make it uniquely suited for iOS development, while covering both iOS basics and F# basics. You'll emerge with all the tools to run with your own app idea.

You will learn:

- Basic iOS with Xamarin knowledge
- Basic F# knowledge
- Basic Xamarin with F# knowledge

■ VSW05 Automated UI Testing for Android and iOS Mobile Apps

Intermediate

JAMES MONTEMAGNO

Wednesday, November 18, 11:00am – 12:15pm

Beyond cross-platform development, the number one pain point for mobile developers is testing apps. It's such a challenge that 92 percent of developers don't do it. Yet quality matters more than ever on mobile platforms. There are several technologies today to help with mobile testing, including Xamarin.UITest.

This is an automated UI acceptance testing framework based on Calabash that lets you write and execute tests in C# and NUnit that validate the functionality of iOS and Android Apps on your emulators or local devices. Xamarin Test Cloud also lets you use these tests to run your app across 1000's of physical devices (both Android

and iOS). It uses powerful, object-based UI testing, so you can write test scripts that do exactly what your users will do: tap, swipe, rotate, wait for UI elements to appear and so on.

When building for multiple platforms, you can share your test logic across the platforms, increasing reuse and enable faster test authoring. This session will explore how to create a test in Xamarin.UITest to run locally and then upload an app to Test Cloud. You'll try Xamarin App Explorer, which systematically exercises screens and controls in your app before you ever write a single test. You'll also look at Behavior Driven Development using Calabash and Cucumber.

You will learn:

- How to take out all of the hard work and pain points of testing Automated UI Testing
- How to share test logic across all platforms increasing your code reuse and speeding up development cycles
- How to use Behavior Driven Development to create test scripts to ensure apps

■ VSW09 Stop Creating Forms in Triplicate—Use Xamarin Forms

Introductory / Intermediate

MATT MILNER

Wednesday, November 18, 1:45 – 3:00pm

When building a cross platform mobile applications, developers have typically had to create unique user interfaces for each platform. Even with cross platform tools like Xamarin, each platform required targeted user interface code and layout. Come to this session to learn how to define a single user interface in XAML that will render on Windows Phone, Android and iOS using native controls. In addition to the basics of rendering data, you'll learn platform specific tweaks, navigation, and messaging between the UI and view models.

You will learn:

- How Xamarin.Forms uses a single definition to render a user interface on multiple platforms
- How to provide platform or device (tablet vs. phone) specific layout hintsHow to navigate between forms and message between forms and view models or other parts of your application

■ VSW13 Go Mobile with C#, Visual Studio, and Xamarin

Introductory / Intermediate

JAMES MONTEMAGNO

Wednesday, November 18, 4:00 – 5:15pm

Xamarin helps C# developers become native iOS, Android, and Windows mobile app developers overnight. In this session, you'll learn how to leverage your existing .NET and C# skills to create iOS and Android mobile apps in Visual Studio with Xamarin. Besides writing your iOS and Android apps in C#, Xamarin lets you reuse existing .NET libraries and share your business logic across iOS, Android, and Windows apps. This session will also give you the tools to determine how much existing C# code can go mobile to iOS and Android, as well as architecture you need to support maximum code sharing and reuse. You'll learn best practices for handling fragmentation across and within each device platform.

This session will cover the Xamarin platform and how to create native iOS, Android, and Windows apps in C#. The focus is really on the code, as there will be several live coding adventures throughout the entire session. When you leave, you'll have the knowledge to create your first iOS & Android in C# with Xamarin in Visual 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
- About architectural best practices

VISUAL STUDIO LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

■ VSF02 Workshop: Native Mobile App Development for iOS, Android and Windows Using C#

Intermediate

MARCEL DE VRIES & ROY CORNELISSEN

Friday, November 20, 8:00am – 5:00pm

So you need to build a mobile app, but you've been a C# developer for a long time. What are your options? Should you build your mobile app using the Web approach with HTML and Java Script? Do you need to learn objective C for iOS, or perhaps Java to build an Android app? Do you need to learn all those different languages and frameworks to build mobile apps or are there other options for you as a C# developer? The option that stands out for you as a C# developer is the option to build Native apps using C#. Xamarin makes this happen even from your Visual Studio IDE, by providing a language projection of the native platform libraries (Android or iOS) to C# and an implementation of the .NET framework that runs on that device.

In this full day workshop, Marcel and Roy will walk you through the process of building one app for multiple platforms. They'll show how to share as much code as possible, while keeping the uniqueness of each platform to maintain the appeal for native users. They'll go into details of each platform, the app concepts of each platform and how to build native apps for these platforms using the native libraries from C#. They'll also show how you can architect your app in such a way that you can share code amongst these platforms. This will help you get much better ROI than building three native apps using the vendor provided toolsets.

You will learn:

- How to build your first mobile apps on the different platforms with the Xamarin toolset
- About the different platforms, what makes them unique and how you can build a cross platform app
- How to maintain platform uniqueness while sharing a large chunk of your codebase

Visual Studio / .NET Framework

Microsoft continues to deliver updates at a rapid pace. In 2014, Microsoft released quarterly updates to Visual Studio and Team Foundation Server (TFS) on-premises and the Visual Studio Online (VSO) service saw updates about every three weeks. At the end of 2014, they released the first public preview of Visual Studio 2015. This new edition promises to be an existing release with new versions of Visual Studio, TFS, and continued updates to VSO, not to mention Microsoft's exciting venture into more open source and cross-platform development. From ALM to DevOps and core code cutting, Microsoft has a ton of new stuff you need to learn. Visual Studio Live! gives you the information you need to understand and leverage the power of .NET, Visual Studio, ALM, DevOps, and the .NET Framework today and into the future. Topics in this track include:

- Sessions focused on Visual Studio 2013 (and 2015 preview), .NET 4.5 and C# 6.0
- ALM, Visual Studio tooling and Visual Studio Online
- Asynchronous programming
- DevOps best practices and shipping code

■ VSM02 Workshop: Triple D: Design, Development, and DevOps

Intermediate

BILLY HOLLIS AND BRIAN RANDELL

Sunday, November 15, 8:00am – 5:00pm

Development is way more than coding. You need modern applications that are adaptable, manageable over their entire lifecycle, intuitive to learn, and productive to use. In this workshop, you'll learn how to start earlier in the development cycle with good user experience design, proceed through today's complex layered development, and then refine and monitor the system during its lifecycle with DevOps. For UX design, you'll see surprising principles and a lean process to get a top-notch design quickly. In development, you'll find ways to increase the value of what you create by leveraging new technologies. With DevOps, you will

see how to measure your systems, work with the IT professionals that maintain them, and assure quality throughout the system's lifecycle. Come and see veterans Brian A. Randell and Billy Hollis present a lively day of useful concepts and techniques for developers facing overwhelming complexity and change.

■ VST04 Visual Studio, TFS, and VSO in 2015—What's New?

Intermediate

BRIAN RANDELL

Tuesday, November 17, 9:30 – 10:45am

The 2015 wave from Microsoft has brought us great new releases Visual Studio and Team Foundation Server. We've got a new cross-platform editor in Code and Visual Studio Online continues to get updated about every three weeks. In this session, Brian will provide you with a current "State of the Union" regarding Microsoft's tooling and make sure you know what's ready for prime time and what might need a little more time to mature.

You will learn:

- What's new in Visual Studio 2015
- What's new in Team Foundation Server 2015
- What's new in Visual Studio Online

■ VST08 Automate Your Builds with Visual Studio Online or Team Foundation Server

Introductory / Intermediate

TIAGO PASCOAL

Tuesday, November 17, 11:00am – 12:15pm

Learn how to automate your builds with Visual Studio Online or Team Foundation Server; easily author, monitor and trigger your builds using just a Web browser. Fetch code from source control, build, test, and pack your code in an automated way repeatable process.

Learn not only how to define your builds, but also extend the TFS/VSO build process to add your own tooling and

VISUAL STUDIO LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

requirements not covered out of the box. If you're using Team Foundation Server or Visual Studio Online, this session will help you automate your build processes and integrate your development process. It doesn't matter if you're writing code in Windows, OSX or Linux, this session has got it all covered.

You will learn:

- The benefits of build automation
- How to automate code builds with Team Foundation Server/Visual Studio Online
- How to extend the build if out of the box processes are not enough

■ VST12 Defensive Coding Techniques in C#

Introductory / Intermediate

DEBORAH KURATA

Tuesday, November 17, 2:00 – 3:15pm

How do you write great code when faced with constantly changing requirements, legacy applications, intensive time pressures and a rapidly evolving environment? And how do you keep that code great after maintenance activities, multiple developers and the ravages of time?

This session covers three key defensive coding strategies:

- Improving code comprehensive and reducing bugs through clean code
- Improving application quality with testable code and unit tests
- Improving code predictability by handling the expected and unexpected

Come and learn how to shore up your code's defenses to protect it from bugs, other developers and your future self.

You will learn:

- To improve code reliability and predictability through clean methods

- The basics of Unit Testing in Visual Studio
- To review asserts and exception handling best practices

■ VST16 Putting CodedUI Tests on Steroids

Intermediate

DONOVAN BROWN

Tuesday, November 17, 4:15pm - 5:30pm

In this session you will learn how to create Coded UI Test from an Action Recording from Microsoft Test Manager, the Coded UI test builder in Visual Studio and in 100% C#. I will also show how to run the test in IE, Chrome and Firefox. Finally we will cover how to data bind Coded UI Test. This session is 90% demo to show the tools in action.

■ VSW04 To Git or Not to Git for Enterprise Development

Intermediate / Advanced

BENJAMIN DAY

Wednesday, November 18, 9:15 – 10:30am

All the cool kids are using Git, and they seem to like it a lot. They're downright passionate about it, but is it right for your project? It's one thing to use Git for a phone app that you're building with your buddies. It's another thing entirely when you're working on giant applications with gigabytes of code and dozens of developers. Is Git right for that kind of "enterprise" software development?

In this session, Ben will demonstrate Git from the perspective of a Visual Studio and Team Foundation Server user. He'll discuss the ins, outs, and gotchas of using Git for large-scale, enterprise software development. Along the way, he'll discuss how Git changes your perspective on branching, code reviews and cross-platform development. He'll wrap up by discussing how to use Git with existing solutions and how

to integrate Git with your existing TFS version control repositories.

You will learn:

- What makes git so different? (offline copy of repo, distributed)
- How to use branching for scrum
- How to use pull requests
- About Git for TFS users (break yourself from folder-based thinking, Git+TFS)
- What's in the Visual Studio UI vs. command line
- How does Git streamline cross-platform development?

■ VSW08 Anything C# Can Do, F# Can Do Better

Intermediate / Advanced

RACHEL APPEL & RACHEL REESE

Wednesday, November 18, 11:00am – 12:15pm

Are you a C# developer who has wondered what the F# language can do? Have you ever wondered if functional programming is really all it's cracked up to be? Maybe you're a .NET developer who wants to better your skills. Then it's best to at least familiarize yourself with F#. In this session, you'll do just that, along with learning about when F# is a better choice—although sometimes it's still C#. Rachel and Rachel will review several common coding practices you do in C# every day, and their functional F# equivalent. Ultimately, they'll leave it up to you to decide if F# can do anything C# can do.

You will learn:

- How C# and F# compare
- How functional and OOP programming paradigms compare
- New ways to code and solve problems while having fun

VISUAL STUDIO LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

■ VSW12 Unit Testing Makes Me Faster: Convincing Your Boss, Your Co-Workers, and Yourself

Introductory / Intermediate

JEREMY CLARK

Wednesday, November 18, 1:45 – 3:00pm

Bosses hate unit testing. They see it as code that doesn't contribute to the final product. Here's the truth though: unit testing makes you faster. In this session, you'll look at specific examples of how unit tests save time in the development process, whether you're creating UI-based applications or server-side libraries. With this in hand, you can show your boss how testing makes you faster and helps you move forward confidently and quickly.

You will learn:

- How unit tests improve the speed of development of UI-based applications -- particularly workflows
- How unit tests can improve the speed of development of APIs and libraries
- See that one of the side effects of unit testing is to create more maintainable code

■ VSW16 DI Why? Getting A Grip on Dependency Injection

Introductory / Intermediate

JEREMY CLARK

Wednesday, November 18, 4:00 – 5:15pm

What is Dependency Injection? Why would we want to use it? Those are the questions you'll have answered. Start by looking at the problems caused by tight coupling. Then you'll use some DI patterns, such as constructor injection and property injection, to break that tight coupling. You'll see how loosely-coupled applications are easier to extend and test. With a better understanding of the basic patterns, you'll remove the magic behind DI containers so that you can use the tools appropriately in your code.

You will learn:

- What Dependency Injection is
- How loose coupling helps with extensibility and testability
- How to use the constructor injection and property injection patterns in our code

■ VSH04 Improving Performance in .NET Applications

Intermediate

JASON BOCK

Thursday, November 19, 8:00 – 9:15am

Everyone wants to write fast code. But writing code that performs well doesn't come for free. Developers must be cognizant of what their code will do when executed, and what tools to use when you want to find the hot spots. This session will cover what a .NET developer needs to know to improve the performance of their applications.

You will learn:

- How to address performance issues in code
- Discover techniques to eliminate bad code before it becomes an issue
- How different tools work in .NET to find and fix slow code

■ VSH08 Asynchronous Tips and Tricks

Intermediate

JASON BOCK

Thursday, November 19, 9:30 – 10:45am

Programming with asynchronous code has become easier with recent changes in .NET, such as the `async` and `await` keywords in C# and VB. However, they don't eliminate all issues that arise with asynchronous programming. Debugging asynchronous code can also be a difficult endeavor. In this session, you'll get a number of tips to make asynchronous coding easier and you'll see how you can use tools in Visual Studio that help you find issues in your code.

You will learn:

- The difficulties that can occur with asynchronous code
- Insight into asynchronous code to eliminate common bugs
- How tools in Visual Studio assist you in finding code issues

■ VSH12 Roslyn and .NET Code Gems

Intermediate

SCOTT ALLEN

Thursday, November 19, 11:00am – 12:15pm

When Microsoft moved their compilers and framework to an open source model, they gave us unparalleled access to a real world, large scale managed code base. There are many lessons to learn within source code repositories, and lots of useful bits of code you can borrow. In this session, you'll explore the code base and look for hidden gems. Some of these gems are useful, others make for interesting trivia, and some classes are so bizarre, you'll have to see them to believe them. Expect equal levels of entertainment and education in this whirlwind tour of C# code.

You will learn:

- How object pooling and caching can improve performance
- Not all dictionaries are considered equal (in terms of performance)
- It is possible to have a class with 31 generic type parameters

VISUAL STUDIO LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

■ VSH16 Getting More Out of Visual Studio Online: Integration and Extensibility

Intermediate

TIAGO PASCOAL

Thursday, November 19, 1:30 – 2:45pm

Are you using Visual Studio Online? Are you feeling like you're not using it to its fullest potential and want to get more of it? You either need to tweak it a bit and adapt it to meet your process, integrate it with external tools or use the API to write your own tooling to feed some gaps.

You will learn:

- How to customize Visual Studio Online to make it fit to your process
- How to use built in integrations with external tools
- How to use the extensibility APIs to extend VSO capabilities

■ VSH20 Readable Code

Introductory / Intermediate

JOHN PAPA

Thursday, November 19, 3:00 – 4:15pm

Is your code readable? There are some simple techniques you can use to create more readable code. This can improve your efficiency and make it easier for your code to be supported across teams. Clean Code is popular and Readable Code takes a look at these concepts in a different light and gives you actionable items to improve the readability of your code today. Learn how to make Readable Code by using some of the techniques such as separation of concerns, above the fold, the LIFT principles, commenting, encapsulation and many more.

You will learn:

- How to create code that is easily maintainable
- About code for the multi-team enterprise
- Why some patterns lend themselves to higher code quality

Web Development

Microsoft's focus on the Web is serious, with great support for HTML5, a new version of ASP.NET and numerous tooling advances. HTML5 and JavaScript are the basis for virtually all modern Web development, and JavaScript is increasingly being used as a server-side development language. This track will cover HTML5, JavaScript, and ASP.NET. Our ASP.NET coverage includes ASP.NET MVC, Web API, and ASP.NET 5, a transformative shift in the Microsoft Web development technology stack. This content will help Web developers create rich and compelling experiences for users. Sessions include:

- JavaScript, HTML 5, and CSS 3
- ASP.NET 5
- Angular, Knockout and TypeScript
- Single Page Applications (SPAs) with Breeze
- Gulp, Grunt and Bower
- SignalR

■ VSM03 Workshop: Busy Developer's Guide to MEANJS

Intermediate / Advanced

TED NEWARD

Monday, November 16, 8:00am – 5:00pm

The MEAN Stack (Mongo, Express, Angular and Node) has taken the open-source world by storm. Many developers consider it to be "the next big thing" in the world of building Web-based applications. This workshop will embrace your inner JavaScript and build a simple application from scratch using the MEANJS package, including tests against the server-side API and the client-side UI. You'll discuss how Node works on the server, how the various Node packages combine, and examine one such package (MeanJS) that coalesces several Node packages together to create a (somewhat) seamless development experience.

You will learn:

- How to build Node server-side APIs
- About using Mongo for storage
- About AngularJS for the front-end

■ VST01 AngularJS 101

Introductory

DEBORAH KURATA

Tuesday, November 17, 9:30 – 10:45am

This beginner-level session introduces the .NET developer to AngularJS using Visual Studio. The session begins with an acronym-free description of the concepts and terms required to successfully build a Web application with Angular.

During this session, you'll build a simple Angular application starting from an empty Web site in Visual Studio. You'll add directives to build our first page. Then you'll create a module and a controller to complete a simple application.

You will learn:

- About Angular concepts and terms
- The basics of building an Angular application
- The basics of implementing Bootstrap styles in an HTML page

■ VST09 I Just Met You, and "This" is Crazy, But Here's My NaN, So Call (Me), Maybe?

Introductory / Intermediate

RACHEL APPEL

Tuesday, November 17, 2:00 – 3:15pm

This session makes fun of JavaScript, but you'll learn something in the process. JavaScript can be a passive-aggressive and fickle language that frustrates you at every turn. It lets you do things like declare variables anywhere, but doesn't tell you it will hoist them when you're not looking.

VISUAL STUDIO LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

JavaScript's "this" keyword is anything but, and eval can turn good code to evil fast. This session blends comedy and learning and discusses common JavaScript headaches and mistakes and fun ways to avoid them. Learn tricks you can use, like the "this" keyword, JavaScript scoping, evil Eval, and the "with" statement. Not all equality operators are created equal, and that innocent looking parseInt? It does force parses. Sit back and dig into the fun of JavaScript language quirks.

You will learn:

- JavaScript gotchas
- Language quirks
- How to lint code so as to avoid gotchas

■ VST13 Better Unit Tests through Design Patterns for ASP MVC, WebAPI, and AngularJS

Intermediate / Advanced

BENJAMIN DAY

Tuesday, November 17, 4:15 – 5:30pm

You're sold on unit testing. You're even doing "test first" development; but there are always nagging questions. How do your user interfaces fit into your testing plan? Do I have to call my database in order to have a good, solid test? What about calls into separate sub-systems or calls out to Web services? Do you really need to have all those pieces running in order to test your logic? What do I do about that app that doesn't have any tests?

Ben will start this session by clarifying the difference between "unit" and "integration" tests. After that, he'll demonstrate how using dependency injection, mock objects and stubs can help break dependencies and simplify your tests. You can expect to hear a lot about design patterns, how much code coverage is enough, and the fine line between too much and too little object mocking. And it won't just be ASP.NET MVC. There'll be WebAPI and AngularJS demos, as well.

You will learn:

- How to use design patterns to help improve your testability
- About user interface testability patterns
- About mocking for ASP.NET, C#, and AngularJS tests

■ VSH01 Getting Started with ASP.NET 5

Intermediate

SCOTT ALLEN

Thursday, November 19, 8:00 – 9:15am

ASP.NET 5 begins a radical departure from the origins more than 15 years ago. With a new project structure, configuration system and runtime, ASP.NET is now a lean framework for building Web applications. This session will look at the new project structure and compilation model, the unification of ASP.NET MVC and the ASP.NET Web API, and the new Node.js tools that integrate with Visual Studio.

You will learn:

- The ASP.NET file based project system
- The unification of ASP.NET MVC and ASP.NET Web API
- The choice of full CLR versus desktop CLR

■ VSH05 Build Data Driven Web Applications with ASP.NET MVC

Introductory / Intermediate

RACHEL APPEL

Thursday, November 19, 9:30 – 10:45am

In this session, you'll learn how to build a data-driven Web application in Visual Studio with ASP.NET MVC. You'll learn how to work with Models using Entity Framework to access and modify data. Then you'll move onto Controllers, and learn how they tie the Model and View together. You'll learn how to build a rich user interface with Views and data from the Model. After reviewing these core components, you'll look at other aspects of ASP.NET MVC such as routing, securing

your app, choosing JavaScript frameworks, and finally, deploying the app.

You will learn:

- How to build a complete app in ASP.NET MVC
- The basics of ASP.NET MVC
- Modify and access data in ASP.NET MVC

■ VSH09 Automated Cross Browser Testing of Your Web Applications with Visual Studio CodedUI

Intermediate

MARCEL DE VRIES

Thursday, November 19, 11:00am – 12:15pm

How well do you test your Web application or Web site? Are you still testing your site manually and does that take a lot of time? Do you find it hard to create and maintain automated tests for Web applications? Come to this session and learn how to build cross browser automated test suites using Visual Studio CodedUI and integrate it with Microsoft Test Manager.

In this session, Marcel will teach you how to build cross browser automated test suites using Visual Studio CodedUI and integrate it with Microsoft Test Manager. This combination will give you a holistic view of your current sprint in terms of completion and test coverage. You'll learn how you can set up your test cases using record and playback and how the CodedUI API works. You'll build test suites in such a way that you can maintain them by default and introduce concept of Page Objects that enable us to build SOLID, DRY and DAMP tests.

You will learn:

- How to use CodedUI to build automated UI test
- How record and Playback automation works and its limitations
- How the CodedUI API and object model works
- How to build maintainable test automation code

VISUAL STUDIO LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

■ VSH13 Hate JavaScript? Try TypeScript.

Intermediate

BEN HOELTING

Thursday, November 19, 1:30 – 2:45pm

Many C# developers hate JavaScript. This likely has nothing to do with JavaScript, but the lack of tooling and language features. .NET developers are spoiled by the top notch language and IDE features of Visual Studio. This session will discuss some of the tooling advancements in Visual Studio related to JavaScript development. TypeScript is a new language developed by the creators of C# that compiles to JavaScript. The last portion of this session will dive into TypeScript and discuss some of the language features it provides on top of normal JavaScript. Between the IDE enhancements in VS and the language features of TypeScript, you'll see JavaScript development isn't that bad.

You will learn:

- New JavaScript IDE Features in VS
- A definition of TypeScript
- How to use VS and TypeScript to make JavaScript development bearable

■ VSH17 Grunt, Gulp, Yeoman and Other Tools for Modern Web Development

Intermediate

BEN HOELTING

Thursday, November 19, 3:00 – 4:15pm

The next version of ASP.NET embraces open source tools and technologies. This is a good thing. Opening ASP.NET will make it stronger by letting it use best practices for modern Web development. Learning these best practices and the tools and technologies to implement them will make you a more productive developer. Bower, Grunt, Gulp and Yeoman are just some of the things you need to master. These technologies will soon replace some

of the things you've hacked and bandaged in ASP.NET over the years. This session will dive into these and other modern Web development tools for your tool belt.

You will learn:

- Why ASP.NET is beginning to embrace open source
- About Bower, Grunt, Gulp and Yeoman
- Best practices associated with these tools

■ VSF01 Workshop: Angular in 0 to 60

Introductory / Intermediate

JOHN PAPA

Friday, November 20, 8:00am – 5:00pm

HTML5 Single Page Apps (SPAs) deliver enhanced user experiences with significant client-side interactions using JavaScript, HTML5 and CSS. Angular does all the heavy lifting for you to pave the road towards building a SPA. This workshop explores the core pieces that help you build end-to-end SPA solutions using Angular, including code structure and the most used Angular style guide, using data binding and MV*, abstracted remote data calls, page navigation and routing, rich data features and how to design and architect your Angular modules.

The workshop also covers Angular 2 to show the pros and cons to consider when migration time comes.

Throughout the workshop, you'll learn how to build robust SPA applications with Angular. You'll see several focused demos and full featured apps that will help you learn and understand the role of key Angular components such as modules, controllers, factories, directives and more.

This workshop covers:

- SPA fundamentals
- Importance of Separation of Concerns (SoC)
- JavaScript patterns for creating organized code
- Key components of Angular
- How directives can be used
- The role of views, controllers, and \$scope
- Managing remote data calls using services or factories

- The role of modules and how they can be used
- Routing and page navigation
- Data binding
- Navigating and App LifeCycle
- Debugging Tips
- Build automation
- Testing
- Touch
- You will learn:
 - About design and architect Angular modules
 - How to follow industry style and scaling patterns
 - How to create testable code you can run through CI

"OVERALL, A GREAT EXPERIENCE ALL AROUND! I HAVE BEEN TO THIS CONFERENCE AFTER A SEVERAL YEARS GAP IN BETWEEN. GREAT TO CATCH UP ON THE LATEST TOOLS IN THIS SPACE!"

- Prasad Sunkara, FISERV

VISUAL STUDIO LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

Windows Client (Windows 8.1/ WinRT, WPF)

There are more than a billion Windows PCs in the world. Given the media attention on mobile development, it can be easy to forget that Windows remains the dominant OS. This track is focused on building Windows apps using the re-energized WPF technology, as well as the newer Windows Runtime (WinRT) technology for Windows 8.1, Windows 10, Windows Phone, and other Microsoft devices and platforms. This track includes coverage of the following:

- UX Design Principles
- UX for Data Visualization in XAML
- Universal Apps for Windows and Windows Phone
- Building Windows 10 LOB Apps

■ VSW03 Let's Write a Windows 10 App: A Basic Introduction to Universal Apps

Introductory

BILLY HOLLIS

Wednesday, November 18, 9:15 – 10:30am

If you've never worked with XAML, expect some serious floundering when you try to write your first Windows 10 app. This session will help reduce that floundering. Billy will set out the most important conceptual differences to writing these apps by writing a simple data-oriented app from scratch. You'll see the layout model, the basic syntax of XAML, how to use templating and the essentials of data binding in XAML. If you're working in Windows Forms, HTML, or other legacy UI technologies, this can be your entry point for Windows 10 XAML.

You will learn:

- About the major conceptual hurdles for moving to Windows 10 XAML
- Simple XAML syntax and how to use it to lay out your screen view

- How data binding and templating can help you create a truly modern app

■ VSW07 Designing and Building UX for Finding and Visualizing Data in XAML Applications

Intermediate

BILLY HOLLIS

Wednesday, November 18, 11:00am – 12:15pm

Your biggest single opportunity when moving to XAML applications is being able to help users find the information they need faster and more intuitively. This session shows a host of techniques, including typical sorting and filtering, using shapes and colors to help in data visualization, abstracting entire collections to single graphics for quick assimilation, and ideas for dealing with long lists such as favorites and lists for frequently used items. The session will also feature tips for designing the user experience for search, so you're headed in the right direction before you start writing your XAML.

You will learn:

- About ideas and implementations for sorting and filtering data in XAML
- About ways to use XAML features to visualize data the way your user needs to see it
- The basic techniques for designing the search experience

■ VSW11 Developing Awesome 3D Games with Unity and C#

Introductory / Intermediate

ADAM TULIPER

Wednesday, November 18, 1:45 – 3:00pm

Unity is the premier advanced platform for developing stunning 2D and 3D applications for all major platforms. Microsoft and Unity have partnered to provide first class support in the Unity platform for Windows 10 for free

to developers, rounding out support for every major platform. Come learn the basics of Unity, the UI, assets, code, ways to develop, and some simple but powerful game techniques to get up and running fast with Unity and start creating amazing experiences you didn't think were possible.

You will learn:

- How to navigate Unity's interface and assign advanced functionality to objects
- How to create a world/level and write code to control it
- How to package Unity applications for Microsoft's platforms

■ VSH03 Windows, NUI and You

Introductory / Intermediate

BRIAN RANDELL

Thursday, November 19, 8:00 – 9:15am

This session will show you how to build great modern user experiences—including touch, voice, and motion—using C# and .NET. You'll dig into design patterns around Natural User Interfaces (NUI) and learn how to build rich experiences that support devices beyond the keyboard and mouse. You'll go through the entire process from wire framing, development, to testing of an app that supports touch as well as voice and motion. You'll look at various types of hardware including Kinect.

You will learn:

- About NUI options in Windows
- How to use C# with Kinect
- About different NUI hardware Options



VISUAL STUDIO LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

■ VSH07 Building Adaptive Uis for All Types of Windows

Intermediate

BEN DEWEY

Thursday, November 19, 9:30 – 10:45am

Windows 10 and the Universal App Platform provide incredible breadth when deploying to any device. Unfortunately, not all those devices offer the same screen size. Windows 10 introduces new features and guidance to creating apps and UIs that work across all devices and screen sizes. Ben Dewey will demonstrate these new features that enable Adaptive UIs and will provide tips and tricks to building UIs for multiple screen sizes.

You will learn:

- How to build Adaptive Uis for Windows and Windows Phone
- About new controls available in Windows 10 for building adaptive Uis

■ VSH11 XAML Antipatterns

Intermediate

BEN DEWEY

Thursday, November 19, 11:00am – 12:15pm

XAML is a powerful markup for creating extremely rich application designs. With power comes great responsibility and structuring an XAML based application can be challenging. In this session, Ben Dewey will help you navigate the myriad options available when laying out your application design. He'll focus on tips and tricks to follow and pitfalls to avoid. This session will focus on WPF, but you can apply XAML techniques to all XAML based applications such as Silverlight, Windows Phone and Windows Store based XAML applications.

You will learn:

- Tips for maintaining clean XAML
- Layout tips for responsive XAML based Applications

- How to create modular code with Custom Controls and User Controls

■ VSH15 WPF MVVM In Depth

Intermediate / Advanced

BRIAN NOYES

Thursday, November 19, 1:30 – 2:45pm

Model-View-ViewModel is the most popular UI separation pattern for building loosely coupled and maintainable WPF applications. In this session, you'll get a quick review of the fundamentals of the MVVM pattern and how to apply it with WPF. Then you'll see how to tackle a number of scenarios that often cause confusion with MVVM, including how to navigate or switch views in top level containers, how to nest views and view models in hierarchies, how to manage dependency injection in ViewModels and how to handle complex data binding scenarios.

You will learn:

- The fundamentals of the MVVM pattern
- How to work with hierarchies of views and ViewModels
- How to handle complex data binding scenarios

■ VSH19 Building Maintainable and Extensible MVVM WPF Apps with Prism

Intermediate

BRIAN NOYES

Thursday, November 19, 3:00 – 4:15pm

Prism is a popular toolkit that has been guiding tens of thousands of developers on how to build well-architected desktop applications for more than eight years now. Prism includes new functionality for building applications based on the Model-View-ViewModel (MVVM) pattern, as well as continuing to support building modular, extensible and testable composite desktop applications with WPF. Prism has recently gone open source and has new releases in the works. This session will review Prism's key features and how to use

them, including modularity, UI composition, navigation and loosely-coupled events. Then you'll look at how to implement the MVVM pattern with Prism, and discuss some of the new features in Prism 6.

You will learn:

- New features in Prism 6 and how to use them
- How to use modularity and regions in Prism to build composite loosely-couple applications
- How to use the MVVM and loosely coupled communications support of Prism to build well-structured apps

"THE ENTHUSIASM OF THE PRESENTERS AND KEYNOTE SPEAKERS WAS OUTSTANDING. HEARING ABOUT THE ACTUAL TECHNOLOGY AND DEVELOPMENT METHODS COMING DOWN THE PIKE IS KEY."

- Fareed (Freddy) Khan, Toyota

For full speaker bios, go to live360events.com/orlando

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Ben Hoelting
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VISUAL STUDIO LIVE! CONFERENCE SPEAKERS (continued)



Billy Hollis
Next Version Systems



James Montemagno
Developer Evangelist, Xamarin



Rachel Reese
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Philip Japikse
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AGENDA AT-A-GLANCE

System Center and Config Management	Soft Skills for IT Pros	Security	Windows OS	Cloud & Mobile	Windows PowerShell
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START TIME	END TIME	TechMentor Pre-Conference: Sunday, November 15, 2015
4:00 PM	9:00 PM	Pre-Conference Registration • Royal Pacific Resort Conference Center
6:00 PM	9:00 PM	Dine-A-Round Dinner @ Universal CityWalk


START TIME	END TIME	TechMentor Pre-Conference Workshops: Monday, November 16, 2015
8:00 AM	5:00 PM	<div>TMM01 - Workshop: Windows PowerShell Scripting and Toolmaking - Jeff Hicks</div> <div>TMM02 - Workshop: Service Management Automation for the Uninitiated - Jason Helmick</div>
5:00 PM	6:00 PM	EXPO Preview
6:00 PM	7:00 PM	LIVE! 360 KEYNOTE: Microsoft 3.0: New Strategy, New Relevance - Mary Jo Foley, Journalist and Author; with Andrew Brust, Senior Director, Datameer

START TIME	END TIME	TechMentor Day 1: Tuesday, November 17, 2015
8:00 AM	9:00 AM	TECHMENTOR KEYNOTE: How To Get Your Company Moving Forward In Technology Jason Helmick, Author, Pluralsight; Greg Shields, MVP, vExpert, Author Evangelist, Pluralsight
9:00 AM	9:30 AM	Networking Break • Visit the EXPO
9:30 AM	10:45 AM	<div>TMT01 - Your Approach to BYOD Sucks! - Simon May</div> <div>TMT02 - Deploying Windows Apps in the Cloud with RemoteApp - John O'Neill, Sr.</div> <div>TMT03 - Secure Access from Everywhere! Implementing DirectAccess in Win2012R2 - Rich Hicks</div>
11:00 AM	12:15 PM	<div>TMT04 - Digging Deep into Microsoft InTune Patching and Mobile Management Solutions (BYOL - RA) - Mike Nelson</div> <div>TMT05 - Integrating Active Directory with Azure, Step by Step - John O'Neill, Sr.</div> <div>TMT06 - Using Sysinternals to Fight Malware - Michael Wiley</div>
12:15 PM	2:00 PM	Lunch • Visit the EXPO
2:00 PM	3:15 PM	<div>TMT07 - PowerShell Remoting Best Practices - Jeff Hicks</div> <div>TMT08 - Why Your Company Needs a Cloud-Based Identity - Simon May</div> <div>TMT09 - Windows 10—The Important New Features - Sami Laiho</div>
3:15 PM	4:15 PM	Networking Break • Visit the EXPO
4:15 PM	5:30 PM	<div>TMT10 - Mastering Regular Expressions in PowerShell - Jeff Hicks</div> <div>TMT11 - Rocking Your Cloud with Docker! (BYOL / RA) - Mike Nelson</div> <div>TMT12 - Windows Server vNext: Here's What We Know - Don Jones</div>
5:30 PM	7:30 PM	Exhibitor Reception

Sessions and speakers subject to change.

Continued next page

AGENDA AT-A-GLANCE (continued)

System Center and Config Management		Soft Skills for IT Pros		Security		Windows OS		Cloud & Mobile		Windows PowerShell		
TechMentor Day 2: Wednesday, November 18, 2015												
8:00 AM		9:00 AM		LIVE! 360 KEYNOTE: DevOps—What it Means to You and How to Get There - Don Jones, Curriculum Director, Pluralsight; Brian Randell, Partner, MCW Technologies <i>Sponsored by</i> PLURALSIGHT								
9:15 AM		10:30 AM		TMW01 - Ethical Hacking: Methodologies and Fundamentals - Mike Danseglio & Avril Salter			TMW02 - Using Azure Site Recovery for Easy, Secure Off-Site Backup - John O'Neill, Sr.			TMW03 - Absolute Beginner's Guide to Advanced Hyper-V Networking - Greg Shields		
10:30 AM		11:00 AM		Networking Break • Visit the EXPO								
11:00 AM		12:15 PM		TMW04 - Ethical Hacking: Recon, Data Gathering, and Target Selection - Mike Danseglio & Avril Salter			TMW05 - Real Time Monitoring of User Experience in VDI - Jeff Stokes			TMW06 - Sysinternals—The Latest and Greatest Updates! - Michael Wiley		
12:15 PM		1:45 PM		Birds-of-a-Feather Lunch • Visit the EXPO								
1:45 PM		3:00 PM		TMW07 - Ethical Hacking: Destroying and Compromising Wireless Networks - Mike Danseglio & Avril Salter			TMW08 - Top Seven Tasks Required to Successfully Administer Office 365 - Justin Harris			TMW09 - Windows Internals Black Belt: Become a Troubleshooting Ninja - Sami Laiho		
3:00 PM		4:00 PM		Networking Break • Visit the EXPO • Expo Raffle @ 3:30 p.m.								
4:00 PM		5:15 PM		TMW10 - Ethical Hacking: Denial of Service and Social Engineering - Mike Danseglio & Avril Salter			TMW11 - Migrating to Office 365: Strategies - J. Peter Bruzzese			TMW12 - DISCUSSION; Career Strategies for the IT Pro - Greg Shields		
8:00 PM		10:00 PM		Live! 360 Dessert Luau <i>Sponsored by</i>  <small>The AWS Cloud supports Microsoft Windows Server</small>								

Sessions and speakers subject to change.

Continued next page

AGENDA AT-A-GLANCE (continued)

System Center and Config Management	Soft Skills for IT Pros	Security	Windows OS	Cloud & Mobile	Windows PowerShell
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START TIME	END TIME	TechMentor Day 3: Thursday, November 19, 2015		
8:00 AM	9:15 AM	TMH01 - Advanced PowerShell Traps and Gotchas - Don Jones	TMH02 - VDI Image Optimization and Troubleshooting - Jeff Stokes	TMH03 - Windows Internals Black Belt: Memory Management - Sami Laiho
9:30 AM	10:45 AM	TMH04 - DSC Design and Planning - Don Jones	TMH05 - Securing Devices with InTune: Deep Dive - Justin Harris & Lawrence Novak	TMH06 - Building Better Hyper-V Guest Clusters - Bruce Mackenzie-Low
11:00 AM	12:15 PM	TMH07 - Building a Secure DSC Pull Server - Jason Helmick	TMH08 - Managing and Securing Devices with Microsoft EMS - Justin Harris & Lawrence Novak	TMH09 - Windows Internals Black Belt: Security - Sami Laiho
12:15 PM	1:30 PM	Lunch on the Lanai		
1:30 PM	2:45 PM	TMH10 - Creating Class-Based DSC Resources - Jason Helmick	TMH11 - Exchange and O365 PowerShell - Michael O'Neill	TMH12 - DISCUSSION: Delivering Better Presentations - Don Jones
3:00 PM	4:15 PM	TMH13 - PowerShell Unplugged: Stuff I Stole from Snover - Don Jones	TMH14 - O365 and Exchange Hybrid Management - Michael O'Neill	TMH15 - Windows 10 Deployment with Config Man OSD—Planning and Strategy - Steven Rachui
4:30 PM	5:45 PM	LIVE! 360 CONFERENCE WRAP-UP - Andrew Brust (Moderator), Andrew Connell, Don Jones, Rockford Lhotka, Matthew McDermott, Brian Randell, & Greg Shields		

START TIME	END TIME	TechMentor Post-Conference Workshops: Friday, November 20, 2015	
8:00 AM	5:00 PM	TMF01 - Workshop: Mastering Windows Troubleshooting: BSODs, System Hangs, and Performance Problems (BYOL) - Bruce Mackenzie-Low	TMF02 - Workshop: Application Deployment—The Configuration Manager Way - Steven Rachui

Sessions and speakers subject to change.

BRING YOUR OWN LAPTOP (BYOL)

Bring your own laptop to participate in the Hands On Lab (HOL) or Ride Along (RA) with the speaker. Please note specific laptop requirements and prerequisites for each session.

RA: Optionally Bring Your Own Laptop to Ride Along with the Speaker—see session description for prerequisites

HOL: Bring Your Own Laptop for Hands-On Labs—see session description for prerequisites



TECHMENTOR SESSION DESCRIPTIONS BY TRACK

System Center and Configuration Management

This year—2015—will be the Year of Configuration Management for the Microsoft world, and TechMentor has the training you'll need to keep up. We'll help you top up your skills in System Center Service Management Automation, OS deployment, app deployment and more.

■ TMM02 Workshop: Service Management Automation for the Uninitiated

Intermediate / Advanced

JASON HELMICK

Monday, November 16, 8:00am – 5:00pm

Your datacenter/cloud is growing at a rapid rate. You need to start automating management tasks or you'll quickly become overwhelmed. You may have started using System Center Orchestrator, but now it's time to step up to SMA. Confused on how to begin? Let automation expert and PowerShell MVP Jason Helmick guide you through the ins and outs of going beyond the basics and turning SMA into your cloud automation solution.

You will learn:

- How to implement and manage SMA
- How to monitor and react to events
- How to automate provisioning and maintenance tasks

■ TMT04 Digging Deep into Microsoft Intune Patching and Mobile Management Solutions (BYOL RA)

Introductory / Intermediate

MIKE NELSON

Tuesday, November 17, 11:00am – 12:15pm

Microsoft Intune is quite possibly the most underrated cloud service from Microsoft. With everything from Computer, Groups, and User management; to patching, policies, and even mobile management, there's an enormous amount of power and benefit to this product for anything from small businesses to large enterprises. In this session, we'll dig into the Intune world, covering all of it in brief, along with deeper insights into the patch management and mobile management features. Managing patches and updates has always been a thorn in IT's side. We'll take a look at how Intune can help resolve some of those issues and make the job much easier. With the advent of Mobile Device Management (MDM), Intune brings with it a solid beginning to this technology, and we'll discuss how it can and will improve in the future.

If you have an active Intune subscription, we encourage you to bring your laptop and follow along, asking any questions you may have as we go.

You will learn:

- How to successfully deploy and manage your Microsoft Intune Patching and MDM solution
- A more complete understanding of the benefits and drawbacks of the product offering, as well as what may be coming in the future
- More about patching and mobile management, two of the most talked about solutions that IT has to deal with on a daily basis
- Real solutions and tips for integration from the field

■ TMF02 Workshop: Application Deployment—The Configuration Manager Way

Intermediate

STEVEN RACHUI

Friday, November 20, 8:00am – 5:00pm

This session will provide a complete review of the software update mechanism in Configuration Manager 2012. We'll start with an introduction to software updates and will continue with a deep dive into software update internals. There will also be a discussion of monthly software update strategy, automation and third party software updating.

You will learn:

- The components of software updates
- Production software update strategy
- The internals of software updates

"I MET GOOD IT PROS AND EXPERIENCED SPEAKERS WHO SHARED ADVANCED, NEW IT SKILLS."

-Zu-Ting Swenson, NECA



TECHMENTOR SESSION DESCRIPTIONS BY TRACK (continued)

Soft Skills for IT Pros

Being a successful IT pro requires more than just technology skillz. TechMentor helps boost your career with a selection of "soft skills" presentations from some of the industry's most experienced instructors and motivational speakers.

■ TMW12 DISCUSSION; Career Strategies for the IT Pro

Introductory

GREG SHIELDS

Wednesday, November 18, 4:00 – 5:15pm

Cloud computing, BYOD, PowerShell administration, pervasive security threats—the very foundations of our IT industry are evolving faster than ever. Are you comfortable with your job, your role to play and the career path you've chosen? Have you made good career decisions or are you seeking advice from others who have? Let's chat.

Join your fellow conference attendees in this open discussion and Q&A on career strategies for IT professionals. Facilitated by Greg Shields, author evangelist with Pluralsight, this session offers an opportunity to share your experiences in an interactive format. Bring your experiences, your questions, and most importantly your concerns to this group conversation. Together, we'll shed light on the career strategies that are working—and those that aren't.

You will learn:

- How to prepare yourself for future career decisions
- How to better understand your career path, including training, experience, technology focus, and pitfalls to avoid
- About the career decisions of fellow conference attendees

■ TMH12 DISCUSSION: Delivering Better Presentations

Introductory/ Intermediate

DON JONES

Thursday, November 19, 1:30 – 2:45pm

Take your career up a notch by learning to deliver presentations that are more effective, more interesting and less stressful. Don Jones, a professional presenter for more than two decades, shares some of his favorite secrets for building better presentations. Whether you're prepping for a user group presentation or a weekly team meeting, you'll want to master these tips for being a better public speaker.

You will learn:

- Build more effective and engaging presentations
- Become the master of team meetings
- Conquer your fear of presentations and meetings

"GREAT CONFERENCE! REALLY LIKED THE ADDITION OF TECHMENTOR. WILL RECOMMEND THAT MY SERVER/NETWORK ADMIN ATTEND NEXT YEAR TOO!"

*- David Hugh, St Lucie County
Property Appraiser*

Security

Learn to secure your environment—and attackers will inevitably try to get around you! Learn how to "think like a hacker" so you can prevent them from even getting within spitting distance of your organization's valuable electronic assets. We've assembled some of the best in the industry to guide you through deep-dives on computer forensics, ethical hacking, wireless networking and more.

■ TMT01 Your Approach to BYOD Sucks!

Intermediate /Advanced

SIMON MAY

Tuesday, November 17, 9:30 – 10:45am

Most IT departments are wrestling with a BYOD project or implementation. The idea is to let people bring their own devices so they can be productive on those devices anywhere. Your company's top brass may or may not want you to let them do that, and it's certain your compliance auditors and regulators want to apply certain controls over personal devices. That's where you'll clash with your business users.

Many organizations approach BYOD as if they have a sense of entitlement over device ownership. Today's workforce—especially the younger workers—won't have it. They'll go elsewhere for work. And they won't enroll their device.

Learn why and how you can build the infrastructure to do what the top brass really want—make the organization productive—without sacrificing what the users really want. They want their device, their life, their way of working and their personal productivity.

You will learn:

- How to manage devices (iOS, Android, Windows 10) with Microsoft Intune
- How to manage Office Apps on iOS and Android
- The tricks for getting BYOD right



TECHMENTOR SESSION DESCRIPTIONS BY TRACK (continued)

■ **TMW01 Ethical Hacking: Methodologies and Fundamentals**

Introductory / Intermediate

MIKE DANSEGLIO & AVRIL SALTER

Wednesday, November 18, 9:15 – 10:30am

Ethical Hacking is the best way to find vulnerabilities the way real hackers do. You use their tools and processes. You'll see how hackers work and how they begin their attacks through careful planning. You'll also understand the fundamental concepts of ethical hacking including liability issues, legal constraints, and core terminology.

You will learn:

- How to apply a hacker methodology to examine a network
- How to plan an ethical hacking exercise
- How to select core tools to build your hacker toolkit before an attack begins

■ **TMW04 Ethical Hacking: Recon, Data Gathering, and Target Selection**

Introductory / Intermediate

MIKE DANSEGLIO & AVRIL SALTER

Wednesday, November 18, 11:00am – 12:15pm

You'll learn how a hacker decides which of your assets are hack-worthy and how they begin to attack your systems without sending a single packet. You'll also see how hackers build a network map of your enterprise—just like your own IT department—but for planning and attacking your systems. This session will include demonstrations of live hacking including social media scanning and external network footprinting.

You will learn:

- How to determine and prioritize optimal targets for hacking
- How to select the most appropriate attack for a given asset
- How to create and implement an attack plan using hacker methodologies

■ **TMW07 Ethical Hacking: Destroying and Compromising Wireless Networks**

Intermediate / Advanced

MIKE DANSEGLIO & AVRIL SALTER

Wednesday, November 18, 1:45 – 3:00pm

Ethical Hacking is the best way to find vulnerabilities the way real hackers do. You use their tools and processes. You'll see real-time wireless sniffing and network penetration attacks using current hacker tools. This session pays special attention to wireless because it provides a more favorable cost:benefit to hackers. Warning: this session is not for those with weak constitutions as many of the attacks are difficult or impossible to defend against. This session will include demonstrations of live wireless hacking and Denial of Service (DOS) attacks.

You will learn:

- How to deploy and manage network snooping and enumeration tools
- How to use Wireshark to capture and analyze wireless traffic
- How to spoof wireless access points and clients to compromise network integrity

■ **TMW10 Ethical Hacking: Denial of Service and Social Engineering**

Intermediate / Advanced

MIKE DANSEGLIO & AVRIL SALTER

Wednesday, November 18, 4:00 – 5:15pm

The two attacks that IT professionals fear the most are Denial of Service and Social Engineering. There's very little you can do to protect against or even reduce the impact of these two attacks. So come see how real hackers do them. You'll see tools like the Low Orbit Ion Cannon that have only one purpose: destroy access to your assets. You'll also see live examples of some of the most effective Social Engineering attacks in use today.

You will learn:

- How to select and attack the most vulnerable network assets
- How to select and attack the most vulnerable human
- How to decimate servers and network assets with freely available hacker tools



TECHMENTOR SESSION DESCRIPTIONS BY TRACK (continued)

Windows OS

This year, TechMentor will provide an expanded level of coverage for the Windows operating system itself, including Sysinternals coverage, Hyper-V, massive troubleshooting and performance sessions, Windows 10 coverage and a series of Windows Internals Black Belt courses. Brace yourself for full Windows immersion.

■ TMT03 Secure Access from Everywhere! Implementing DirectAccess in Win2012R2

Intermediate / Advanced

RICHARD HICKS

Tuesday, November 17, 9:30 – 10:45am

With today's highly mobile workforce, providing secure access regardless of location is essential to maintain productivity. DirectAccess is a remote access technology included with Windows Server 2012 R2. It's a paradigm shift in the way to deliver remote access. DirectAccess provides always-on, seamless and transparent remote access any time a client is connected to the Internet. With DirectAccess, users access data and applications remotely in exactly the same way as they do in the office. Network communication is protected with IPsec encryption and authenticated with Kerberos, NTLM and certificates. DirectAccess connectivity is bi-directional, which enables manage-out capabilities not available with tradition VPN solutions.

You will learn:

- To understand how DirectAccess works
- The differences between DirectAccess and VPN
- How to identify platform technology prerequisites
- How to determine the best DirectAccess deployment model
- How to select a high availability and redundancy option
- How to prepare for Windows 7 client support

■ TMT06 Using Sysinternals to Fight Malware

Intermediate / Advanced

MICHAEL WILEY

Tuesday, November 17, 11:00am – 12:15pm

Several of Sysinternals tools have been updated recently to help deal with the scourge of malware. We will present a brief overview of these Sysinternals tools, focusing on how they deal with viruses, worms, adware and other unwanted intrusions. Then we'll dive deep into some of the Sysinternals tools, including Process Monitor, Process Explorer and Autoruns, focusing on the features useful for malware analysis and removal. These utilities let you perform deep level inspection and control processes, file system and registry activity, and autostart execution points. We'll discuss and demo the tools in action dealing with current real-work malware. We'll also show you some of the malware that can't be fought with current tools, and best practices to avoid infection.

You will learn:

- To understand different types and activities of malware
- To understand the integration of Sysinternals and security software/vendors
- How to leverage the Sysinternals tools to fight malware

■ TMT09 Windows 10 The Important New Features

Introductory/ Intermediate

SAMI LAIHO

Tuesday, November 17, 2:00 – 3:15pm

Windows 10 is said to be the Best and the Last Windows version ever! Is it just promiseware or is it really a justified statement? In this session you will see one of the leading Windows OS experts in the world, MVP Windows IT Pro Sami Laiho, show the features of Windows 10 you should really be excited about.

You will learn:

- What new features of Windows 10 are of interest to companies in real life
- What new features of Windows 10 you should focus on including those didn't even know existed
- How to plan and deploy new Windows 10 features in an enterprise

■ TMT12 Windows Server vNext: Here's What We Know

Intermediate

DON JONES

Tuesday, November 17, 4:15 – 5:30pm

Windows Server v.Next is expected in 2016, but what will it include? MVP Don Jones walks you through what we know: new features, major changes and how this'll affect your business. He'll also make some predictions and help you understand how this release of Windows Server will affect your environment, whether you adopt it or not. Finally, he'll explore what new business directions this release represents for Microsoft.

You will learn:

- Get a head start on v.Next features
- Adjust your business and career direction
- Learn where Microsoft is headed

■ TMW03 The Absolute Beginner's Guide to Advanced VMM Networking

Intermediate

GREG SHIELDS

Wednesday, November 18, 9:15 – 10:30am

Whether you're a beginner or an expert, networking with Hyper-V and VMM can be surprisingly difficult. Even connecting a pair of Hyper-V hosts on a network is not an easy task. The challenge only gets more difficult as you add virtual switches, logical switches, Hyper-V network virtualization and the variety of VMM's other nifty networking bits.



TECHMENTOR SESSION DESCRIPTIONS BY TRACK (continued)

Join Greg Shields in this deep dive exploration of virtual networking with System Center Virtual Machine Manager. In this 100 percent demo session, you'll explore the best ways to configure VMM's many networking components, including Hyper-V Network Virtualization, and leave with a better appreciation for VMM's abilities to connect your virtual machines together.

You will learn:

- Why VMM offers so many networking objects, and the best ways to connect them together
- Experience a 100 percent demo session as Greg constructs a production-ready VMM infrastructure that supports complex networking and Hyper-V network virtualization
- The step-by-step instructions you need to accomplish the same in your own environment

■ TMW06 Sysinternals—The Latest and Greatest Updates!

Intermediate / Advanced

MICHAEL WILEY

Wednesday, November 18, 11:00am – 12:15pm

For any IT pro or Developer on the Windows platform, the Sysinternals utilities are vital tools in your arsenal. While Mark Russinovich's popular "Case of the Unexplained" demonstrates some of their capabilities in advanced troubleshooting scenarios, this session will concentrate on the tools themselves. The focus will be on the updates to the tools since the release of the "Windows Sysinternals Administrator's Reference." We'll deep dive into some of the more popular tools like Process Monitor and Autoruns, as well as demonstrate and discuss the lesser known tools. We will have in-depth analysis using the Sysinternals tools and how they can help troubleshoot issues with applications and Windows.

You will learn:

- A deeper understanding of the major Sysinternals tools (Process Monitor, Process Explorer, and Autoruns)
- Advanced analysis of troubleshooting techniques with many of the other Sysinternals tools, including new tools (Sysmon), and when to use which tool
- Understand the latest updates and changes to the Sysinternals tools since the release of the book Sysinternals Administrator's Reference

■ TMW09 Windows Internals Black Belt: Become a Troubleshooting Ninja

Intermediate / Advanced

SAMI LAIHO

Wednesday, November 18, 1:45 – 3:00pm

Did you know the biggest mistakes in troubleshooting Windows happen when using the Administrator account and troubleshooting processes? Do you know how process priorities relate to IRQ Levels and how IRQ's relate to actual hardware IRQ-values? How does Windows use locking to allow for multi-processing on multiple processors? Have you ever wondered what Mutexes or Semaphores in Process Explorer really mean? When faced with an unknown problem to solve, it's easier to see what's wrong when you know what's not. Every troubleshooter benefits from knowing how Windows is actually built!

You will learn:

- How Windows actually works in cooperation with the hardware
- How to become a better troubleshooter
- How an OS should work to spot malware and troubleshoot relevant issues

■ TMH03 Windows Internals Black Belt: Memory Management

Intermediate / Advanced

SAMI LAIHO

Thursday, November 19, 8:00 – 9:15am

Have you ever wondered if Windows Pagefile settings should be changed or how they actually work? Have you ever wondered what the values in Task Manager actually mean—like Paged Pool, Working Set, Free memory and so on? Have you ever wondered how to really know if you need more memory to solve a problem or are you just facing a bad behaving application? These are examples of questions that will be answered during this session by Sami Laiho.

You will learn:

- How Windows memory management works
- How to spot memory bottlenecks and memory leaking applications
- How to adjust the pagefile settings and what should or shouldn't do

■ TMH06 Building Better Hyper-V Guest Clusters

Intermediate

BRUCE MACKENZIE-LOW

Thursday, November 19, 9:30 – 10:45am

Over the years, Microsoft has consistently embraced and enhanced failover clusters to provide a fault tolerant platform for your mission critical applications. Now with Hyper-V, there are many new opportunities to virtualize your legacy clusters to take advantage of newer hardware and the latest operating system features. In this session, you'll learn how you can implement virtual guest clusters in your environment with Windows Hyper-V. This will cover a variety of storage scenarios including shared iSCSI disks, virtual HBAs and shared VHDX (Virtual Hard



TECHMENTOR SESSION DESCRIPTIONS BY TRACK (continued)

Disk) files. You'll also learn about the best practices for configuring guest cluster networks, implementing Active Directory-detached clusters, and other Windows Server 2012 R2 clustering features.

You will learn:

- How to configure storage components for guest clusters
- Best practices for configuring guest cluster networks
- How to implement Active Directory-Detached guest clusters

■ TMH09 Windows Internals Black Belt: Security

Intermediate / Advanced

SAMI LAIHO

Thursday, November 19, 11:00am – 12:15pm

Do you know how to bypass UAC and how to make it really secure? Do you know why Windows 7 audits hundreds of events, although no auditing is enabled? Do you know the difference between security policies and group policies, as they are in no way related? Do you know how to execute Pass the Hash or Pass the Ticket attacks or how to prevent them? Do you know how Windows access tokens really get built and changed or how they can be viewed with a kernel debugger? These are examples of things that Sami Laiho teaches on this Black Belt class about how Windows security subsystem is actually built!

You will learn:

- How Windows security subsystem really works
- How to effectively troubleshoot security related issues
- How to bypass and harden Windows security barriers

■ TMH15 Windows 10 Deployment with Config Man OSD Planning and Strategy

Intermediate

STEVEN RACHUI

Thursday, November 19, 3:00 – 4:15pm

Organizations around the world will soon be planning for their Windows 10 deployments. This session will discuss the configurations and strategies you'll need to use Configuration Manager OSD to drive these deployments. Discussions will include reviewing the task sequence components unique to Windows 10 deployments and other required configurations for deployment. Demonstrations will include leveraging OSD for upgrading existing systems to Windows 10 and general deployment considerations for bare metal deployments.

You will learn:

- About the requirements for Windows 10 deployments using OSD
- Detail changes in task sequencing to support Windows 10
- How to prepare and plan for Windows 10 deployment options in your organization

■ TMF01 Workshop: Mastering Windows Troubleshooting: BSODs, System Hangs, and Performance Problems (BYOL-HOL)

Advanced

BRUCE MACKENZIE-LOW

Friday, November 20, 8:00am – 5:00pm

In this full day workshop, you'll gain hands-on experience as you practice with proven tools and techniques for resolving Windows crashes, hangs and performance issues.

Seize 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, system hangs and performance issues. Leverage free, state-of-the-art tools from Microsoft including the Windows Debugger and the Windows Performance Toolkit, 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 7 or later to gain hands-on experience with labs (suggested but not required). You'll need at least 2GB of free disk space to install tools and stage lab materials. Power strips will be provided.

You will learn:

- Best practices for analyzing Windows crashes, hangs and performance issues
- Gain hands-on experience with proven techniques for troubleshooting complex outages
- Install the latest free tools from Microsoft ready to take back to your office

TECHMENTOR SESSION DESCRIPTIONS BY TRACK (continued)

Cloud & Mobile

Whether it's your cloud or someone else's, we've assembled a set of sessions designed to help you leverage today's "cloud" technologies—with zero marketing fluff. Secure access by external users, learn where it makes sense to use Azure (and where it doesn't), and use Microsoft's own Azure-scale tools right in your own datacenter. We're including new coverage for mobile device management, Office 365 integration and more!

■ TMT02 Deploying Windows Apps in the Cloud with RemoteApp

Introductory / Intermediate

JOHN O'NEILL, SR.

Tuesday, November 17, 9:30 – 10:45am

Easily extend anytime, anywhere and any device access to critical business applications using Microsoft Azure RemoteApp. Organizations no longer need take on steep development costs to provide mobile device access to Windows applications. Leveraging Azure RemoteApp, Windows, OS X, iOS, and Android devices become key productivity tools. Organizations can deploy software from everyday apps such as Office to line of business apps including ERP or CRM solutions. Azure RemoteApp provides unprecedented scaling, quickly adjusting to changing business or workforce demands.

You will learn:

- How to deploy a Windows application through Azure RemoteApp
- How to creating a RemoteApp Collection
- Supported authentication methods
- About accessing apps from Windows, iOS, Mac OS X, or Android devices

■ TMT05 Integrating Active Directory with Azure, Step by Step

Introductory / Intermediate

JOHN O'NEILL, SR.

Tuesday, November 17, 11:00am – 12:15pm

The cloud is no longer limited to large organizations or server applications. Microsoft's Azure and Office 365 offerings let even the smallest organizations realize the advantage of cloud based solutions. This session will prepare attendees for the first steps in an Office 365 deployment including deploying Active Directory Federation Services (ADFS), synchronizing Microsoft Azure Active Directory with on premise AD and on-going account management. This will incorporate the latest tools and techniques from Microsoft making integration easier than ever before.

You will learn:

- Integrating on premise AD with Microsoft Azure AD, step by step
- Completing Directory Synchronization
- Office 365 Portal administration
- Single sign-on with Office 365

■ TMT08 Why Your Company Needs a Cloud-Based Identity

Intermediate / Advanced

SIMON MAY

Tuesday, November 17, 2:00 – 3:15pm

Everyone is mobile today. People in your organization are accessing their information from anywhere and everywhere thanks to some fundamental shifts in work behavior. Consequently, IT isn't in control of every single software decision any more. The sales director, the Chief Marketing Officer, Joe in accounts—they all make decisions without a single thought about company standard operating environment. As a result, you need user names and passwords for 10, 20, 30, 1,000 different

systems. And then Jane in the dev team builds a new expense management platform. Where does she get the ID's from?

You open a new branch office and the VPN keeps cutting out. People can't sign on, so they spend more and more time on social sites.

You've probably faced problems like these. In this session, you'll learn how the cloud can help with Identity and Access Management, with new controls built for just these challenges.

You will learn:

- The secret to Azure AD integration
- How to enable access to identity from anywhere
- How to make on-premises applications more securely accessible

■ TMT11 Rocking Your Cloud with Docker! (BYOL-RA)

Introductory / Intermediate

MIKE NELSON

Tuesday, November 17, 4:15 – 5:30pm

Virtualization is a really cool technology, but Containers are really the next chapter in application mobility and deployment standardization. Docker is the leader in this space and it's easy to use, easy to configure, and you can even have a bit of fun playing around with it. This technology can integrate with all types of platforms on both private and public cloud spaces and brings real value to the sysadmin just as it does for the developer.

We'll briefly cover what Containers are and logic behind them, and then get a bit more technical around how to implement and use Docker in many different scenarios. You'll learn about pulling images, adding applications, and pushing them back into our repositories. You'll also hear how to make your images available to the world on the Docker Hub. You'll even learn how to put Docker in the Microsoft Azure cloud using the Docker extensions.



TECHMENTOR SESSION DESCRIPTIONS BY TRACK (continued)

Bring your laptop and follow along as we take a trip into App Containers and the world of Docker!

You will learn:

- How to install, configure, and use basic Docker commands from a local Operating System, and see how it is done in the Azure Cloud
- Why application containers are a really great and innovative technology solution for standardizing your application deployments and distributions
- How application containers would fit into a couple of different scenarios in small and large enterprises, and how they may relate to your own experiences

■ TMW02 Using Azure Site Recovery for Easy, Secure Off-Site Backup

Introductory/ Intermediate

JOHN O'NEILL, SR.

Wednesday, November 18, 9:15 – 10:30am

In the Information Age, data is king. Nothing will ruin an IT Pro's day faster than losing important data because a backup was corrupt, incomplete or non-existent. Recovery needs to occur quickly, but at the same time backups need to be protected by storing them off-site. With Microsoft Azure as a backup target, organizations can rest assured their data is safely stored away from the datacenter, but can still be recovered quickly. The days of shuttling tapes to a safety deposit box or off-site DC are over. This in-depth session will cover exactly what it takes to backup in-house data to Microsoft Azure quickly and easily.

You will learn:

- When to use Azure Site Recovery and when not to
- How Microsoft Azure provides reliable, off-site data storage
- How to backup physical and virtual servers and clients to Microsoft Azure
- Tools for managing Microsoft Azure backups

■ TMW05 Real Time Monitoring of User Experience in VDI

Intermediate/Advanced

JEFF STOKES

Wednesday, November 18, 11:00am – 12:15pm

Join Jeff Stokes for a discussion on why real time monitoring of the User Experience is very important to the success of a VDI project. An often ignored or secondary concern in VDI projects, this one thing can make or break the success of a VDI implementation. We will also introduce LoginVSI PI, as well as a free custom trip-wire black-box technology invented by Jeff.

You will learn:

- The importance of the user experience in VDI projects
- How to implement user experience 'canaries' in your VDI 'coalmine'
- About performance aspects of VDI implementations, dos and don'ts

■ TMW08 Top Seven Tasks Required to Successfully Administer Office 365

Intermediate

JUSTIN HARRIS

Wednesday, November 18, 1:45 – 3:00pm

This session will walk you through the top seven administrative tasks critical to achieve a successful transition into Office 365. Learn how to leverage the cloud to increase automation and drive end user productivity. Pinpoint tasks you can automate and leverage to ensure Office 365 components and applications are monitored and adhere to best practices, while providing you with additional clarity into your tenant. Leverage the power of Office 365 to drive end user productivity while decreasing the amount of management time.

You'll learn ways to automate tasks such as provisioning new employees with all the necessary Office 365

components, manage your tenant's health and follow industry standard best practices.

■ TMW11 Migrating to Office 365: Strategies

Intermediate / Advanced

J. PETER BRUZZESE

Wednesday, November 18, 4:00 – 5:15pm

There are often three questions companies have when considering the move to Office 365. First, should we move to Office 365? Second, if we did decide to make the move, how would we go about doing it? Finally, what are my "morning after" blues going to look like? What am I not thinking about?

This session will cover all three, with the heaviest focus being on the how to make that move to Office 365 depending on the size of your organization, the current infrastructure and third-party services you currently deal with (anti-malware, legacy archive and so on) and ways to avoid the "gotcha" feeling afterward by planning ahead.

You will learn:

- The pros and cons of Office 365
- The methods available for making a move to Office 365 (ie. Hybrid Configuration Wizard, cutover vs. staged, etc.)
- The top gotchas! including data migration, legacy archive extraction woes, on-prem services and the cloud and more

■ TMH05 Securing Devices with InTune: Deep Dive

Introductory/ Intermediate

JUSTIN HARRIS & LAWRENCE NOVAK

Thursday, November 19, 9:30 – 10:45am

This session will provide a deep dive on how to secure Android, iOS, and Windows Phone devices using



TECHMENTOR SESSION DESCRIPTIONS BY TRACK (continued)

Microsoft Intune. We'll discuss and then show you the different methods you can use to securely manage mobile devices such as Conditional Access, mobile application management, managed browser, managed PDF view and bulk enrollment.

■ **TMH08 Managing and Securing Devices with Microsoft EMS**

Introductory / Intermediate

JUSTIN HARRIS & LAWRENCE NOVAK

Thursday, November 19, 11:00am – 12:15pm

This intermediate session will provide an overview of the Microsoft Enterprise Mobility Suite. We'll demonstrate and discuss step-by-step instructions to show how small and mid-size businesses can design, install, configure and maintain Microsoft Azure Active Directory Premium, Microsoft Intune and Microsoft Azure Rights Management.

■ **TMH11 Exchange and O365 PowerShell**

Introductory / Intermediate

MICHAEL O'NEILL

Thursday, November 19, 1:30 – 2:45pm

These topics cover the Exchange on premises and Exchange Online administration, configuration and auditing using simple PowerShell commandlets to help you save time, save money, and be more productive with your day-to-day tasks.

You will learn:

- Administration: Simple steps and one-liners to help you administrate your Exchange/O365 environment
- Auditing: How to setup simple tasks using scripts for poor man monitoring and auditing of your Exchange environment

- Configuration: How to verify Azure AD synchronization, Exchange on-premises co-existence, and testing connectivity.

■ **TMH14 O365 and Exchange Hybrid Management**

Intermediate / Advanced

MICHAEL O'NEILL

Thursday, November 19, 3:00 – 4:15pm

This course covers the Exchange Online administration portal and Hybrid deployment scenarios. You can learn how to manage both O365 and On Premises Exchange servers, AAD Sync, and the new AAD Connect tool.

You will learn:

- Administration: Exchange online administration and configuration design considerations
- Active Directory Synchronization: How to use AAD Sync and AAD Connect to manage accounts, assign licenses, and use PowerShell to manage the environment
- Hybrid co-existence using Single Sign-On or Same Sign On and Hybrid requirements for on-premises synchronization

Windows PowerShell

TechMentor brings you an unprecedented, best-in-the-world level of Windows PowerShell training, including extensive work with Desired State Configuration. This is one of Microsoft's hottest and most important technologies, and this is your chance to learn it from the best!

■ **TMM01 Workshop: Windows PowerShell Scripting and Toolmaking (BYOL-RA)**

Introductory / Intermediate

JEFFERY HICKS

Monday, November 16, 8:00am – 5:00pm

This full day workshop will take your PowerShell skills to the next level. If you have some basic PowerShell experience or have dabbled in creating a PowerShell script or function, you're ready for PowerShell MVP, author and trainer Jeff Hicks to lead you into the land of tool-making. Over the course of the day, you'll learn about scripting concepts such as scope, when to use a script, when to use a function and how to turn your PowerShell idea into a complete PowerShell tool. Anyone can type a PowerShell command—PowerShell pros know how to make tools. Come with a laptop running PowerShell 4.0 and follow along.

You will learn:

- When to create a script and when to create a function
- How to create an advanced function that behaves just like a cmdlet
- PowerShell scripting best practices as well as many tips and tricks for creating better tools, faster



TECHMENTOR SESSION DESCRIPTIONS BY TRACK (continued)

■ TMT07 PowerShell Remoting Best Practices

Introductory

JEFFERY HICKS

Tuesday, November 17, 2:00 – 3:15pm

PowerShell wouldn't be of much use if all you could do was manage a local computer. Fortunately, PowerShell remoting makes so much else possible. In fact, starting with Windows Server 2012 R2, PowerShell remoting is essential. This session will look at what's required to securely use PowerShell remoting, dispel some myths and explore some enterprise best practices.

You will learn:

- The importance of PowerShell remoting
- How to leverage PowerShell remoting in your daily management tasks and scripts
- Recommended best practices for PowerShell remoting

■ TMT10 Mastering Regular Expressions in PowerShell

Introductory / Intermediate

JEFFERY HICKS

Tuesday, November 17, 4:15 – 5:30pm

Regular expressions remain a mystifying if not scary topic for many IT pros. It looks so arcane, it's impossible to learn. And even if you do, what good is it? That's what this session will answer. In this demo-heavy session, you'll learn the regular expression basics and how to use them in your PowerShell work. From simple matches, to replacements to named captures, this session will cover it all.

You will learn:

- The basic regular expression pattern syntax
- How to use the REGEX object
- How to integrate regular expressions into your PowerShell work

■ TMH01 Advanced PowerShell Traps and Gotchas

Intermediate

DON JONES

Thursday, November 19, 8:00 – 9:15am

Whether you're a PowerShell pro, a rank amateur, or interested in helping other people learn the shell, you'll need to avoid some of the most common traps and gotchas. MVP Don Jones demonstrates some of the most vexing trapdoors in the shell. He'll show you exactly what's going on with each of them under the hood, and techniques to avoid them.

You will learn:

- Stop banging your head against a wall on tricky traps
- Become more effective by avoiding pitfalls
- Learn the under-the-hood realities that make the shell work

■ TMH04 DSC Design and Planning

Advanced

DON JONES

Thursday, November 19, 9:30 – 10:45am

Learn the tricks, tips, and pitfalls of Desired State Configuration design and planning. Targeted at both v4 and v5 environments, you'll learn the right way to build modular configurations, how to structure your pull servers, and how to manage a distributed DSC environment at enterprise scale.

You will learn:

- Learn about v4 and v5 infrastructure differences
- Plan an effective and scalable DSC infrastructure
- Learn what simply doesn't work – yet – and avoid pitfalls

■ TMH07 Building a Secure DSC Pull Server

Intermediate / Advanced

JASON HELMICK

Thursday, November 19, 11:00am – 12:15pm

A Desired State Configuration (DSC) pull server is the heart of your configuration management system. Sending configuration information, including credentials, in a secured environment is essential. Learn how to build a secured HTTPS DSC Pull server and manage the certificates necessary to ensure a secure configuration environment. Let renowned Windows PowerShell MVP Jason Helmick guide you through the steps and best practices for success.

You will learn:

- How to secure a DSC HTTPS Pull server
- How to manage the certificates required for a secured configuration environment
- Insights into Pull server high-availability options

■ TMH10 Creating Class-Based DSC Resources

Intermediate / Advanced

JASON HELMICK

Thursday, November 19, 1:30 – 2:45pm

The most efficient custom resources are written with the new class structure in PowerShell v5. If you're an IT Pro new to the concept of "classes" let renowned Windows PowerShell MVP Jason Helmick get you started on the right path. Learn how classes can help you in many automation scenarios including writing Desired State Configuration custom resources. Using examples and demonstrations, Jason will give you the structure and best practices for writing easily maintainable class-based custom resources. This is your opportunity to get ahead of the curve with DSC!

You will learn:



TECHMENTOR SESSION DESCRIPTIONS BY TRACK (continued)

- The structure and syntax of classes
- How to write easily maintainable DSC custom resources
- How to use classes in Toolmaking and automation

■ TMH13 PowerShell Unplugged: Stuff I Stole from Snover

Advanced

DON JONES

Thursday, November 19, 3:00 – 4:15pm

For several years, PowerShell inventor Jeffrey Snover has held "PowerShell Unplugged" sessions at TechMentor conferences. They're informal, Q&A-based sessions filled with demos, tricks and tips. PowerShell MVP Don Jones shamelessly steals Snover's concept, and some of his favorite tricks, and brings them to you. Bring your PowerShell questions and have them answered in a lively, informal environment filled with demos and insider knowledge.

You will learn:

- Learn trips, tricks, and the inner workings of PowerShell
- Get answers to those questions you've always had
- Have fun and learn new PowerShell techniques

"I LEARNED A GREAT DEAL AT THE SESSIONS AND WAS VERY SURPRISED HOW ENTERTAINING AND CHARISMATIC THE MAJORITY OF THE SPEAKERS WERE. IN PARTICULAR, DON JONES, GREG SHIELDS AND ANDY MALONE WERE EXCELLENT!"

- Angela Maar, State of Idaho Treasurer's Office

For full speaker bios, go to live360events.com/orlando

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Author Evangelist, PluralSight*

Advisory Council:



Lafe Low

Editor, TechMentor Events



Jeffrey Schwartz

Editor, Redmond Magazine



Keith Ward

Editor in Chief, Virtualization Magazine

TECHMENTOR CONFERENCE SPEAKERS



J. Peter Bruzzese

Co-founder, ClipTraining



Mike Danseglio

*Principal Technologist,
Next Direction Technologies*



Justin Harris

Senior Solutions Architect, Binary Tree



Jason Helmick

Author, Pluralsight



Jeffery Hicks

Senior Technology Fellow, JDH IT Solutions



Richard Hicks

Solution Architect, Iron Networks, Inc.



Don Jones

*TechMentor Conference Co-Chair
Curriculum Director for IT Pro Content,
PluralSight*



Sami Laiho

Senior Technical Fellow, Adminize.com



Bruce Mackenzie-Low

Systems Software Engineer, Hewlett-Packard Company



Simon May

Senior Program Manager, Microsoft



Mike Nelson

Architect, ExtraHop Networks



Lawrence Novak

Premier Field Engineer, Microsoft

For full speaker bios, go to live360events.com/orlando

TECHMENTOR CONFERENCE SPEAKERS (continued)



John O'Neill, Sr.
Chief Technologist, AWS Solutions



Jeff Stokes
Senior Premier Field Engineer, Microsoft



Michael O'Neill
Senior Premier Field Engineer, Microsoft



Michael Wiley
Premier Field Engineer, Microsoft



Steven Rachui
Premier Field Engineer, Microsoft



Avril Salter
Principal Technologist, Next Direction Technologies



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



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AGENDA AT-A-GLANCE

BI, Big Data, Data Analytics, and Data Visualization	SQL Server Administration & Maintenance	SQL Server Features & Components	SQL Server for Developers	SQL Server Performance Tuning and Optimization
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START TIME	END TIME	SQL Server Live! Pre-Conference: Sunday, November 15, 2015
4:00 PM	9:00 PM	Pre-Conference Registration • Royal Pacific Resort Conference Center
6:00 PM	9:00 PM	Dine-A-Round Dinner @ Universal CityWalk


START TIME	END TIME	SQL Server Live! Pre-Conference Workshops: Monday, November 16, 2015
8:00 AM	5:00 PM	SQM01 - Workshop: SQL Internals, Optimization, and Indexing Deep Dive - Bradley Ball
		SQM02 - Workshop: Big Data, Analytics and NoSQL: Everything You Wanted to Learn But Were Afraid to Ask - Andrew Brust
5:00 PM	6:00 PM	EXPO Preview
6:00 PM	7:00 PM	LIVE! 360 KEYNOTE: Microsoft 3.0: New Strategy, New Relevance - Mary Jo Foley, Journalist and Author; with Andrew Brust, Senior Director, Datameer

START TIME	END TIME	SQL Server Live! Day 1: Tuesday, November 17, 2015
8:00 AM	9:00 AM	SQL SERVER LIVE! KEYNOTE: Microsoft's Data Platform Landscape Scott Klein, Senior Technical Evangelist, Microsoft
9:00 AM	9:30 AM	Networking Break • Visit the EXPO
9:30 AM	10:45 AM	SQT01 - Designing and Managing a SQL Server Replication Topology - Chad Churchwell
		SQT02 - Encrypting Data in SQL Server - David Dye
		SQT03 - Big Data with SQL Server and Hadoop - Andrew Brust
11:00 AM	12:15 PM	SQT04 - Hacking Expose: Using SSL to Secure SQL Server Connections - Chris Bell
		SQT05 - SQL Server Reporting Services: Attendees Choose! - Kevin Goff
		SQT06 - Predictive Analytics and Azure Machine Learning - Andrew Brust
12:15 PM	2:00 PM	Lunch • Visit the EXPO
2:00 PM	3:15 PM	SQT07 - Introduction to SQL Server Clustering - Chad Churchwell
		SQT08 - Implementing Auditing in SQL Server - David Dye
		SQT09 - Using Integration Services 2014 (SSIS) to Load a Data Warehouse - Thomas LeBlanc
3:15 PM	4:15 PM	Networking Break • Visit the EXPO
4:15 PM	5:30 PM	SQT10 - The Spy Who Loathed Me: An Overview of SQL's Security Features - Chris Bell
		SQT11 - Advanced SSIS Techniques - David Dye
		SQT12 - Skills Needed to Transition From DBA to Data Warehouse Architect - Thomas LeBlanc
5:30 PM	7:30 PM	Exhibitor Reception

Sessions and speakers subject to change.

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AGENDA AT-A-GLANCE (continued)

BI, Big Data, Data Analytics, and Data Visualization		SQL Server Administration & Maintenance		SQL Server Features & Components		SQL Server for Developers		SQL Server Performance Tuning and Optimization	
START TIME		END TIME		SQL Server Live! Day 2: Wednesday, November 18, 2015					
8:00 AM		9:00 AM		LIVE! 360 KEYNOTE: DevOps—What it Means to You and How to Get There - Don Jones, Curriculum Director, Pluralsight; Brian Randell, Partner, MCW Technologies <i>Sponsored by</i> PLURALSIGHT					
9:15 AM		10:30 AM		SQW01 - SQL Server on Azure VMs: The Important Details - Thomas LaRock		SQW02 - Kick Start! SQL Server 2014 Performance Tips and Tricks - Pinal Dave		SQW03 - Implementing Data Warehouse Patterns with the Microsoft BI Tools - Kevin Goff	
10:30 AM		11:00 AM		Networking Break • Visit the EXPO					
11:00 AM		12:15 PM		SQW04 - SQL Server High Availability and Disaster Recovery - Chad Churchwell		SQW05 - Monitoring Databases in a Virtual Environment - Thomas LaRock		SQW06 - Getting Started with Analysis Services 2012 Tabular - William E. Pearson III	
12:15 PM		1:45 PM		Birds-of-a-Feather Lunch • Visit the EXPO					
1:45 PM		3:00 PM		SQW07 - Just Enough SQL Administration to Keep it Running - Don Jones		SQW08 - Ancient Problems and Modern Solutions: Troubleshooting CPU in SQL - Pinal Dave		SQW09 - Introducing Forensic Analytics with PowerPivot for Excel - William E. Pearson III	
3:00 PM		4:00 PM		Networking Break • Visit the EXPO • Expo Raffle @ 3:30 p.m.					
4:00 PM		5:15 PM		SQW10 - To Be Announced		SQW11 - Configuring SQL Server for Performance... Like a Microsoft Certified Master - Thomas LaRock		SQW12 - Power BI 2.0: Analytics in the Cloud and in Excel - Andrew Brust	
8:00 PM		10:00 PM		Live! 360 Dessert Luau <i>Sponsored by</i>  <small>The AWS Cloud supports Microsoft Windows Server</small>					

Sessions and speakers subject to change.

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AGENDA AT-A-GLANCE (continued)

BI, Big Data, Data Analytics, and Data Visualization	SQL Server Administration & Maintenance	SQL Server Features & Components	SQL Server for Developers	SQL Server Performance Tuning and Optimization
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START TIME	END TIME	SQL Server Live! Day 3: Thursday, November 19, 2015		
8:00 AM	9:15 AM	SQH01 - Managing SQL Server at Scale - <i>Joey D'Antoni</i>	SQH02 - Indexes - the Unsung Heroes of SQL Server 2014 - <i>Pinal Dave</i>	SQH03 - Database Development with SQL Server Data Tools - <i>Leonard Lobel</i>
9:30 AM	10:45 AM	SQH04 - A Lap Around Multi-Site Clustering for SQL Server DBAs - <i>Edwin Sarmiento</i>	SQH05 - Dealing with Bad Roommates—SQL Server Resource Governor - <i>Joey D'Antoni</i>	SQH06 - Exploring T-SQL Enhancements: Windowing and More - <i>Leonard Lobel</i>
11:00 AM	12:15 PM	SQH07 - Change Data Capture in SQL Server 2008/2012 - <i>Kevin Goff</i>	SQH08 - Top 10 Wait Types Everyone Should Know - <i>Janis Griffin</i>	SQH09 - Python and R for SQL and Business Intelligence Professionals - <i>Jen Stirrup</i>
12:15 PM	1:30 PM	Lunch on the Lanai		
1:30 PM	2:45 PM	SQH10 - Geekin' Out on Extended Events—The System Health Session - <i>Janis Griffin</i>	SQH11 - Troubleshooting SQL Server Performance using Wait Statistics - <i>Edwin Sarmiento</i>	SQH12 - Business Intelligence Barista: What DataViz Tool to Use, and When? - <i>Jen Stirrup</i>
3:00 PM	4:15 PM	SQH13 - Building Perfect SQL Servers, Every Time - <i>Joey D'Antoni</i>	SQH14 - Proactively Identifying and Dealing with SQL Server Database Corruption - <i>Edwin Sarmiento</i>	SQH15 - Eye Vegetables and Eye Candy: How to Visualize Your Data - <i>Jen Stirrup</i>
4:30 PM	5:45 PM	Live! 360 Conference Wrap-Up - <i>Andrew Brust (Moderator), Andrew Connell, Don Jones, Rockford Lhotka, Matthew McDermott, Brian Randell, & Greg Shields</i>		

START TIME		END TIME		SQL Server Live! Post-Conference Workshops: Friday, November 20, 2015	
8:00 AM	5:00 PM	SQF01 - Workshop: Windows Server Failover Clustering for the SQL Server DBA - Edwin Sarmiento		SQF02 - Workshop: SQL Server 2014 for Developers - Leonard Lobel	

Sessions and speakers subject to change.

SQL SERVER LIVE! SESSION DESCRIPTIONS BY TRACK

BI, Big Data, Data Analytics, and Data Visualization

As organizations increasingly turn to SQL Server and related technologies to make better decisions about their businesses, SQL Server Live! presents a full track to help you master the complex world of BI, Big Data and Analytics. From Analysis Services to Power BI, from Data Warehousing to Big Data and Data Visualization, you'll find it all!

■ SQM02 Workshop: Big Data, Analytics and NoSQL: Everything You Wanted to Learn But Were Afraid to Ask

Intermediate

ANDREW BRUST

Monday, November 16, 8:00am – 5:00pm

So much has happened in the worlds of Big Data and NoSQL in the past year it's hard to know where to begin. The open source Hadoop project introduced a completely new architecture, making it far more usable. NoSQL databases like HBase, Cassandra and MongoDB have taken on new features and pulled ahead of the pack. Amazon's DynamoDB has become far more capable in terms of indexing and its integration with other AWS data services. Microsoft introduced its own NoSQL database called DocumentDB and added HBase to HDInsight, its Hadoop distribution, which now runs on Linux as well as Windows.

Meanwhile, enterprise developers are still getting real work done with relational databases and Enterprise BI tools. Who has time to learn about Big Data, Analytics and NoSQL? Take a day for this workshop and you'll break the ice with all of these. You'll see the technologies running before your eyes, working across multiple clouds and on-premises. Most important, you'll get a sense of where these technologies fit in and complement the database products you've been working with for years.

■ SQT03 Big Data with SQL Server and Hadoop

Intermediate

ANDREW BRUST

Tuesday, November 17, 9:30 – 10:45am

As Big Data starts to move beyond its hype cycle, Hadoop is reaching critical mass as a true enterprise computing tool. Microsoft's flavor of Hadoop, Azure HDInsight, has matured a great deal as well. It's been fortified with many of the new Hadoop-compatible processing engines that have come on the scene and it's now available in Linux versions as well as its original Windows distribution. This session will also cover the new PolyBase technology in SQL Server 2016 that lets you query Hadoop using SQL Server and T-SQL.

Come to this session to learn what Hadoop is, how it works, what to do to get it running on the Azure cloud and how to integrate it with SQL Server BI, Excel and third party tools.

■ SQT06 Predictive Analytics and Azure Machine Learning

Intermediate

ANDREW BRUST

Tuesday, November 17, 11:00am – 12:15pm

"Predicting future outcomes through the construction of statistical or heuristic models, based on past observations." It all sounds very lofty, doesn't it? Because of that, maybe it sounds irrelevant to your production work. Throw in newer names like "deep learning" and older ones like "artificial intelligence" and the whole discipline can seem downright esoteric and meaningless to your skill set.

But cut through the fancy names and you'll see that predictive analytics based on well-documented machine learning algorithms is useful, approachable and can be very developer-friendly. Azure Machine Learning

(ML) ties right into this. It provides a visual design canvas for building your models and a straightforward Web API for imbuing your applications with predictive capabilities. Want your applications to predict future revenues, alert users to potential fraud or help determine which consumers are most likely to be high-spending customers? Come to this session to learn the fundamentals of predictive analytics and see how to make it real in Azure ML.

You will learn:

- Learn the fundamentals of predictive analytics, including which algorithms work best for specific scenarios
- Learn how to build Azure Machine Learning experiments and models
- Get exposed to the R programming language and see how to integrate R code into Azure ML experiments

■ SQT09 Using Integration Services 2014 (SSIS) to Load a Data Warehouse

Introductory / Intermediate

THOMAS LEBLANC

Tuesday, November 17, 2:00 – 3:15pm

Need to ramp up your SQL Server Integration Service (SSIS) skills for a Data Warehouse implementation? Get everything you need to learn in this session for loading data from various sources into Dimensional Model data marts using SSIS 2014.

This session will walk you through the process of importing data from various data sources with new features like the Change Data Capture component for incremental loads. Data Quality Service can cleanse data before importing. Package Logging and Reporting has been enhanced with Projects and their deployment to a single container. During package development, the new organization of the environment will feature improved usability with copy and paste of components, display and execution flow. The Project parameters and connections help with configuration execution for development

SQL SERVER LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

testing and production. You'll leave the session with resources for everything covered, plus the project packages used throughout the demonstration.

You will learn:

- Understand the new features in SSIS 2012/2014 that make this product and Enterprise Level ETL/ELT tool
- Develop ETL at the project level rather than a package level
- Optimize SSIS to import data from various data sources and succeed in loading quality data into a dimensional model

■ **SQT12 Skills Needed to Transition from DBA to Data Warehouse Architect**

Intermediate

THOMAS LEBLANC

Tuesday, November 17, 4:15 – 5:30pm

Whether you're a development or administrative DBA, there's always room to expand your technical skills. Data Warehouse careers have certain skills that can develop from existing DBA skills. Dimensional Modeling is a re-tooling of your existing database normalization knowledge. T-SQL and coding knowledge can transfer to ETL (Extract, Transform and Load) using Integration Services (SSIS). Report Writing has been around for decades and learning Analysis Services (SSAS) can save days of work that custom report writing has taken teams.

Development today requires the design and analysis of Online Transaction Processing (OLTP) to take into account Data Warehousing/OLAP (Online Analytical Processing) output. My personal transition from Sr. DBA to DW Architect has been a process of sanding the rough edges of my passion from fully normalized databases. The Dimensional Modeling started a re-tooling of my mind to look at end results analytically. These lessons have molded me into a DW Architect.

You will learn:

- Updating skill set for transition from DBA to BI Developer/Architect
- What is the difference between Database Normalization and Dimensional Modeling
- The future of the Data Analyst Big Data, Analytics, and so on

■ **SQW03 Implementing Data Warehouse Patterns with the Microsoft BI Tools**

Introductory / Intermediate

KEVIN GOFF

Wednesday, November 18, 9:15 – 10:30am

You've read some of the content of well-known Data Warehousing books—now what? How do you take the structures and disciplines inside such books as the Ralph Kimball series and implement them? This session will take several of the key concepts in Data Warehousing and demonstrate some implementations using SQL Server Integration Services and Analysis Services. You'll examine items such as Type 2 Changing Dimensions, Confirmed Dimensions, Dimension Outriggers, Role-Playing Relationships, Many-to-Many Bridge table relationships, Factless Fact tables, Handling of NULL foreign key values and more.

You will learn:

- Techniques for Populating Fact Tables and Dimension tables using T-SQL MERGE statements
- Special considerations for managing Type 2 Slowly Changing dimensions
- Tips for implementing many of the patterns found in the Kimball methodology

■ **SQW06 Getting Started with Analysis Services 2012 Tabular**

Introductory

WILLIAM E. PEARSON III

Wednesday, November 18, 11:00am – 12:15pm

The Analysis Services 2012 Business Intelligence Semantic Model (BISM) unifies Multidimensional (OLAP) and Tabular (relational) options for organizational BI. In this session, BI Architect, SQL Server MVP and Analysis Services Maestro Bill Pearson introduces Microsoft Business Intelligence 2012 and the Business Intelligence Semantic Model ("BISM"). He'll provide an overview of the Tabular model, beginning with the creation of a project with SQL Server Data Tools (SSDT), and continuing from the data import steps to the creation and management of calculations, measures and Key Performance Indicators (KPIs). Finally, he'll give you insight into creating and maintaining of perspectives and hierarchies, as well as other considerations involved in working with Tabular.

You will learn:

- About Microsoft Business Intelligence 2012 and gain a general understanding of the Business Intelligence Semantic Model ("BISM")
- About the Tabular model, discussing design goals and features, and observe the creation of a new Tabular model project in SQL Server Data Tools (SSDT), the import of data into the model, and the creation and management of relationships between tables in the model
- Examine the creation and management of calculations, measures and Key Performance Indicators (KPIs) to assist consumers in the reporting and analysis of data, and gain insight to creating and managing perspectives and hierarchies to provide business and application contextual "viewpoints" for user-friendly data browsing

SQL SERVER LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

■ **SQW09 Introducing Forensic Analytics with PowerPivot for Excel**

Introductory

WILLIAM E. PEARSON III

Wednesday, November 18, 1:45 – 3:00pm

Despite the wealth of analytical technologies available today, 65 percent of fraud at public companies is detected through tips, management review or simple accidents. Forensic Analytics combine human intuition and leading-edge technologies, and can provide superior detection methods to significantly improve the detection and investigation of illegal or unethical activities.

This session will explore Forensic Analytics: a set of techniques you can use to uncover irregularities in financial data. You'll gain an understanding of goals of Forensic Analytics: to help you find out how and why these irregularities exist, and to find out their source(s) especially when you suspect fraudulent activity. You'll learn guiding principles that are key to isolating data anomalies, and outline a standard, repeatable process to Forensic Analytics. Throughout the session, you'll see examples of how you can employ PowerPivot for Excel to drive Forensic Analytics via various tests and reviews.

You will learn:

- The definition and objectives of Forensic Analytics
- Discuss approaches to detecting data anomalies, particularly when fraudulent activity is involved, within organizational data
- Outline methodology, and a standard, repeatable process, to support the successful employment of Forensic Analytics
- Introduce, and discuss examples of, the use of PowerPivot for Excel to drive Forensic Analytics via various tests and reviews

■ **SQW12 Power BI 2.0: Analytics in the Cloud and in Excel**

Intermediate

ANDREW BRUST

Wednesday, November 18, 4:00 – 5:15pm

Version 2 of Power BI adds new visualizations, developer APIs and an improved mobile story. It offers a free cloud service along with a Professional subscription for \$10 a month, and the version 1 requirement of an Office 365 subscription is gone, gone, gone.

However, using Power BI doesn't mean you have to go to the cloud at all. Power BI components like Power Pivot, Power View, Power Query and Power Map provide massive analytics power, right inside Excel. Power BI gives you a lot to take in, so come to this session to get up to speed quickly on what Power BI has done since version 1 and sink your teeth into everything that's new for version 2.

■ **SQH12 Business Intelligence Barista: What DataViz Tool to Use, and When?**

Intermediate

JEN STIRRUP

Thursday, November 19, 1:30 – 2:45pm

Choosing a data visualization tool is like being a barista serving coffee: everyone wants their data, their way, personalized, fast, and perfect. Many organizations have a cottage industry of data visualization tools, and it's difficult to know what tool to use, and when. Different tools exist in different departments, and if it doesn't meet the user requirements, the default position is to go back to Excel and move the data around there.

This session will examine data visualization tools such as SSRS Excel, Tableau, QlikView, Datazen, Kibana and PowerBI, in order to craft and blend your data visualization tools to serve your data customers better.

■ **SQH15 Eye Vegetables and Eye Candy: How to Visualize Your Data**

Intermediate

JEN STIRRUP

Thursday, November 19, 3:00 – 4:15pm

What's your data visualization vegetables? What's your candy? This session will look at data visualization theory and practice of hot data visualization topics such as:

- How can you choose which chart to choose and when?
- How can you best structure your dashboard?
- What about pie charts? What is the fuss about, and when are they best used?
- Color blindness how can you cater for the 1 out of 12 color blind males (and not forgetting the 1 out of 100 color blind females?)
- To 3D or not to 3D? Why is it missing in Power View? And any other data visualization topics you care to mention! Come along for dataviz fun, and to learn the "why" along with practical advice.

**"THE WORKSHOPS AND SESSIONS.
I HAVE GAINED SO MUCH
KNOWLEDGE; IT IS GOING TO
TAKE WEEKS TO PROCESS IT ALL."**

- Joe Szyszka, HP

SQL SERVER LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

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: Indexing, backup and recovery, monitoring, task automation, PowerShell, virtualization, and more!

■ SQM01 Workshop: SQL Internals, Optimization, and Indexing Deep Dive

Intermediate / Advanced

BRADLEY BALL

Monday, November 16, 8:00am – 5:00pm

Congratulations you’re a SQL Server DBA/Developer/BI Developer. How does SQL Server work? We have tables, views, and indexes. We write queries. How do the queries and the tables work together? Have you ever wondered? Why should you? Understanding how SQL Server works internally helps you understand how and when to use SQL Server to solve business problems. We need to understand the relational engine, index, transaction log, data, and locking internals. We need to know how these apply to business decisions that we make every day! Most importantly we need demos! Join SQL Server MVP Bradley Ball as we dive into the SQL Server Internals spanning from the Query Processor, through the Storage Engine, the Plan Cache and everything in between.

You will learn:

- Five key areas that will give hands on learning and key concepts or why an attendee should understand Internals and how they apply to every day administration and maintenance of SQL Servers
- A deeper understanding of the query optimizer, plan cache, and indexes to deliver better performing queries
- How locking, blocking, and deadlocks affect SQL Server performance. Plus how to identify and fix them

■ SQT01 Designing and Managing a SQL Server Replication Topology

Introductory / Intermediate

CHAD CHURCHWELL

Tuesday, November 17, 9:30 – 10:45am

This session is focused on design and architectural decisions when choosing replication technology for your organization. We’ll cover all the moving pieces involved with replication, the internal architecture of how replication works, as well as describing the agents in detail. You’ll also learn what replication is intended to do as well as what it is not a good fit for. We’ll cover the new SQL 2014 support enhancements as well as combining with AlwaysOn Availability groups to protect your replication environment to ensure minimal downtime; also monitoring and alerting on replication errors and latency to ensure accurate data.

You will learn:

- How replication works behind the scenes and architecturally to better prepare yourself with knowledge to manage a replicated environment
- How to be proactive and use best practices for monitoring and alerting of replication issues when they arise as well as how to resolve common replication errors
- How replication can be used with a high availability technology to ensure protection of your mission critical systems

■ SQT04 Hacking Expose: Using SSL to Secure SQL Server Connections

Intermediate / Advanced

CHRIS BELL

Tuesday, November 17, 11:00am – 12:15pm

You know all the ways to protect your database when it is at rest, but what about when someone connects and starts running some queries? What if they connect and don’t do anything? Just how exposed is that data?

In this session, we’ll assume the role of a hacker and using a simple technique, we’ll sniff packets on a network to reveal what data is being sent. You may be shocked! Then we’ll secure our database connections with a simple self-signed SSL certificate.

Once secured, we will resume the role of the hacker once more and look inside the packets once more to see what has changed.

**Warning Do not try these demos at work without proper permissions as actual hacking techniques are used.*

You will learn:

- What is exposed when using the default, unprotected connections to SQL Server
- How to configure SQL Server to use an SSL certificate to encrypt connections
- How, with proper permission, to capture and check network packet to confirm data in transit is protected

■ SQT07 Introduction to SQL Server Clustering

Introductory / Intermediate

CHAD CHURCHWELL

Tuesday, November 17, 2:00 – 3:15pm

This session will introduce you to clustering SQL Server for high availability. We’ll cover the architecture of what all is needed to create a cluster, the piece each component plays with regards to SQL Server. The differences between a clustered SQL instance and a stand-alone SQL instance will be discussed. We’ll also cover quorum models, shared storage requirements and also have a full clustering demo. Finally, we’ll cover clustering enhancements released with SQL Server 2012 as well as SQL Server 2014.

You will learn:

- The use case to use failover clustering with SQL Server
- The components needed to create a SQL Server cluster
- How to administer a SQL Server cluster as well as install a new SQL Server cluster

SQL SERVER LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

■ SQT10 The Spy Who Loathed Me: An Overview of SQL's Security Features

Intermediate

CHRIS BELL

Tuesday, November 17, 4:15 – 5:30pm

You've painstakingly saved a lot of data over the years. How do you ensure all your hard work is protected from hackers, spies and other ne'er-do-wells? Having knowledge of the vast array of security features available in SQL Server is the first step in helping determine what actions you need to take to protect your data.

This session will quickly go through a majority of the security features in SQL Server, to help you learn what each does, and let you determine which features work best for your situation.

**Note: This session is demo-free.*

You will learn:

- What security features are available in SQL Server
- How each works at a high level
- How to determine which security features to combine to protect your data

■ SQW01 SQL Server on Azure VMs: The Important Details

Intermediate

THOMAS LAROCK

Wednesday, November 18, 9:15 – 10:30am

Microsoft Azure Virtual Machines is a robust infrastructure for Microsoft SQL Server, providing the full benefits of infrastructure-as-a-service offering in Microsoft data centers. SQL Server in a Microsoft Azure Virtual Machine has a low overall TCO and makes an efficient platform for enterprise level workloads. This session examines the critical facets beyond the mere provisioning of the SQL VM, and looks at the characteristics and considerations for tuning, optimizing,

and the key indicators for monitoring performance. We look at special considerations for High-Availability and Disaster Recovery, and pay special attention to scalability.

You will learn:

- How to configure SQL Server running in an Azure VM
- How to performance tune SQL Server in an Azure VM
- How to weight cost, benefits, and risk with regards to HA/DR options when using SQL Server in an Azure VM

■ SQW04 SQL Server High Availability and Disaster Recovery

Intermediate

CHAD CHURCHWELL

Wednesday, November 18, 11:00am – 12:15pm

This session will cover the different methods used to make SQL Server highly available, as well as to protect your SQL Server instance in the event of a disaster. We'll compare the pros and cons of each technology and discuss design decisions when choosing a technology. We'll cover clustering, log shipping, mirroring, and AlwaysOn Availability groups.

You will learn:

- The different technologies available in SQL Server
- The limitations and use cases for each technology
- Information to take back to your organization to make recommendations for a solid HA/DR plan

■ SQW07 Just Enough SQL Administration to Keep it Running

Introductory

DON JONES

Wednesday, November 18, 1:45 – 3:00pm

Are you a "reluctant DBA?" Have you been tasked with keeping SQL Server up and running—but haven't actually been taught how? MVP Don Jones takes you through a concise tour that shows you exactly what, when and where you need to do to keep SQL Server

happy—and shows you how. You'll pick up standard practices as well, and be on your way to becoming a less-dangerous SQL Server administrator.

You will learn:

- Index maintenance strategies
- How to use SQL Server maintenance plans
- How to configure SQL Server and database options

■ SQH01 Managing SQL Server at Scale

Intermediate

JOEY D'ANTONI

Thursday, November 19, 8:00 – 9:15am

Being a DBA is hard enough work, but when your team manages more than 500 servers you will encounter some unique challenges. In this session, you'll learn techniques employed by a large enterprise to simplify deployments and manage performance, including:

- Automation, Standardization and Exceptions
- Private Cloud techniques
- Tools
- Scale Out versus Scale Up
- Hybrid solutions
- DevOps, Teamwork, Negotiation, Collaboration and War
- Finally 10 Tips on scaling SQL Server within your organization

You'll learn:

- How to reduce overall effort level of managing SQL Server in your environment
- Techniques for automating common SQL Server tasks to reduce daily workload
- Best approaches for scaling SQL Server, both on premises and in the cloud

SQL SERVER LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

■ SQH04 A Lap Around Multi-Site Clustering for SQL Server DBAs

Intermediate / Advanced

EDWIN SARMIENTO

Thursday, November 19, 9:30 – 10:45am

Deploying a Windows Server Failover Cluster (WSFC) on Windows Server 2008/2012 has become a lot easier thanks to numerous online resources. And with more advanced features in WSFC, it is now both a high availability and disaster recovery solution for SQL Server databases—whether using failover clustered instances or Availability Groups. In this session, you'll learn the underlying concepts and principles when designing a multi-subnet cluster to address both high availability and disaster recovery requirements. After this session, you'll be able to properly design a multi-subnet WSFC stretched across multiple data centers that meet your overall recovery objectives.

You will learn:

- About network considerations when designing a multi-subnet cluster
- WSFC dependencies that are outside the scope of the SQL Server database but impacts the availability
- How to properly design and deploy a multi-subnet cluster for both failover clustered instances and Availability Groups

■ SQH07 Change Data Capture in SQL Server 2008/2012

Intermediate

KEVIN GOFF

Thursday, November 19, 11:00am – 12:15pm

This session covers Change Data Capture (CDC) terminology and configuring a database for Change Data Capture. You'll learn how to read CDC log tables, and examine CDC code samples. You'll also be exposed to CDC and SQL Server Agent jobs, the use of CDC versus

database triggers (and where triggers are still needed) and the impact of CDC on the transaction log and system performance. The session concludes with how to deal with schema changes, performance tuning, and using CDC in an ETL (Extract-Transform-Load) environment with SQL Server Integration Services. It may also cover some of the SSIS 2012 enhancements in dealing with CDC.

You will learn:

- How Change Data Capture differs from traditional database triggers
- How Change Data capture fits into a Data Warehouse Model
- Some of the "gotchas" with Change Data Capture and how to avoid them

■ SQH10 Geekin' Out on Extended Events—The System Health Session

Intermediate

JANIS GRIFFIN

Thursday, November 19, 1:30 – 2:45pm

Extended Events gather a wide range of performance information to help troubleshoot performance problems in SQL Server. The system_health session is an Extended Events session included by default with SQL Server. This session starts automatically whenever you start the SQL Server database engine, and runs without any noticeable performance effects. This session will take you on an in-depth tour of the data provided in the system_health event session and how to use it to troubleshoot performance issues. You'll learn tips and tricks from case studies from real-life examples.

You will learn:

- How to get performance information out of the system health session in order to quickly tune or fix issues
- How to shred XML using XPath in order to take advantage of many diagnostic metrics
- What has changed in the 2014 system health session versus the 2012 session

■ SQH13 Building Perfect SQL Servers, Every Time

Introductory / Intermediate

JOEY D'ANTONI

Thursday, November 19, 3:00 – 4:15pm

Some of the biggest challenges in any large SQL environment are maintaining consistent configurations and meeting the pressures from the business for rapid server deployments. In this session, you'll learn best practices for system settings, file system layout and scheduling maintenance tasks.

By default, SQL Server doesn't install with best practices for every environment. You'll learn the best practices for most SQL Server configurations, and how to automate your SQL Server builds in both physical and virtual worlds. As you may know, completely automating the build process has great benefits, but it also has great trade-offs. You'll benefit from the lessons learned from building a private cloud at a Fortune 100 telecommunications company with thousands of servers.

You'll also learn how use these same methods to ensure your own server build consistency, whether your SQL Servers are in the cloud or on-premises.

You will learn:

- Best practices for installing SQL Server
- How to automate SQL Server installations to enforce standards and reduce workload
- Best practices for building a virtual cloned environment for SQL Servers

SQL SERVER LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

■ SQH14 Proactively Identifying and Dealing with SQL Server Database Corruption

Intermediate / Advanced

EDWIN SARMIENTO

Thursday, November 19, 3:00 – 4:15pm

There is corruption on every SQL Server database, whether you like it or not. And the only way to minimize downtime and data loss when it occurs is to proactively identify and deal with database corruption. In this session, you'll learn how to identify and detect database corruption. You'll learn how to incorporate these different approaches in proactively identifying corruption in your regular database maintenance routines. You'll also look at how to deal with database corruption using restore or repair that is appropriate to your edition of SQL Server.

You will learn:

- How and database corruption occurs
- How to proactively identify and detect database corruption
- Different techniques on how to deal with database corruption to minimize downtime and data loss

■ SQF01 Workshop: Windows Server Failover Clustering for the SQL Server DBA

Intermediate / Advanced

EDWIN SARMIENTO

Friday, November 20, 8:00am – 5:00pm

Recent releases of SQL Server have depended a lot on Windows Server Failover Clustering for high availability and disaster recovery. This has made Availability Group (AG) and Failover Clustered Instance (FCI) deployments more complicated and challenging to maintain. In

this day-long workshop, you'll learn the underlying infrastructure that is Windows Server Failover Clustering, how it works and how SQL Server leverages the technology to help you build highly available database infrastructures. This workshop will cover the following topics:

- Successfully planning and installing a WSFC for SQL Server workloads
- Understanding impacts of networking in SQL Server high availability and disaster recovery solutions
- Proper configuration of quorum
- Installing and configuring FCIs and AGs

You will learn:

- The fundamentals of WSFC
- How to successfully plan and deploy SQL Server FCIs and AGs
- Tips, tricks and best practices in planning and deployment of WSFC to support SQL Server workloads

"OVERALL, I FOUND THE SESSIONS VERY INFORMATIVE. I AM ANXIOUS AND INSPIRED TO RESEARCH AND DEVELOP WITH THESE NEW TECHNOLOGIES."

- Tom Beall, Polk County Clerk of Courts

SQL Server Features and Components

SQL Server is more than just a database engine – it's a powerful platform for data management. Master its breadth and depth with SQL Server Live! content on enterprise features, "Hekaton" in-memory OLTP, SSIS, Semantic Search, replication, AlwaysOn, and more.

■ SQT02 Encrypting Data in SQL Server

Introductory / Intermediate

DAVID DYE

Tuesday, November 17, 9:30 – 10:45am

What steps do you take to secure your data at rest in SQL? Are you bound by governance or oversight that requires you to secure data in SQL? Do you store credit card numbers, social security numbers, medical information, or any other sensitive private information? If you answered yes to any of these questions, then this session is for you.

Cryptographic services were integrated into SQL Server in 2005. With this functionality, we were first introduced with the ability to natively encrypt data within a SQL Server database. This session will focus on the technologies native to SQL Server that help you protect your data "at rest." You'll get an overview of SQL Cryptographic Services, as well as step-by-step instructions on encrypting column level data as well as transparent data encryption for an entire database.

You will learn:

- About Cryptographic Services in SQL Server
- How to backup and alter the service master key
- How to create asymmetric keys, symmetric keys, and certificates
- How to encrypt and decrypt column level data
- How to enable and disable transparent data encryption

SQL SERVER LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

■ SQT05 SQL Server Reporting Services: Attendees Choose!

Introductory / Intermediate

KEVIN GOFF

Tuesday, November 17, 11:00am – 12:15pm

Even with all the options for self-service Business Intelligence, SQL Server Reporting Services (SSRS) remains a popular reporting tool in application development environments.

In this session, I'll present more than a dozen different topics and let attendees select which topics to cover. Everything from sparklines to heat maps, from Tablix-drilldown reports to advanced charts, from performance gauges to subreport/drilldown reports to new page/group control features in R2....and even topics like data-driven subscriptions, reports against OLAP cubes, and deploying to SharePoint. Since no presentation can cover all the topics, the audience will decide which to cover.

You will learn:

- About advanced SSRS features "in action", as implemented in actual SSRS client applications
- The implementation of mass-automated report delivery of data driven subscriptions in SSRS (and also see .NET code used in SSIS scripts for customized delivery of reports)
- A general understanding of Microsoft's current and future offerings for SSRS in the Cloud

■ SQT08 Implementing Auditing in SQL Server

Introductory / Intermediate

DAVID DYE

Tuesday, November 17, 2:00 – 3:15pm

A common requirement for database administrators is to be able to track activity within a SQL instance. Based on governance, oversight or policy, most organizations require some means of tracking and recording specific events such as:

- Failed logins
- DDL events
- Data access

Ideally, the front end application will have a means of capturing these day-to-day events. If not though, SQL provides a number of tools that will audit SQL events and activity. This session will begin outlining the methods, native to SQL, to audit SQL events including:

- C2 Auditing
- Common Criteria Compliance
- SQL Trace
- DDL Triggers
- DML Triggers
- SQL Audit

This session will outline and demonstrate each method and pay particular attention to the resources required for each technique. Much of this session will be spent examining SQL Audit and looking into the internal workings of this technology.

You will learn:

- Enable C2 auditing
- Enable Common Criteria Compliance

- Create and configure a client and server side trace
- Use DDL/DML triggers to audit activity
- Configure SQL audit

■ SQT11 Advanced SSIS Techniques

Intermediate / Advanced

DAVID DYE

Tuesday, November 17, 4:15 – 5:30pm

This session will focus on advanced techniques used in SSIS and what it means for the experienced SSIS developer. We will focus on tasks and techniques native to SSIS 2005-2014, as well as some of the more advanced and vague properties.

Attendees must have a good working knowledge of SSIS, as well as familiarity with VB.NET or C# as we'll take some time looking at extending SSIS with script tasks and components.

You will learn:

- Import/export multiple sources/destinations
- Use an execute SQL task with variables to replace dynamic SQL within a package
- Dynamically handle errors within any part of a package
- Use custom logging to capture execution events and counts
- Use script tasks and components to extend SSIS

SQL SERVER LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

SQL Server for Developers

Developers have an incredible amount of impact on the overall performance of a database application. SQL Server Live! shines a spotlight on processes to help developers deliver more. From T-SQL enhancements and SQL Server Data Tools to coding in Python and R, and a day-long workshop on SQL Server 2014 for developers, there's plenty of content to keep you busy—or supplement your Visual Studio Live! agenda!

■ SQH03 Database Development with SQL Server Data Tools

Intermediate

LEONARD LOBEL

Thursday, November 19, 8:00 – 9:15am

SQL Server Data Tools (SSDT) is a powerful integrated development environment for designing, testing and deploying SQL Server databases—whether you're working locally or remotely, connected or offline, or in the cloud on Microsoft Azure all from right inside of Visual Studio. While SQL Server Management Studio (SSMS) continues to serve as the primary tool for database administrators, SSDT plugs in to Visual Studio as a special database project type designed specifically for the application developer.

In this session, Lenni Lobel describes the various difficulties you'll face, and demonstrates how SSDT can be used to remedy those pain points. You'll learn how to use features such as code navigation, IntelliSense, and refactoring with your database model indispensable tools traditionally available only for application development in Visual Studio. You'll also learn the declarative model that lets you design databases offline and under source control right from within solution in Visual Studio, as well as how to deploy to SQL Database on Microsoft Azure. Don't miss out on this demo-centric information-packed session on the current generation of database tools for application developers.

You will learn:

- The benefits of database development with SSDT's declarative model-based architecture
- The various SSDT features and capabilities (explorer, designers, schema compare, local database runtime, language services, debugging, and buffered editing)
- How to design, test, and deploy on-premises databases, off-line database projects, and Microsoft Azure SQL databases in the cloud all from inside Visual Studio

■ SQH06 Exploring T-SQL Enhancements: Windowing and More

Intermediate

LEONARD LOBEL

Thursday, November 19, 9:30 – 10:45am

SQL Server 2014 doesn't add much to T-SQL, but SQL Server 2012 enhanced the database's native programming language with numerous features. If you're not up to speed, this informative and demo-packed session will guide you through the powerful windowing enhancements with the OVER clause, new T-SQL functions (all 22 of them), improved error handling with THROW, server-side paging with OFFSET/FETCH NEXT, sequence generators, rich metadata discovery techniques and contained databases. If you want to program the latest T-SQL enhancements in SQL Server, you won't want to miss this session!

You will learn:

- New T-SQL features in SQL Server 2012
- Examine 22 new T-SQL functions, including 8 new analytic windowing functions
- Explore OVER, THROW, OFFSET, metadata discovery, and contained data-bases

■ SQH09 Python and R for SQL and Business Intelligence Professionals

Intermediate

JEN STIRRUP

Thursday, November 19, 11:00am – 12:15pm

When it comes to analyzing data, Hadoop or the R statistical language come to mind. Python is yet another of your secret power tools for SQL Server, data analysis and business intelligence. This session will examine both Python and R and how to use them in the Microsoft SQL Server, with a focus on the Business Intelligence stack.

Come to this session to see examples of data analysis using both R and Python, and learn how to use these open source power tools to rock your data world in SQL Server. You'll look at how these data tools complement each other, with guidance on when to use what. The session assumes no knowledge of either tool, and is aimed at people with a healthy interest in data analysis and SQL Server who would like to know more about what is out there.

■ SQF02 Workshop: SQL Server 2014 for Developers

Intermediate

LEONARD LOBEL

Friday, November 20, 8:00am – 5:00pm

This full-day workshop will get you up to speed on powerful features for developers in SQL Server 2014. Lenni Lobel pulls no punches as he rips through the most important SQL Server programmability points in this intensive demo-packed tour.

Part 1—SQL Server Data Tools (SSDT): You'll start with an introduction to SQL Server Data Tools (SSDT), a powerful integrated development environment for designing, testing, and deploying SQL Server databases—whether you're working locally or remotely, connected or offline, or in the cloud on Windows Azure all from

SQL SERVER LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

right inside of Visual Studio. Then you'll dive right into extensive demos that showcase the most important SSDT features. Lenni will demonstrate how to use SSDT to develop for (and deploy to) on-premises and Azure SQL databases. You'll learn how to use features such as code navigation, IntelliSense, and refactoring with your database model-indispensable tools previously available only for application development in Visual Studio. You'll also learn the declarative model that lets you design databases offline and under source control right from within Visual Studio.

Part 2—T-SQL Features: Next, you'll explore the many enhancements made to T-SQL. Learn how to use table-valued parameters to marshal entire sets of rows across the network from client to server, and to pass them between your stored procedures and UDFs. Find out about MERGE, a powerful DML statement that combines the capabilities of four (or more) separate operations, and INSERT OVER DML, which enhances your ability to capture change data from the OUTPUT clause of any DML statement. Work with the latest date and time data types, which include support for time zone awareness. Then learn about the newest T-SQL enhancements in SQL Server 2012, such as windowing (OVER clause) enhancements, running and sliding aggregates, 22 new functions, the THROW statement, server-side paging, the SEQUENCE object, and new metadata discovery techniques.

Part 3—Beyond Relational: Next, you'll examine the powerful "beyond relational" features, including the latest additions in SQL Server 2012. These features will get you thinking outside the box with respect to the types of data that can be managed by a relational database system. Learn how to use the hierarchyid data type to cast a hierarchical structure over any relational table. Dig into FILESTREAM and FileTable to discover how you can finally enjoy the native ability to store large binary objects in the file system transparently. You'll also cover the geospatial data types that enable you to integrate location-intelligence into the database, and

build several location-aware applications on top of these new data types. You'll learn about the rich XML support provided by the relational engine, including XSD, XPath, and XQuery.

Part 4—In-Memory OLTP: Next You'll move on to with the new in-memory OLTP capabilities (code name "Hekaton") added in SQL Server 2014. Learn how to achieve impressive performance gains (up to 30x!) by identifying those tables that can improve performance simply by implementing them as memory-optimized tables in the database. These tables are fully durable and function as ordinary tables, but don't require the same latching and locking mechanisms as disk-based tables, which boosts performance significantly. You'll also see how to create natively compiled stored procedures (which actually converts T-SQL to C and then compiles to a DLL) to achieve even greater performance when accessing memory-optimized tables.

Part 5—Enterprise Features: You'll wrap up your full-day session with powerful enterprise-level data warehousing and security features including Change Data Capture, SQL Server Audit and Transparent Data Encryption. With Change Data Capture (CDC), you can monitor and record changes made to transactional tables without requiring any application changes or resorting to triggers. Enabling Transparent Data Encryption (TDE) automatically encrypts the entire database in the background, without increasing database size, and without requiring any code. And with SQL Server Audit, virtually any action taken by any user can be recorded for auditing in either the file system or the Windows event log.

You'll learn a ton of new SQL Server features in this information-packed day!

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, CPU issues, transaction logs, monitoring, and much more. SQL Server Live! helps you maximize your SQL Server investment!

■ SQW02 Kick Start! SQL Server 2014 Performance Tips and Tricks

Intermediate

PINAL DAVE

Wednesday, November 18, 9:15 – 10:30am

Every new release of SQL Server brings new features you can add to your arsenal for greater efficiency. SQL Server 2014 has introduced many new features. This 75 minute session will cover quite a few of the new features of SQL Server 2014. Here is the glimpse of the features we will cover in this session.

- Live plans for long running queries
- Transaction durability and its impact on queries
- New cardinality estimate for optimal performance
- In-memory OLTP optimization of superior query performance
- Resource governor and IO enhancements
- Columnstore indexes and performance tuning
- And many more tricks and tips
- This session will be the most productive time for any DBA and Developer, who wants to quickly jump start with SQL Server 2014 and its new features.

You will learn:

- The ability of SQL Server 2014 to overcome of the issues of the earlier version
- Understand the difference from previous version to current version of SQL Server
- Working examples of the latest performance related features of SQL Server

SQL SERVER LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

■ SQW05 Monitoring Databases in a Virtual Environment

Intermediate

THOMAS LAROCK

Wednesday, November 18, 11:00am – 12:15pm

When moving databases to a virtual environment, the performance metrics DBAs typically use to troubleshoot performance issues such as O/S metrics, storage configurations and CPU allocation are no longer unreliable. DBAs no longer have a clear, reliable view of the factors impacting database performance. Understanding the difference between the physical and virtual server environment adds a new dimension to the DBA tasks.

You will learn:

- A clear understanding of virtualization architecture
- Virtualization configuration options and recommendations
- Awareness of common performance issues; how to spot them and how to fix them

■ SQW08 Ancient Problems and Modern Solutions: Troubleshooting CPU in SQL

Intermediate / Advanced

PINAL DAVE

Wednesday, November 18, 1:45 – 3:00pm

DBAs are in a challenging situation when they see CPU running at 100 percent. There are many solutions of this situation, but very little time to implement those solutions. In this critical situation, developers need a sure solution that gives stability to their system and buys more time to troubleshoot the problem. Many believe Performance Tuning and Troubleshooting is an art that has been lost in time. The truth is that art has evolved with the time and there are more tools and techniques to overcome ancient troublesome scenarios. There three major resources when bottlenecks create performance

problems: CPU, IO, and Memory. This session will focus on some of the common performance issues and their resolution. Developers will walk out with scripts and knowledge that can be applied to their servers, immediately post the session.

You will learn:

- Understand how each of the three important resources impact SQL Server Performance. We will focus on CPU, IO and Memory
- The CPU is a very critical resource for the SQL Server and it is often spotted at very high consumption level. We will understand the true meaning of the high consumption and its significance
- Tricks and tips which keep the CPU under reasonable baseline and ensures smooth transactions of query performance

■ SQW11 Configuring SQL Server for Performance... Like a Microsoft Certified Master

Intermediate

THOMAS LAROCK

Wednesday, November 18, 4:15 – 5:30pm

Great database performance starts with great database design. That design includes both the logical and physical design details. The best DBAs tune SQL Server for performance at the server, instance and database layers. This allows for both the logical and physical database designs to meet performance expectations. However, it can be difficult to know which configuration options are better than others. Attend this session and learn which options are right for which workloads.

You will learn:

- How to detect non-optimal SQL Server configurations
- How to configure SQL Server for maximum performance
- The configuration options available at the server O/S, SQL instance, and database layers

■ SQH02 Indexes—The Unsung Heroes of SQL Server 2014

Intermediate / Advanced

PINAL DAVE

Thursday, November 19, 8:00 – 9:15am

Slow Running Queries are the most common problem that developers face while working with SQL Server. While it's easy to blame SQL Server for unsatisfactory performance, the issue often persists with the way queries are written and how Indexes are set up. The session will focus on the ways of identifying problems that slow down SQL Server and Indexing tricks to fix them. There will be 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 an updatable column store index. We will have story built around columnstore indexes (usage, needs, limitation and advantages)
- A crash course of indexes in very first few minutes of the session which will cover all the basics like excessive indexes, missing indexes, unused indexes, etc.
- SQL Server 2014 has new feature of in-memory tables. Lots of DBA's and developers do not know how indexes work along with in-memory tables. In this session we will clear the idea

■ SQH05 Dealing with Bad Roommates—SQL Server Resource Governor

Intermediate / Advanced

JOEY D'ANTONI

Thursday, November 19, 9:30 – 10:45am

Do you manage systems with a wide variety or workloads? Given budgeting and licensing constraints,

SQL SERVER LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

database servers have seen dramatic amounts of database consolidation. Managing performance in densely consolidated environments is always a challenge. You have some users who are trying to run reports, while you have other uses that are trying to execute OLTP workloads. What if there was a way to do load balancing between these workloads, while putting your feet up on your desk? There is and it's called the Resource Governor. The Resource Governor was introduced in SQL Server 2008, and has progressively improved since then. New features include SQL Server 2014 so you can limit I/O use. In this session, you'll learn how the Resource Governor works, as well as best practices and use cases. You'll learn how to profile your workloads and keep your users and applications happy.

You will learn:

- Understanding of use cases for the resource governor
- How to implement the resource governor to manage disparate workloads in a converged SQL Server environment
- How to manage runaway IO workloads with Resource Governor in SQL Server 2014

■ SQH08 Top 10 Wait Types Everyone Should Know

Introductory / Intermediate

JANIS GRIFFIN

Thursday, November 19, 11:00am – 12:45pm

Analyzing Wait Types is a newer method for tuning SQL Server instances. As a result, there's often confusion on exactly what the data means. This presentation will focus on the top 10 most frequently seen Wait Types and review several real-life case studies of using SQL Server Wait Type data coupled with Response time performance analysis to solve the most difficult performance related issues.

You will learn:

- How to view and capture wait types for SQL Statements in order to gather clues on how to tune them
- The top ten most common wait types in a SQL Server instance. In addition, several solutions will be shown so the participant can quickly reduce the time spent on each one
- Why Response Time Analysis is the best method for finding and fixing the queries impacting your application / database users

■ SQH11 Troubleshooting SQL Server Performance using Wait Statistics

Intermediate / Advanced

EDWIN SARMIENTO

Thursday, November 19, 1:30 – 2:45pm

Have you ever scratched your head trying to figure out what is causing performance issues in your SQL Server databases? This session will uncover your SQL Server's performance issues by learning about wait statistics. You'll look at SQL Server wait statistics and how we can troubleshoot performance problems using this methodology—from finding the root cause to resolving the issues.

You will learn:

- What SQL Server wait statistics are
- The SQL Server query execution model and how it affects query performance
- How to identify and troubleshoot performance issues using SQL Server Wait Statistics

"I PARTICULARLY ENJOYED THE EMPHASIS ON NETWORKING AND KNOWLEDGE-SHARING, AS WELL AS, THE ENCOURAGEMENT TO ENGAGE THE SPEAKERS AND PRESENTERS."

- Christopher Eberhard, University of South Florida - Health Informatics Institute

For full speaker bios, go to live360events.com/orlando

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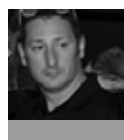


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Chris Bell
*Founder / Lead SQL Consultant, WaterOx
Consulting, Inc.*



Andrew Brust
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Chad Churchwell
Premier Field Engineer, Microsoft



Joey D'Antoni
*Principal Consultant, Denny Cherry and
Associates Consulting*



Pinal Dave
Evangelist, Pluralsight



David Dye
Sergeant, Cape Coral Police Department



Kevin Goff
Practice Manager, SetFocus, LLC



Janis Griffin
*Database Performance Evangelist,
Solarwinds*



Don Jones
*Curriculum Director for IT Pro
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Thomas LaRock
Head Geek, SolarWinds



Thomas LeBlanc
*Data Warehouse Architect,
eQHealth Solutions*

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SQL SERVER LIVE! CONFERENCE SPEAKERS (continued)



Leonard Lobel
CTO, Sleek Technologies, Inc.



William E. Pearson III
Business Intelligence Architect, Island Technologies Inc.



Edwin M. Sarmiento
Principal Consultant, 15C



Jen Stirrup
Industry Analyst / Author

"I LIKE THE TECH EVENT "WITH PERSPECTIVE" ASPECT OF THIS CONFERENCE. I FOUND IT VERY REFRESHING AND INNOVATIVE, AND APPRECIATED THE INTIMATE NATURE; LOTS OF AVAILABILITY TO SPEAK WITH SPEAKERS AND PRESENTERS."

- Pamela James, VVM - College of Medicine

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AGENDA AT-A-GLANCE

Developing Add-ins and Solutions for SharePoint	High-Value SharePoint Workloads: Social, Search, BI, and Business Process Automation	Information and Content Management: Documents, Records, and Web	Keys to SharePoint Success: Strategy, Governance, Adoption	SharePoint Infrastructure Management and Administration	SharePoint, Office 365 and the Cloud
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START TIME	END TIME	SharePoint Live! Pre-Conference: Sunday, November 15, 2015
4:00 PM	9:00 PM	Pre-Conference Registration • Royal Pacific Resort Conference Center
6:00 PM	9:00 PM	Dine-A-Round Dinner @ Universal CityWalk

START TIME	END TIME	SharePoint Live! Pre-Conference Workshops: Monday, November 16, 2015
8:00 AM	5:00 PM	SPM01 - Workshop: Developer OnRamp to the Office 365 & Azure AD Highway! - <i>Andrew Connell</i> SPM02 - Workshop: Getting up and Running with Office 365 for IT Pros - <i>Dan Usher & Scott Hoag</i>
5:00 PM	6:00 PM	EXPO Preview
6:00 PM	7:00 PM	LIVE! 360 KEYNOTE: Microsoft 3.0: New Strategy, New Relevance - <i>Mary Jo Foley, Journalist and Author; with Andrew Brust, Senior Director, Datameer</i>


START TIME	END TIME	SharePoint Live! Day 1: Tuesday, November 17, 2015
8:00 AM	9:00 AM	SHAREPOINT LIVE! KEYNOTE: Conference Welcome & State of SharePoint & Office 365 <i>Andrew Connell, MVP, Independent Contractor, Instructor, Author, Andrew Connell Inc.; Matthew McDermott, Founder and Director, Aptillon, Inc.</i>
9:00 AM	9:30 AM	Networking Break • Visit the EXPO
9:30 AM	10:45 AM	SPT01 - Integrating Office Web Apps with SharePoint 2013 - <i>Brian Alderman</i> SPT02 - An Introduction to SharePoint 2013 Add-ins for Developers - <i>Rob Windsor</i> SPT03 - An Introduction to SharePoint 2013 Add-ins for Developers - <i>Martina Grom</i>
11:00 AM	12:15 PM	SPT04 - Succeeding with Hybrid SharePoint and Search: Strategy and Implementation Including SharePoint 2016 - <i>Jeff Fried</i> SPT05 - SharePoint Developers, Come to the Client Side (We Have Cookies) - <i>Bill Ayers</i> SPT06 - No Governance as Usual - <i>Robert Bogue</i>
12:15 PM	2:00 PM	Lunch • Visit the EXPO
2:00 PM	3:15 PM	SPT07 - To Be Announced SPT08 - To Be Announced SPT09 - Intro to Content Web Parts: the Sweetest Way to View and Manage Content - <i>Kim Frehe</i>
3:15 PM	4:15 PM	Networking Break • Visit the EXPO
4:15 PM	5:30 PM	SPT10 - Configuring SharePoint Hybrid Search - <i>Matthew McDermott</i> SPT11 - Introduction to Node.js for the SharePoint & Office 365 Developer - <i>Andrew Connell</i> SPT12 - OneDrive for Business: Much More than a File Share - <i>Erica Tolle</i>
5:30 PM	7:30 PM	Exhibitor Reception

Sessions and speakers subject to change.

Continued next page

AGENDA AT-A-GLANCE (continued)

Developing Add-ins and Solutions for SharePoint	High-Value SharePoint Workloads: Social, Search, BI, and Business Process Automation	Information and Content Management: Documents, Records, and Web	Keys to SharePoint Success: Strategy, Governance, Adoption	SharePoint Infrastructure Management and Administration	SharePoint, Office 365 and the Cloud
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START TIME	END TIME	SharePoint Live! Day 2: Wednesday, November 18, 2015		
8:00 AM	9:00 AM	LIVE! 360 KEYNOTE: DevOps—What it Means to You and How to Get There - Don Jones, Curriculum Director, Pluralsight; Brian Randell, Partner, MCW Technologies <i>Sponsored by</i> PLURALSIGHT		
9:15 AM	10:30 AM	SPW01 - SQL 2014 Always On Availability Groups for SharePoint 2013 - Vlad Catrinescu	SPW02 - SharePoint Development Lifecycle for Solutions and Add-ins - Robert Bogue	SPW03 - SharePoint 2013 Workflow Basics in Plain English for Business Users - Kim Frehe
10:30 AM	11:00 AM	Networking Break • Visit the EXPO		
11:00 AM	12:15 PM	SPW04 - Automating SharePoint On-Premises Tasks with PowerShell - Ben Stegink	SPW05 - Building Office Add-Ins with Visual Studio - Bill Ayers	SPW06 - Understanding Your SharePoint 2013 Business Intelligence Options - Darren Bishop
12:15 PM	1:45 PM	Birds-of-a-Feather Lunch • Visit the EXPO		
1:45 PM	3:00 PM	SPW07 - Managing Data Recovery in SharePoint 2013 - Brian Alderman	SPW08 - Building Search-Driven Apps with the Office Graph - Jeff Fried	SPW09 - Plan to Migrate to SharePoint Online - Erica Tolle
3:00 PM	4:00 PM	Networking Break • Visit the EXPO • Expo Raffle @ 3:30 p.m.		
4:00 PM	5:15 PM	SPW10 - Setting Up Directory Synchronization for Office 365 - Dan Usher & Scott Hoag	SPW11 - Utilizing jQuery in SharePoint—Get More Done Faster - Mark Rackley	SPW12 - Building an Award-Winning Wellness Program Using SharePoint - Sandra Mahan
8:00 PM	10:00 PM	Live! 360 Dessert Luau <i>Sponsored by</i>  amazon web services <small>The AWS Cloud supports Microsoft Windows Server</small>		

Sessions and speakers subject to change.

Continued next page

AGENDA AT-A-GLANCE (continued)

Developing Add-ins and Solutions for SharePoint	High-Value SharePoint Workloads: Social, Search, BI, and Business Process Automation	Information and Content Management: Documents, Records, and Web	Keys to SharePoint Success: Strategy, Governance, Adoption	SharePoint Infrastructure Management and Administration	SharePoint, Office 365 and the Cloud
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START TIME	END TIME	SharePoint Live! Day 3: Thursday, November 19, 2015		
8:00 AM	9:15 AM	SPH01 - To the Cloud! Using IaaS as a Hosting Provider for SharePoint - Dan Usher & Scott Hoag	SPH02 - Using jQuery to Maximize SharePoint Form Usability - Mark Rackley	SPH03 - Three Must-Have SharePoint Workflows with SharePoint Designer - Vlad Catrinescu
9:30 AM	10:45 AM	SPH04 - Getting Started with PowerShell for Office 365 - Ben Stegink	SPH05 - Building Secure Client Applications for Office 365 - Bill Ayers	SPH06 - Content Management Using the Power of Search - Kim Frehe
11:00 AM	12:15 PM	SPH07 - Building Great Search Experiences in SharePoint - Matthew McDermott	SPH08 - Using Azure to Replace Server-Side Code in Office 365 - Paul Schaefflein	SPH09 - To Be Announced
12:15 PM	1:30 PM	Lunch on the Lanai		
1:30 PM	2:45 PM	SPH10 - Information Management Strategy with Office 365 in Mind - Jeff Fried	SPH11 - Introduction to the SharePoint Client Object Model and REST API - Rob Windsor	SPH12 - Working Together with Groups, Yammer and Exchange Online - Martina Grom
3:00 PM	4:15 PM	SPH13 - To Be Announced	SPH14 - Mixing in Code with a No-Code Access Services Applications to Get the Job Done! - Darrin Bishop	SPH15 - How to Fire People Using SharePoint - Sandra Mahan
4:30 PM	5:45 PM	LIVE! 360 CONFERENCE WRAP-UP - Andrew Brust (Moderator), Andrew Connell, Don Jones, Rockford Lhotka, Matthew McDermott, Brian Randell, & Greg Shields		

START TIME	END TIME	SharePoint Live! Post-Conference Workshops: Friday, November 20, 2015	
8:00 AM	5:00 PM	SPF01 - Workshop: Deep Dive into Authentication and Authorization in the Cloud - Paul Schaefflein	SPF02 - Workshop: Create Your End User Adoption Strategy - Erica Toelle

Sessions and speakers subject to change.

SHAREPOINT LIVE! SESSION DESCRIPTIONS BY TRACK

Developing Add-ins and Solutions for SharePoint

This track is “for developers only.” The sessions focus on tools and methodologies for SharePoint 2013 and Office 365 development. Expert speakers will guide you through an exploration of 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 also find high-value sessions throughout the tracks of SharePoint Live! 360, where solution-specific development sessions are listed.

■ SPT02 An Introduction to SharePoint 2013 Add-ins for Developers

Introductory / Intermediate

ROB WINDSOR

Tuesday, November 17, 9:30 – 10:45am

The Add-in model is a new development/deployment model introduced with SharePoint 2013. When using this model, all code runs outside the SharePoint server in the client browser, on another server in your network or in the cloud. Since code isn’t being deployed to the server, interaction with SharePoint is done with the enhanced and extended client object model and REST services. This session will explore the Add-in model and look at how to develop Add-ins using Visual Studio and a new Web-based tool code-named “Napa.”

You will learn:

- How to Install and use Add-ins from the end-user perspective
- The different types of Add-ins and how to build them
- Add-in authentication and identity

■ SPT05 SharePoint Developers, Come to the Client Side (We Have Cookies)

Introductory / Intermediate

BILL AYERS

Tuesday, November 17, 11:00am – 12:15pm

It’s been tough for us SharePoint developers who have spent years perfecting our SharePoint server-side development skills. Everyone, including Microsoft, is telling us we should back away from the SharePoint server and instead develop client-side solutions. It’s not always obvious how to get there. JavaScript has matured in the last few years, and there are some great tools and frameworks that have created a powerful client-side platform with a rich developer ecosystem. Besides existing Web services endpoints, the newer versions of SharePoint have REST/OData endpoints to support rich client-side solutions using open standards. And with the Office 365 APIs, this story is getting better. This session will look at the exciting new options available to SharePoint developers that let us write the software our business users want, whether they’re using SharePoint on-premises or in the cloud.

You will learn:

- About the different patterns of Client-side development that work with SharePoint versions old and new and Office 365
- How to compare the legacy APIs, CSOM and REST SharePoint APIs and Office 365 APIs
- How we can use these new models to build apps for today and for the future

■ SPW02 SharePoint Development Lifecycle for Solutions and Add-ins

Intermediate / Advanced

ROBERT BOGUE

Wednesday, November 18, 9:15 – 10:30am

SharePoint has always had a different software development lifecycle than traditional applications. The fact that SharePoint solutions are composited from configuration of the site plus code has given us a different set of approaches to creating solutions based on SharePoint. Add-Ins (was Apps) create a new set of challenges with client secrets and fixed provider URLs. In this session you’ll learn some practical approaches, techniques, and tools for building solutions built on SharePoint—whether you’re building SharePoint Solutions or SharePoint Add-ins. Here we’ll talk about the approaches to development, QA, and production environments and how to make the process work.

You will learn:

- How to manage the movement of content, solutions and Add-ins
- How to manage provider hosted Add-ins and testing environments
- What a configuration management process should look like

■ SPW05 Building Office Add-Ins with Visual Studio

Introductory / Intermediate

BILL AYERS

Wednesday, November 18, 11:00am – 12:15pm

If you’ve ever built or considered building an application for Office, you’re probably familiar with Visual Studio Tools for Office (VSTO). Now with the 2013 iteration of the Office platform, you can use the “App model” for Office applications. That’s a good thing. Now you can use your front-end Web development skills to deliver

SHAREPOINT LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

Office add-ins. In this session, you'll learn how to build solutions that will give your Office users tools that can take advantage of the Office 365 APIs along with other endpoints such as SharePoint, integrated into the environment they use every day.

You will learn:

How to build apps for Office using the same skills we use for SharePoint and web development

How to use the power of Office 365 and SharePoint APIs to deliver contextually relevant information inside Office applications

How to extend our existing SharePoint infrastructure to enhance user productivity

■ SPW11 Utilizing jQuery in SharePoint—Get More Done Faster

Introductory / Intermediate

MARK RACKLEY

Wednesday, November 18, 4:00 – 5:15pm

JavaScript, REST, CSOM, Office 365 APIs—Like it or not, client-side development is the future of SharePoint development. At the forefront of this wave is the powerful JavaScript library jQuery. Using jQuery in SharePoint, you can take your applications to the next level in less time. What's more, you can use jQuery in SharePoint 2007, 2010, 2013, and Office 365 often without making changes to your code. In this class, you'll gain a new appreciation for jQuery.

You will learn:

- "What's possible," including visual enhancements and practical business intelligence
- Tips and Tricks for deploying and maintaining scripts
- How to get quick wins with little effort using third-party jQuery libraries
- How to interact with SharePoint forms and lists using JavaScript and jQuery

■ SPH02 Using jQuery to Maximize SharePoint Form Usability

Intermediate

MARK RACKLEY

Thursday, November 19, 8:00 – 9:15am

You know what users hate? Ugly, unusable SharePoint forms. You know what developers hate? Cracking open Visual Studio or InfoPath for minor form modifications. There must be a better option. In this session, you'll learn how to use jQuery to transform SharePoint's out-of-the-box forms to make them dynamic, stylized and more usable without needing Visual Studio or InfoPath.

You will learn:

- How to hide, show and pre-populate SharePoint Form fields
- How to create cascading drop-down lists and custom field validations
- How to turn your bland SharePoint form into a visually stunning masterpiece

■ SPH05 Building Secure Client Applications for Office 365

Intermediate

BILL AYERS

Thursday, November 19, 9:30 – 10:45am

Whether you're building Web applications, mobile solutions or desktop applications against Office 365, you're going to have to deal with security issues. You'll also have to reconcile that with the expectations of users who want the convenience of single sign-on. This session will look at authentication and authorization for applications written using HTML5 and JavaScript against AzureAD and the Office 365 and SharePoint REST endpoints. It will cover the underlying process and show that it's not rocket science. You'll also learn how to use existing JavaScript and .NET libraries to make your job easier and review some of the best practices.

You will learn:

- The process of authentication, authorization and managing tokens
- Review sample code examples for Office 365 and SharePoint Online
- Review JavaScript libraries available to help manage security for your application such as ADAL JS

■ SPH08 Using Azure to Replace Server-Side Code in Office 365

Intermediate

PAUL SCHAEFLEIN

Thursday, November 19, 11:00am – 12:15pm

Among its other components, Microsoft's Office 365 offering includes SharePoint Online. The extensibility of SharePoint Online is dramatically different from SharePoint 2013 when it's installed on-premises. Despite these differences, you can still replicate the functionality of server-side code. This session will show some examples of using Azure and client-side code to meet your business needs.

You will learn:

- Coding in Microsoft Azure
- System interoperability and communication requirements
- Mapping of server-side capabilities to client-side

■ SPH11 Introduction to the SharePoint Client Object Model and REST API

Intermediate

ROB WINDSOR

Thursday, November 19, 1:30 – 2:45pm

When Microsoft released SharePoint 2013, it was pretty clear they were steering people away from using the product as a portal to using it as a gateway to external systems and services. Since you can't use the Server Object Model remotely, developers building these

SHAREPOINT LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

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, provide a brief overview of their history, and show you how to get started using them through a series of demonstrations.

You will learn:

- What are the Client Object Model and REST API
- How to perform common operations using the Client Object Model
- How to perform common operations using the REST API

■ SPH14 Mixing in Code with a No-Code Access Services Applications to Get the Job Done!

Intermediate

DARRIN BISHOP

Thursday, November 19, 3:00 – 4:15pm

Access Services in 2013 is a no-code solution that lets users quickly capture data in SharePoint 2013. They can easily create a SharePoint app to access forms and a SQL Server database. To get the job done correctly, the no-code solution typically needs a little help. This could be as simple as data validation or complex as integrating data into other enterprise processes. That's where you can leverage Access macros and even external code to help get the job done. This session will provide a brief overview of Access Services in SharePoint 2013. It will take an existing "end-user" application take it across the finish line with macros and external code. If your organization is looking to leverage Access Services in SharePoint 2013, this session will give you the background you need to understand how Access Services is setup and configured and how to program using macros and external code. The session will start out with no code, pass through macros and end with C# and SQL.

You will learn:

- How Access Services is installed and configured in SharePoint 2013
- How to use macros to work with the user interface and data
- How to use external code to work with data and integrate data into other processes

"THE MULTIPLE TRACKS MADE IT AN EASY WAY TO SELL IT TO MY MANAGEMENT. THE AVAILABILITY OF THE PRESENTERS AND THE USEFUL INFORMATION FOR DAY-TO-DAY ISSUES AND PROBLEM SOLVING IS INVALUABLE."

- Manfred B. Zysk, NRS

High-Value SharePoint Workloads: Social, Search, BI, 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 lets 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 the best and brightest experts in the industry to learn just how to build BI, BPA, search, and enterprise social solutions with SharePoint 2013 and Office 365.

■ SPT04 Succeeding with Hybrid SharePoint and Search: Strategy and Implementation Including SharePoint 2016

Intermediate / Advanced

JEFF FRIED

Tuesday, November 17, 11:00am – 12:15pm

Hybrid SharePoint is the new reality for many organizations. With Microsoft's roadmap focused on cloud-first/cloud-only, and a set of new hybrid capabilities in SharePoint 2016, defining a strategy and an implementation plan becomes more difficult and more critical. Hybrid SharePoint can be very effective—and unified search is central to making it work well. By learning about common hybrid scenarios, patterns, and practices, attendees will be able to more confidently create a strategy, architecture, and implementation plan for Hybrid SharePoint.

Microsoft has made a big investment in hybrid, including major new capabilities with SharePoint 2016. This session reviews seven common hybrid scenarios, and lays out the strategies and configurations involved. You'll walk

SHAREPOINT LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

through the steps of planning and architecting hybrid SharePoint and cover the tradeoffs involved. You'll learn how unified search works and how to use it to make hybrid SharePoint effective. See the good, the bad, and the ugly about Hybrid SharePoint, demonstrate some successful tools and techniques, and have fun in the process.

You will learn:

- How to bring essential content from SharePoint and other sources into a unified view and how to access this securely in a hybrid environment
- What you do and don't get with hybrid OOB in SharePoint 2016, and how to work with SharePoint 2013 and 2010 in hybrid configurations
- Successful patterns and practices, as well as techniques for addressing the potholes you will run into
- Techniques for addressing the potholes you will run into

■ SPT09 Intro to Content Web Parts: the Sweetest Way to View and Manage Content

Introductory / Intermediate

KIM FREHE

Tuesday, November 17, 2:00 – 3:15pm

There are some fantastic out of the box Web parts that let you display your data in unique and interesting ways without code. When you combine these Web parts with content types, metadata and audience targeting, you have a great way to bring information to your users, regardless of where the data exists, without being a programmer. Imagine finding everything you need in one location in SharePoint.

This session will show you real world examples in SharePoint 2010, 2013 and SharePoint Online with out-of-the-box Content Query, Content Search and Search Results Web parts. Examples include targeted communications, content owner-maintenance views, dashboards and more. You'll learn when you should use

which Web part and how to make minor modifications in order to make each more effective. The session wraps up with tips and tricks, as well as session recommendations to learn more in-depth information on each topic.

You will learn:

- Generate ideas for Content Management
- When to use which OOB web part to achieve your goals
- Tips and Tricks for using these web parts

■ SPT10 Configuring SharePoint Hybrid Search

Introductory / Intermediate

MATTHEW MCDERMOTT

Tuesday, November 17, 4:15 – 5:30pm

This demo-filled session will review the latest advances in SharePoint and Office 365 Hybrid Search. You'll see demonstrations of how to create powerful hybrid search experiences that include SharePoint, File Shares and BCS results both on premise and in Office 365.

You will learn:

- What is required for hybrid configuration
- What you should consider when crafting your hybrid environment

■ SPW03 SharePoint 2013 Workflow Basics in Plain English for Business Users

Introductory / Intermediate

KIM FREHE

Wednesday, November 18, 9:15 – 10:30am

This session introduces Business Users to SharePoint 2013 Workflow using SharePoint Designer (SPD). You'll be able to review terminology, learn what's new in 2013, what has been removed that was available in 2010, and how you can still run your SPD 2010 workflows in 2013.

This session won't cover how the backend works, but will focus on all the cool new stuff you can do once

Workflow is up and running in your 2013 environment. It will also review some examples of workflows and when you should choose between 2010 or 2013 workflows. Whether you're a power user looking to solve a problem by creating a workflow, or an end user that is working with someone who is creating your workflow on your behalf, this session will give you the knowledge and terminology to know where to begin.

You will learn:

- What's new in 2013 SPD Workflow
- What's been deprecated from 2010 workflow
- How to use 2010 workflow functions that have been deprecated

■ SPW06 Understanding Your SharePoint 2013 Business Intelligence Options

Introductory

DARREN BISHOP

Wednesday, November 18, 11:00am – 12:15pm

With Microsoft SharePoint, Business Intelligence is now cost effective option for organizations of any size. All organizations can benefit from transforming raw data into actionable information. This session will provide an overview of the many BI features and services provided by SharePoint 2013. You'll see the capabilities of Reporting Services, PerformancePoint Services, Excel Services, Power Pivot and Visio Services. You'll also learn how these services fit into a blended BI offering supporting Individual, Team and Corporate business intelligence. There will be no code or configuration in this session, just demonstrations of capabilities and how each product can add value to any organization.

You will learn:

- The available business intelligence applications for SharePoint 2013 and Office 365
- Which features are supported by each application

SHAREPOINT LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

- How each business application supports the concept of individual, team and corporate business intelligence

■ SPW08 Building Search-Driven Apps with the Office Graph

Intermediate / Advanced

JEFF FRIED

Wednesday, November 18, 1:45 – 3:00pm

Search underlies a whole range of apps and applications. The successful pattern of multiple focused apps found in consumer search can also apply inside the enterprise. This session will highlight a set of apps built on top of the Office Graph. This will arm you with best practices and techniques for using the Office Graph effectively within your apps. This demo-packed session will explain how Office Graph works behind the scenes, show the standard applications such as Delve and Clutter, and showcase how to query it to bring new insights and intelligence into your own apps. It will also demonstrate how to push external content and signals into the Office Graph from Line of Business systems and 3rd party services. Finally, you'll see how these techniques are used in three case studies—both in the code and in development project practices. The Office Graph is a different animal for many developers, but it is easy to work with and fun to develop against once you know how.

You will learn:

- How to work with queries and the office graph entities and edges, the new GQL2 query syntax, building up query strings, using advanced query features, and techniques for capturing and using user context
- How to extend the office graph using the Common Knowledge Model, normalizing and connecting data and signals, working with Knowledge Facets, and using the APIs
- Best practices for forming an effective information UI and how this differs across applications, translating user requirements into components, Graph operations and visualizations against the Office Graph

- Techniques for approaching a search-driven application development project, what is different from traditional application development and what is the same, and examples of successful projects and applications

■ SPH03 Three Must-Have SharePoint Workflows with SharePoint Designer

Introductory

VLAD CATRINESCU

Thursday, November 19, 8:00 – 9:15am

Process automation is one of the most desirable benefits of SharePoint. This session will look at three must-have workflows for SharePoint by using SharePoint Designer as well as a lot of useful tips and tricks that can be used in any SharePoint 2010 and SharePoint 2013 workflows.

You will learn:

- How to do workflows in SharePoint Designer
- How to deliver value fast and easy to your business by automating processes
- New tips and tricks you maybe didn't know existed before

■ SPH06 Content Management Using the Power of Search

Intermediate

KIM FREHE

Thursday, November 19, 9:30 – 10:45am

A.K.A. Search 2013—What's In It for Me—Why Content Owners and Power Users should care about Search. SharePoint search had a major overhaul with 2013, but most people assume if they're not an admin or developer, they shouldn't care. That's not true. This session will show you examples of collaboration solutions based on 2013 Content by Search and Search Results Web Parts. First you'll get your creative juices flowing with examples, and then you'll see what you need to know to get started.

You will learn:

- Managed Metadata Navigation—how it works to create one page to show what you need
- Search Settings that can improve what is displayed when and where and how people find your content
- Managed Properties—what they are, why they're important and how to work with them, even as a site owner
- Display Templates—What they are, where to find them and what to do with them
- Refiners—How to work with them

■ SPH07 Building Great Search Experiences in SharePoint

Introductory / Intermediate

MATTHEW MCDERMOTT

Thursday, November 19, 11:00am – 12:15pm

The Search Service Application is the most powerful data source available to SharePoint problem solvers. Not only can you use it to aggregate tasks, events, and documents from around the farm, but also to crawl line-of-business databases. In this session, you'll learn how to use the many features of Search to solve business problems. You'll see how to improve the Search Centers to create powerful solutions to common business scenarios.

You will learn:

- How to change the look of search results
- How to present structured line of business data alongside unstructured SharePoint data to create a "Customer 360" in SharePoint
- How to use Query Rules to help your users find what they seek

SHAREPOINT LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

■ SPH12 Working Together with Groups, Yammer and Exchange Online

Intermediate / Advanced

MARTINA GROM

Thursday, November 19, 1:30 – 2:45am

There are so many channels around working together—when to use what and why? What's the best scenario and what is the best usage for future developments?

This session will demonstrate the different tools and show the differences between them. Take the ride from Exchange Online over to SharePoint Online and Yammer. Get help and learn about best practices bringing those together.

"THIS WAS MY FIRST CONFERENCE, SO I DIDN'T KNOW WHAT TO EXPECT. THIS HAS REALLY BEEN A GREAT EXPERIENCE FOR ME. THANK YOU!"

-G. Gordon Nusseri, Tridea Works

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 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.

■ SPT06 No Governance as Usual

Introductory / Intermediate

ROBERT BOGUE

Tuesday, November 17, 11:00am – 12:15pm

Governance is a struggle faced by many organizations. Getting the business to take ownership for the governance, figuring out what part of the governance is most needed, and figuring out how to get buy-in are all common problems. In this session you'll get practical advice for moving your governance forward—even without 100 percent buy-in. Join this session to learn about what you CAN do with governance (instead of what you can't).

You will learn:

- What governance is and isn't
- How to define what the organization really wants
- Driving support for the governance project

■ SPT12 OneDrive for Business: Much More than a File Share

Introductory / Intermediate

ERICA TOLLE

Tuesday, November 17, 4:15 – 5:30pm

At first glance, it seems OneDrive for Business may be a return to the file share days, with folders and files located on a server somewhere. In reality, it's a powerful enterprise content management tool with a robust list of features, including unlimited cloud storage per user. In this session, you'll learn about the features of OneDrive for Business and best practices for including it in your information management toolbox. You'll discuss how it fits into your SharePoint on premise and cloud roadmap, what content to put where, and how to migrate data from a file share or competitive platform into OneDrive for Business.

You will learn:

- Business uses of OneDrive for Business, including high value scenarios and best practices for successful implementations
- The technical specifics of OneDrive for Business, covering syncing, provisioning, decommission, limitations, cross platform apps

SHAREPOINT LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

Keys to SharePoint Success: Strategy, Governance, Adoption

A successful SharePoint implementation requires more than just technical proficiency. It requires a commitment to continuous improvement, service delivery, governance, and management; as well as a fanatical focus on business needs and user adoption. Developers, IT professionals, business leadership, project managers and users must work cohesively to ensure SharePoint delivers value and scales to meet new requirements and workloads. These sessions, led by many of the industry's thought leaders, provide invaluable guidance and insight to each of these constituencies, and are, as the track title suggests, critical to your success with SharePoint.

■ SPW12 Building an Award-Winning Wellness Program Using SharePoint

Introductory

SANDRA MAHAN

Wednesday, November 18, 4:00 – 5:15pm

As a health insurance organization, our company takes wellness very seriously. In fact, we've been received several national awards and have been named in the Healthiest 100 Workplaces in America. In an effort to reward employees for their healthy behaviors, Human Resources needed to design a system to let employees log their wellness activities and receive the corresponding incentive for successful completion of the programs. The program needed to provide a multifaceted approach to support and promote wellness to over 5,000 employees at more than a dozen sites in four states, as well as remote workers. In this session, you'll learn the details of how we built this program using out-of-the box functionality and real world examples.

You will learn:

- How to build a user-friendly wellness scorecard as the master record

- How to assign permissions to the records
- How to create a team-based daily tracking form
- How to link the validation results at the end of the program with the master record
- How to create views to track participation levels

SPH10 Information Management Strategy with Office 365 in Mind

Intermediate / Advanced

JEFF FRIED

Thursday, November 19, 1:30 – 2:45pm

Effective information management isn't just a technology problem. It starts with strategy that encompasses findability, governance and information architecture, including a business vision and a pragmatic roadmap. With the cloud and hybrid driving cultural changes, new possibilities, and new challenges; having an ROI-focused strategy is even more important. You'll learn how tried-and-true practices, new tools (such as Delve, Yammer, and Groups), new patterns (of collaboration, search and discovery), and ever-faster change can all be factored into your strategy and plan. See how Office 365 and hybrid factor into information management strategy; take home a recipe, five key principles, examples and a strategy template.

You will learn:

- How to create an effective information management strategy
- How the cloud, Office 365, and hybrid SharePoint should be factored into a business-driven strategy and roadmap
- How to develop business justification and ROI

SPH15 How to Fire People Using SharePoint

Introductory

SANDRA MAHAN

Thursday, November 19, 3:00 – 4:15pm

This session isn't really about firing employees. It's about taking inefficient manual processes and automating them using out-of-the-box functionality available within SharePoint. You'll hear how one organization reduced a process that involved 23 employees throughout the company to one employee doing the work on a part-time basis. This session will cover all the details of this real world example so you too can turn your business users into your biggest SharePoint evangelists and provide them with the power and know-how to maintain the solution on an ongoing basis.

You will learn:

- How to build a user-friendly form and manage rules for submission
- How to secure the form using item level permissions in SharePoint Designer
- How to create a quiz to ensure 100% understanding
- How to display progress completion with conditional formatting in Excel
- How to design a dashboard to summarize information

SPF02 Workshop: Create Your End User Adoption Strategy

Intermediate

ERICA TOELLE

Friday, November 20, 8:00am – 5:00pm

End User Adoption is an important area of focus in your SharePoint project. This workshop will take a close look at the End User Adoption work stream on a SharePoint project and the associated roles, responsibilities, deliverables and tasks for the project plan. It will also review case studies to demonstrate how these differ

SHAREPOINT LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

based on the size of the project and the needs of the organization.

Specifically, the discussion will include:

- A sample project plan and resource descriptions for the End User Adoption / Organizational Change Management work stream
- An assessment to determine the organizational culture risk factors are present in your company and strategies for how to mitigate these risks
- Avenues for executive and leadership buy in and how to obtain their endorsement
- How to properly identify project stakeholders and gain their support and resources
- Types of ongoing SharePoint programs to sustain your deployment through many years and create department level power users
- Approaches to end user training and the pros and cons of each approach based on your organizational culture
- How to create a communication plan that will sustain project momentum across all levels of the organization
- Workshop participants will walk away with a SharePoint End User Adoption strategy customized for their unique organization and project and deliverable templates to begin executing the work stream.

SharePoint Infrastructure Management and Administration

IT professionals must carefully plan, deploy, configure and administer the complex stack of technologies that comprise a SharePoint service. From SQL Server to Active Directory to DNS to SharePoint itself, there myriad moving parts that 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. Sessions in this track are geared primarily to IT pros and DBAs. First-class speakers will guide you through the nuances of SharePoint infrastructure management and administration—in Office 365 and “on-prem” and will equip you to deploy and support SharePoint 2013 effectively, with both GUI and PowerShell methodologies.

■ SPT01 Integrating Office Web Apps with SharePoint 2013

Intermediate

BRIAN ALDERMAN

Tuesday, November 17, 9:30 – 10:45am

The Microsoft Office Web Applications (OWA—now called Office Online) that were once configured and managed as a service application in SharePoint 2010 are now configured and managed completely differently in SharePoint 2013. The Office Web Applications are now created in an Office Web Apps farm. This lets you create a universal Office Web App environment that can host multiple SharePoint farms, as well as host content that can be accessed from within Lync, Exchange and File shares. The OWA farm lets users create, edit, and share content using browser-based versions of Word, Excel, PowerPoint, and OneNote. Furthermore, you can configure Office Online to enhance the users search experience by providing a document preview or thumbnail that is viewable from within the search result set. This session will discuss how and why you will want

to implement the new Office Web Apps and the many benefits of doing so.

You will learn:

- The deployment difference between the Office Web Apps in SharePoint 2010 and SharePoint 2013
- How to prepare for the installation of Office Web Apps
- How to install and test the installation of Office Web Apps

■ SPW01 SQL 2014 Always On Availability Groups for SharePoint 2013

Intermediate / Advanced

VLAD CATRINESCU

Wednesday, November 18, 9:15 – 10:30am

As IT systems have become increasingly critical to a company's smooth operation, and arguably the economy as a whole, the importance of ensuring the continued operation of those systems and their rapid recovery, has increased. This session will introduce you to the concept AlwaysOn Availability Groups and how you can configure it with SharePoint Server 2013. You'll also learn how to increase SharePoint and SQL performance by using the availability group Read-Intent and Backup Priority features.

You will learn:

- The new Always On Availability Groups concept
- How to deliver a Highly Available SharePoint Farm
- About DR options in SharePoint

■ SPW04 Automating SharePoint On-Premises Tasks with PowerShell

Intermediate / Advanced

BEN STEGINK

Wednesday, November 18, 11:00am – 12:15pm

How often have you had to repeat a task in SharePoint or make broad changes across your environment that affects multiple sites? This session will go over some basics of using PowerShell with SharePoint and then

SHAREPOINT LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

move into some scenarios and address where spending time writing a PowerShell script can help save time in the long run or provide valuable information to the business. The session will include lots of demos and "playing" with PowerShell to show what's possible.

The discussions and scenarios will include how to use PowerShell for SharePoint Installations and some basic administration of SharePoint with PowerShell. You'll also learn some reporting/information gathering on a SharePoint environment and how to use PowerShell to simplify and speed up what may seem like large scale change across SharePoint environments. The session wraps up with combining everything to show the advantages of creating/provisioning new sites SharePoint using PowerShell.

You will learn:

- How to gather information about your On-Premises SharePoint environment using PowerShell
- Large and small SharePoint On-Premises administrative tasks that can be simplified and performed quicker with PowerShell
- How PowerShell can facilitate creating a much more uniform and manageable On-Premises SharePoint environment

■ SPW07 Managing Data Recovery in SharePoint 2013

Introductory / Intermediate

BRIAN ALDERMAN

Wednesday, November 18, 1:45 – 3:00pm

SharePoint Server 2013 includes several content recovery options that give you more granular content recovery options. Using Central Administration or PowerShell, you can export site collections, site, libraries and list making it easier to backup; migrate, or archive content stored in SharePoint. SharePoint 2013 also give you the option of recovering site collections, sites, list and libraries from content databases that are no longer part of the SharePoint farm. You can also configure your

content databases to take advantage of SQL Server High Availability (HA) options like mirroring, log shipping, and AlwaysOn that provide quick database recovery. With a vast majority of your SharePoint content stored in SQL Server, it's imperative that you have an efficient way to recover items or entire databases as quickly as possible. This session will introduce the Best Practices framework to let you configure SharePoint and SQL Server for quick content recovery minimizing the downtime and providing shorter yet achievable Service Level Agreements (SLA's).

You will learn:

- The tools available for SharePoint data recovery
- The different levels within SharePoint where data recovery can be performed
- How the tools work to help with the data recovery process

■ SPH01 To the Cloud! Using IaaS as a Hosting Provider for SharePoint

Intermediate

DAN USHER & SCOTT HOAG

Thursday, November 19, 8:00 – 9:15am

To the cloud! This phrase seems to come up more often for organizations look to reduce their SharePoint footprint and operational expenses in their on-premises datacenters. This session will provide a brief overview of a few of the premier Infrastructure as a Service hosting providers for SharePoint, how SharePoint in the cloud stacks up against Office 365 and how to quickly get your SharePoint system built in a repeatable fashion for development environments.

You will learn:

- Core Infrastructure as a Service (IaaS) providers.
- The complexities of what is involved with implementing SharePoint in a cloud hosted environment
- Some of the nuances and workarounds for hosting SharePoint in the cloud

■ SPH04 Getting Started with PowerShell for Office 365

Intermediate

BEN STEGINK

Thursday, November 19, 9:30 – 10:45am

As the SharePoint landscape evolves, it's hard not to notice how much Microsoft wants everyone to move to the cloud. As this change occurs, it is necessary for you to shift and add to your skill set. Once of the skill sets you in need in your tool belt is how to take their knowledge of PowerShell and use it to manage SharePoint as a part of Office 365. While PowerShell hasn't changed the commands and process for performing tasks have changed when compared to those same tasks on-premises.

This session will cover the basics of writing PowerShell for SharePoint as a part of Office 365. While it will focus primarily on SharePoint Office 365, it will also touch on areas that apply to other aspects of the Office 365 suite of services (like Azure AD). You'll look at and examples of how to perform some specific tasks in SharePoint Online that aren't nearly as "quick and easy" to do as they were on-premises.

By the end of the session, you'll have a foundation of how to get started writing PowerShell for SharePoint in Office 365. This session assumes a basic understanding of PowerShell in general.

You will learn:

- What you need to know when writing PowerShell for Office 365
- Challenges you may encounter with PowerShell for Office 365
- How to perform specific tasks with PowerShell in Office 365

SHAREPOINT LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

SharePoint, Office 365 and the Cloud

There's no doubt that "the cloud" will play a role in one, more, or all SharePoint workloads in your enterprise's 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 datacenters. It's crucial that you understand the variety of options available in "the cloud," so you can align your business needs with the best solution. You must also understand how to architect SharePoint 2013 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.

■ SPM01 Workshop: Developer OnRamp to the Office 365 & Azure AD Highway!

Intermediate / Advanced

ANDREW CONNELL

Monday, November 16, 8:00am – 5:00pm

There's a lot to learn to get productive with the Office 365 APIs. This session will explore why you should care about the Office 365 APIs and what you can do with them. First, you'll discuss and explore how Azure AD works, how you can create custom applications and write code to authenticate to obtain an OAuth2 access token. Then you'll dive deep and see how we can use that access token to work with all the different Office 365 APIs the Discovery Service as well as how to use the Contacts, Calendar, Messages and Files APIs using the .NET SDK as well as the REST API. By the end of this workshop, you'll have loads of code snippets and sample projects that you

can use as a starting point to get going and build your own applications that leverage the Office 365 APIs!

■ SPM02 Workshop: Getting up and Running with Office 365 for IT Pros

Introductory / Intermediate

DAN USHER & SCOTT HOAG

Monday, November 16, 8:00am – 5:00pm

Are you managing an on-premises SharePoint system? Are you considering moving to Office 365 soon? Are you thinking about going Hybrid? This workshop will help prepare you by taking you on a deep dive to help ramp you up and understand how to properly configure your environment to let your users make the best of Office 365. During this workshop, you'll work through the basics of Office 365, how it's operated, how to provision an Office 365 tenant, setup directory synchronization and demonstrate federated identity. You'll step into Office 365 running in hybrid mode with SharePoint 2013, what the Cloud Search Service Application brings to the table, and what the future holds for experiences like Delve and Groups with SharePoint 2016 on the horizon.

You will learn:

- The basics of Office 365 and how to properly select the appropriate licensing plan to meet your needs
- How to properly select the right identity management solution, as well as the basics of directory synchronization and federated identity
- The basics of SharePoint administration through the Office 365 Administration Portal, in addition to the basics of SharePoint Online management through PowerShell
- The steps to remediating issues in your on-premises Active Directory prior to performing Directory Synchronization and the basics of AD FS configuration to allow for SSO with Office 365
- What hybrid provides for with SharePoint On-Premises, steps to configuring an environment for hybrid, and the enhancements that the Cloud SSA will provide

■ SPT03 10 Things You Should Know About Office 365

Intermediate

MARTINA GROM

Tuesday, November 17, 9:30 – 10:45am

There are tons of new and exciting aspects to the new Office 365. This session, will give you all the news about Office 365. What is new in Exchange Online, what's about SharePoint Online and how to use Skype for Business? The session has a lot of demos of the new features in Office 365. It addresses users of Office 365 who wants to know what is new in the service and how to optimize the service.

Learn from field experience what the most wanted Discussion Points are around Office 365. In this 10 Points list, you'll find all you need to start your cloud conversation.

You will learn:

- Office 365 Strategy
- Valuable things about the service you probably don't know
- New value out of the service

■ SPT11 Introduction to Node.js for the SharePoint & Office 365 Developer

Intermediate / Advanced

ANDREW CONNELL

Tuesday, November 17, 4:15 – 5:30pm

Have you heard about this thing called Node.js? They actually got JavaScript to run on the server? There are some good reasons you should consider it for your next SharePoint or Office 365 app project. This session will help you learn what Node.js is, how to create a simple site and walk away with some resources on where to go from there.



SHAREPOINT LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

■ SPW09 Plan to Migrate to SharePoint Online

Intermediate

ERIC TOLLE

Wednesday, November 18, 1:45 – 3:00pm

As organizations consider Office 365 as an option for hosting SharePoint environments, you may ask yourself how an enterprise can actually move a large number of SharePoint sites to the cloud. This session will cover a large scale SharePoint migration to Office 365, which starts with several highly customized sites and multiple versions of SharePoint. You'll look at the project structure and plan, staffing, benefits and pitfalls, lessons learned, and how you can plan for a successful move to SharePoint Online.

You will learn:

- The five step process for planning a SharePoint Online Migration
- The three common types of migrations and how to create a successful migration plan for each one
- Technical considerations, best practices, and gotchas

■ SPW10 Setting Up Directory Synchronization for Office 365

Intermediate

DAN USHER & SCOTT HOAG

Wednesday, November 18, 4:00 – 5:15pm

Looking to reduce the number of post-it notes you see stuck around the office? Seeking to automate your user creation processes for Office 365? This session will take you through the basics of identity in addition to how to set up and configure Office 365 with Azure Active Directory using the Azure Active Directory Synchronization Connect tools.

You will learn:

- The core concepts of Office 365 / Azure Active Directory user identity
- Identity synchronization options and tooling
- How to implement and configure tooling for identity synchronization

■ SPF01 Workshop: Deep Dive into Authentication and Authorization in the Cloud

Intermediate / Advanced

PAUL SCHAEFLEIN

Friday, November 20, 8:00am – 5:00pm

The identity landscape for applications is rapidly evolving and can be confusing. Understanding the ramifications of hosting apps and services in the cloud (or consuming cloud services) can be daunting to developers. This workshop will cover the security standards and discuss how they relate. It will also review the various code libraries available to implement custom apps securely.

You will learn:

- About cloud-based directories
- About authentication and authorization protocols
- Coding patterns for secure custom applications

"THE VARIETY OF WORKSHOPS WAS FANTASTIC! OF COURSE, THE LOCATION IN SUNNY FLORIDA IS A PLUS!"

- Jeane Pearson, Medical Solutions

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Andrew Connell

Consultant, Instructor, Developer, & Author
SharePoint Live! Conference Co-Chair



Matthew McDermott

Founder and Director, Aptillon, Inc.
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Technical Instructor, CBT Nuggets



Bill Ayers

Technical Director, Flow Simulation Ltd.



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Founder and Director, Aptillon, Inc.

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SHAREPOINT LIVE! CONFERENCE SPEAKERS (continued)



Mark Rackley
Principal Consultant, capSpire, Inc.



Paul Schaefflein
Sr. Consultant, Schaefflein Consulting



Ben Stegink
*Owner and SharePoint Architect,
Intelligink, LLC*



Erica Tolle
Manager, Protiviti



Dan Usher
Senior Lead Engineer, Booz Allen Hamilton



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*Senior Consultant / Author,
Portal Solutions / Pluralsight*

**"IT'S A CONFERENCE FOR THE WHOLE TEAM
WITHOUT THE SALES PITCH. THE EXPERTS
SPOKE ON A LOT OF TECHNOLOGY, NOT
JUST MICROSOFT SPECIFIC."**

- Patrick Taillon, Defis Informatique



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MOBILE, CROSS-DEVICE & CLOUD DEVELOPMENT



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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 Windows 8, iPad, and Windows Phone 8 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 15
4:00 PM	9:00 PM	Pre-Conference Registration • Royal Pacific Resort Conference Center
6:00 PM	9:00 PM	Dine-A-Round Dinner @ Universal CityWalk


START TIME	END TIME	Modern Apps Live! Pre-Conference Workshop: Monday, November 16
8:00 AM	5:00 PM	MAM01 - Workshop: Modern App Technology Overview —Android, iOS, Cloud, and Mobile Web - Nick Landry, Kevin Ford, & Steve Hughes
5:00 PM	6:00 PM	EXPO Preview
6:00 PM	7:00 PM	LIVE! 360 KEYNOTE: Microsoft 3.0: New Strategy, New Relevance - Mary Jo Foley, Journalist and Author; with Andrew Brust, Senior Director, Datameer

START TIME	END TIME	Modern Apps Live! Day 1: Tuesday, November 17
8:00 AM	9:00 AM	MODERN APPS LIVE! KEYNOTE: TThe Future of Application Development - Visual Studio 2015 and .NET 2015 Jay Schmelzer, Director of Program Management, Visual Studio Team, Microsoft
9:00 AM	9:30 AM	Networking Break • Visit the EXPO
9:30 AM	10:45 AM	MAT01 - Defining Modern App Development - Rockford Lhotka
11:00 AM	12:15 PM	MAT02 - Modern App Architecture - Brent Edwards
12:15 PM	2:00 PM	Lunch • Visit the EXPO
2:00 PM	3:15 PM	MAT03 - ALM with Visual Studio Online (TFS) and Git - Brian Randell
3:15 PM	4:15 PM	Networking Break • Visit the EXPO
4:15 PM	5:30 PM	MAT04 - Reusing Logic Across Platforms - Kevin Ford
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 18
8:00 AM	9:00 AM	LIVE! 360 KEYNOTE: DevOps—What it Means to You and How to Get There - Don Jones, Curriculum Director, Pluralsight; Brian Randell, Partner, MCW Technologies Sponsored by PLURALSIGHT
9:15 AM	10:30 AM	MAW01 - Coding for Quality and Maintainability - Jason Bock
10:30 AM	11:00 AM	Networking Break • Visit the EXPO
11:00 AM	12:15 PM	MAW02 - Start Thinking Like a Designer - Anthony Handley
12:15 PM	1:45 PM	Birds-of-a-Feather Lunch • Visit the EXPO
1:45 PM	3:00 PM	MAW03 - Applied UX: iOS, Android, Windows - Anthony Handley
3:00 PM	4:00 PM	Networking Break • Visit the EXPO • Expo Raffle @ 3:30 p.m.
4:00 PM	5:15 PM	MAW04 - Leveraging Azure Services - Kevin Ford
8:00 PM	10:00 PM	Live! 360 Dessert Luau Sponsored by  amazon web services <small>The AWS Cloud supports Microsoft Windows Server</small>

START TIME	END TIME	Modern Apps Live! Day 3: Thursday, November 19
8:00 AM	9:15 AM	MAH01 - Building for the Modern Web with JavaScript Applications - Allen Conway
9:30 AM	10:45 AM	MAH02 - Building a Modern App with Xamarin - Nick Landry
11:00 AM	12:15 PM	MAH03 - Building a Modern Cross-Platform App - Brent Edwards
12:15 PM	1:30 PM	Lunch on the Lanai
1:30 PM	2:45 PM	MAH04 - DevOps And Modern Applications - Dan Nordquist
3:00 PM	4:15 PM	MAH05 - Analyzing Results with Power BI - Steve Hughes
4:30 PM	5:45 PM	LIVE! 360 CONFERENCE WRAP-UP - Andrew Brust (Moderator), Andrew Connell, Don Jones, Rockford Lhotka, Matthew McDermott, Brian Randell, & Greg Shields

START TIME	END TIME	Modern Apps Live! Post-Conference Workshop: Friday, November 20
8:00 AM	5:00 PM	MAF01 - Workshop: Modern App Development In-Depth—iOS, Android, Windows, and Web - Brent Edwards, Anthony Handley, & Allen Conway

Sessions and speakers subject to change.

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MODERN APPS LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

Modern Apps Live!

Modern app development brings a 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 consists of sessions that provide you with 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: Modern App Technology Overview—Android, iOS, Cloud, and Mobile Web

Introductory

NICK LANDRY, KEVIN FORD, & STEVE HUGHES
Monday, November 16, 8:00am – 5:00pm

If you haven't built apps for iOS (iPhone, iPad) or Android with Xamarin, Microsoft Azure, TypeScript, or AngularJS, this workshop is for you. This workshop is designed as a crash course for beginners who want to understand the basics of these technologies. We highly recommend it for Modern Apps Live! attendees because the content in the later conference sessions assumes you have at least some understanding of the technologies presented in this session. When you leave, you'll have an understanding of the development options and core techniques for each platform so you'll be ready to build compelling modern apps.

■ MAT01 Defining Modern App Development

Intermediate

ROCKFORD LHOTKA

Tuesday, November 17, 9:30 – 10:45am

We've entered the era of "modern apps," 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 this must be transparently supported by a cloud-based infrastructure (public or private) so the app has their data and settings everywhere they go. In this session, you'll see how and why Modern Apps are so important to you and your users, and you'll understand the high level process for designing and building this type of app.

■ MAT02 Modern App Architecture

Intermediate

BRENT EDWARDS

Tuesday, November 17, 11:00am – 12:15pm

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

■ MAT03 ALM with Visual Studio Online (TFS) and Git

Intermediate

BRIAN RANDELL

Tuesday, November 17, 2:00 – 3:15pm

This session gets you started on the right foot by walking through the process of setting up a project in Visual Studio Online (TFS), including using source control (TFS or git), staffing, reporting and gathering requirements. You'll also learn how to establish effective Visual Studio solutions and project organization to support a robust enterprise application architecture. Leaving this session, you'll not only be able to set up your own TFS and Visual Studio projects, but you'll understand how to use Visual Studio Online to gather and manage requirements and the overall project lifecycle.

■ MAT04 Reusing Logic Across Platforms

Intermediate

KEVIN FORD

Tuesday, November 17, 4:15 – 5:30pm

Enterprise applications span multiple platforms. Now there's an opportunity to write them all in .NET using Microsoft and Xamarin tools. There is an increased benefit in sharing code and logic for these different platforms. This session will examine how code linking, universal shared projects and PCLs can help write logic once and run on different platforms like Windows Store Applications, Xamarin iOS, Xamarin Android and Windows Phone. We'll also look at how MVVM frameworks like MVVM Cross can help use the same logic for the platforms you target.

MODERN APPS LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

■ MAW01 Coding for Quality and Maintainability

Intermediate

JASON BOCK

Wednesday, November 18, 9:15 – 10:30am

Cost-effective enterprise software development requires an entire team 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'll learn how to implement effective strategies using unit testing and code analysis 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. You owe it to yourself and your organization to get started, or to continually improve your existing process.

■ MAW02 Start Thinking Like a Designer

Intermediate

ANTHONY HANDLEY

Wednesday, November 18, 11:00am – 12:15pm

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 have set a higher bar in terms of productivity, aesthetics, platform integration and usability by putting designer/developer collaboration at the forefront of the development process. But what if you don't have a dedicated user experience designer? In this session, you'll learn some new ways of thinking that will help you step in the shoes of the designer and start to reimagine your own approach to modern application development.

■ MAW03 Applied UX: iOS, Android, Windows

Intermediate

ANTHONY HANDLEY

Wednesday, November 18, 1:45-3:00pm

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 and UI conventions? When does brand consistency across multiple platforms matter more? In this session, you'll learn how and when 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.

■ MAW04 Leveraging Azure Services

Intermediate

KEVIN FORD

Wednesday, November 18, 4:00-5:15pm

Microsoft Azure provides powerful support for modern app development, covering the needs of mobile and enterprise development efforts. In this session, you'll learn how to take advantage of several Azure services, bringing them all together to support a modern app that includes mobile, web, and BI features. The features discussed include blob storage, SQL Server, Mobile Services and Web Sites.

■ MAH01 Building for the Modern Web with JavaScript Applications

Intermediate

ALLEN CONWAY

Thursday, November 19, 8:00 – 9:15am

Modern Web Applications built with HTML5 and JavaScript frameworks are increasingly popular both

for their light weight and performance. These Web apps built with responsive features run in a modern browser and provide a rich smart client experience that is generally consistent across different browsers and platforms. In this session, you'll learn about Modern Web Applications using a JavaScript framework as an implantation choice, their viability, advantages/disadvantages and comparison to traditional ASP.NET Web applications. With a deep supporting cast of available technologies on both the client and server side to support building a JavaScript Web application, there's no shortage of choices. You'll see some of the popular technologies used in building a Modern Web application including AngularJS and JS/TypeScript for the front end, with a combination of WebAPI, Azure Web sites, and Azure Mobile Services on the backend.

■ MAH02 Building a Modern App with Xamarin

Intermediate

NICK LANDRY

Thursday, November 19, 9:30 – 10:45am

Android is a popular development target for modern apps, providing usability on phones and tablets. Xamarin is a powerful toolset that allows developers to write native Android (and iOS) apps using C#. The one area where Android is unique is in the UI design and implementation. Even there, Xamarin lets you write the code controlling the UI in C#. In this session, you'll learn how to build an Android client app that uses the same business logic as a WinRT (Windows 10 or Windows Phone 10) client app, as well as leveraging the same back-end services as the Windows, iOS and JavaScript clients.

MODERN APPS LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

■ MAH03 Building a Modern Cross-Platform App

Intermediate

BRENT EDWARDS

Thursday, November 19, 11:00am – 12:15pm

Building a cross-platform app requires research and planning. Writing native code for each platform isn't always feasible. Thankfully, there are cross-platform solutions out there to help ease the pain. This session will look at what it takes to build a Windows Store, Windows Phone, iOS and Android app using Xamarin. Forms, MvvmCross, C# and XAML. We'll look at how to approach the development effort with the goal of maximizing code re-use as well as techniques to handle platform-specific differences.

■ MAH04 DevOps and Modern Applications

Intermediate

DAN NORDQUIST

Thursday, November 19, 1:30 – 2:45pm

The term "DevOps" refers to the growing overlap between software developers' and IT experts' responsibilities. This session explores that overlap, demonstrating tools like TFS, Chef, Puppet and Docker to handle continuous integration, automated deployment and scripted environments. Attendees will leave with a working understanding of tools frequently used in DevOps, and be prepared to apply these concepts to their own applications, whether deployed on-premises or in the cloud.

■ MAH05 Analyzing Results with Power BI

Intermediate

STEVE HUGHES

Thursday, November 19, 3:00 – 4:15pm

In today's world, users increasingly expect data collected by their apps to be available for analysis in rich and flexible ways using SQL Server 2012, SharePoint and Excel 2013 (via PowerPivot and PowerView). In this whirlwind session, you'll learn the basic thinking behind design and implementation of a data mart or data warehouse, and how to establish a data analysis model. You'll also see how PowerPivot and PowerView work to enable flexible access and enterprise data analysis.

■ MAF01 Workshop: Modern App Development In-Depth—iOS, Android, Windows, and Web

Intermediate

BRENT EDWARDS, ANTHONY HANDLEY, & ALLEN CONWAY

Friday, November 20, 8:00am – 5:00pm

The Modern Apps Live! conference content is primarily focused 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're used to implement the MyVote demo app used in the conference. This is a no-holds barred deep dive into the design and implementation of modern apps, from the app server to the mobile services to each client app technology. You'll learn about modern

Web development using a JavaScript application and get a deeper look into their supporting client and server technologies including AngularJS, TypeScript, SignalR, Azure Web sites and Azure Mobile Services. You'll learn about Windows development and Xamarin.Forms for iOS and Android development. Through it all you'll learn about user experience and how important design is to successful modern apps.

"HIGHLIGHTS OF DEVELOPMENT TECHNOLOGY TRICK AND TOOLS ARE GREAT. EVERYTHING CONTINUES TO CHANGE AND THIS IS A NICE, CONDENSED WAY TO CATCH UP WITH WHAT IS CURRENT AND NEW."

- Jennifer Holloway, UVa Arts and Sciences

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Conference Chairs:



Rockford Lhotka

*Modern Apps Live! Conference Co-Chair
CTO, Magenic*



Jason Bock

*Modern Apps Live! Conference Co-Chair
Principal Consultant, Magenic*

"MODERN APPS LIVE!" WAS A PLEASANT SURPRISE. DESPITE THE FACT THAT MY PRIMARY CONFERENCE WAS VISUAL STUDIO, I'VE SPENT ABOUT HALF OF MY TIME IN THE "MODERN APPS LIVE!" ROOM.

- Marcelo Oliveira, NOVE

MODERN APPS LIVE! CONFERENCE SPEAKERS



Jason Bock

*Modern Apps Live! Conference Co-Chair
Principal Consultant, Magenic*



Allen Conway

Senior Consultant, Magenic



Brent Edwards

Associate Principal Consultant, Magenic



Kevin Ford

Mobile Practice Lead, Magenic



Anthony Handley

UX Practice Lead, Magenic



Steve Hughes

Intelligence Architect, Pragmatic Works



Rockford Lhotka

*Modern Apps Live! Conference Co-Chair
CTO, Magenic*



Nick Landry

Senior Technical Evangelist, Microsoft



Dan Nordquist

Architect, Magenic



Brian Randell

Senior Consultant, MCW Technologies

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Central Ohio Cloud Computing User Group

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Chicago DNN Users Group

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