HANDS-ON LABS
Join us for full-day, pre-conference hands-on labs Sunday, November 13.

STAY CONNECTED WITH LIVE! 360 ON OUR SOCIAL NETWORKS
- twitter.com/live360 #live360
- facebook.com Search “Live 360”
- instagram.com @live360_events
- linkedin.com Join the “Live! 360” group!
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WHAT IS LIVE! 360?

**The Ultimate Education Destination**

5 Great Events, 1 Low Price!

Live! 360 brings the IT, Developer, and Data communities together for real-world, practical information and training on a wide range of Microsoft products, technologies, and solutions. Plus, Live! 360 brings 5 co-located conferences together, featuring expert education, training, knowledge transfer and networking, enabling you to create your own custom conference choosing from over one hundred sessions and 16 hands-on labs and in-depth workshops to best suit your needs.

Whether you are a developer, IT Pro, DBA, or a Data Scientist, on a large team or a team of 2, Live! 360 is crafted for (almost) every IT title, experience level, and team size!

Choose the ultimate education destination: Live! 360.

**Attendees of any of the Live! events will have unlimited access to all five co-located conferences – mix and match sessions to create a custom conference!**

---

**Visual Studio Live!**

Visual Studio Live! features unbiased and practical development training on the Microsoft Platform. Soak in the knowledge on everything from Visual Studio and the .NET framework, to ASP.NET, Core, .NET 6, JavaScript, GitHub, Database Analytics, C#, MAUI, Azure, and so much more.

**SQL Server Live!**

At SQL Server Live!, we want to help DBAs, analytics experts, systems administrators, and developers like you do more with your SQL Server and Microsoft/Azure Data Platform investments. We want to help you improve performance, get insights from your data, step up security, and take advantage of new features across the platform.

**TechMentor**

TechMentor offers in-depth training for IT Pros, giving you the perfect balance of the tools you need today, while preparing you for tomorrow. With zero marketing speak, a strong emphasis on doing more with the technology you already own, and solid coverage of what’s just around the corner, you’ll get the technical training you need for deploying, managing, and supporting Microsoft products and technologies.

**Artificial Intelligence Live!**

Artificial Intelligence Live! is an innovative conference for current and aspiring developers, data scientists, and data engineers covering artificial intelligence (AI), machine learning, data science, Big Data analytics, IoT, bots, and more from Microsoft and others. You can expect real-world training on the languages, libraries, APIs, tools and cloud services you need to implement real AI and machine learning solutions, today and into the future.

**Cloud & Containers Live!**

Cloud & Containers Live! has the content you need to understand and leverage Kubernetes, Docker, Azure, AWS, and other cloud-native technologies. Whether you are looking for IT infrastructure, software development, or DevOps information, this conference is for you.
Top Reasons

REASONS TO ATTEND LIVE! 360 2022

FULL DAY HANDS-ON TRAINING!
Sunday Pre-Conference Full-Day Hands-On Labs are back this year to add another full day of learning with seven options to choose from. Bring your laptop and learn by doing. (Additional fees apply, see pricing page for details).

CONTENT FOR (ALMOST) EVERY IT TITLE! Live! 360 is proud to bring together these five co-located conferences to offer Hands-On Labs, Workshops, Keynotes, Panel Discussions and sessions for almost every IT title.

MAKE THE CONFERENCE YOUR OWN.
Mix and match sessions and workshops from any of the five events to best serve your needs. Because of the convenient co-location, there will be even more opportunities to access 165+ sessions, 75+ speakers, and a robust exhibit floor — all enhancing your event experience.

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

IT’S CALLED LIVE! 360 FOR A REASON. Not only do we cover a full circle of technologies, but we feature both unbiased industry experts and Microsoft insiders, so you’ll hear every side of the story on the most recent software and industry updates.

CHOOSE YOUR SESSIONS BY JOB ROLE. These forward-thinking and educational events are geared toward the following job titles and roles: Developers, IT Pros, IT Leadership, DBAs, Data Professionals, DevOps, or Agile. Whether you are a developer who uses Visual Studio or a team lead in charge of implementing Agile, or an IT Pro who is looking to improve your technical skills or just getting into Azure Data, or a SQL Server DBA looking to maintain, tune and consolidate, the agendas are crafted for (almost) every IT title.

5 GREAT CONFERENCES; 1 LOW PRICE! Attend any one of the Live! 360 events and you’ll have unlimited access to all five events — and it’s all included in one low price!

THE ULTIMATE EDUCATION DESTINATION. Located at the beautiful (and attendee favorite) Royal Pacific Resort at Universal Orlando, the setting and time of year are perfect for bringing the family along to enjoy all that Orlando has to offer.
THE FUN STUFF: LIVE! 360 ORLANDO EVENTS & ACTIVITIES

YOUR ATTENDANCE AT LIVE! 360 is about learning from your peers as well as the experts; make the most of your time with us and add these events and activities to your itinerary!

MIX & MINGLE @ LIVE360
Monday, November 14, 6:30 – 8:00pm
Hard Rock Cafe at Universal CityWalk

This is your opportunity to meet fellow attendees and start friendships that can last for the week or even longer. Join us on the outdoor upstairs Patio at the Hard Rock Café Citywalk to mix and mingle with other conference attendees and speakers for a casual no-host mixer. Enjoy light appetizers provided by Live! 360 while you get to know your fellow attendees and take in the exciting CityWalk views. Everyone is responsible for their own beverages.

LIVE! 360 DESSERT LUAU
Wednesday, November 16, 7:30 – 9:00pm

Come celebrate the South Pacific with delectable desserts, drinks and fabulous entertainment! Mingle with fellow attendees and speakers while enjoying the warm Florida winter weather. Settle down under the stars to enjoy a delicious dessert, cocktails, and an authentic Polynesian performance including dancers and fire throwers. Don’t forget to try the specialty Live! 360 cocktail or your favorite Island libation. Families are welcome to join the fun.

EXHIBITOR WELCOME RECEPTION & TRIVIA TUESDAY
Tuesday, November 15, 5:30 – 7:00pm
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.

WEDNESDAY TABLE TOPIC LUNCH
Wednesday, November 16, 12:30 – 1:30pm

Join other attendees at lunch to share ideas, talk about the issues of the day, and maybe solve a few. While you enjoy lunch, you can find and connect with other like-minded people at tables designated for certain languages, technologies, and interests.
LIVE! 360 KEYNOTES & EVENTS

GET THE LOWDOWN ON CURRENT MICROSOFT STRATEGY, keep up with where technology is going, and hear different viewpoints on hot topics. Strengthen your career and sharpen your mind with awesome “insider” keynotes, and panel discussions.

LIVE! 360 TUESDAY KEYNOTE:
Code to Cloud in Minutes
Tuesday, November 15, 11:00am – 12:00pm

Shayne Boyer
Principal Program Manager,
Developer Experiences Team, Microsoft

Deciding what services to use, getting them configured, provisioned, secured and deploying your code can be a long journey of decisions and cognitive load. Join me to see the tools and ideas Microsoft is working on to make getting started and successful in a few minutes.

LIVE! 360 WEDNESDAY KEYNOTE:
Leadership Is a Journey
Wednesday, November 16, 11:30am – 12:30pm

Philip Japikse
Developer, Coach, Author, Teacher

Leaders aren’t born, they aren’t hatched, and they don’t apparate. Leadership is a journey, one that involves hard work, practice, and a deep understanding of not only your team members but also yourself. Phil has led teams large and small throughout his 30 year career, and certainly made plenty of mistakes on the way, but he’s learned to fail fast, iterate, and continuously improve to create high performing teams across multiple verticals. In this keynote session, Phil will share what he has learned over the years being a leader and being led.

THURSDAY NETWORKING EVENT:
Next? Live! 360 Networking Event
Thursday November 17, 4:00 – 5:00pm

After a week of intense learning, what’s next for you and your current projects? Part Q&A with speakers and conference chairs and part peer exchange, you can use this time to network with your fellow Live! 360 attendees and select speakers to discuss the best ways to move your projects to the next level.

Bill Ayers
Consultant Developer / Solution Architect

Bradley Ball
Premier Sr. Consultant, Premier Support for Developers, Microsoft

Prashant G Bhoyer
Senior Solution Architect,
WithumSmith+Brown

Eric D. Boyd
Founder and CEO, responsiveX

Andrew Brust
CEO and Founder, Blue Badge Insights

Priscilla Camp
Date Warehouse Systems Manager,
University of Central Florida

Benjamin Day
Author, Trainer, Developer

Colin Dembskovskiy
Cloud Solution Architect, 10th Magnitude

Angela Dugan
Delivery Director, 3Cloud Solutions

Allan Hirt
Founder and Managing Partner,
SQLHA, LLC

Veronika Kolesnikova
Web Developer, Rightpoint

Sami Laiho
Chief Research Officer, Truesec

Thomas LaRock
Head Geek, SolarWinds

Rockford Lhotka
Chief Software Architect, Mariner LLC

Karen Lopez
Data Evangelist, Space Enthusiast,
& NASA Datanaut

Ted Neward
Co-founder, Solidify/US

Jörgen Nilssen
Principal Consultant,
Onevinn - Ccmexec.com

Ronni Pedersen
Enterprise Mobility, APENTO

Nestori Syy nimaa
Senior Principal Security Researcher,
Secureworks

Geert van der Cruijsen
Cloud Native Architect, Xpirit
CONFERENCE KEYNOTES

VISUAL STUDIO LIVE! KEYNOTE
Modern Application Development with .NET and Azure
Tuesday, November 15, 8:00am - 9:00am

James Montemagno
Principal Lead Program Manager for .NET Community, Microsoft

.NET 7 is the newest version of .NET, a modern, open-source development platform for building apps for any OS with the best performance and productivity. .NET is a unified platform and .NET 7 adds new capabilities for building web, native and hybrid apps for Android, iOS, Linux, MacOS, Windows. This session will show how to build modern Microservice backends hosted on Linux in Azure Container Apps and rich client applications in Blazor and Blazor Hybrid that consume these Microservices. We will cover the latest enhancements to C#, native client development with .NET, the latest in advanced developer tools, and so much more.

SQL SERVER LIVE! & ARTIFICIAL INTELLIGENCE LIVE! KEYNOTE
Accessibility - From Data to AI
Tuesday, November 15, 8:00am - 9:00am

Henk Boelman
Cloud Advocate, Azure Data Services Team, Microsoft

Buck Woody
Applied Data Scientist, Azure Data Services Team, Microsoft

Join Buck Woody, Principal Data Scientist, and Henk Boelman from the Azure Cloud team as they show you the power and flexibility you have with the Intelligent Data Platform and Azure Machine Learning. You’ll see a practical, real-world implementation of Data Engineering and Governance, and working with a Data Lake to create a Vision AI solution with full application insights – all in an hour! You don’t want to miss this exciting Keynote.
CONFERENCE KEYNOTES (continued)

TECHMENTOR KEYNOTE
What’s Next For Microsoft Teams
Tuesday, November 15, 8:00am - 9:00am

Join Microsoft Teams IT Pro Product Lead Stephen Rose for a deep dive session into the new and upcoming features in Microsoft Teams including a look at the new Security, Privacy, Governance and Management features.

You will learn:
- Understand the newest feature in Microsoft Teams
- Live Q&A with a Teams customer
- Opportunity for product feedback from the audience

Stephen Rose
Sr. Product Manager,
Microsoft Teams,
Microsoft

CLOUD & CONTAINERS LIVE! KEYNOTE
Journey to Cloud Native
Tuesday, November 15, 8:00am - 9:00am

Cloud native computing promises infinite scale, resiliency and agility to teams building apps in the cloud. In this keynote we’ll look at the characteristics of a well architected cloud native app and process, and outline some battle tested strategies to achieve this whether you’re born in the cloud or just starting the journey more incrementally with your existing on prem code. You can also expect to see how life is better and more productive through a combination of leveraging containers, Azure, and the latest tools and frameworks.

Paul Yuknewicz
Principal Group Product Manager, Microsoft
PANEL DISCUSSIONS

GET THE FULL 360 DEGREE PERSPECTIVE and hear different viewpoints on hot topics. Strengthen your career and sharpen your mind with these expert panel discussions.

VISUAL STUDIO LIVE! PANEL DISCUSSION:
Navigating the Great Resignation
Thursday, November 17, 11:00am - 12:00pm

Angela Dugan (moderator)
Delivery Director, 3Cloud Solutions

Jeremy Clark
Developer Educator, JeremyBytes.com

Benjamin Day
Author, Trainer, Developer

Ian Griffiths
Technical Fellow, endjin

Veronika Kolesnikova
Web Developer, Rightpoint

The “Great Resignation” first hit the news back in May 2021, and describes the trend that impacted a number of large, industrialized companies where record numbers of employees were resigning from their full-time jobs. As the world recovers in the post-COVID world and redefines “normal”, astounding numbers of people are now finding career opportunities in places that they’d never considered previously. As knowledge workers like us rethink job satisfaction, personal values, and the future of our careers, a whole new set of challenges arise.

Topics will include:
- As a knowledge worker, what new and different benefits, compensation, and flexibility should I ask for at review time?
- As an employer, how do I balance an ever growing list of challenges in how I support my on-site, remote, and hybrid employees?
- As a hiring manager or recruiter, how do I ask the right questions to set everyone up for success, and reduce the chances of attrition?

SQL SERVER LIVE! PANEL DISCUSSION:
Azure Cloud Migration Discussion Panel
Thursday, November 17, 11:00am - 12:00pm

Thomas LaRock (moderator)
Head Geek, SolarWinds

Karen Lopez
Data Evangelist, Space Enthusiast, & NASA Datanaut

Buck Woody
Applied Data Scientist, Azure Data Services Team, Microsoft

Ginger Grant
Principal Data Geek, Desert Isle Group

Bradley Ball
Premier Sr. Consultant, Premier Support for Developers, Microsoft

The “lift-and-shift” methodology for cloud migration has proved disastrous for many systems and workloads. This is often due to cloud architecture complexity as each cloud comes with a myriad of differing configuration options. Attend this panel discussion and learn from cloud migration experts on the right way to get the job done.
TECHMENTOR PANEL DISCUSSION:
Defending Your Environment in 2022
Thursday, November 17, 11:00am - 12:00pm

Dave Kawula (moderator)
Principal Consultant, TriCon Elite Consulting
Sami Laiho (moderator)
Chief Research Officer, Truesec
Derek Melber
Chief Technology and Security Strategist
John O’Neill, Sr.
Chief Technologist, AWS Solutions
Nestori Syynimaa
Senior Principal Security Researcher, Secureworks
Rod Trent
Senior Cloud Security Advocate, Microsoft

With cyber threats being top of mind for every organization, our esteemed panel of experts will discuss topics like Identity Protection, Infrastructure Protection, and Cloud Protection. Come ready with your questions, as we will also be doing live audience questions. TechMentor Conference Chairs Sami Laiho and Dave Kawula will moderate this panel.

ARTIFICIAL INTELLIGENCE LIVE! PANEL DISCUSSION:
Responsible AI: Is There Such a Thing?
Thursday, November 17, 11:00am - 12:00pm

Brian Randell (moderator)
Product Marketing Director, GitHub
Prashant G Bhoyar
Senior Solution Architect, WithumSmith+Brown
Priscilla Camp
Date Warehouse Systems Manager, University of Central Florida
Andreas Erben
CEO Americas and CTO, daenet and Industrial Holographics

As AI becomes a part of our daily lives, we as professionals need to think hard about the decisions we make to enable “smart features” in our applications. Companies like Microsoft talk about “responsible AI”. While other companies make the news for questionable use of AI to harvest information about individuals and companies. What do you think? Is there such a thing as responsible AI. Come to this panel discussion and hear from the experts and share your thoughts on the subject.
CLOUD & CONTAINERS LIVE! PANEL DISCUSSION:

Cloud is Mainstream, What’s Next?
Thursday, November 17, 11:00am - 12:00pm

“The Cloud”, as with any massive change to computing, has taken well over a decade to mature and become mainstream. We are now at the point where nearly any server-side code or services run in some form of cloud, or organizations at least are planning how to move to a cloud-based platform in the future.

The impact of this is still being felt, especially in the IT Pro space, with the Ops part of DevOps increasingly becoming automated and code-driven, and the ancient art of data center planning becoming a thing of the past. Does the future of the IT world still have room for Linux or Windows admins? Wires and pliers? Or is it all Terraform, Ansible, PowerShell, and bash? Are on-premises databases still a thing? Should they be? Why? Should organizations manage their own identity, or delegate that to cloud providers?

On the app dev side, are our languages and libraries sufficient to support truly cloud-native architectures and environments? Java and C# are powerful, but can they compete with Go or Rust? Are containers still relevant when WebAssembly with WASI is maturing rapidly? What happens to languages that can’t efficiently run in containers? Or in rustlet-style WebAssembly hosting?

And what about cloud fabrics themselves; is Kubernetes the endgame, or just a step on the road? Is there room for another open-source orchestrator, or would organizations prefer to tie themselves to vendor-specific fabrics in AWS, Azure, GCP, etc?

These, and other topics you bring to this panel, will be discussed by our panel of industry experts.
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<tr>
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<th>Event Description</th>
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<tr>
<td>7:30 AM</td>
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<tr>
<td>8:00 AM</td>
<td>Lunch • Visit the EXPO Lounge</td>
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<tr>
<td>8:00 AM - 9:15 AM</td>
<td>DevOps and Beyond Database Development Developing</td>
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<td>9:15 AM - 10:30 AM</td>
<td>Cross Platform Development</td>
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<td>10:30 AM - 11:45 AM</td>
<td>Hands-On Lab: Develop an ASP.NET Core Basics</td>
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<td>11:45 AM - 1:00 PM</td>
<td>Fast Focus: A Real-time SignalR Core Chat</td>
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<td>High Performance JSON</td>
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<td>Conquering Columnstore Indexes</td>
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<td>4:45 PM - 6:00 PM</td>
<td>Workshop: Secure, Cloud Applications</td>
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<td>6:00 PM - 7:15 PM</td>
<td>Networking Break • Visit the EXPO Lounge</td>
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<td>7:15 PM - 8:30 PM</td>
<td>Up Your Windows 365 Game with Microsoft Graph and PowerShell</td>
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<td>8:30 PM - 9:45 PM</td>
<td>Call Web APIs Like a Pro in Power Query</td>
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<td>9:45 PM - 11:00 PM</td>
<td>A Day in the Life of a BI on Big Data for Real</td>
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<td>11:00 PM - 12:15 AM</td>
<td>Deep Dive with MAUI</td>
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<td>12:15 AM - 1:30 AM</td>
<td>Workshop: Modern Management - Windows Autopilot and Intune</td>
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<td>1:30 AM - 2:45 AM</td>
<td>Windows 11 - How to Get There!</td>
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<td>2:45 AM - 4:00 AM</td>
<td>ARTIFICIAL INTELLIGENCE LIVE! PANEL DISCUSSION: Responsible AI: Is There Such a Thing? Nick O’Leary (moderator), Bill Ayers, Bradley Ball, Prashant G Bhoyar, Priscilla Camp, &amp; Andreas Erben</td>
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<td>A Tour of Go for the C# Developer</td>
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# AGENDA-AT-A-GLANCE

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<th>The Core of .NET</th>
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<td>9:00 AM</td>
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<td>VSHOL01 Hands-On Lab: Develop an ASP.NET Core App with EF Core in a Day - Philip Japikse</td>
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<td>9:00 AM</td>
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<td>VSHOLO2 Hands-On Lab: Secure and Compliant Cloud Delivery Embracing DevOps - Marcel de Vries &amp; Geert van der Cruyssen</td>
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<td>VSHOL03 Hands-On Lab: Asynchronous and Parallel Programming in C# - Jeremy Clark</td>
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<td><strong>Visual Studio Live! Pre-Conference Workshops: Monday, November 14, 2022</strong></td>
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<td>VSM01 Workshop: Building Cross-Platform Mobile &amp; Desktop Apps with .NET MAUI - James Montemagno</td>
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<td>9:00 AM</td>
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<td>VSM02 Workshop: The Human Side of Agile and DevOps - Benjamin Day</td>
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<td>9:00 AM</td>
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<td>VSM03 Workshop: Secure, Cloud Applications with Azure and GitHub - Brian Randell and Mickey Gousset</td>
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<td>2:00 PM</td>
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<td>Mix &amp; Mingle @ Live! 360 @ Hard Rock Café Universal CityWalk - 7:00pm</td>
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<td><strong>Visual Studio Live! Day 1: Tuesday, November 15, 2022</strong></td>
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<td>VISUAL STUDIO LIVE! &amp; CLOUD &amp; CONTAINERS LIVE! KEYNOTE: To Be Announced</td>
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<td>9:15 AM</td>
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<td>VST01 Websites with ASP.NET Core Razor Pages - Philip Japikse</td>
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<td>9:15 AM</td>
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<td>VST02 .NET MAUI: Next Generation Multi-platform App Development - James Montemagno</td>
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<td>9:15 AM</td>
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<td>VST03 Introduction to Azure Cosmos DB - Leonard Lobei</td>
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<td>VST04 Visual Studio 2022 for Mac - Fast, Fluid, and Modern - Jordan Matthiesen</td>
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<td>Networking Break • Visit the EXPO Lounge - Pacifica 7</td>
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<td>LIV360 KEYNOTE: Code to Cloud in Minutes - Shayne Boyer, Principal Program Manager, Developer Experiences team, Microsoft</td>
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<td>Lunch • Visit the EXPO Lounge - Pacifica 7 &amp; Promenade Deck</td>
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<td>12:45 PM</td>
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<td>Dessert Break • Visit the EXPO Lounge - Pacifica 7</td>
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<td>1:30 PM</td>
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<td>VST05 Fast Focus: Hybrid Web Frameworks - Allen Conway</td>
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<td>1:30 PM</td>
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<td>VST06 Fast Focus: Reactor - High Volume Event Processing with Rx’s Big Brother - Ian Griffiths</td>
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<td>VST07 Fast Focus: Codespaces - Mickey Gousset</td>
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<td>VST08 Fast Focus: A Real-time SignalR Core Chat - Jim Wooley</td>
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<td>VST09 Fast Focus: Supercharged Feedback Techniques in 20 Minutes - Angela Dugan</td>
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<td>2:00 PM</td>
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<td>VST10 Fast Focus: Getting .NET Interactive Notebooks - Jason Bock</td>
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Sessions and speakers subject to change.
### AGENDA-AT-A-GLANCE (continued)

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<tr>
<th>DevOps and Beyond</th>
<th>Database Development</th>
<th>Developing New Experiences</th>
<th>Technical Excellence and Leadership Skills</th>
<th>The Core of .NET</th>
<th>Full Stack Web Development</th>
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<tr>
<td><strong>START TIME</strong></td>
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<td><strong>Visual Studio Live! Day 1: Tuesday, November 15, 2022 (Continued)</strong></td>
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<td>2:20 PM</td>
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<td>Networking Break • Visit the EXPO Lounge - Pacifica 7</td>
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<tr>
<td>2:45 PM</td>
<td>4:00 PM</td>
<td><strong>VST11</strong> Go Hybrid Across Web, Desktop, &amp; Mobile with Blazor Hybrid - James Montemagno</td>
<td><strong>VST12</strong> Meaningful Engagement with a Hybrid Workforce - Sara Fooetz</td>
<td><strong>VST13</strong> Build .NET Apps More Quickly with GitHub CodeSpaces - Brian Randell</td>
<td><strong>VST14</strong> C# Past, Present, and Beyond - Jim Wooley</td>
</tr>
<tr>
<td>4:15 PM</td>
<td>5:30 PM</td>
<td><strong>VST15</strong> Building a Progressive Web App (PWA) Using Angular - Allen Conway</td>
<td><strong>VST16</strong> Bounce, the Art of Resiliency - Sara Fooetz</td>
<td><strong>VST17</strong> Data Modeling and Partitioning Patterns in Azure Cosmos DB - Leonard Label</td>
<td><strong>VST18</strong> What's New in .NET 7 APIs - Jason Bock</td>
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<tr>
<td>5:30 PM</td>
<td>7:00 PM</td>
<td>Exhibitor Welcome Reception - Pacifica 7</td>
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<td><strong>START TIME</strong></td>
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<td><strong>Visual Studio Live! Day 2: Wednesday, November 16, 2022</strong></td>
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<td>7:30 AM</td>
<td>8:00 AM</td>
<td>Registration • Coffee and Morning Pastries</td>
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<td>8:00 AM</td>
<td>9:15 AM</td>
<td><strong>VSW01</strong> Versioning ASP.NET Core APIs - Philip Japikse</td>
<td><strong>VSW02</strong> Deep Dive with MAUI - Sam Basu</td>
<td><strong>VSW03</strong> Analyzing Code in .NET - Jason Bock</td>
<td><strong>VSW04</strong> To Be Announced</td>
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<td>9:30 AM</td>
<td>10:45 AM</td>
<td><strong>VSW05</strong> TypeScript: Moving Beyond the Basics - Allen Conway</td>
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<td>Networking Break • Visit the EXPO Lounge - Pacifica 7</td>
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<td>11:30 AM</td>
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<td><strong>LIVE! 360 KEYNOTE: Leadership Is a Journey</strong> - Pacifica 6 Philip Japikse, Developer, Coach, Author, Teacher</td>
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<td>12:30 PM</td>
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<td>Table Topics Lunch</td>
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<td>1:30 PM</td>
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<td>Dessert Break • Visit the EXPO Lounge - Pacifica 7</td>
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<td>2:00 PM</td>
<td>3:15 PM</td>
<td><strong>VSW08</strong> High Performance JSON Serialization with Code Generation on C# 10 and .NET 6.0 in Modern .NET Applications - Ian Griffiths</td>
<td><strong>VSW09</strong> Cross Platform Development with UNO - Tony Champion</td>
<td><strong>VSW10</strong> An Infrastructure as Code Bake-off, comparing ARM, Terraform and Bicep - Mike Benkovich</td>
<td><strong>VSW11</strong> Getting Started with Conversational AI Is Easier than You Think - Michael Crump</td>
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<td>3:15 PM</td>
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<td>Networking Break • Visit the EXPO Lounge • Expo Raffle @ 3:30 p.m. - Pacifica 7</td>
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<td>4:00 PM</td>
<td>5:15 PM</td>
<td><strong>VSW12</strong> Entity Framework Core for Enterprise Applications - Benjamin Day</td>
<td><strong>VSW13</strong> Busy Developer's Guide to Flutter - Ted Neward</td>
<td><strong>VSW14</strong> Roll with the Changes - Boosting Your Adaptability Quotient - Angela Dugan</td>
<td><strong>VSW15</strong> Secure and Compliant Cloud Delivery Embracing DevOps - Marcel de Vries</td>
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<td>7:30 PM</td>
<td>9:00 PM</td>
<td>Live! 360 Dessert Luau - Wantilan Pavilion</td>
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Sessions and speakers subject to change.
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<td><strong>Visual Studio Live! Day 3: Thursday, November 17, 2022</strong></td>
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<td>8:00 AM</td>
<td>9:15 AM</td>
<td><strong>VSTH01</strong> ASP.NET Core Minimal APIs and React: A Winning Team - Roland Guijt</td>
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<td>8:00 AM</td>
<td>9:15 AM</td>
<td><strong>VSTH02</strong> Is there ML.NET in MAUI? - Veronika Kolesnikova</td>
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<td>8:00 AM</td>
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<td><strong>VSTH03</strong> A Data Access Layer You're Proud of without Entity Framework - Jonathan &quot;J.&quot; Tower</td>
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<td>8:00 AM</td>
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<td><strong>VSTH04</strong> Scaling AppSec Through Cultural Change and Developer Experience - Colin Dembovsky</td>
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<td>9:30 AM</td>
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<td><strong>VSTH05</strong> Cosmos DB: Performance and Consistency at Global Scale - Ian Griffiths</td>
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<td>9:30 AM</td>
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<td><strong>VSTH06</strong> Rebooting Your Agile Transformation using Empathy - Benjamin Day</td>
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<td><strong>VSTH07</strong> Building Intuitive Command-line Interfaces in .NET - Alex Thissen</td>
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<td>9:30 AM</td>
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<td><strong>VSTH08</strong> Continuous Delivery with Azure PaaS Services - Geert van der Cruijsen</td>
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<td>11:00 AM</td>
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<td><strong>VISUAL STUDIO LIVE! PANEL DISCUSSION: Navigating the Great Resignation</strong> Angela Dugan (moderator), Jeremy Clark, Benjamin Day, Ian Griffiths, &amp; Veronika Kolesnikova</td>
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<td><strong>VSTH09</strong> Deep Dive on Blazor: The Run Everywhere with .NET UI Framework - Rockford Lhotka</td>
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<td>1:00 PM</td>
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<td><strong>VSTH10</strong> Measuring Up! How To Choose Agile Metrics Your Team Won’t Hate - Angela Dugan</td>
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<td>1:00 PM</td>
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<td><strong>VSTH11</strong> A Tour of Go for the C# Developer - Jeremy Clark</td>
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<td><strong>VSTH12</strong> Security at the Speed of GitHub - Colin Dembovsky</td>
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<td>2:30 PM</td>
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<td><strong>VSTH13</strong> Better Architecture without Architects - Geert van der Crujsen</td>
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<td><strong>VSTH14</strong> Dotnet CLI or: How I Learned to Stop Worrying and Love the Command Line - Jonathan &quot;J.&quot; Tower</td>
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<td><strong>VSTH15</strong> Introduction to Unity3D - Enterprise Developer Skills Meet Game Dev Tools - Andreas Eber</td>
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<td>4:00 PM</td>
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<td><strong>Next! Live! 360 Networking Event - Pacifica 7</strong> Bill Ayers, Bradley Ball, Prashant G Bhoyar, Eric D. Boyd, Andrew Brust, Priscilla Camp, Benjamin Day, Colin Dembovsky, Angela Dugan, Alton Hirt, Veronika Kolesnikova, Sami Laino, Thomas LoRock, Rockford Lhotka, Karen Lopez, Ted Neward, Jörgen Nielsen, Ronni Pedersen, Nestor Syyminmaa, &amp; Geert van der Crujsen</td>
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### Visual Studio Live! Post-Conference Workshops: Friday, November 18, 2022

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<tr>
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<th><strong>Visual Studio Live! Post-Conference Workshops: Friday, November 18, 2022</strong></th>
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<td>8:00 AM</td>
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<td><strong>VSF01</strong> Workshop: Blazor: Blazing into the Future of Web Development - Roland Guijt</td>
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<td><strong>VSF02</strong> Workshop: Modern Data DevOps in the Azure Cloud - Ian Griffiths and Ed Freeman</td>
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Sessions and speakers subject to change.
VISUAL STUDIO LIVE! SESSION DESCRIPTIONS BY TRACK

FULL DAY HANDS-ON LABS
These instructor-led, pre-conference Hands-On Labs offer attendees intensive in-depth training before the conference officially begins. Take advantage of in-person instruction as well as collaboration with peers.

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

VSHOL01
Hands-On Lab: Develop an ASP.NET Core App with EF Core in a Day
Intermediate
PHILIP JAPIKSE
Sunday, November 13, 9:00am - 6:00pm
Interested in ASP.NET Core and Entity Framework Core, but not sure where to start? Start here with an all-day Hands on Lab where you will build a complete solution using the latest development technology from Microsoft. You will build a data access library using Entity Framework Core, complete with repos and migrations. Next, you will build an ASP.NET Core web application, leveraging all of the latest that ASP.NET Core has to offer, including Tag Helpers, View Components, Dependency Injection, and more!

You will learn:
• ASP.NET Core Web Applications (MVC)
• EF Core
• Build an application in a day!

Attendee Requirements:
You must provide your own laptop computer (Windows or Mac) for this hands-on lab.
All other laptop requirements will be provided to attendees 2 weeks prior to the conference.

VSHOL02
Hands-On Lab: Secure and Compliant Cloud Delivery Embracing DevOps
Intermediate
MARCEL DE VRIES
Sunday, November 13, 9:00am - 6:00pm
In this Hands-on Lab we will teach you how to use all the great features GitHub has to offer. We will start with an overview how to come from Idea to Code by using GitHub Discussions, Issues, Pages and Wiki. Next we will move the idea's code and start using the Git features. From here we dive in to the use of Branch Protection Rules, Code Owners, Actions for CI, CD and Deployments to the Azure Cloud. We will also have a look at how GitHub can help you in your Secure Development Lifecycle with Credential scanning, Package Vulnerability Scanning and Code Scanning to expose programming mistakes that might lead to vulnerabilities in the future. After this Hands-on workshop, you know what GitHub has to offer to you and your organization to implement Secure and Compliant DevOps with ease.

You will learn:
• How to use GitHub Actions
• Secure Deploy to the Azure Cloud using Actions
• Using Git Hub Advanced Security

Attendee Requirements:
You must provide your own laptop computer (Windows or Mac) for this hands-on lab as well as providing your GitHub handle to the speakers prior to the event.
All laptop requirements and instructions for providing your GitHub handle will be provided to attendees 2 weeks prior to the conference.

VSHOL03
Hands-On Lab: Asynchronous and Parallel Programming in C#
Intermediate
JEREMY CLARK
Sunday, November 13, 9:00am - 6:00pm
Asynchronous programming is a critical skill to take full advantage of today’s multi-core systems. But async programming brings its own set of issues. In this workshop, we’ll work through some of those issues and get comfortable using parts of the .NET Task Parallel Library (TPL).

We’ll start by calling asynchronous methods using the Task Asynchronous Pattern (TAP), including how to handle exceptions and cancellation. With this in hand, we’ll look at creating our own asynchronous methods and methods that use asynchronous libraries. Along the way, we’ll see how to avoid deadlocks, how to isolate our code for easier async, and why it’s important to stay away from “async void”.

In addition, we’ll look at some patterns for running code in parallel, including using Parallel.ForEachAsync, channels, and other techniques. We’ll see pros and cons so that we can use the right pattern for a particular problem.

Throughout the day, we’ll go hands-on with lab exercises to put these skills into practice.

Objectives:
• Use asynchronous methods with Task and await
• Create asynchronous methods and libraries
• How to avoid deadlocks and other pitfalls
• Understand different parallel programming techniques

Pre-Requisites:
Basic understanding of C# and object-oriented programming (classes, inheritance, methods, and properties). No prior experience with asynchronous programming is necessary; we’ll take care of that as we go.

Attendee Requirements:
You must provide your own laptop computer (Windows or Mac) for this hands-on lab.
All other laptop requirements will be provided to attendees 2 weeks prior to the conference.
**VISUAL STUDIO LIVE! SESSION DESCRIPTIONS BY TRACK (continued)**

### WORKSHOPS

Choose from a wide range of content and topics by expert presenters with Visual Studio Live! Orlando’s Pre- and Post-Conference full-day workshops.

**VSM01**
**Workshop: Building Cross-Platform Mobile & Desktop Apps with .NET MAUI**
*Intermediate / Advanced*

**JAMES MONTEMAGNO**
Monday, November 14, 8:30am - 5:00pm

Let’s learn how to build our very first cross-platform mobile and desktop app for iOS, Android, MacOS, and Windows with .NET MAUI! We will build out a new project, add data, navigation, and call web services.

You will learn:
- What is .NET MAUI and how can you use it to build apps
- Build your first .NET MAUI app and call backend services
- Add navigation, platform features, and more!

**VSM02**
**Workshop: The Human Side of Agile and DevOps**
*Intermediate / Advanced*

**BENJAMIN DAY**
Monday, November 14, 8:30am - 5:30pm

Software delivery would be so easy...if it weren’t for all the humans. The technical stuff is easy, but it’s all the pesky people that need convincing and explanations and reasons for why they should follow you down the Agile and DevOps road. And then, as a leader, how can you tell if your teams are having problems and what do you do about it? How do you know if your developers are even productive? In short, what do we all need to know about and why do we care?

In this workshop, we’ll connect the strategic, human-oriented reasoning to the tactical ‘nuts and bolts’ of a successful Agile and DevOps-oriented organization. We’ll discuss Agile, Scrum, and DevOps ideas but instead of focusing on any particular technology, we’ll focus on how to help the humans to be productive.

You will learn:
- How to find and fix bottlenecks using the Theory of Constraints
- How to optimize delivery by tracking Work in Progress, Flow, Cycle Time, and Lead Time
- Deciding when (and when not) to grow your team
- How to rework your culture to become conversation-driven instead of requirements-driven
- How to streamline multi-team delivery dependencies
- Communication strategies for teams, leaders, and stakeholders
- Why projects go ‘off the rails’ and how to recover

**VSM03**
**Workshop: DevSecOps in the Cloud with GitHub and Microsoft Azure**
*Intermediate / Advanced*

**BRIAN RANDELL AND MICKEY GOUSSET**
Monday, November 14, 8:30am - 5:30pm

Good DevOps needs to really be good DevSecOps. But how do you get started? To be clear, there’s no silver bullet. Doing things right requires a change in your company’s culture. A culture that embraces security and changes how solutions are delivered by “shifting left”. Changing to embrace agile practices and empower everyone to do the right thing.

GitHub cares about your code. They care about your apps. And they know building awesome apps means your apps are secure. But how to get started? In this workshop, Brian and Mickey will share their experience with you about the current state of art to build “cloud native solutions” using Azure PaaS where can apply DevSecOps principals and best practices using GitHub Enterprise Cloud and GitHub Codespaces.

While they will focus on .NET applications, they will cover general practices for all many different app types using other languages. You’ll learn from the beginning about GitHub security and the core workflow of getting code from a developer to a deployed environment in Microsoft Azure. You’ll start by learning about the different flavors and versions related to GitHub’s offerings both free and paid, with a focus on the cloud. You’ll learn critical aspects in getting an enterprise configured and running using GitHub including organizations, adding users, choosing directory authentication, teams, and more.

You will learn about defining your repo strategy, including public, private, and internal visibility. And of course, you’ll learn repo settings around security, branch protection, and more. They’ll dig into pull requests, best practices, and how to manage the notification madness for a busy GitHub user. They’ll also dig into GitHub’s various features around helping you produce better, more secure code early by looking at Dependabot, GitHub Secret scanning, and Code QL.

Beyond the code, you’ll learn about GitHub Projects to help you track work. Later, you’ll learn how to use GitHub Actions for CI/CD and GitHub workflow automation. In this workshop, you’ll get deep information on building and deploying modern “cloud native apps” using GitHub and Microsoft Azure. By the end of the workshop, you will be ready encourage your organization to do more to be secure by using modern DevSecOps practices.

You will learn:
- How to manage your team and work with GitHub
- How manage your code and assets with GitHub
- How to build and release with GitHub to Azure

**VSF01**
**Hands-On Workshop: Blazor: Blazing into the Future of Web Development**
*Introductory*

**ROLAND GIJT**
Friday, November 18, 8:00am - 5:00pm

You’re starting a long-term relationship with Blazor in this workshop. Throughout it you’ll build components for existing applications but not before you get a clear explanation of each step we take.

This workshop will cover the following:
- What is Blazor?
- The different hosting models
- Writing a basic component
- Understanding how a component is processed
- Data binding
- Handling and creating events
- Advanced component capabilities such as cascading values, attribute splatting and component references
- Creating highly reusable component templates
You will learn:
- Gain a thorough understanding of how Blazor works
- Learn how to structure a Blazor application effectively
- Blazor component building: beginner to advanced

Workshop: Modern Data DevOps in the Azure Cloud
Intermediate
IAN GRIFFITHS AND ED FREEMAN
Friday, November 18, 8:00am - 5:00pm
Modern data platforms deserve the love and attention that web applications get when it comes to modern DevOps approaches. Data platforms often lack the same rigor and formalization of DevOps processes, such as little to non-existent test coverage, inconsistent and sporadic development and collaboration techniques, and a less efficient or formalized feedback loop when addressing end-user issues or ensuring quality throughout all areas of the solution. And with the transition to the cloud, new practices are necessarily having to be adopted to keep delivering high-quality solutions. Applying these practices to modern data platforms is sometimes a struggle, so this session aims to demonstrate tried and tested strategies which will set you up for success with your next cloud data project.

We'll start the workshop by talking about modern cloud data services (and the myriad of options Azure offers in this space), introducing DevOps principles, and discussing the related considerations organizations need to make when embarking on a data project. Namely, we'll discuss the importance of developing with the shared responsibility mindset and working on value streams as a cross-functional team, and how many technical requirements can be layered on top of this core concept (such as testing/automated deployments/security frameworks).

We'll then look at how “traditional” data architectures look in the cloud, and the implications such architectures have on DevOps. Maybe your on-prem SQL Server is turning into an Azure SQL DB, or your Parallel Data Warehouse (PDW) is turning into a Synapse SQL Dedicated Pool. We'll demonstrate some candidate “traditional” data architectures implemented in the cloud, and discuss what changes on the DevOps front, such as how schema changes can be enabled in a non-disruptive way and how infrastructure as Code (IaC) changes the way solution components are deployed and managed.

In the third session we'll deep dive into modern data architectures, primarily focusing on Azure Synapse Analytics to drive the demos. We'll show the power of lake databases (AKA Lakehouses) as an alternative to traditional relational data warehouses. We'll show off services like SQL Serverless, Spark and Delta Lake alongside other advanced features, and their ability to form a logical data warehouse over data stored in Azure Data Lake Gen2. We'll look at how Synapse Studio enables cross-functional collaboration all under the same roof, including showing advanced development techniques, including how to use Docker and VS Code dev containers when developing Spark-based Synapse solutions.

The final session will focus on administration, governance, and other operational considerations for building efficient and high-quality modern data platforms. We'll discuss the importance of practices like monitoring and alerting, SRE and data governance and the various Azure products that can help with these. We'll also discuss security considerations across all elements of modern data platforms, including permissions and access management and networking configurations. Finally, and everyone's favorite, we'll discuss typical costs for a modern data platform and what can be done to manage and optimize these.

You will learn:
- How to embed and apply DevOps principles to a modern data platform
- Highlight differences between traditional vs modern data architectures in the cloud
- How to administer and govern modern data platforms to ensure efficient and quality solutions

DEVOPS AND BEYOND
In 2022, it’s become crystal clear that providing remote access and automation that is secure, easy to access, and readily available are critical to modern teams being successful. DevOps has been called the “second decade of Agile”. We’ve learned much about what it means to be agile and to “do DevOps”, and organizations that have thrived in times of uncertainty know that DevOps is the way that modern teams deliver value to their customers with both speed and high quality.

As part of an organizational transformation, DevOps starts with a focus on people and better processes and then, yes, great products are adopted to increase productivity and reduce friction. After participating in sessions in this track, you’ll walk away confident in your knowledge about the why, how, and what of modern DevOps. Our DevOps experts will leverage their knowledge and experiences to expose you to the latest tools, strategies, and leading practices.

You’ll find coverage of:
- Hands-On Lab: Secure and Compliant cloud delivery embracing DevOps
- Workshop: Secure, Cloud Applications with Azure and GitHub
- Build .NET Apps More Quickly with GitHub CodeSpaces
- Test-driven development (TDD)
- Infrastructure as Code Bake-off, comparing ARM, Terraform and Bicep Scaling AppSec
- Secure and Compliant Cloud Delivery Embracing DevOps
- Scaling AppSec through Cultural Change and Developer Experience
- Continuous delivery with Azure PaaS Services
- GitHub Security
- Workshop: Modern Data DevOps in the Azure Cloud
Fast Focus - CodeSpaces  
**MICKEY GOUSSET**  
Tuesday, November 15, 1:30 - 1:50pm  
Want to see the power of CodeSpaces? Watch, as in less than 20 minutes, we spin up a cloud development environment for a production website, make some changes, test those changes, and deploy those changes. And we do it ALL from within the browser. Sounds impossible? It’s not. Come see.

Build .NET Apps More Quickly with GitHub CodeSpaces  
**BRIAN RANDELL**  
Tuesday, November 15, 2:45 - 4:00pm  
You will learn:  
- What are GitHub Codespaces  
- How do you get started with Codespaces  
- How to work with Codespaces at the team level

Too late for TDD? Start Test Eventually Development Now  
**JIM WOOLEY**  
Wednesday, November 16, 9:30 - 10:45am  
You will learn:  
- The differences between unit testing, integration testing, and functional testing and when to use each  
- How to start adding testing strategies against existing code bases  
- Discover how and when to modify your code to make it more testable including refactoring to support injection and mocking

An Infrastructure as Code Bake-off, Comparing ARM, Terraform and Bicep  
**MIKE BENKOVICH**  
Wednesday, November 16, 2:00 - 3:15pm  
You will learn:  
- What is Infrastructure as Code (IaC) and why should I care?  
- How does ARM, Terraform and Bicep compare?  
- What tradeoffs do I make?

Secure and Compliant Cloud Delivery Embracing DevOps  
**MARCEL DE VRIES**  
Wednesday, November 16, 4:00 - 5:15pm  
Details to come.

Continuous Delivery with Azure PaaS Services  
**GEERT VAN DER CRUIJSEN**  
Thursday, November 17, 9:30 - 10:45am  
You will learn:  
- Splitting deploy/release with Azure Paas  
- Safe releasing and fast feedback cycles  
- How to do real CICD with Azure Paas

Secure and Compliant Cloud Delivery Embracing DevOps  
**MARCEL DE VRIES**  
Wednesday, November 16, 4:00 - 5:15pm  
Details to come.

Security at the Speed of GitHub  
**COLIN DEMBOVSKY**  
Thursday, November 17, 1:00 - 2:15pm  
You will learn:  
- How GitHub is approaching App Security  
- Features of GitHub Advanced Security  
- How to scale GitHub Advanced Security across the Enterprise

“I LIKED THAT I WAS ABLE TO CHOOSE BETWEEN MULTIPLE DIVERSE EVENTS.”  
– 2021 Live! 360 Conference Attendee
DATABASE DEVELOPMENT
Working with data is critical to most applications and services. This track covers the essentials of working with Entity Framework, as well as basic and advanced concepts with Cosmos DB. For lots more great additional data and analytics content, take a look at the agenda for SQL Server Live!

This track includes coverage of the following:
• Data Modeling and Partitioning Patterns in Azure Cosmos DB
• Entity Framework Core for Enterprise Applications
• Cosmos DB: Performance and Consistency at Global Scale

DEVELOPING NEW EXPERIENCES
The expectations around “user experience” are being upended right before our eyes. We’ve got you covered with content for rich multi-platform apps to the latest for Windows developers and even bots for good measure.

This track includes coverage of the following:
• Workshop: Building Cross-Platform Mobile & Desktop Apps with .NET MAUI
• .NET MAUI: Next Generation Multi-platform App Development
• Deep Dive with MAUI
• Cross Platform Development with UNO
• Busy Developer’s Guide to Flutter
• ML.NET in MAUI
• Workshop: Blazor: Blazing into the Future of Web Development

VST03
Introduction to Azure Cosmos DB
Introductory
LEONARD LOBEL
Tuesday, November 15, 9:15 - 10:30am
You will learn:
• Get familiar with NoSQL databases, and Microsoft Azure Cosmos DB
• Understand the differences between NoSQL and relational database platforms, and when to choose one or the other for your next application
• About the unique NoSQL features of Cosmos DB, including global distribution, server-side horizontal partitioning, multi-model support, rich query over schema-free data, client development, server-side programming, tunable consistency, and automatic indexing

VST02
.NET MAUI: Next Generation Multi-platform App Development
Introductory
JAMES MONTEMAGNO
Tuesday, November 15, 9:15 - 10:30am
You will learn:
• What is .NET MAUI and how can you use it to build apps
• How do I get started and what is the project structured
• Accessing platform features and integrations

VST17
Data Modeling and Partitioning Patterns in Azure Cosmos DB
Intermediate
LEONARD LOBEL
Tuesday, November 15, 4:15 - 5:30pm
You will learn:
• Translate traditional relational database concepts to modern NoSQL data modeling techniques
• Understand the tradeoffs in embedding vs. referencing, and normalizing vs. denormalizing
• How to develop the optimal database in terms of scale, performance, and cost

VSTH05
Cosmos DB: Performance and Consistency at Global Scale
Intermediate / Advanced
IAN GRIFFITHS
Thursday, November 17, 9:30 - 10:45am
You will learn:
• Understand what Cosmos DB’s consistency models really guarantee
• How to use the tools that can tell you what will or won’t work for each consistency level
• Understand how to optimize applications either for scale or cost

VSTH12
Entity Framework Core for Enterprise Applications
Intermediate / Advanced
BENJAMIN DAY
Wednesday, November 16, 4:00 - 5:15pm
You will learn:
• What is WebApplicationFactory and how does it help you to test ASP.NET Core code?
• How to write tests for your WebAPI Controllers and MVC Controllers
• How to access your ASP.NET Core app’s dependency injection configuration from an automated at runtime…and why would you care
VISUAL STUDIO LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

You will learn:
- About .NET MAUI from a mobile developer’s standpoint
- Platform reach & code sharing
- Tooling improvements & design patterns
- How to bring in Blazor goodness in existing desktop apps
- How to migrate Xamarin apps to .NET MAUI

VSW09
Cross Platform Development with UNO
Introductory / Intermediate
TONY CHAMPION
Wednesday, November 16, 2:00 - 3:15pm
You will learn:
- Get an introduction into UNO
- Learn how to build cross platform experiences with UNO
- Discover how to utilize platform specific features to build the best experiences for each platform

VSW11
Getting Started with Conversational AI is Easier than You Think
Introductory / Intermediate
MICHAEL CRUMP
Wednesday, November 16, 2:00 - 3:15pm
By the end of this session, you'll have what you need to need in order to make an informed decision on how best your company can implement Conversational AI technology.

VSW13
Busy Developer’s Guide to Flutter
Intermediate
TED NEWARD
Wednesday, November 16, 4:00 - 5:15pm
You will learn:
- Basics of Dart and Flutter
- How a functional-reactive UI operates
- Understand what Flutter does and doesn’t offer

VSTH02
Is there ML.NET in MAUI?
Introductory / Intermediate
VERONIKA KOLESNIKOVA
Thursday, November 17, 8:00 - 9:15am
You will learn:
- Obtain core information about ML.NET
- Practical knowledge about Xamarin to MAUI migration
- Practical knowledge about adding ML.NET to a MAUI application

TECHNICAL EXCELLENCE AND LEADERSHIP SKILLS
Every software team member knows that there’s more to delivering truly great products than writing solid code and having the best of breed tooling. Modern software teams that experience the greatest successes understand that strong leadership of highly motivated and skilled people make the difference, and that building better teams means building better solutions. The practices and techniques that team members use to understand and analyze the problem space, to manage interpersonal communication and conflict, and to deliver solutions that delight the end users are key to their success.

People are not born leaders; leaders are cultivated from anyone who is motivated to make a difference! Whether you’re a leader by title or by necessity, the skills and practices shared in this track will enable you to have more effective interactions with stakeholders, team members, direct reports, even your manager. Whether you’re an experienced leader or an aspiring one, we have something for you in the Technical Excellence and Leadership Skills track.

Topics in this track include:
- Workshop: The Human Side of Agile and DevOps
- Feedback Skills for Team Members and Leaders
- Meaningful Engagement with a Hybrid Workforce
- The Art of Resiliency
- Roll with the Changes - Boosting Your Adaptability Quotient
- Rebooting Your Agile Transformation using Empathy
- Agile Metrics that Your Team will Love
- Better Architecture without Architects

“INSTRUCTORS ARE ACCESSIBLE. SIZE OF THE CONFERENCE ALLOWS FOR FREE EXCHANGE BETWEEN ATTENDEES AND INSTRUCTORS.”
– Phillip Whit, 2021 Live! 360 Conference Attendee
<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Level</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>VST09</td>
<td>Fast Focus: Supercharged Feedback Techniques in 20 Minutes</td>
<td>Introductory / Intermediate</td>
<td>ANGELA DUGAN</td>
<td>Tuesday, November 15, 2:00 - 2:20pm</td>
<td></td>
<td>20 minutes</td>
<td>Feedback Doesn’t Have to Suck. In this fast-paced 20 minute session focused on supercharging your feedback skills, I will help you get a good foothold on where to start. We’ll warm up with an overview of what feedback is, attributes of high-quality feedback, and some “tips and tricks” to getting comfortable with giving and receiving candid feedback that has worked really well for me both as a manager and a team member. You’ll be a feedback champion before you know it!</td>
</tr>
</tbody>
</table>
| VST12   | Meaningful Engagement with a Hybrid Workforce | Introductory | SARA FAATZ | Tuesday, November 15, 2:45 - 4:00pm | | 1.5 hours | You will learn:  
• Key considerations when establishing a hybrid workplace  
• Explore ways to ensure meaningful engagement in a hybrid environment  
• How to engage employees and teams no matter their location |
| VST16   | Bounce, the Art of Resiliency | Introductory | SARA FAATZ | Tuesday, November 15, 4:15 - 5:30pm | | 1.5 hours | You will learn:  
• What resiliency is  
• Why resiliency is important  
• How to find resiliency from within |
| VSW14   | Roll with the Changes - Boosting Your Adaptability Quotient | Introductory / Intermediate | ANGELA DUGAN | Wednesday, November 16, 4:00 - 5:15pm | | 1.5 hours | You will learn:  
• What is AQ?  
• Ways to measure AQ  
• Techniques for effectively rolling with the random chaos life throws your way |
| VSTH06  | Rebooting Your Agile Transformation using Empathy | Intermediate / Advanced | BENJAMIN DAY | Thursday, November 17, 9:30 - 10:45am | | 1.5 hours | You will learn:  
• What are linguistic frames and how do you use them?  
• How do leaders get in their own way and what do you do about it?  
• How do you talk about scaling your teams? Is scaling up a bad idea? |
| VSTH10  | Measuring Up! How To Choose Agile Metrics Your Team Won’t Hate | Introductory / Intermediate | ANGELA DUGAN | Thursday, November 17, 1:00 - 2:15pm | | 1.5 hours | You will learn:  
• Why it is so difficult to identify meaningful metrics in the software world  
• The importance of developing a healthy “metrics mindset”  
• The best types of quality-focused team metrics to focus on in an agile organization |
| VSTH13  | Better Architecture without Architects | Intermediate | GEERT VAN DER CRUIJSEN | Thursday, November 17, 2:30 - 3:45pm | | 1.5 hours | You will learn:  
• How organization setup is really important for your application architecture  
• How to do architecture in DevOps organizations  
• How it is important for everyone to add to architecture |
### THE CORE OF .NET

The heart of the Microsoft development experience has been the .NET Framework. But it’s changed a lot in the era of .NET Core. And now we have a single, unified version, .NET 6. You need to understand these major changes in the platform, not to mention the cool features being added to C#. These are the foundation-level topics you need to know for success in the Microsoft development world.

#### Topics in this track include:
- Hands-On Lab: Asynchronous and Parallel Programming in C#
- Visual Studio for Mac
- High Volume Event Processing with Rx’s Big Brother
- Getting .NET Interactive Notebooks
- C# Past, Present, and Beyond
- What’s New in .NET 6/7 APIs
- Analyzing Code in .NET
- Design Patterns: Not Just for Architects
- JSON Serialization with Code Generation on C# 10 and .NET 6.0
- A Data Access Layer You’re Proud of without Entity Framework
- Building Intuitive Command-line Interfaces in .NET
- A Tour of Go for the C# Developer
- Dotnet CLI or: How I Learned to Stop Worrying and Love the Command Line
- Introduction to Unity3D - Enterprise Developer Skills Meet Game Dev Tools

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#### VST04

**Visual Studio 2022 for Mac - Fast, Fluid, and Modern**

*Introductory*

JORDAN MATTHIESEN  
Tuesday, November 15, 9:15 - 10:30am

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#### VST06

**Fast Focus: Reaqtor - High Volume Event Processing with Rx’s Big Brother**

*Introductory*

IAN GRIFFITHS  
Tuesday, November 15, 1:30 - 1:50pm

**You will learn:**
- Discover the kinds of high-volume, global-scale event-driven systems Reaqtor can build
- Understand Reaqtor’s capabilities and operational model
- How the Reaqtor components Microsoft has made available fit into a real solution

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#### VST10

**Fast Focus - Getting .NET Interactive Notebooks**

*Introductory*

JASON BOCK  
Tuesday, November 15, 2:00 - 2:20pm

**You will learn:**
- See what .NET Interactive Notebooks are
- Understand how .NET works in notebooks
- Gain insight into .NET integration in Jupyter

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#### VST14

**C# Past, Present, and Beyond**

*Intermediate / Advanced*

JIM WOOLEY  
Tuesday, November 15, 2:45 - 4:00pm

**You will learn:**
- Discover some of the language features from recent versions of C# that you may have missed
- How the latest language features can be helpful for your applications today
- Understand how you can stay on top of new language features that are proposed for the future

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#### VST18

**What’s New in .NET 7 APIs**

*Introductory / Intermediate*

JASON BOCK  
Tuesday, November 15, 4:15 - 5:30pm

**You will learn:**
- See what functionality .NET provides
- Understand new features in the latest version of .NET
- Gain insight in staying on top of new runtime versions

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#### VSW03

**Analyzing Code in .NET**

*Intermediate*

JASON BOCK  
Wednesday, November 16, 8:00 - 9:15am

**You will learn:**
- Understand the benefits in using static analysis
- Be able to use the results of static analysis effectively to improve their code
- See how analyzers can be created to reflect their own best practices

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#### VSW06

**Design Patterns: Not Just for Architects**

*Introductory / Intermediate*

JEREMY CLARK  
Wednesday, November 16, 9:30 - 10:45am

**You will learn:**
- What design patterns are
- How you are already using design patterns (even if you don’t realize it)
- How intentional use of patterns can lead to better software
VSW08
High Performance JSON Serialization with Code Generation on C# 10 and .NET 6.0 in Modern .NET Applications
Advanced
IAN GRIFFITHS
Wednesday, November 16, 2:00 - 3:15pm
You will learn:
• Understand how recent C# features can improve serialization performance
• Understand the trade-offs between .NET’s various JSON serialization models
• Understand how both built-in and custom code generators can help enhance performance

VSTH03
A Data Access Layer You're Proud of without Entity Framework
Intermediate
JONATHAN "J." TOWER
Thursday, November 17, 8:00 - 9:15pm
You will learn:
• About micro-ORMs and their advantages over EF
• How to architect a data access layer using a micro-ORM, including the CQRS pattern (Command Query Responsibility Segregation)
• Attendee with compare and contrast several popular micro-ORMs

VSTH07
Building Intuitive Command-line Interfaces in .NET
Intermediate
ALEX THISSEN
Thursday, November 17, 9:30 - 10:45am
You will learn:
• Use System.CommandLine to create CLI interfaces for .NET applications
• Making discoverable and intuitive CLI using designs and patterns
• Leverage CLIs in DevOps scenarios using pipelines for CI/CD

VSTH11
A Tour of Go for the C# Developer
Introductory
JEREMY CLARK
Thursday, November 17, 1:00 - 2:15pm
You will learn:
• Why you want to look at other languages such as Go
• How Go concurrency compares to C#
• How to approach error handling with a different mindset

VSTH14
Dotnet CLI or: How I Learned to Stop Worrying and Love the Command Line
Introductory
JONATHAN "J." TOWER
Thursday, November 17, 2:30 - 3:45pm
You will learn:
• To do common build, run, and publish tasks with the dotnet CLI
• How to use the dotnet CLI to create new projects, restore packages, and package their code libraries into nuget packages
• How to use third-party tools from the dotnet CLI

VSTH15
Introduction to Unity3D - Enterprise Developer Skills Meet Game Dev Tools
Introductory
ANDREAS ERBEN
Thursday, November 17, 2:30 - 3:45pm
You will learn:
• Understand the role of game development tech in modern software applications
• See how Unity3D can be utilized by Enterprise Developers
• About some of the considerations when adopting Unity3D

FULL STACK WEB DEVELOPMENT
Web development has become the dominant approach for building enterprise software. To provide your best on every project, you need to understand the server and browser client worlds. On the server, there’s ASP.NET using .NET 6 with MVC, Razor Pages, and support for building services. The browser client is evolving rapidly, with constant changes and updates to JavaScript, TypeScript, Angular, and other related frameworks. But more than this, there’s now Blazor Server and Blazor Client (aka WebAssembly) and the ability to run other languages natively in the browser. Your need to keep up to date with these technologies has never been greater, and we’re here to give you the knowledge you need!

Topics in this track include:
• Hands-on Lab: Develop an ASP.NET Core App with EF Core in a Day
• Websites with ASP.NET Core Razor Pages
• Fast Focus: Hybrid Web Frameworks
• Fast Focus: A Real-time SignalR Core Chat
• Go Hybrid Across Web, Desktop, & Mobile with Blazor Hybrid
• Building a Progressive Web App (PWA) Using Angular
• Versioning ASP.NET Core APIs
• TypeScript: Moving Beyond the Basics
• Minimal APIs in ASP.NET 6.0
• Deep Dive on Blazor: The Run Everywhere with .NET UI Framework
VST01
Websites with ASP.NET Core Razor Pages
Intermediate
PHILIP JAPIKSE
Tuesday, November 15, 9:15 - 10:30am
You will learn:
• ASP.NET Core Foundation
• Razor Pages in ASP.NET Core
• View Components, Tag Helpers, Routing, and much more

VST05
Fast Focus: Hybrid Web Frameworks
Introductory
ALLEN CONWAY
Tuesday, November 15, 1:30 - 1:50pm
You will learn:
• About the basics of what Hybrid Web Frameworks do for you
• About the differences between web, native, and hybrid implementations
• The basics of building a Hybrid Web App in Visual Studio Code

VST08
Fast Focus - A Real-time SignalR Core Chat
Introductory
JIM WOOLEY
Tuesday, November 15, 2:00 - 2:20
You will learn:
• What SignalR is
• Discover how to add SignalR to an existing web application to receive updates without poling
• Consider some use-cases that aren’t chat apps

VST11
Go Hybrid Across Web, Desktop, & Mobile with Blazor Hybrid
Introductory
JAMES MONTEMAGNO
Tuesday, November 15, 2:45 - 4:00pm
You will learn:
• What is Blazor Hybrid and how can you use it?
• How to integrate Blazor components in WinForms & WPF
• How .NET MAUI & Blazor opens a world of opportunities for native cross-platform apps

VST15
Building a Progressive Web App (PWA) Using Angular
Intermediate
ALLEN CONWAY
Tuesday, November 15, 4:15 - 5:30pm
You will learn:
• About the fundamentals of a PWA and why they would be advantageous to implement
• How to build a basic PWA using Angular, TypeScript and Ionic
• About service workers and their basic configuration in a PWA

VSTH01
ASP.NET Core Minimal APIs and React: A Winning Team
Intermediate
ROLAND GUIJT
Thursday, November 17, 8:00 - 9:15am
You will learn:
• How minimal APIs in ASP.NET Core can benefit
• Why React is the best choice as a SPA framework atm
• Effective query techniques from client to API

VSTH09
Deep Dive on Blazor: The Run Everywhere with .NET UI Framework
Introductory / Intermediate
ROCKFORD LHOTKA
Thursday, November 17, 1:00 - 3:45pm
You will learn:
• How Blazor, WebAssembly, and .NET combine to enable this app platform
• How to build server-side Blazor and Blazor WebAssembly apps
• How to use Blazor UI framework features such as UI components, data binding, routing, and authorization

“I ENJOYED THE MANY DIFFERENT OPTIONS FOR SESSIONS, ABILITY TO MOVE AROUND WITH DIFFERENT TOPICS.”
– 2021 Live! 360 Conference Attendee
VISUAL STUDIO LIVE! SPEAKERS

CONFERENCE CHAIRS

Andrew Brust  
CEO and Founder, Blue Badge Insights  
Visual Studio Live! Conference Co-Chair

Angela Dugan  
Delivery Director, 3Cloud Solutions  
Visual Studio Live! Conference Co-Chair

Rockford Lhotka  
Chief Software Architect, Marimer LLC  
Visual Studio Live! Conference Co-Chair

Brian Randell  
Product Marketing Director, GitHub  
Visual Studio Live! Conference Co-Chair

SPEAKERS

Sam Basu  
Developer Advocate, Progress Software

Mike Benkovich  
Developer, Business Owner, Consultant, Cloud Architect, Microsoft Azure MVP and an Online Instructor

Jason Bock  
Developer Advocate, Rocket Mortgage

Tony Champion  
President, Champion DS

Jeremy Clark  
Developer Educator, JeremyBytes.com

Allen Conway  
Practice Lead, Cognizant Softvision

Michael Crump  
Senior Developer Advocate, Vonage

Benjamin Day  
Author, Trainer, Developer

Marcel de Vries  
CO-Founder & CTO, Xpirit

Colin Dembovsky  
Cloud Solution Architect, 10th Magnitude

Angela Dugan  
Delivery Director, 3Cloud Solutions

Andreas Erben  
CEO Americas and CTO, daenet and Industrial Holographics

Sara Faatz  
Director, Developer Relations, Progress

Ed Freeman  
Software Engineer, endjin

Veronika Kolesnikova  
Web Developer, Rightpoint

Rockford Lhotka  
Chief Software Architect, Marimer LLC

Leonard Lobel  
CTO, Sleek Technologies, Inc.

Jordan Matthiesen  
Senior Program Manager, Microsoft

James Montemagno  
Principal Lead Program Manager for .NET Community, Microsoft

Ted Neward  
Co-founder, Solidify/US

Philip Japikse  
Developer, Coach, Author, Teacher

Mickey Gousset  
DevOps Architect, GitHub

Ian Griffiths  
Technical Fellow, endjin

James Montemagno  
Principal Lead Program Manager for .NET Community, Microsoft

Ted Neward  
Co-founder, Solidify/US

REGISTER NOW AT LIVE360EVENTS.COM/ORLANDO
## AGENDA-AT-A-GLANCE

### SQL Server Live! Pre-Conference Hands-On Labs: Sunday, November 13, 2022

<table>
<thead>
<tr>
<th>START TIME</th>
<th>END TIME</th>
<th>Session</th>
<th>Speakers</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 AM</td>
<td>9:00 AM</td>
<td>Registration • Coffee and Morning Pastries</td>
<td></td>
</tr>
<tr>
<td>9:00 AM</td>
<td>6:00 PM</td>
<td>SQH01 Hands-On Lab: SQL Server Ground to Cloud</td>
<td>Buck Woody, Bradley Ball &amp; Joshua Luedeman</td>
</tr>
<tr>
<td>2:00 PM</td>
<td>7:00 PM</td>
<td>Pre-Conference Registration - Royal Pacific Resort Conference Center</td>
<td></td>
</tr>
</tbody>
</table>

### SQL Server Live! Pre-Conference Workshops: Monday, November 14, 2022

<table>
<thead>
<tr>
<th>START TIME</th>
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<th>Session</th>
<th>Speakers</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 AM</td>
<td>8:30 AM</td>
<td>Registration • Coffee and Morning Pastries</td>
<td></td>
</tr>
<tr>
<td>9:00 AM</td>
<td>6:00 PM</td>
<td>SQM01 Workshop: SQL Server Technologies Developer Dive</td>
<td>Andrew Brust &amp; Leonard Lobel</td>
</tr>
<tr>
<td>SQM02 Workshop: Introduction to Azure Data Platform for Data Professionals</td>
<td>Thomas LaRock &amp; Karen Lopez</td>
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</tr>
<tr>
<td>SQM03 Workshop: Full Stack Development From Zero to Hero</td>
<td>Davide Mauri</td>
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</tr>
<tr>
<td>2:00 PM</td>
<td>7:00 PM</td>
<td>Mix &amp; Mingle @ Live! 360 @ Hard Rock Café Universal CityWalk - 7:00pm</td>
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</tbody>
</table>

### SQL Server Live! Day 1: Tuesday, November 15, 2022

<table>
<thead>
<tr>
<th>START TIME</th>
<th>END TIME</th>
<th>Session</th>
<th>Speakers</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 AM</td>
<td>8:00 AM</td>
<td>Registration • Coffee and Morning Pastries</td>
<td></td>
</tr>
<tr>
<td>8:00 AM</td>
<td>9:00 AM</td>
<td>SQL SERVER LIVE! &amp; ARTIFICIAL INTELLIGENCE LIVE! KEYNOTE: Accessibility - From Data to AI</td>
<td>Henk Boelman, Cloud Advocate &amp; Buck Woody, Applied Data Scientist, Azure Data Services Team, Microsoft</td>
</tr>
<tr>
<td>9:15 AM</td>
<td>10:30 AM</td>
<td>SQT01 Azure PostgreSQL for the SQL Server DBA</td>
<td>Tim Chapman</td>
</tr>
<tr>
<td>SQT02 Performance Tuning Power BI</td>
<td>Thomas LeBlanc</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:30 AM</td>
<td>11:00 AM</td>
<td>Networking Break • Visit the EXPO Lounge - Pacifica 7</td>
<td></td>
</tr>
<tr>
<td>11:00 AM</td>
<td>12:00 PM</td>
<td>LIVE! 360 KEYNOTE: Code to Cloud in Minutes</td>
<td>Shayne Boyer, Principal Program Manager, Developer Experiences team, Microsoft</td>
</tr>
<tr>
<td>12:00 PM</td>
<td>12:45 PM</td>
<td>Lunch • Visit the EXPO Lounge - Pacifica 7 &amp; Promenade Deck</td>
<td></td>
</tr>
<tr>
<td>12:45 PM</td>
<td>1:30 PM</td>
<td>Dessert Break • Visit the EXPO Lounge - Pacifica 7</td>
<td></td>
</tr>
<tr>
<td>1:30 PM</td>
<td>1:50 PM</td>
<td>SQT03 Fast Focus: Data Happens: How to Get Through Your Day</td>
<td>Karen Lopez</td>
</tr>
<tr>
<td>SQT04 Fast Focus: Power BI Metrics - Managing KPIs and Scorecards for Yourself and Your Team</td>
<td>Andrew Brust</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2:00 PM</td>
<td>2:20 PM</td>
<td>SQT05 Fast Focus: SQL Server Data Types and Performance</td>
<td>Thomas LaRock</td>
</tr>
<tr>
<td>SQT06 Fast Focus: Introduction to Power BI Datamarts</td>
<td>Arthur Graus</td>
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</table>

Sessions and speakers subject to change.
### AGENDA-AT-A-GLANCE (continued)

<table>
<thead>
<tr>
<th>START TIME</th>
<th>END TIME</th>
<th>SQL Server Live! Day 1: Tuesday, November 15, 2022 (Continued)</th>
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<tbody>
<tr>
<td>2:20 PM</td>
<td>2:45 PM</td>
<td>Networking Break • Visit the EXPO Lounge - Pacifica 7</td>
</tr>
<tr>
<td>2:45 PM</td>
<td>4:00 PM</td>
<td>SQT07 Conquering Columnstore Indexes - Tim Chapman</td>
</tr>
<tr>
<td>4:15 PM</td>
<td>5:30 PM</td>
<td>SQT09 Locking, Blocking, and Deadlocks - Thomas LaRock</td>
</tr>
<tr>
<td>5:30 PM</td>
<td>7:00 PM</td>
<td>Exhibitor Welcome Reception - Pacifica 7</td>
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</tbody>
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<table>
<thead>
<tr>
<th>START TIME</th>
<th>END TIME</th>
<th>SQL Server Live! Day 2: Wednesday, November 16, 2022</th>
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<tbody>
<tr>
<td>7:30 AM</td>
<td>8:00 AM</td>
<td>Registration • Coffee and Morning Pastries</td>
</tr>
<tr>
<td>8:00 AM</td>
<td>9:15 AM</td>
<td>SQW01 Secure Machine Learning with SQL Server - Buck Woody</td>
</tr>
<tr>
<td>9:30 AM</td>
<td>10:45 AM</td>
<td>SQW03 Blockchain for the DBA &amp; Data Professional - Karen Lopez</td>
</tr>
<tr>
<td>10:45 AM</td>
<td>11:30 AM</td>
<td>Networking Break • Visit the EXPO Lounge - Pacifica 7</td>
</tr>
<tr>
<td>11:30 AM</td>
<td>12:30 PM</td>
<td>LIVE! 360 KEYNOTE: Leadership Is a Journey - Pacifica 6 Philip Japikse, Developer, Coach, Author, Teacher</td>
</tr>
<tr>
<td>12:30 PM</td>
<td>1:30 PM</td>
<td>Table Topics Lunch</td>
</tr>
<tr>
<td>1:30 PM</td>
<td>2:00 PM</td>
<td>Dessert Break • Visit the EXPO Lounge - Pacifica 7</td>
</tr>
<tr>
<td>2:00 PM</td>
<td>3:15 PM</td>
<td>SQW05 Performance Tuning SQL Server using Wait Statistics - Thomas LaRock</td>
</tr>
<tr>
<td>3:15 PM</td>
<td>4:00 PM</td>
<td>Networking Break • Visit the EXPO Lounge - Expo Raffle @ 3:30 p.m. - Pacifica 7</td>
</tr>
<tr>
<td>4:00 PM</td>
<td>5:15 PM</td>
<td>SQW07 Introduction to Power Query Language M - Arthur Graus</td>
</tr>
<tr>
<td>7:30 PM</td>
<td>9:00 PM</td>
<td>Live! 360 Dessert Luau - Wantilan Pavilion</td>
</tr>
</tbody>
</table>

Sessions and speakers subject to change.
## SQL Server Live! Day 3: Thursday, November 17, 2022

### Session 1: 7:30 AM - 8:00 AM
- **SQTH01** Indexing Internals for Developers & DBAs
  - Bradley Ball

### Session 2: 8:00 AM - 9:15 AM
- **SQTH02** Modern Infrastructure Fundamentals for SQL Server
  - Allan Hirt

### Session 3: 9:30 AM - 10:45 AM
- **SQTH03** Microsoft Defender for Azure Data Platform Services
  - Karen Lopez

### Session 4: 11:00 AM - 12:00 PM
- **SQTH04** Power BI and Azure Databricks SQL: BI on Big Data for Real
  - Andrew Brust

### Session 5: 12:00 PM - 1:00 PM
- Lunch

### Session 6: 1:00 PM - 2:15 PM
- **SQTH05** Introduction to Azure Arc for Data Services
  - Joshua Luedeman

### Session 7: 2:30 PM - 3:45 PM
- **SQTH07** Redefining SQL Server Availability in a Cloudy, Virtual World
  - Allan Hirt

### Session 8: 4:00 PM - 5:00 PM
- **SQTH08** Call Web APIs Like a Pro in Power Query
  - Arthur Graus

### Next? Live! 360 Networking Event - Pacifica 7
- Bill Ayers, Bradley Ball, Prashanti Bhoyar, Eric D. Boyd, Andrew Brust, Priscilla Camp, Benjamin Day, Colin Dembovsky, Angela Dugan, Allan Hirt, Veronika Kolesnikova, Sami Laiho, Thomas LaRock, Rockford Lhotka, Karen Lopez, Ted Neward, Jörgen Nielsen, Ronni Pedersen, Nestor Syyminmoo, & Geert van der Cruijsen

## SQL Server Live! Post-Conference Workshops: Friday, November 18, 2022

### Session 1: 7:30 AM - 8:00 AM
- **SQF01** Workshop: Architecting Scalable, Available, and Manageable SQL Server Deployments
  - Allan Hirt

Sessions and speakers subject to change.
SQL Server Live! Session Descriptions by Track

**SQLHOL01**

**Hands-On Lab: SQL Server Ground to Cloud**

**INTERMEDIATE**

**BUCK WOODY, BRADLEY BALL & JOSHUA LUEDEMAN**

Sunday, November 13, 9:00 - 6:00pm

In this one-day, hands-on workshop, you’ll learn how SQL Server 2019 and Azure SQL help you solve real-world challenges. The modules in this workshop lead you through conceptual and hands-on topics ranging from the newest technical features in SQL Server to its implementation in all the platforms it runs on. You’ll learn not only specific technologies, but how to assemble them into a complete solution based on customer needs and requests.

You’ll start by learning about the latest improvements in SQL Server 2019 and SQL Server 2022, the ways you can leverage SQL in Microsoft Azure (and how to get there) - all with a focus on how to extrapolate what you have learned to create other solutions for your organization. You’ll end the day with a “What to Use When” module explaining how to create your own solutions.

This Workshop contains lecture and hands-on lab work, and is particularly useful for Solution Architects, Data Architects, Application Architects, Technical Sellers, and Application Developers. A laptop, Microsoft Azure account, and experience with SQL is considered a prerequisite. There is also a set of computing resources you will need to provision, and an Azure Account (the free subscription is acceptable, if you wait to set it up until just before the class – do not set it up ahead of time, as it has a time limit). More detail will be provided on registration for the pre-requisites.

**Attendee Requirements:**
You must provide your own laptop computer (Windows or Mac) for this hands-on lab.

The Workshop: SQL Ground-to-Cloud workshop is taught using the following components, which you will install and configure in the sections that follow:

For this workshop, you will use Microsoft Windows as the base workstations, although Apple and Linux operating systems can be used in production. You can download a Windows 10 Workstation Image for VirtualBox, Hyper-V, VMWare, or Parallels for free here to use in the course. You must be able to install software on the system you will use for the course, so a Virtual Machine is often a good choice. This Workshop was built and designed for a server or VM to run SQL Server with at least 8Gb RAM and 4 CPUs.

Note that you will need to be able to run the Docker program on your workstation, so Nested Virtualization must be enabled on the system, or your physical workstation must be able to run Hyper-V images.

**Other requirements include:**
- Microsoft Azure: This Workshop uses the Microsoft Azure platform to host various components, and optionally you can deploy a system there to act as a workstation. You can use a free Azure account, an MSDN Account, your own account, or potentially one provided for you, as long as you can create about $100.00 (U.S.) worth of assets.

Note that all work station set-up activities must be completed prior to class - there will not be time to perform these operations during the workshop.

**SQM01**

Workshop: SQL Server Technologies Developer Dive

**Intermediate**

**ANDREW BRUST & LEONARD LOBEL**

Monday, November 14, 8:30am - 5:30pm

This all-day workshop on SQL Server on-prem and cloud platforms will provide coverage of a wide range of capabilities, including operational and analytical, on-premises and in the cloud. We’ll start by covering important development platform features, including T-SQL enhancements added in SQL Server 2022, machine learning services with R and Python, and temporal tables.

We’ll then move over to the world of analytics and data warehousing. We’ll start with a primer on foundational concepts, including columnar storage, massively parallel processing (MPP) and vector processing. Then we’ll get practical, starting with SQL Server analytics technologies, including columnstore indexes, batch mode and PolyBase. From there, we’ll transition smoothly over to Azure Synapse Analytics, the cloud data warehouse and data lake platform based on SQL Server, T-SQL and Apache Spark. And since Synapse integrates with Azure Data Factory, Azure Data Explorer and Power BI, we’ll have a look at those services – within Synapse Analytics – as well.

Next, we’ll hop back to the operational side and explore security features, starting with ledger tables. With ledger, SQL Server 2022 utilizes blockchain technology that hashes every transaction, and guarantees that none of your data has been tampered with. We’ll continue by examining dynamic data masking and row-level security. We’ll then dig into Always Encrypted and demonstrate how to leverage secure enclaves, enabling rich query over encrypted data in use.

You will learn:
- Coding tricks and tips, including T-SQL enhancements, and modern development platform for machine learning with R and Python
- All about operational analytics and data warehousing, on-premises and in the cloud
- Numerous ways to query your data lake, including PolyBase in SQL Server, as well as Serverless SQL Pools and Apache Spark in Azure Synapse Analytics
- SQL Server’s newest security features, including ledger tables, Dynamic Data Masking, Row Level Security, and Always Encrypted with secure enclaves
SQL Server Live! Session Descriptions By Track (continued)

**SQM02 Workshop: Introduction to Azure Data Platform for Data Professionals**
*Introductory / Intermediate*

THOMAS LAROCK & KAREN LOPEZ
Monday, November 14, 8:30am - 5:30pm

We will look at the core services of Microsoft Azure Data Platform offerings. Topics that may be included are:

- Azure SQL DB
- Azure Data Factory
- Azure Databricks
- Azure Synapse (formerly Azure Data Warehouse)
- Azure Cosmos DB
- Azure Storage
- Azure Stream Analytics
- Azure Monitoring
- Azure ML
- Azure Defender/Security

We'll wrap up with the ways data professionals can get hands-on training and usage credits to learn on their own.

You will learn:

- Understand the data-related service offerings in Azure
- Understand the costs and benefits of each Azure Data Platform Offering
- Understand how these azure data services can work together

**SQM03 Workshop - Full Stack Development From Zero to Hero**
*Introductory / Intermediate*

DAVIDE MAURI
Monday, November 14, 8:30am - 5:30pm

Let's build a fullstack/jamstack solution together, in one day. Starting from scratch, we'll see how using Azure Static Web Apps, Vue.js, Azure Functions and Azure SQL Database you can build a modern, ultra-scalable, secure solution, in just a day. We'll cover the basic of a Jamstack solution, and we'll go through all these steps to have it built and tested locally and deployed in Azure, using GitHub to setup a CI/CD pipeline that will take care of everything. We'll go through changing requirements, authentication and authorization, scalability and alternative architectures so that, and the end of the day, you will have a solid and practical foundation for building a modern, cloud based, hyper scalable, solution.

We will cover the following topics:

- Jamstack Architecture
- Static Web Apps, Vue.js and Azure Functions
- The Database: Azure SQL DB (Why? Stored Procs or not? JSON? Dapper or EF Core?)
- Authentication
- Connection Resiliency
- Deployment and CI/CD
- Caching
- Alternative Implementations

**SQF01 Architecting Scalable, Available, and Manageable SQL Server Deployments**
*Intermediate / Advanced*

ALLAN HIRT
Friday, November 18, 8:00am - 5:00pm

Whether you are running SQL Server on premises, in a public cloud, or as part of a hybrid solution that spans both, your solutions must meet three main criteria:

1. Perform well
2. Be up and running meeting the company’s availability requirements
3. Be relatively easy to manage

Deployments that are up but are slow, or ones that perform well but are down every other day are useless. Add to that solutions that are complex and hard to manage often break and cause downtime and/or performance issues no matter how good they look in a Visio diagram.

How do you balance performance, availability, and manageability to achieve all your goals in a single design for SQL Server? How do you migrate from A to B with minimal downtime? How do you manage cost when considering a cloud- or hybrid-based deployment? All of these topics and more will be tackled.

This full day will not only provide tips and tricks on how to achieve successful deployments based on real world experience, but show and discuss relevant features and technologies that you should be aware of no matter how you deploy and use SQL Server - Windows Server, Linux, physical, virtual, IaaS, or PaaS.

You will learn:

- Understand the considerations for when to use – and when not to use – the public cloud for SQL Server
- How to plan availability for SQL Server solutions that are hybrid, IaaS, or PaaS
- How to ensure that you get the performance required from your SQL Server solutions

**Business Intelligence, Data Warehouse and Data Lake**

Organizations are increasingly turning to SQL Server and related technologies to make better business decisions. SQL Server Live! presents great content to help you master the complex world of BI and analytics to help your organization get there. Coverage of Power BI, Synapse Analytics and Azure Databricks is included.

**SQF04 Fast Focus: Power BI Metrics - Managing KPIs and Scorecards for Yourself and Your Team**
*Intermediate*

ANDREW BRUST
Tuesday, November 15, 1:30 - 1:50pm

You will learn:

- Using internal and external tools for Power BI performance tuning
- Seeing the difference between M, DAX and data modeling
- Real world examples to take to the office and implement
SQL SERVER LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

You will learn:
• How to create a datamart in Power BI
• How datamarts work in the background
• How to access datamarts with tools like Azure Data Studio and SSMS
• Considerations for upsizing to a Synapse Analytics data warehouse

SQW04
Where We're Going, We Don't Need Servers: Serverless SQL Pools in Azure Synapse Analytics
Introductory
KEVIN FEASEL
Wednesday, November 16, 9:30 - 10:45am
You will learn:
• Gain an understanding of the different Azure Synapse Analytics pools
• How to interact with the serverless SQL pool
• How to optimize serverless SQL pool queries and save money along the way

SQW06
Data Model Design and Optimization for Power BI
Intermediate
GINGER GRANT
Wednesday, November 16, 2:00 - 3:15pm
You will learn:
• Understand the differences between data warehousing and data modeling for Power BI
• How and when to use the different data modeling options available in Power BI to build the most scalable solutions.
• Improve Power BI performance and usability by the use of composite modeling and aggregations to improve the performance of Power BI reports in large data environments

SQW07
Introduction to Power Query Language M
Intermediate
ARTHUR GRAUS
Wednesday, November 16, 4:00 - 5:15pm
You will learn:
• Syntax of Power Query language M
• Create custom functions
• Add Time Intelligence filtering

SQTH04
Power BI and Azure Databricks SQL: BI on Big Data for Real
Intermediate
ANDREW BRUST
Thursday, November 17, 9:30 - 10:45am
You will learn:
• How to use Databricks SQL Workspaces
• Deployment of, and connecting Power BI to, Databricks SQL Warehouses
• Background on performance optimizations in the Proton engine
• Use of Power BI composite models for efficient big data querying

SQTH06
Azure Synapse Serverless Pools: POLARIS Deep Dive
Introductory
BRADLEY BALL
Thursday, November 17, 1:00 - 2:15pm
You will learn:
• About the underlying architecture of Serverless SQL Pools
• About the scale and capacity of Serverless SQL Pools
• About best practices and performance tuning tips for Serverless SQL Pools
### SQL Server Live! Session Descriptions by Track (continued)

<table>
<thead>
<tr>
<th>Session</th>
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<th>Track</th>
<th>Date &amp; Time</th>
<th>Presenter</th>
<th>Description</th>
</tr>
</thead>
</table>
| SQTH08 | Call Web APIs Like a Pro in Power Query | Intermediate | Thursday, November 17, 2:30 - 3:45pm | ARTHUR GRAUS | You will learn:  
  - Call REST API from Power Query / Power BI  
  - Implement paging  
  - Authenticate using API Token or OAuth |

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</tr>
</thead>
</table>
| SQTH07 | Redefining SQL Server Availability in a Cloudy, Virtual World | Introductory | Thursday, November 17, 2:30 - 3:45pm | ALLAN HIRT | You will learn:  
  - Understand the differences between on premises and cloud-based approaches to SQL Server availability  
  - Understand the availability options for SQL Server  
  - Understand platform-level features and what they can/cannot do |

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</thead>
</table>
| SQW01 | Secure Machine Learning with SQL Server | Intermediate | Wednesday, November 16, 8:00 - 9:15am | BUCK WOODY | You will learn:  
  - Understand the ML Capabilities of SQL Server  
  - Leverage Models for Production  
  - The process for creating a Data Science Project |

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</tr>
</thead>
</table>
| SQTH03 | Microsoft Defender for Azure Data Platform Services | Intermediate | Thursday, November 17, 9:30 - 10:45am | KAREN LOPEZ | You will learn:  
  - Understand the Microsoft approach to Azure Security in Data Platform Services  
  - Understand the costs, benefits, and risks of using Microsoft Defender services  
  - Understand how all the Defender services and features work together to bring better protection to data resources |

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</tr>
</thead>
</table>
| SQTH05 | Introduction to Azure Arc for Data Services | Introductory | Thursday, November 17, 1:00 - 2:15pm | JOSHUA LUEDEMAN | You will learn:  
  - Understand where Azure Arc enabled Data Services fits in the Azure Arc portfolio  
  - Understand the right and wrong use cases for Azure Arc enabled Data Services  
  - What services are available in Azure Arc enabled Data Services |

### SQL Server Administration & 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: Locking, Blocking, and Deadlocks, Modern Infrastructure Fundamentals for SQL Server, SQL Server Availability, and more.

<table>
<thead>
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<th>Presenter</th>
<th>Description</th>
</tr>
</thead>
</table>
| SQT09  | Locking, Blocking, and Deadlocks | Intermediate | Tuesday, November 15, 4:15 - 5:30pm | THOMAS LAROCK | You will learn:  
  - Database concurrency  
  - Locking and blocking  
  - Resolve performance issues |

<table>
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</thead>
<tbody>
<tr>
<td>SQTH02</td>
<td>Modern Infrastructure Fundamentals for SQL Server</td>
<td>Introductory/Intermediate</td>
<td>Thursday, November 17, 8:00 - 9:15am</td>
<td>ALLAN HIRT</td>
<td></td>
</tr>
</tbody>
</table>

### SQL Server Features & Components

With sessions on Azure Data Platform security, secure machine learning, Microsoft Defender for Azure Data Platform Services, and Azure Arc for Data Services, we’ve got features and components covered across all platforms in the SQL Server technology family. Learn what’s new, along with the do’s and don’ts, from our experienced experts.

<table>
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<th>Description</th>
</tr>
</thead>
</table>
| SQTH08 | Azure Data Platform Security Overview | Intermediate | Tuesday, November 15, 2:45 - 4:00pm | BUCK WOODY | You will learn:  
  - The process to identify security attack surfaces on data platforms  
  - Understand the Azure data protection tools and processes for data programming  
  - The newest features in data security from blockchain to masking |

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</table>
| SQTH04 | Redefining SQL Server Availability in a Cloudy, Virtual World | Introductory | Thursday, November 17, 2:30 - 3:45pm | ALLAN HIRT | You will learn:  
  - Understand modern infrastructure concepts that affect SQL Server on premises and in the cloud  
  - Understand networking and how it affects SQL Server  
  - Understand modern storage concepts for SQL Server |

### SQL Server Features & Components

With sessions on Azure Data Platform security, secure machine learning, Microsoft Defender for Azure Data Platform Services, and Azure Arc for Data Services, we’ve got features and components covered across all platforms in the SQL Server technology family. Learn what’s new, along with the do’s and don’ts, from our experienced experts.

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Track</th>
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<th>Presenter</th>
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</tr>
</thead>
</table>
| SQTH08 | Azure Data Platform Security Overview | Intermediate | Tuesday, November 15, 2:45 - 4:00pm | BUCK WOODY | You will learn:  
  - The process to identify security attack surfaces on data platforms  
  - Understand the Azure data protection tools and processes for data programming  
  - The newest features in data security from blockchain to masking |

### SQL Server Administration & 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: Locking, Blocking, and Deadlocks, Modern Infrastructure Fundamentals for SQL Server, SQL Server Availability, and more.

<table>
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</tr>
</thead>
</table>
| SQT09  | Locking, Blocking, and Deadlocks | Intermediate | Tuesday, November 15, 4:15 - 5:30pm | THOMAS LAROCK | You will learn:  
  - Database concurrency  
  - Locking and blocking  
  - Resolve performance issues |

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<tbody>
<tr>
<td>SQTH02</td>
<td>Modern Infrastructure Fundamentals for SQL Server</td>
<td>Introductory/Intermediate</td>
<td>Thursday, November 17, 8:00 - 9:15am</td>
<td>ALLAN HIRT</td>
<td></td>
</tr>
</tbody>
</table>

### SQL Server Features & Components

With sessions on Azure Data Platform security, secure machine learning, Microsoft Defender for Azure Data Platform Services, and Azure Arc for Data Services, we’ve got features and components covered across all platforms in the SQL Server technology family. Learn what’s new, along with the do’s and don’ts, from our experienced experts.

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### SQL Server Features & Components

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## SQL Server Live! Session Descriptions by Track (continued)

### SQL Server for Developers

**SQT07**

**Conquering Columnstore Indexes**  
**Intermediate / Advanced**  
**TIM CHAPMAN**  
**Tuesday, November 15, 2:45 - 4:00pm**  
You will learn:  
- Understand what a Columnstore Index is  
- Understand when to use Columnstore Indexes vs B-Tree Indexes  
- Analytics Queries using Columnstore Indexes

### SQL Server Live! Session Descriptions by Track (continued)

**SQT03**

**Fast Focus: Data Happens: How to Get Through Your Day**  
**Introductory**  
**KAREN LOPEZ**  
**Tuesday, November 15, 1:30 - 1:50pm**  
You will learn:  
- Understand the nature of human and data challenges  
- Takeaways: How to identify the real issue, how to respond the right way, how to help others  
- The best way to get revenge when your brain tells you that’s what you need

**SQT05**

**Fast Focus: SQL Server Data Types and Performance**  
**Intermediate**  
**THOMAS LAROCK**  
**Tuesday, November 15, 2:00 - 2:20pm**  
You will learn:  
- About inefficient datatypes  
- How to fix issues with datatypes  
- How to design better databases

---

### SQL Server for DBAs

**SQW03**

**Blockchain for the DBA & Data Professional**  
**Intermediate**  
**KAREN LOPEZ**  
**Wednesday, November 16, 9:30 - 10:45am**  
You will learn:  
- Understand Blockchain and Data terminology  
- Takeaways: How SQL Server/Azure SQL DB leverages Blockchain concepts, How to implement Ledger Tables, when to use Ledger Tables  
- Understand when to leverage Ledger Tables and Confidential Computing with your data

**SQW05**

**Performance Tuning SQL Server using Wait Statistics**  
**Intermediate**  
**THOMAS LAROCK**  
**Wednesday, November 16, 2:00 - 3:15pm**  
You will learn:  
- Query processing tasks  
- Query wait events  
- Performance tuning and troubleshooting

**SQTH01**

**Indexing Internals for Developers & DBAs**  
**Intermediate**  
**BRADLEY BALL**  
**Thursday, November 17, 8:00 - 9:15am**  
You will learn:  
- Gain a rich understanding of when to use indexes  
- Understand when it is appropriate to use heaps and clustered indexes  
- Demonstrate how the internal architecture of indexes lead to a greater understanding of how to performance tune with indexes
SQL SERVER LIVE! SPEAKERS

CONFERENCE CHAIRS

Andrew Brust
CEO and Founder,
Blue Badge Insights
SQL Server Live! Conference Co-Chair

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

SPEAKERS

Bradley Ball
Premier Sr. Consultant, Premier Support for Developers, Microsoft

Andrew Brust
CEO and Founder,
Blue Badge Insights

Tim Chapman
Principal Solution Architect, Microsoft

Kevin Feasel
CTO @ FareGame, Inc.

Ginger Grant
Principal Data Geek, Desert Isle Group

Arthur Graus
Power BI Trainer / Consultant

Allan Hirt
Founder and Managing Partner, SQLHA, LLC

Thomas LaRock
Head Geek, SolarWinds

Karen Lopez
Data Evangelist, Space Enthusiast, & NASA Datanaut

Thomas LeBlanc
Data Warehouse Architect/ MVP at Data on the Geaux

Leonard Lobel
CTO, Sleek Technologies, Inc.

Josh Luedeman
Sr. FastTrack Engineer, Azure Engineering – CXP, Microsoft

Buck Woody
Applied Data Scientist, Azure Data Services Team, Microsoft

REGISTER NOW AT LIVE360EVENTS.COM/ORLANDO
## AGENDA-AT-A-GLANCE

### Client and Endpoint Management
### PowerShell and DevOps
### Infrastructure
### Soft Skills for IT Pros
### Security
### Azure (Public/Hybrid)
### “Microsoft 365 – Office Apps” for the IT Pro

<table>
<thead>
<tr>
<th>START TIME</th>
<th>END TIME</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TechMentor Pre-Conference Hands-On Labs: Sunday, November 13, 2022</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7:30 AM</td>
<td>9:00 AM</td>
<td>Registration • Coffee and Morning Pastries</td>
</tr>
<tr>
<td>9:00 AM</td>
<td>6:00 PM</td>
<td>TMHOL01 Hands-On Lab: Microsoft 365 Security Masterclass - Michael Van Horenbeeck</td>
</tr>
<tr>
<td>2:00 PM</td>
<td>7:00 PM</td>
<td>Pre-Conference Registration - Royal Pacific Resort Conference Center</td>
</tr>
<tr>
<td><strong>TechMentor Pre-Conference Workshops: Monday, November 14, 2022</strong></td>
<td></td>
<td></td>
</tr>
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<td>8:30 AM</td>
<td>Registration • Coffee and Morning Pastries</td>
</tr>
<tr>
<td>9:00 AM</td>
<td>6:00 PM</td>
<td>TMM01 Workshop: Modern Management - Windows Autopilot and Intune - Petri Paavola</td>
</tr>
<tr>
<td>2:00 PM</td>
<td>7:00 PM</td>
<td>Mix &amp; Mingle @ Live! 360 @ Hard Rock Café Universal CityWalk - 7:00pm</td>
</tr>
<tr>
<td><strong>TechMentor Day 1: Tuesday, November 15, 2022</strong></td>
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<td></td>
</tr>
<tr>
<td>7:00 AM</td>
<td>8:00 AM</td>
<td>Registration • Coffee and Morning Pastries</td>
</tr>
<tr>
<td>8:00 AM</td>
<td>9:00 AM</td>
<td>TECHMENTOR KEYNOTE: What's Next For Microsoft Teams - Stephen Rose, Sr. Product Manager, Microsoft Teams, Microsoft</td>
</tr>
<tr>
<td>9:15 AM</td>
<td>10:30 AM</td>
<td>TMT01 Migrating Windows Apps (and your IT skills) to Windows Containers on Azure - Vinicius Apolinario</td>
</tr>
<tr>
<td>10:30 AM</td>
<td>11:00 AM</td>
<td>Networking Break • Visit the EXPO Lounge - Pacifica 7</td>
</tr>
<tr>
<td>11:00 AM</td>
<td>12:00 PM</td>
<td>LIVE! 360 KEYNOTE: Code to Cloud in Minutes - Shayne Bayer, Principal Program Manager, Developer Experiences team, Microsoft</td>
</tr>
<tr>
<td>12:00 PM</td>
<td>12:45 PM</td>
<td>Lunch • Visit the EXPO Lounge - Pacifica 7 &amp; Promenade Deck</td>
</tr>
<tr>
<td>12:45 PM</td>
<td>1:30 PM</td>
<td>Dessert Break • Visit the EXPO Lounge - Pacifica 7</td>
</tr>
<tr>
<td>1:30 PM</td>
<td>1:50 PM</td>
<td>TMT04 Fast Focus: Hot Features in PowerShell 7 - Jeffery Hicks</td>
</tr>
<tr>
<td>1:50 PM</td>
<td>2:00 PM</td>
<td>Sessions and speakers subject to change</td>
</tr>
<tr>
<td>2:00 PM</td>
<td>2:20 PM</td>
<td>TMT06 Fast Focus: 7 Key Tips for Microsoft in Education - Omar Valerio</td>
</tr>
</tbody>
</table>

**Note:**
- Sessions and speakers subject to change.
- Microsoft Sessions
## Agenda-at-a-Glance (continued)

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<tbody>
<tr>
<td><strong>2:20 PM – 2:45 PM</strong></td>
<td><strong>Networking Break</strong></td>
<td><strong>TMT08</strong> Customize Microsoft Teams to our Environment - Karinne Bessette</td>
<td><strong>TMT09</strong> How to Use PowerShell to Become a Windows and Cloud Management SuperHero - 2022 Edition - Petri Paavola</td>
<td><strong>TMT10</strong> Lock the Doors, Secure the Valuables, and Set the Alarm - Eric D. Boyd</td>
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<td></td>
<td></td>
</tr>
<tr>
<td><strong>4:15 PM – 5:30 PM</strong></td>
<td><strong>TMT11</strong> PKI - Avoiding Common Pitfalls - Rick Davis</td>
<td><strong>TMT12</strong> Demistifying Co-Management, CMG, Autopilot and Cloud Attach - Emile Cabot</td>
<td><strong>TMT13</strong> Overcoming the Fear of Public Speaking: Tips to Help Boost Your Career and Profile - Cristal Kawula</td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>5:30 PM – 7:00 PM</strong></td>
<td><strong>Exhibitor Welcome Reception</strong> - Pacifica 7</td>
<td></td>
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</tr>
</tbody>
</table>

**TechMentor Day 2: Wednesday, November 16, 2022**

<table>
<thead>
<tr>
<th>Start Time</th>
<th>End Time</th>
<th>Session Title</th>
<th>Speakers</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 AM</td>
<td>8:00 AM</td>
<td>Registration • Coffee and Morning Pastries</td>
<td></td>
</tr>
<tr>
<td>8:00 AM</td>
<td>9:15 AM</td>
<td><strong>TMW01</strong> Who’s Afraid of PowerShell Security? Introduction to Securing Your Environment - Michael Wiley</td>
<td></td>
</tr>
<tr>
<td>9:30 AM</td>
<td>10:45 AM</td>
<td><strong>TMW04</strong> Microsoft Teams Tips, Tricks and Hidden Features - Stephen Rose</td>
<td><strong>TMW05</strong> Windows 11 OSD: The Saga Continues... - Emile Cabot</td>
</tr>
<tr>
<td>10:45 AM</td>
<td>11:30 AM</td>
<td>Networking Break - Visit the EXPO Lounge - Pacifica 7</td>
<td></td>
</tr>
<tr>
<td>11:30 AM</td>
<td>12:30 PM</td>
<td><strong>LIVE! 360 KEYNOTE: Leadership is a Journey</strong> - Pacifica 6 Philip Japikse, Developer, Coach, Author, Teacher</td>
<td></td>
</tr>
<tr>
<td>12:30 PM</td>
<td>1:30 PM</td>
<td>Table Topics Lunch</td>
<td></td>
</tr>
<tr>
<td>1:30 PM</td>
<td>2:00 PM</td>
<td>Dessert Break - Visit the EXPO Lounge - Pacifica 7</td>
<td></td>
</tr>
<tr>
<td>2:00 PM</td>
<td>3:15 PM</td>
<td><strong>TMW07</strong> Enabling Flexible Work with Windows 365 and Azure Virtual Desktop - Eric D. Boyd</td>
<td><strong>TMW08</strong> Getting To Know M365 From A to Z - Stacy Deere-Strole</td>
</tr>
<tr>
<td>3:15 PM</td>
<td>4:00 PM</td>
<td>Networking Break - Visit the EXPO Lounge • Expo Raffle @ 3:30 p.m. - Pacifica 7</td>
<td></td>
</tr>
<tr>
<td>4:00 PM</td>
<td>5:15 PM</td>
<td><strong>TMW10</strong> Remove Common Cloud Only Technical Blockers - Nicklas Ahlberg</td>
<td><strong>TMW11</strong> Keeping up with the Microsoft 365 Admin Center - Stacy Deere-Strole</td>
</tr>
<tr>
<td>7:30 PM</td>
<td>9:00 PM</td>
<td>Live! 360 Dessert Luau - Wantilan Pavilion</td>
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</table>

**TechMentor Day 3: Thursday, November 17, 2022**

Sessions and speakers subject to change.
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<tr>
<td>7:30 AM</td>
<td>Registration - Coffee and Morning Pastries</td>
</tr>
<tr>
<td>8:00 AM</td>
<td><strong>TMTH01</strong> Protecting Azure AD and M365 from On-Prem Attacks</td>
</tr>
<tr>
<td></td>
<td>- Nestori Syynimaa</td>
</tr>
<tr>
<td>9:00 AM</td>
<td><strong>TMTH02</strong> Active Directory Security Master Class</td>
</tr>
<tr>
<td></td>
<td>- Derek Melber</td>
</tr>
<tr>
<td>9:30 AM</td>
<td><strong>TMTH03</strong> Up Your Windows 365 Game with Microsoft Graph and PowerShell</td>
</tr>
<tr>
<td></td>
<td>- Nicklas Ahlberg &amp; Simon Binder</td>
</tr>
<tr>
<td>9:30 AM</td>
<td><strong>TMTH04</strong> Using Microsoft Teams as Your SOC War Room</td>
</tr>
<tr>
<td></td>
<td>- Rod Trent</td>
</tr>
<tr>
<td>9:30 AM</td>
<td><strong>TMTH05</strong> Be a Better Speaker, 4 Steps to Create Presentations that Inspire and Make People Care</td>
</tr>
<tr>
<td></td>
<td>- Erwin Derksen</td>
</tr>
<tr>
<td>9:30 AM</td>
<td><strong>TMTH06</strong> Troubleshooting the MEM Managed Windows 11 Client - Deep Dive!</td>
</tr>
<tr>
<td></td>
<td>- Ronni Pedersen &amp; Jörgen Nilsson</td>
</tr>
<tr>
<td>11:00 AM</td>
<td>TECHMENTOR PANEL DISCUSSION: Defending Your Environment in 2022</td>
</tr>
<tr>
<td></td>
<td>Dave Kawula &amp; Sami Laiho (Moderators), Derek Melber, John O’Neill, Sr., Nestori Syynimaa, and Rod Trent</td>
</tr>
<tr>
<td>12:00 PM</td>
<td>Lunch</td>
</tr>
<tr>
<td>1:00 PM</td>
<td><strong>TMTH07</strong> User and Device Identities – the Foundation of Azure AD Security</td>
</tr>
<tr>
<td></td>
<td>- Nestori Syynimaa</td>
</tr>
<tr>
<td>1:00 PM</td>
<td><strong>TMTH08</strong> File Management Tips &amp; Tricks with PowerShell</td>
</tr>
<tr>
<td></td>
<td>- Jeffery Hicks</td>
</tr>
<tr>
<td>2:30 PM</td>
<td><strong>TMTH10</strong> The Silent Scream of Every Network: The Horror that is Active Directory Security</td>
</tr>
<tr>
<td></td>
<td>- Derek Melber</td>
</tr>
<tr>
<td>2:30 PM</td>
<td><strong>TMTH11</strong> True Tips on Microsoft Teams</td>
</tr>
<tr>
<td></td>
<td>- Erwin Derksen</td>
</tr>
<tr>
<td>4:00 PM</td>
<td><strong>TMTH12</strong> 75 Life Hacks of Windows in 75 Minutes</td>
</tr>
<tr>
<td></td>
<td>- Sami Laiho</td>
</tr>
<tr>
<td>4:00 PM</td>
<td>Next? Live! 360 Networking Event - Pacifica 7</td>
</tr>
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**Microsoft Sessions**
TECHMENTOR SESSION DESCRIPTIONS BY TRACK

FULL DAY HANDS-ON LABS
These instructor-led, pre-conference Hands-On Labs offer attendees intensive in-depth training before the conference officially begins. Take advantage of in-person instruction as well as collaboration with peers.

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

TMHOL01
Hands-On Lab: Microsoft 365 Security Masterclass
Advanced
MICHAEL VAN HORENBECK
Sunday, November 13, 9:00am - 6:00pm
Do you want to become a master in understanding, designing, deploying, and using Microsoft’s latest security products? In this hands-on workshop, Michael will show you the ins and outs of the entire Microsoft 365 Security stack. As an added bonus, we’ll see how Microsoft Sentinel can best be used to further enhance your security operations.

You will learn:
• About Microsoft’s security product offering
• How to deploy these products
• Understand when and how to best use which product

Attendee Requirements:
You must provide your own laptop computer (Windows or Mac) for this hands-on lab.

All other laptop requirements will be provided to attendees 2 weeks prior to the conference.

WORKSHOPS
Choose from a wide range of content and topics by expert presenters with TechMentor Orlando’s Pre- and Post-Conference full-day workshops.

TMM01
Workshop: Modern Management - Windows Autopilot and Intune
Intermediate/Advanced
PETRI PAAVOLA
Monday, November 14, 8:30am - 5:30pm
Join Petri’s full day workshop on Windows Autopilot and Microsoft Endpoint Manager / Intune management for Windows devices. Workshop will go through necessary settings needed to deploy Windows Autopilot and Intune managed Windows devices successfully to your production environment.

Petri will share his tips and tricks from years of experience working with these technologies. Petri has also created several power user tools to work with Intune management more easily. Petri will share his secret tips to successful PowerShell management for Windows Autopilot and Intune using PowerShell and Graph API.

Petri has done tens of deployments for Autopilot and Intune and has also written Windows Autopilot Deployment Guide. This workshop is all about real life tips and tricks to help you with your Windows Autopilot and Intune journey.

You will learn:
• How to configure Windows Autopilot
• About upgrading Infrastructure Roles WSUS and IIS
• About migrating other key roles

Attendee Requirements:
You must provide your own laptop computer (Windows or Mac) for this hands-on lab.

All other laptop requirements will be provided to attendees 2 weeks prior to the conference.

TMF01
Hands-On Workshop: Migrating and Upgrading to Windows Server 2022 and Azure Like the Pros
Intermediate
DAVE KAWULA & CRISTAL KAWULA
Friday, November 18, 8:00am - 5:00pm
During this Hands on workshop, attendees will learn about Dave’s proven methodology for Zero Downtime Windows Server Migrations and Upgrades. Attendees will learn how to Migrate Active Directory, DHCP, DNS, File, Print, IIS to Microsoft latest flagship operating system Windows Server 2022 and Azure

You will learn:
• About upgrading Active Directory DNS DHCP
• About upgrading Infrastructure Roles WSUS and IIS
• About migrating other key roles

Attendee Requirements:
You must provide your own laptop computer (Windows or Mac) for this hands-on lab.

All other laptop requirements will be provided to attendees 2 weeks prior to the conference.
CLIENT AND ENDPOINT MANAGEMENT

As apps are moving to the cloud more than ever, you still need to support, upgrade, migrate, and troubleshoot all of the endpoints to use those apps. This year at TechMentor, we are hosting a new lineup of client-centric sessions from expert speakers on Windows, Android, MacOSX and IOs devices. We also give focus on a new area that needs it: Microsoft Endpoint Manager troubleshooting.

TMT07
Fast Focus: Mac Management on Intune: More Than “Good Enough”
Introductory
ÉMILE CABOT
Tuesday, November 15, 2:00 - 2:20pm
You will learn:
• Understand what’s required to manage Macintosh devices in the enterprise
• How Intune has been updated to ease Mac management
• What’s new for Mac management in Intune

TMT12
Demystifying Co-Management, CMG, Autopilot and Cloud Attach
Introductory
ÉMILE CABOT
Tuesday, November 15, 4:15 - 5:30pm
You will learn:
• About the requirements and functionality behind the CMG
• About the options available through Intune and when they are useful
• Understand the differences between the features available through Co-Management and the CMG

TMW05
Windows 11 OSD: The Saga Continues...
Introductory/Intermediate
ÉMILE CABOT
Wednesday, November 16, 9:30 - 10:45am
You will learn:
• How to properly create an MDT-Integrated Task Sequence in MEM
• Understand how to use the default sequences and configure the underlying components
• About the free products available to assist with the hardest part of building OSD Sequence

TMTH06
Troubleshooting the MEM Managed Windows 11 Client - Deep Dive!
Advanced
RONNI PEDERSEN & JÖRGEN NILSSON
Thursday, November 17, 9:30 - 10:45am
You will learn:
• How to troubleshoot a MEM managed Windows client.
• Covers real-word examples and notes from the fields
• Dive deep into the nuts and bolts of these scenarios through the tools of troubleshooting.

TMTH09
Windows 11 - How to Get There!
Advanced
RONNI PEDERSEN & JÖRGEN NILSSON
Thursday, November 17, 1:00 - 2:15pm
You will learn:
• Manage Windows 11 Customizations
• Upgrade scenarios and Feature Updates
• Manage and Monitor Upgrades

TMTH12
75 Life Hacks of Windows in 75 Minutes
Intermediate
SAMI LAIHO
Thursday, November 17, 2:30 - 3:45pm
You will learn:
• The hidden Easter eggs of Windows
• How to make your life easier with Windows
• How to save time on common tasks

“THE CONFERENCE WAS GREAT AT AFFIRMING MY UNDERSTANDING OF CURRENT TECHNOLOGIES.”
– 2021 Live! 360 Conference Attendee
POWERSHELL AND DEVOPS

Whether you are a PowerShell junkie or a newbie, TechMentor is bringing everything PowerShell, automation, and the DSC to you as part of the new DevOps approach to things. Sessions in this track will focus on the tools and techniques you need to succeed. With PowerShell as the only required management interface for future Microsoft products, it is imperative that you can keep up! The new server management tool Windows Admin Center runs only PowerShell scripts behind the GUI, so this knowledge is imperative even to all GUI lovers.

TMT02
Making PowerShell Do More with Less Work
Intermediate / Advanced
JEFFERY HICKS
Tuesday, November 15, 9:15 - 10:30am
You will learn:
• How to leverage PSDefaultParameter values
• How any why to create proxy functions
• How to extend an object in PowerShell

TMT04
Fast Focus: Hot Features in PowerShell 7
Introductory
JEFFERY HICKS
Tuesday, November 15, 1:30 - 1:50pm
You will learn:
• How to use PSStyle
• How to get the most from PSReadline
• PowerShell 7-only features

TMW01
Who’s Afraid of PowerShell Security?
Introduction to Securing Your Environment
Intermediate
MICHAEL WILEY
Wednesday, November 16, 8:00 - 9:15am
You will learn:
• Explore the myths and realities of PowerShell execution policies
• Discover the layers of security that can be employed without hampering PowerShell’s automation capabilities
• Understand how to control remoting and other “scary” aspects of PowerShell

TMTH08
File Management Tips & Tricks with PowerShell
Intermediate/Advanced
JEFFERY HICKS
Thursday, November 17, 1:00 - 2:15am
You will learn:
• File and folder management changes in PowerShell 7
• How to create utilization reports
• How to create system and hard links.

INFRASTRUCTURE

TechMentor’s Infrastructure track covers the services that make the server, client, mobile, application, and services work together in an IT environment. Expert instructors are coming together to discuss today’s hot topics such as Server 2016/2019/2022 network services, Certificate Services, Network Troubleshooting, Group Policy, and more.

TMF01
Hands-On Workshop: Migrating and Upgrading to Windows Server 2022 and Azure Like the Pros
Intermediate
DAVE KAWULA & CRISTAL KAWULA
Friday, November 18, 8:00am - 5:00pm
You will learn:
• About upgrading Active Directory DNS DHCP
• About upgrading Infrastructure Roles WSUS and IIS
• About migrating other key roles

SOFT SKILLS FOR ITPROS

Becoming a successful IT Pro requires more than just technology skills, so let TechMentor guide you with informative sessions offering basic career and communication skills to help you reach the next level. This track focuses on simple presentation skills, how to sell ideas to your boss, documentation, and more.
<table>
<thead>
<tr>
<th>Track</th>
<th>Session Title</th>
<th>Description</th>
<th>Level</th>
<th>Presenter(s)</th>
<th>Date/Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>TMT1</td>
<td>How to Stay Sane Keeping Up to Date in an Evergreen Cloud as an IT Pro</td>
<td>Introductory / Intermediate</td>
<td>STÅLE HANSEN</td>
<td>Tuesday, November 15, 1:30 PM - 2:20 PM</td>
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</tr>
<tr>
<td>TMT13</td>
<td>Overcoming the Fear of Public Speaking: Tips to Help Boost Your Career and Profile</td>
<td>Intermediate</td>
<td>CRISTAL KAWULA</td>
<td>Tuesday, November 15, 4:15 – 5:30pm</td>
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</tr>
<tr>
<td>TMT05</td>
<td>True Tips on Microsoft Teams</td>
<td>Intermediate / Advanced</td>
<td>ERWIN DERKSEN</td>
<td>Thursday, November 17, 2:30 – 3:45pm</td>
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</tr>
<tr>
<td>TMT10</td>
<td>Lock the Doors, Secure the Valuables, and Set the Alarm</td>
<td>Introductory / Intermediate</td>
<td>JOHN O’NEILL, SR.</td>
<td>Tuesday, November 15, 1:30 - 1:50pm</td>
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<tr>
<td>TMT11</td>
<td>Be a Better Speaker: 4 Steps to Create Presentations that Inspire and Make People Care</td>
<td>Introductory</td>
<td>ERWIN DERKSEN</td>
<td>Thursday, November 17, 9:30 – 10:45am</td>
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</tr>
<tr>
<td>TMT03</td>
<td>Surviving Ransomware Attacks with Microsoft 365 Defender</td>
<td>Introductory / Intermediate</td>
<td>JOHN O’NEILL, SR. &amp; DAVE KAWULA</td>
<td>Tuesday, November 15, 9 - 10:30am</td>
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<tr>
<td>TMT11</td>
<td>PKI - Avoiding Common Pitfalls</td>
<td>Intermediate</td>
<td>RICK DAVIS</td>
<td>Tuesday, November 15, 4:15 - 5:30pm</td>
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<tr>
<td>TMW02</td>
<td>Best Practices for Building Network Sustainability and Security Protocols</td>
<td>Introductory / Intermediate</td>
<td>OMAR VALERIO</td>
<td>Wednesday, November 16, 8:00 - 9:15am</td>
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</table>
You will learn:
• Better understanding of your Infrastructure
• Be able to start developing a Cybersecurity Assessment
• Understanding of Policies and different types of malware

TMW03
Zero Admins - Zero Problems
Intermediate
SAMI LAIHO
Wednesday, November 16, 8:00 - 9:15am
You will learn:
• How to remote end-user admin rights without affecting productivity
• How to reduce service desk tickets up to 75% and reimaging up to 60%
• Why there is no security in Windows if you logon as an admin

TMW09
Red vs. Blue: Microsoft at the Core of Your Protection, Detection, and Response Capabilities!
Advanced
MICHAEL VAN HORENabeeck
Wednesday, November 16, 2:00 - 3:15pm
You will learn:
• About common attack scenarios
• About Microsoft’s security products
• How to become a better Blue Teamer

TMW12
A Day in the Life of a Microsoft Sentinel Analyst
Advanced
ROD TRENT
Wednesday, November 16, 4:00 - 5:15pm
You will learn:
• How to build a process for managing security tasks daily, weekly, and monthly
• About assigning proper duties to the right skillsets
• How to use Microsoft Sentinel effectively and efficiently to protect the environment from attack

TMTH01
Protecting Azure AD and M365 from On-Prem Attacks
Advanced
NESTORI SYNNIMAA
Thursday, November 17, 8:00 - 9:15am
You will learn:
• On-prem attack paths often used by the adversaries
• Understand available security options to protect your cloud from on-prem attacks
• Understand available post-breach remediations to keep your business running

TMTH02
Active Directory Security Master Class
Intermediate
DEREK MELBER
Thursday, November 17, 8:00 - 9:15am
Join Derek for this session on all things AD and AD security. So many forget that many moving parts of AD are security related, which is key to understanding how to secure it. We will go into topics such as FSMOs, trusts, replication, immediate replication... then dive into all objects (users, groups, computers) and discuss the attributes that are essential when trying to secure AD.

TMTH04
Using Microsoft Teams as Your SOC War Room
Advanced
ROD TRENT
Thursday, November 17, 9:30 - 10:45am
You will learn:
• Use Microsoft Teams as a central repository for threat collateral
• Enable Teams channel for access by in-time individuals
• Assign proper duties to the correct skillsets

TMTH07
User and Device Identities – the Foundation of Azure AD Security
Advanced
NESTORI SYNNIMAA
Thursday, November 17, 1:00 - 2:15pm
You will learn:
• Understand the user and device identities in Azure AD
• Understand the weak points of identities and how to compromise them
• Best practices to protect your Azure AD identities

TMTH10
The Silent Scream of Every Network: The Horror that is Active Directory Security
Intermediate / Advanced
DEREK MELBER
Thursday, November 17, 2:30 - 3:45pm
You will learn:
• About prioritizing Active Directory security
• How to gather and analyze data from Active Directory
• Understanding configuration options and security consequences

AZURE (PUBLIC/HYBRID)
This track brings real-world discussions on the cloud to you as you are using it: hybrid, connected, private, and absolutely real. Let TechMentor bring you everything from the on-site Azure Stack to everything in the Cloud, including Azure IaaS, DevOps, Labs, Networking, Scripting, and Automation.
TECHMENTOR SESSION DESCRIPTIONS BY TRACK (continued)

TMT01
Migrating Windows Apps (and your IT skills) to Windows Containers on Azure
Intermediate
VINICIUS APOLINARIO
Tuesday, November 15, 9:15 - 10:30am
You will learn:
• What containers are and why IT should learn about it
• How to migrate Windows applications to containers
• How to manage containers on Azure

TMT06
Fast Focus: 7 Key Tips for Microsoft in Education
Introductory / Intermediate
OMAR VALERIO
Tuesday, November 15, 2:00 - 2:20pm
You will learn:
• You will learn how to become an MIEE
• How to become a Microsoft Incubator or Showcase School
• How to take free courses and get certified

TMT07
Enabling Flexible Work with Windows 365 and Azure Virtual Desktop
Introductory / Intermediate
ERIC D. BOYD
Wednesday, November 16, 2:00 - 3:15pm
You will learn:
• Overview of Azure Virtual Desktop and Windows 365
• How to setup your Azure environment AVD and W365 success
• How to deploy, manage, and optimize AVD and W365

TMT10
Remove Common Cloud Only Technical Blockers
Intermediate
NICKLAS AHLBERG
Wednesday, November 16, 4:00 - 5:15pm

TMT08
Customize Microsoft Teams to our Environment
Introductory / Intermediate
KARINNE BESSETTE
Tuesday, November 15, 2:45 - 4:00pm
You will learn:
• How to navigate the Microsoft Teams Admin Center
• About leveraging Microsoft Teams Applications Beyond the Defaults
• How to manage Microsoft Teams Effectively for Adoption

TMW06
How to Efficiently Navigate Microsoft Teams Meetings and Applications
Introductory / Intermediate
KARINNE BESSETTE
Wednesday, November 16, 9:30 - 10:45am
You will learn:
• Ways to get more out of Microsoft Teams Meetings
• Key collaborative applications to use in Microsoft Teams meetings
• How to improve work life and time management with Microsoft Teams

TMW08
Getting To Know M365 From A to Z
Intermediate
STACY DEERE-STROLE
Wednesday, November 16, 2:00 - 3:15pm
You will learn:
• About getting to know the Apps in Microsoft 365
• How to use the Apps
• About App Integration

TMW11
Keeping up with the Microsoft 365 Admin Center
Intermediate
STACY DEERE-STROLE
Wednesday, November 16, 4:00 - 5:15pm
You will learn:
• About getting up to speed on the latest and greatest features & functionality
• About Usage & Analytics, are you using it? If not, why?
  Let’s get you on the right path
• About Security Implications - Let’s make sure your safe

“MICROSOFT 365 – OFFICE APPS” FOR THE IT PRO
Almost all IT Pros are experienced in managing and supporting Microsoft 365 / Office 365. This track will provide you with the up-to-date skills needed to manage, secure, and troubleshoot all aspects of the Microsoft/Office 365 as an administrator. Check out informative sessions on deploying Office ProPlus/2019, managing Android and iOS, and more.
TECHMENTOR SPEAKERS

CONFERENCE CHAIRS

Sami Laiho  
Chief Research Officer, Truesec  
TechMentor Conference Co-Chair

Dave Kawula  
Principal Consultant, TriCon Elite Consulting  
TechMentor Conference Co-Chair

SPEAKERS

Nicklas Ahlberg  
Senior System Engineer at Cygate AB

Viniccius Apolinario  
Senior Cloud Advocate, Microsoft

Karinne Bessette  
Technologist, Product Strategy Team, Veeam

Simon Binder  
Digital Workplace Architect @ Cygate

Eric D. Boyd  
Founder and CEO, responsiveX

Emile Cabot  
Principal Consultant, TriCon Elite Consulting

Rick Davis  
Sr. CE Cybersecurity, Microsoft

Stacy Deere-Strole  
Solutions Architect

Erwin Derksen  
PositionCompany

Ståle Hansen  
CEO and Principal Cloud Architect, MVP & RD, CloudWay

Jeffery Hicks  
PowerShell Author, Teacher, Mentor

Cristal Kawula  
President, TriCon Elite Consulting

Dave Kawula  
Principal Consultant, TriCon Elite Consulting

Sami Laiho  
Chief Research Officer, Truesec

Derek Melber  
Chief Technology and Security Strategist

Jörgen Nilsson  
Principal Consultant, Onevinn - Ccmexec.com

Lawrence Novak  
Senior Consultant, Microsoft

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

Petri Paavola  
Yodamiitti Oy

Ronni Pedersen  
Enterprise Mobility, APENTO

Stephen Rose  
Sr. Product Manager, Microsoft Teams

Nestori Syynimaa  
Senior Principal Security Researcher, Secureworks

Rod Trent  
Senior Cloud Security Advocate and Global Microsoft Sentinel SME, Microsoft

Omar Valerio  
CIO / CTO / IT Director, Westminster Christian School

Michael Van Horenbeeck  
CEO, “The Collective”

Michael Wiley  
Senior Customer Engineer, Microsoft

Jeffery Hicks  
PowerShell Author, Teacher, Mentor

Jörgen Nilsson  
Principal Consultant, Onevinn - Ccmexec.com

Lawrence Novak  
Senior Consultant, Microsoft

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

REGISTER NOW AT LIVE360EVENTS.COM/ORLANDO
## AGENDA-AT-A-GLANCE

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<th>Programming</th>
<th>Analytics</th>
<th>Cloud ML Platforms</th>
<th>Intelligent Apps</th>
<th>Data Science</th>
<th>Internet of Things</th>
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</thead>
<tbody>
<tr>
<td><strong>START TIME</strong></td>
<td><strong>END TIME</strong></td>
<td><strong>Artificial Intelligence Live! Pre-Conference Hands-On Labs: Sunday, November 13, 2022</strong></td>
<td><strong>Artificial Intelligence Live! Pre-Conference Workshops: Monday, November 14, 2022</strong></td>
<td><strong>Artificial Intelligence Live! Day 1: Tuesday, November 15, 2022</strong></td>
<td><strong>Microsoft Sessions</strong></td>
</tr>
<tr>
<td>7:30 AM</td>
<td>9:00 AM</td>
<td>Registration • Coffee and Morning Pastries</td>
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<td>Registration • Coffee and Morning Pastries</td>
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</tbody>
</table>
| 9:00 AM | 6:00 PM | **AIHOL01** Hands-On Lab: Building Modern Bot Experiences with Azure Cognitive Services  
- Brian Randell and Mickey Gousset | **AIM01** Hands-On Workshop: Microsoft Azure AI Fundamentals  
- Carey Payette & Lino Tadros | **AIT01** Predicting the Future using Azure Machine Learning  
- Eric D. Boyd |  |
| 2:00 PM | 7:00 PM | Pre-Conference Registration - Royal Pacific Resort Conference Center | Mix & Mingle @ Live! 360 @ Hard Rock Café Universal CityWalk - 7:00pm |  |  |
| **START TIME** | **END TIME** | **Artificial Intelligence Live! Day 1: Tuesday, November 15, 2022** | **Microsoft Sessions** |  |  |
| 7:00 AM | 8:00 AM | Registration • Coffee and Morning Pastries |  |  |  |
| 8:00 AM | 9:00 AM | **ARTIFICIAL INTELLIGENCE LIVE! & SQL SERVER LIVE! KEYNOTE: Accessibility - From Data to AI**  
Henk Boelman, Cloud Advocate & Buck Woody, Applied Data Scientist, Azure Data Services Team, Microsoft |  |  |  |
| 9:15 AM | 10:30 AM | **AIT01** Predicting the Future using Azure Machine Learning  
- Eric D. Boyd |  |  |  |
| 10:30 AM | 11:00 AM | Networking Break • Visit the EXPO Lounge - Pacifico 7 |  |  |  |
| 11:00 AM | 12:00 PM | **LIVE! 360 KEYNOTE: Code to Cloud in Minutes**  
Shayne Boyer, Principal Program Manager, Developer Experiences team, Microsoft |  |  |  |
| 12:00 PM | 12:45 PM | Lunch • Visit the EXPO Lounge - Pacifico 7 & Promenade Deck |  |  |  |
| 12:45 PM | 1:30 PM | Dessert Break • Visit the EXPO Lounge - Pacifico 7 |  |  |  |
| 1:30 PM | 1:50 PM | **AIT02** Fast Focus: GitHub Copilot in 20 minutes  
- Brian Randell |  |  |  |
| 2:00 PM | 2:20 PM | **AIT03** Fast Focus: Battle Royale - Microsoft Bot Framework Vs Power Virtual Agents (No Code Chatbots)  
- Prashant G Bhoyar |  |  |  |

Sessions and speakers subject to change.
AGENDA-AT-A-GLANCE (continued)

<table>
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<tr>
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**Artificial Intelligence Live! Day 1: Tuesday, November 15, 2022 (Continued)**

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<tr>
<th>START TIME</th>
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<tr>
<td>2:20 PM</td>
<td>2:45 PM</td>
<td>Networking Break • Visit the EXPO Lounge - Pacifica 7</td>
</tr>
<tr>
<td>2:45 PM</td>
<td>4:00 PM</td>
<td><strong>AIT04</strong> Making Sense of Unstructured Data with AI - Henk Boelman</td>
</tr>
<tr>
<td>4:15 PM</td>
<td>5:30 PM</td>
<td><strong>AIT05</strong> Busy .NET Developer’s Guide to Python - Ted Neward</td>
</tr>
<tr>
<td>5:30 PM</td>
<td>7:00 PM</td>
<td>Exhibitor Welcome Reception - Pacifica 7</td>
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**Artificial Intelligence Live! Day 2: Wednesday, November 16, 2022**

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<tr>
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<tbody>
<tr>
<td>7:30 AM</td>
<td>8:00 AM</td>
<td>Registration • Coffee and Morning Pastries</td>
</tr>
<tr>
<td>8:00 AM</td>
<td>9:15 AM</td>
<td><strong>AIW01</strong> Using Azure IoT Central to Form a Basis for Your IoT Solutions - Carey Payette</td>
</tr>
<tr>
<td>9:30 AM</td>
<td>10:45 AM</td>
<td><strong>AIW02</strong> Build Great Software Using GitHub Copilot - Brian Randell</td>
</tr>
<tr>
<td>10:45 AM</td>
<td>11:30 AM</td>
<td>Networking Break • Visit the EXPO Lounge - Pacifica 7</td>
</tr>
<tr>
<td>11:30 AM</td>
<td>12:30 PM</td>
<td><strong>LIVE! 360 KEYNOTE: Leadership Is a Journey</strong> - Pacifica 6 Philip Japikse, Developer, Coach, Author, Teacher</td>
</tr>
<tr>
<td>12:30 PM</td>
<td>1:30 PM</td>
<td>Table Topics Lunch</td>
</tr>
<tr>
<td>1:30 PM</td>
<td>2:00 PM</td>
<td>Dessert Break • Visit the EXPO Lounge - Pacifica 7</td>
</tr>
<tr>
<td>2:00 PM</td>
<td>3:15 PM</td>
<td><strong>AIW03</strong> Build and Deploy PyTorch Models with Azure Machine Learning - Henk Boelman</td>
</tr>
<tr>
<td>3:15 PM</td>
<td>4:00 PM</td>
<td>Networking Break • Visit the EXPO Lounge • Expo Raffle @ 3:30 p.m. - Pacifica 7</td>
</tr>
<tr>
<td>4:00 PM</td>
<td>5:15 PM</td>
<td><strong>AIW04</strong> Bot Composer: A New Way of Creating Smart Bots - Veronika Kolesnikova</td>
</tr>
<tr>
<td>7:30 PM</td>
<td>9:00 PM</td>
<td>Live! 360 Dessert Luau - Wantilan Pavilion</td>
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Sessions and speakers subject to change.
AGENDA-AT-A-GLANCE (continued)

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### Artificial Intelligence Live! Day 3: Thursday, November 17, 2022

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<tbody>
<tr>
<td>7:30 AM</td>
<td>8:00 AM</td>
<td>Registration</td>
<td>Coffee and Morning Pastries</td>
</tr>
<tr>
<td>8:00 AM</td>
<td>9:15 AM</td>
<td>AITH01</td>
<td>AI in Power BI</td>
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<td>- Priscilla Camp</td>
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<tr>
<td>9:30 AM</td>
<td>10:45 AM</td>
<td>AITH02</td>
<td>Experiments with Language Processing Neural Networks</td>
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<td>- Andreas Erben</td>
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<tr>
<td>11:00 AM</td>
<td>12:00 PM</td>
<td>ARTIFICIAL INTELLIGENCE LIVE! PANEL DISCUSSION: Responsible AI: Is There Such a Thing?</td>
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<td>Brian Randell (moderator), Prashant G Bhoyar, Priscilla Camp, &amp; Andreas Erben</td>
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<tr>
<td>12:00 PM</td>
<td>1:00 PM</td>
<td>Lunch</td>
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<tr>
<td>1:00 PM</td>
<td>2:15 PM</td>
<td>AITH03</td>
<td>Artificial Intelligence and Common Sense</td>
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<td></td>
<td>- Bill Ayers</td>
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<tr>
<td>2:30 PM</td>
<td>3:45 PM</td>
<td>AITH04</td>
<td>Azure Cognitive Services at the Edge</td>
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<td>- Bill Ayers</td>
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<tr>
<td>4:00 PM</td>
<td>5:00 PM</td>
<td>Next? Live! 360 Networking Event - Pacifica 7</td>
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### Artificial Intelligence Live! Post-Conference Workshops: Friday, November 18, 2022

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<tr>
<td>8:00 AM</td>
<td>5:00 PM</td>
<td>AIF01</td>
<td>Hands-On Workshop: Azure AI Master Class</td>
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<td></td>
<td>- Prashant G Bhoyar</td>
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Sessions and speakers subject to change.
FULL DAY HANDS-ON LABS
This instructor-led, pre-conference Hands-On Lab offer attendees intensive in-depth training before the conference officially begins. Take advantage of in-person instruction as well as collaboration with peers.

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

Hands-On Lab: Building Modern Bot Experiences with Azure Cognitive Services
Intermediate
BRIAN RANDDELL AND MICKEY GOUSET
Sunday, November 13, 9:00am – 6:00pm
Every day it seems AI becomes more pervasive. From our smart phones to our smart homes, cars, and offices, AI is everywhere. While much of the AI world is hidden behind the scenes, bots supporting “conversational AI” are now easier than ever to build and deploy when you use the Microsoft Bot Framework and Azure Cognitive Services.

In this hands-on workshop, you’ll learn the core skills needed to build engaging conversational applications powered by Microsoft modern stack of tools running on Microsoft Azure. Brian and Mickey will show you (and then better yet you’ll do it) how to create a bot, protect your code with GitHub, and deploy your bot to Microsoft Azure using GitHub Actions. You’ll get exposed to the core tools and SDKs including the Microsoft Power Virtual Agents and the Bot Framework Composer.

Because bots are a type of user experience, you’ll learn how to model your conversations, integrate with other systems, and how to expose your bot’s “UI” using various containers like the web control and Microsoft Teams.

Grab your laptop and come join us for the day as you take the next step in delivering value to your end-users.

You will learn:
• What is Microsoft’s Conversational AI platform
• How to build a bot using C# and the Microsoft Bot Framework
• How to deploy your bot to Azure using GitHub Actions

WORKSHOPS
Choose from a wide range of content and topics by expert presenters with Artificial Intelligence Live! Orlando’s Pre- and Post-Conference full-day workshops.

Hands-On Workshop: Azure AI Fundamentals
Introductory
CAREY PAYETTE & LINO TADROS
Monday, November 14, 8:30am - 5:30pm
Join us for an introductory overview of Azure AI services. This workshop consists of lectures, activities, and hands-on labs to become familiar with all the requisite knowledge to take the AI-900 exam. This workshop is fun and interactive.

We’ll kick off the day with a gentle introduction to Artificial Intelligence, the principles for responsible AI, and look at some interesting applications of AI in the world.

Next, we’ll venture on Machine Learning and the different types of algorithms available that will help you gain insights into your data.

Finally, we’ll dive into the world of Azure AI services and learn about Computer Vision, Natural Language Processing, and Conversational AI services.

You will learn:
• Artificial Intelligence and the Principles of Responsible AI
• Hands-on experience working through labs
• The requirements of the AI-900 certification exam

Attendee Requirements:
You must provide your own laptop computer (Windows or Mac) for this hands-on workshop with internet access and an Azure account (trial is ok).

AIF01
Hands-On Workshop: Azure AI Master Class
Intermediate
PRASHANT G BHoyAR
Friday, November 18, 8:00am - 5:00pm
Artificial Intelligence and Machine Learning are the new buzzwords in the industry. Microsoft’s vision is to make AI accessible to every enterprise, data scientist, developer, information worker, consumer and device everywhere in the world.

AI has a big role to play in the enterprise space and it is progressing rapidly. Without understanding the concepts behind these advanced technologies, developers and administrators will struggle to evaluate the potential impact of new tools and solutions.

Microsoft Cognitive Services let you build apps with powerful algorithms to see, hear, speak, understand and interpret our needs using natural methods of communication, with just a few lines of code. Easily add intelligent features – such as emotion and sentiment detection, vision and speech recognition, language understanding, knowledge, and search – into your app, across devices and platforms such as iOS, Android, and Windows, keep improving and are easy to set up. Containerization lets developers build big AI systems that run at scale, reliably, and consistently in a way that supports better data governance.

In this full-day workshop, we will cover the following topics in detail:
• Cognitive Services
• Azure Applied AI
• Conversational AI
• Cognitive Services in Containers
• Cognitive Services: Language
• Cognitive Services: Speech
• Cognitive Services: Vision
• Cognitive Services: Web Search
• Cognitive Services Best Practices
• Cognitive Services Billing
• How to create enterprise grade applications using Azure AI

At the end of the workshop, attendees will have a working knowledge of the Azure AI and how to use it to implement the enterprise-grade intelligent applications.
Access to Azure, Microsoft 365, SharePoint online site, and Microsoft Team will be provided to create enterprise-grade intelligent applications. The target audience of this hands-on workshop is Developers and Power Users and IT Pros who want to get into the development.

**You will learn:**
- How to create enterprise grade intelligent applications using Azure AI
- How to create enterprise grade Bots using Conversational AI
- Cognitive Services Best Practices

**Attendee Requirements:**
You must provide your own laptop computer (Windows or Mac) for this hands-on workshop with internet access and modern browsers like Microsoft Edge, Google Chrome, Firefox, Safari. The tablets will not work.

All other laptop requirements will be provided to attendees 2 weeks prior to the conference.

**PROGRAMMING**

Artificial Intelligence is changing how you build apps. Technologies like advanced machine learning, natural language processing, and more, mean you can build truly “smart apps”. With today’s accelerated development cycles, you need to be ready to build the next generation of self-learning applications. In this track, you’ll find talks on Github Copilot and Python, and an Azure AI master class workshop.

**AIT05**

**Busy .NET Developer’s Guide to Python**
Intermediate
TED NEWARD
Tuesday, November 15, 4:15 - 5:30pm

**You will learn:**
- Learn the basics of Python
- Recognize how to use Python in a variety of scenarios
- See when and where to use Python

**AIW02**

**Build Great Software Using GitHub Copilot**
Intermediate
BRIAN RANDELL
Wednesday, November 16, 9:30 - 10:45am

**You will learn:**
- What is GitHub Copilot
- How much it will cost to use it
- See examples of GitHub Copilot in use

**ANALYTICS**

AI and BI go together, and not just because they’re similar acronyms! AI entails predictive analytics and BI covers descriptive analytics. Put the two together and you’ve got a powerful combination that uses all the data you’ve collected for competitive advantage. In this track you’ll find a great session on using AI in Power BI.

**AITH01**

**AI in Power BI**
Intermediate
PRISCILLA CAMP
Thursday, November 17, 8:00 - 9:15am

**You will learn:**
- To understand Power BI AI features
- To understand the types of AI
- To understand how to use Natural Language Processing in Power BI

**“I LOVE THE OPPORTUNITIES TO HEAR AND LEARN ABOUT TOPICS, AND THEN SPEAK WITH THE PRESENTERS ABOUT ANY DESIRED CLARIFICATIONS AND QUESTIONS. THE ACCESSIBILITY OF THE PRESENTERS IS AWESOME!”**

– Christian Eaton, 2021 Live! 360 Conference Attendee
CLOUD ML PLATFORMS
While many people will argue that self-hosting solutions can still make sense in 2022, one area that vendors like Microsoft, Google, and more have proved is that they have the scale of the cloud to make Machine Learning a reality and to democratize it for the rest of us.

In this track you find sessions on Azure Machine Learning, PyTorch, Bot Composer, and language processing neural networks, as well as a workshop on Azure AI Fundamentals.

AIW04
Bot Composer: A New Way of Creating Smart Bots
Introductory / Intermediate
VERONIKA KOLESNIKOVA
Wednesday, November 16, 4:00 - 5:15pm
You will learn:
• About Azure usage for bot management and deployment
• About the structure of a well-architected bot
• Practical knowledge about creating bots using the Bot Composer

AITH02
Experiments with Language Processing Neural Networks
Intermediate
ANDREAS ERBAN
Thursday, November 17, 9:30 - 10:45am
You will learn:
• About language processing neural networks
• Understand what OpenAI and similar networks can do
• See the opportunities and risks of this technology in action

INTELLIGENT APPS
Intelligent Apps can mean many things. One major area is chat bots. Chat bots are a new UI that your customers are ready to use. Just as building a Windows UI is different from building a Web UI, building good chat bots requires thought and planning. You then have vendors providing frameworks to make it easy to build and host your bots whether their focused-on commerce, the Enterprise, IoT, or just information. In this track you’ll find sessions on Microsoft Bot Framework vs. Power Virtual Agents and making sense of unstructured data with AI, and a hands-on lab on building modern bot experiences with Azure Cognitive Services.

“THERE IS NO LACK OF SUBJECT MATTER EXPERTS AT THE CONFERENCE.”
– 2021 Live! 360 Conference Attendee
DATA SCIENCE
The Data Science track is central to the whole conference. This subject matter covers the practicalities of predictive analytics, the mechanics of using pre-trained predictive models and strategies for making it all work in production. This track contains sessions on Artificial Intelligence and Common Sense and using Azure Cognitive Services at the edge.

AITH03
Artificial Intelligence and Common Sense
Intermediate/Advanced
BILL AYERS
Thursday, November 17, 1:00 - 2:15pm
You will learn:
• How to visualize neural networks using libraries like TensorFlow and PyTorch
• How pre-trained neural networks can be adapted to new applications using Transfer Learning
• How to build custom AI models using Azure Cognitive Services

AIW01
Using Azure IoT Central to Form a Basis for Your IoT Solutions
Intermediate
CAREY PAYETTE
Wednesday, November 16, 8:00 - 9:15am
You will learn:
• About the advantages of an IoT Central Solution
• How to extend IoT Central
• When to choose IoT Central vs. starting from scratch

INTERNET OF THINGS
When you think about AI, you often think about devices and how they enhance the experience and feeds the data lakes. With billions of physical devices out there, the Internet of Things (IoT) promises to a critical area for many companies. In this track you’ll find a great session on using Azure IoT Central for your IoT solutions.

AITH04
Azure Cognitive Services at the Edge
Intermediate
BILL AYERS
Thursday, November 17, 2:30 - 3:45pm
You will learn:
• How to deploy Azure Cognitive Services as containers
• How to use Azure IoT Hub to manage devices
• How to export a Custom Vision model to a device

"SPEAKERS ARE AWESOME AND HAVING ACCESS TO THEM IS VERY USEFUL."
– Bronn Salmon, 2021 Live! 360 Conference Attendee
ARTIFICIAL INTELLIGENCE LIVE! SPEAKERS

CONFERENCE CHAIRS

Andrew Brust  
CEO and Founder,  
Blue Badge Insights  
Artificial Intelligence Live!  
Conference Co-Chair

Brian Randell  
Product Marketing Director,  
GitHub  
Artificial Intelligence Live!  
Conference Co-Chair

SPEAKERS

Bill Ayers  
Consultant Developer / Solution Architect

Prashant G Bhoyar  
Senior Solution Architect,  
WithumSmith+Brown

Henk Boelman  
Cloud Advocate, Microsoft

Eric D. Boyd  
Founder and CEO, responsiveX

Andrew Brust  
CEO and Founder,  
Blue Badge Insights

Priscilla Camp  
Data Warehouse Systems Manager,  
University of Central Florida

Andreas Erben  
CEO Americas and CTO,  
daenet and Industrial Holographics

Mickey Gousset  
DevOps Architect, GitHub

Veronika Kolesnikova  
Senior Software Engineer

Ted Neward  
Co-founder, Solidify/US

Carey Payette  
Senior Software Engineer,  
Trillium Innovations

Buck Woody  
Applied Data Scientist, Azure Data Services team, Microsoft

Lino Tadros  
Technical Fellow
## Agenda-at-a-Glance

<table>
<thead>
<tr>
<th>Cloud-Native Development</th>
<th>Cloud-Native Infrastructure</th>
<th>Cloud-Native DevOps</th>
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### Cloud & Containers Live! Pre-Conference Hands-On Labs: Sunday, November 13, 2022

<table>
<thead>
<tr>
<th>START TIME</th>
<th>END TIME</th>
<th>Session Details</th>
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<tbody>
<tr>
<td>7:30 AM</td>
<td>9:00 AM</td>
<td>Registration • Coffee and Morning Pastries</td>
</tr>
<tr>
<td>9:00 AM</td>
<td>6:00 PM</td>
<td>CCHOL01 Hands-On Lab: Doing Kubernetes DevOps style - Roy Cornelissen &amp; Alex Thissen</td>
</tr>
<tr>
<td>2:00 PM</td>
<td>7:00 PM</td>
<td>Pre-Conference Registration - Royal Pacific Resort Conference Center</td>
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### Cloud & Containers Live! Pre-Conference Workshops: Monday, November 14, 2022

<table>
<thead>
<tr>
<th>START TIME</th>
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<tbody>
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<tr>
<td>9:00 AM</td>
<td>6:00 PM</td>
<td>CCM01 Hands-On Workshop: Learn to Build and Run Cloud-Native .NET Code - Rockford Lhotka</td>
</tr>
<tr>
<td>2:00 PM</td>
<td>7:00 PM</td>
<td>Mix &amp; Mingle @ Live! 360 @ Hard Rock Café Universal CityWalk - 7:00pm</td>
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### Cloud & Containers Live! Day 1: Tuesday, November 15, 2022

<table>
<thead>
<tr>
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<tr>
<td>7:00 AM</td>
<td>8:00 AM</td>
<td>Registration • Coffee and Morning Pastries</td>
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<tr>
<td>8:00 AM</td>
<td>9:00 AM</td>
<td>CLOUD &amp; CONTAINERS LIVE! KEYNOTE: Journey to Cloud Native - Paul Yuknewicz, Principal Group Product Manager, Microsoft</td>
</tr>
<tr>
<td>9:15 AM</td>
<td>10:30 AM</td>
<td>CCT01 From Core to Containers to Orchestration - Modernizing my Compute - Mike Benkovich</td>
</tr>
<tr>
<td>10:30 AM</td>
<td>11:00 AM</td>
<td>Networking Break • Visit the EXPO Lounge - Pacifica 7</td>
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<tr>
<td>11:00 AM</td>
<td>12:00 PM</td>
<td>LIVE! 360 KEYNOTE: Code to Cloud in Minutes - Shayne Boyer, Principal Program Manager, Developer Experiences team, Microsoft</td>
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<tr>
<td>12:00 PM</td>
<td>12:45 PM</td>
<td>Lunch • Visit the EXPO Lounge - Pacifica 7 &amp; Promenade Deck</td>
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<tr>
<td>12:45 PM</td>
<td>1:30 PM</td>
<td>Dessert Break • Visit the EXPO Lounge - Pacifica 7</td>
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<tr>
<td>1:30 PM</td>
<td>1:50 PM</td>
<td>CCT02 Fast Focus: DIY - Make A Kubernetes Cluster with Inexpensive Devices - Rockford Lhotka</td>
</tr>
<tr>
<td>2:00 PM</td>
<td>2:20 PM</td>
<td>CCT03 Fast Focus: GitHub Actions and Workflow Patterns - Mike Benkovich</td>
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</table>

Sessions and speakers subject to change.
<table>
<thead>
<tr>
<th>DevOps in the Spotlight</th>
<th>Cloud, Containers and Microservices</th>
<th>AI, Data and Machine Learning</th>
<th>Developing New Experiences</th>
<th>Delivery and Deployment</th>
<th>.NET Core and More</th>
<th>Full Stack Web Development</th>
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### Cloud & Containers Live! Day 1: Tuesday, November 15, 2022 (Continued)

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<tr>
<th>START TIME</th>
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<tbody>
<tr>
<td>2:20 PM</td>
<td>2:45 PM</td>
<td>Networking Break • Visit the EXPO Lounge - Pacifica 7</td>
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<tr>
<td>2:45 PM</td>
<td>4:00 PM</td>
<td>CCT04 - To Be Announced</td>
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<tr>
<td>4:15 PM</td>
<td>5:30 PM</td>
<td>CCT05 - To Microservice or Not to Microservice? How?</td>
</tr>
<tr>
<td>5:30 PM</td>
<td>7:00 PM</td>
<td>Exhibitor Welcome Reception - Pacifica 7</td>
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### Cloud & Containers Live! Day 2: Wednesday, November 16, 2022

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<tr>
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<td>Registration • Coffee and Morning Pastries</td>
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<tr>
<td>8:00 AM</td>
<td>9:15 AM</td>
<td>CCW01 - Permit to Cloud - Land with confidence in Azure</td>
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<tr>
<td>9:30 AM</td>
<td>10:45 AM</td>
<td>CCW02 - Level-up Your DevOps with GitHub Actions and Kubernetes</td>
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<tr>
<td>10:45 AM</td>
<td>11:30 AM</td>
<td>Networking Break • Visit the EXPO Lounge - Pacifica 7</td>
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<tr>
<td>11:30 AM</td>
<td>12:30 PM</td>
<td>LIVE! 360 KEYNOTE: Leadership Is a Journey - Pacifica 6</td>
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<tr>
<td>12:30 PM</td>
<td>1:30 PM</td>
<td>Table Topics Lunch</td>
</tr>
<tr>
<td>1:30 PM</td>
<td>2:00 PM</td>
<td>Dessert Break • Visit the EXPO Lounge - Pacifica 7</td>
</tr>
<tr>
<td>2:00 PM</td>
<td>3:15 PM</td>
<td>CCW03 - Microservice Solution With Serverless Functions and Serverless Containers – Pros and Cons</td>
</tr>
<tr>
<td>3:15 PM</td>
<td>4:00 PM</td>
<td>Networking Break • Visit the EXPO Lounge - Expo Raffle @ 3:30 p.m. - Pacifica 7</td>
</tr>
<tr>
<td>4:00 PM</td>
<td>5:15 PM</td>
<td>CCW04 - Building Applications with Azure Active Directory B2C</td>
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<tr>
<td>7:30 PM</td>
<td>9:00 PM</td>
<td>Live! 360 Dessert Luau - Wantilan Pavilion</td>
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Sessions and speakers subject to change.
### Cloud & Containers Live! Day 3: Thursday, November 17, 2022

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<tr>
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<td>8:00 AM</td>
<td>Registration • Coffee and Morning Pastries</td>
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<tr>
<td>8:00 AM</td>
<td>9:15 AM</td>
<td>CCTH01 Choosing from the Many Ways to Docker in Azure - Rob Richardson</td>
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<tr>
<td>9:30 AM</td>
<td>10:45 AM</td>
<td>CCTH02 Designing and Developing Great APIs - Eric D. Boyd</td>
</tr>
<tr>
<td>11:00 AM</td>
<td>12:00 PM</td>
<td>CLOUD &amp; CONTAINERS LIVE! PANEL DISCUSSION: Cloud is Mainstream, What’s Next? Rockford Lhotka (moderator), Mike Benkovich, Eric D. Boyd, Tony Champion, &amp; Ted Neward</td>
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<tr>
<td>12:00 PM</td>
<td>1:00 PM</td>
<td>Lunch</td>
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<tr>
<td>1:00 PM</td>
<td>2:15 PM</td>
<td>CCTH03 Storage Strategies in Microsoft Azure - Eric D. Boyd</td>
</tr>
<tr>
<td>2:30 PM</td>
<td>3:45 PM</td>
<td>CCTH04 Busy .NET Developer’s Guide to Orleans - Ted Neward</td>
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<tr>
<td>4:00 PM</td>
<td>5:00 PM</td>
<td>Next? Live! 360 Networking Event • Pacifica 7 Bill Ayers, Bradley Ball, Prashant G Bhoyar, Eric D. Boyd, Andrew Brust, Priscilla Camp, Benjamin Day, Colin Dembovsky, Angela Dugan, Allan Hirt, Veronika Kolesnikova, Sami Laiho, Thomas LoRock, Rockford Lhotka, Karen Lopez, Ted Neward, Jörgen Nielsen, Ronni Pedersen, Nestori Syyntimao, &amp; Geert van der Cruijsen</td>
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### Cloud & Containers Live! Post-Conference Workshops: Friday, November 18, 2022

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<td>8:00 AM</td>
<td>Registration • Coffee and Morning Pastries</td>
</tr>
<tr>
<td>8:00 AM</td>
<td>5:00 PM</td>
<td>CCF01 Workshop: Developing Modern Web Apps with Azure - Eric D. Boyd</td>
</tr>
</tbody>
</table>

Sessions and speakers subject to change.
CLOUD & CONTAINERS LIVE! SESSION DESCRIPTIONS BY TRACK

FULL DAY HANDS-ON LABS
This instructor-led, pre-conference Hands-On Lab offer attendees intensive in-depth training before the conference officially begins. Take advantage of in-person instruction as well as collaboration with peers.

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

Hands-On Lab: Doing Kubernetes DevOps style
Introductory / Intermediate
ROY CORNELISSEN & ALEX THISSEN
Sunday, November 13, 9:00am - 6:00pm
This hands-on training introduces you to Docker and container technology for DevOps teams. We will show you how to apply DevOps practices to cloud-based container solutions, complete with hands-on exercises using Kubernetes. The training uses Microsoft tooling and technology, but the skills you will learn can be applied in any technology stack.

This workshop contains hands-on labs to help you gain practical experience with the following topics:
- Getting started with containers and Docker
- Working with Kubernetes
- Azure DevOps pipelines
- Canary releases and A/B testing using a service mesh

Objectives:
- Automate everything from infrastructure to deployment
- Get hands-on experience supporting DevOps practices with available tools.
- Understand the implications for DevOps teams to build, deploy and run container based solutions in a cloud environment.
- Practice finding and fixing bugs without downtime

You will learn:
- About getting started with containers, Docker and Kubernetes
- About Canary releases and A/B testing using a service mesh
- About finding and fixing bugs without downtime

Attendee Requirements:
You must provide your own laptop computer (Windows or Mac) for this hands-on lab.

All other laptop requirements will be provided to attendees 2 weeks prior to the conference.

WORKSHOPS
Choose from a wide range of content and topics by expert presenters with Cloud & Containers Live! Orlando’s Pre- and Post-Conference full-day workshops.

Hand-On Workshop: Learn to Build and Run Cloud-Native .NET Code
Intermediate
ROCKFORD LHOTKA
Monday, November 14, 8:30am - 5:30pm
In this hands-on lab, you will learn how to design and build cloud-native software, how to deploy the code to containers, and how to run your containers in Docker and Kubernetes (k8s).

Target audience:
This training is intended for developers and architects that want to learn about DevOps practices and tooling for a cloud-based Kubernetes solution.

This workshop is divided into lecture with separate labs and allows you to start at any point given your experience. Throughout the workshop you will gradually improve your DevOps skills for container based solutions.

All courseware is on GitHub, so you can both prepare for the workshop ahead of time and finish the workshop from home if you are unable to finish the labs during the workshop.

You will learn:
- How to install Docker and Kubernetes locally
- How to build .NET services that deploy to k8s
- How to implement a microservice-based app with a Blazor front-end

Attendee Requirements:
You must provide your own laptop computer (Windows or Mac) for this hands-on lab.

All other laptop requirements will be provided to attendees 2 weeks prior to the conference.

Workshop: Developing Modern Web Apps with Azure
Introductory / Intermediate
ERIC D. BOYD
Friday, November 18, 8:00am - 5:00pm
Modern web apps typically consist of web front-ends, web APIs and background jobs, and these all need to be secured with modern identity protocols. These modern web apps typically store data in multiple data platforms including relational databases like SQL Server, NoSql JSON document databases, and files. And we ultimately want to provide great experiences and solutions that our users love to use.

Microsoft Azure enables these modern web apps by providing lots of data centers around the world, a huge collection of services that enable robust capabilities in your web apps, and a developer-friendly environment that makes it easy for you to create, deploy and manage your web apps.

Along the way, you will learn how to install and interact with Docker on your local workstation and in Microsoft Azure. Building on that, you will learn how to install and use k8s on your local workstation.

Using that infrastructure, you will learn how to build microservices and n-tier services in .NET 5 and apps in Visual Studio using web APIs, and message-based services. The back-end services will follow cloud-native best practices around microservice and message-based/event-based architecture, 12-factor design. You’ll learn how to avoid the fallacies of distributed computing, and more.

You will also build a client-side Blazor app that can run on any device with a modern browser. This app will make use of the backend services running in containers.

You will learn:
- How to install Docker and Kubernetes locally
- How to build .NET 5 services that deploy to k8s
- How to implement a microservice-based app with a Blazor front-end
In this workshop, you will walk through building a modern web app using platform as a service (PaaS), software as a service (SaaS), serverless capabilities, containers, and microservices architectures in Azure. You will learn how to do background processing without needing to manage servers and virtual machines. And you will learn how to build and manage robust APIs. Throughout the development of the application, we will provision services and deploy in Azure, and you will learn to think about DevOps early on using tools like Azure DevOps, GitHub Actions, Azure Resource Manager, and Bicep templates.

Next, we will enable modern identity in our application using OpenId Connect and OAuth 2.0 with Azure Active Directory. We will explore both the enterprise scenarios using AAD B2B, and we will also consider the consumer scenarios using AAD B2C. In addition to getting information about a user via security claims, you will learn how to interrogate the Azure Active Directory Graph API to get additional information. In addition to Azure Active Directory, we will explore alternatives like IdentityServer.

Then, we will integrate data into our application using various data services like Azure SQL Database, Storage and Cosmos DB. Lastly, we will optimize user experience, performance and availability by using application-level caching, edge routing using Azure Traffic Manager, and edge caching using Azure CDN. And we will explore security and disaster recovery in Azure.

Before we conclude, we will also consider adding further capabilities including search and AI using services like Azure Search, Cognitive Services and Azure Bot Service.

You will learn:
- About developing distributed solutions for the cloud and Azure
- About getting started developing solutions using Azure PaaS compute and data services
- How to secure, scale, and enhance user experience with Azure

**CLOUD-NATIVE DEVELOPMENT**

Cloud-native computing has become the standard for software development. Running server-side software in a container has become common, and orchestrating containers in Azure, AWS, and Kubernetes (aka k8s) are having a large impact on software architecture and deployment. This is perhaps most clear when thinking about microservice software architectures and how they can be used to leverage cloud- and container-based environments. It is hard to imagine any enterprise development scenario where one or more of these trends would not be high on the list of critical skills.

You’ll find coverage of:
- Cloud-native architecture options and concepts
- Modernizing your compute loads
- Microservices or not microservices?
- Implementing microservice with serverless functions and containers
- Designing and developing great APIs

**CCT01**

*From Core to Containers to Orchestration - Modernizing My Compute*

*Introductory / Intermediate*

MIKE BENKOVICH

Tuesday, November 15, 9:15 - 10:30am

You will learn:
- About containerization and why you should care
- How to deliver containers into production
- About orchestration and how to get started

**CCT04**

*To Be Announced*

Tuesday, November 15, 2:45 - 4:00pm

**CCT05**

*To Microservice or Not to Microservice? How?*

Introductory

ALON FLIESS

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

You will learn:
- About Microservices
- Dos and don'ts when embracing the Microservices approach
- About migrating your solution to Microservices – Evolution vs. Revolution

**CCW03**

*Microservice Solution With Serverless Functions and Serverless Containers – Pros and Cons*

Advanced

ALON FLIESS

Wednesday, November 16, 2:00 - 3:15pm

You will learn:
- About using Azure Functions/Dapr binding for Cloud resource connectivity
- About using Automapper/Json to ease sharing contracts and not code
CCW04
Building Applications with Azure Active Directory B2C
Introductory / Intermediate
TONY CHAMPION
Wednesday, November 16, 4:00 - 5:15pm
You will learn:
• About Azure AD B2C and its fundamentals
• How to customize Azure AD B2C including branding, user flows, and custom data fields
• How to implement Azure AD B2C authentication into applications, SPAs, and APIs

CCTH02
Designing and Developing Great APIs
Introductory / Intermediate
ERIC D. BOYD
Thursday, November 17, 9:30 - 10:45
You will learn:
• How to design and develop maintainable APIs
• How to prototype, test, and consume APIs
• How to operationalize and manage APIs

CCTH04
Busy .NET Developer’s Guide to Orleans
Intermediate
TED NEWARD
Thursday, November 17, 2:30 - 3:45pm
You will learn:
• How to talk about distributed systems
• About Orleans
• Why an actor-based model scales very well

CLOUD-NATIVE DEVOPS
Cloud-native software and infrastructure can’t succeed without a solid DevOps process and related technologies. Microservice architectures mean you are deploying at least an order of magnitude more apps than ever before. Cloud-native runtimes like Kubernetes require a whole new set of monitoring and management technologies, which ideally feed back into automated adjustments of the runtime environment.

This track includes coverage of the following:
• Doing Kubernetes DevOps style
• GitHub Actions and workflow patterns
• Landing with confidence in Azure

CCW02
Level-up Your DevOps with GitHub Actions and Kubernetes
Introductory / Intermediate
ROB RICHARDSON
Wednesday, November 16, 9:30 - 10:45am
You will learn:
• How to build a Dockerfile for a .NET project
• How to build a GitHub Actions DevOps pipeline

CCT03
Fast Focus: GitHub Actions and Workflow Patterns
Intermediate
MIKE BENKOVICH
Tuesday, November 15, 2:00 - 2:20pm
You will learn:
• How to get started with GitHub Workflow and Actions
• About using Variables and Expressions in Workflow
• About extending actions with the marketplace

CCW01
Permit to Cloud - Land with Confidence in Azure
Introductory / Intermediate
MIKE BENKOVICH
Wednesday, November 16, 8:00 - 9:15am
You will learn:
• What do I need to know to get started with Azure?
• How to make my deployments repeatable and predictable
• How to use templates to streamline my deployments
CLOUD & CONTAINERS LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

CLOUD-NATIVE INFRASTRUCTURE

Cloud-native has a major impact on traditional infrastructure roles and skillsets. Where servers used to be treated like unique individuals, they are now commodity resources that should all be identical (at least within a class). Cattle, not pets. This means rethinking a lot of process and management of hardware, operating systems, monitoring, and many other aspects of enterprise infrastructure.

This track includes coverage of the following:
- All the ways to run containers in Azure
- Cloud storage strategies in Azure
- Building a Kubernetes cluster by hand

CCTH03

Storage Strategies in Microsoft Azure
Introductory / Intermediate
ERIC D. BOYD
Thursday, November 17, 1:00 – 2:15pm
You will learn:
- About the data services in Azure
- How to choose the best data services(s) for your solution
- About getting started developing solutions with Azure data services

Fast Focus: DIY - Make A Kubernetes Cluster with Inexpensive Devices
Introductory / Intermediate
ROCKFORD LHOTKA
Tuesday, November 15, 1:30 – 1:50pm
Join Rockford Lhotka as he talks about how he assembled a multi-node cluster, got 64 bit Ubuntu set up, and installed Kubernetes with microk8s, all for less than the cost of a low-end laptop.

Choosing from the Many Ways to Docker in Azure
Intermediate
ROB RICHARDSON
Thursday, November 17, 8:00 – 9:15am
You will learn:
- How to use containers in Azure
- Which Azure computing service you should use and when
- The pros & cons of each Azure container compute platform

“The speakers were very friendly and engaging and easy to talk to after sessions!”
– Isaac Zinman, 2021 Live! 360 Attendee
CLOUD & CONTAINERS LIVE! SPEAKERS

CONFERENCE CHAIR

Rockford Lhotka
Chief Software Architect, Marimer LLC
Cloud & Containers Live! Conference Co-Chair

SPEAKERS

Mike Benkovich
Developer, Business Owner, Consultant, Cloud Architect, Microsoft Azure MVP and an Online Instructor

Eric D. Boyd
Founder and CEO, responsiveX

Tony Champion
President, Champion DS

Roy Cornelissen
Lead Consultant, Xpirit

Alon Fliess
Chief Architect, CodeValue

Rockford Lhotka
Chief Software Architect, Marimer LLC

Ted Neward
Co-founder, Solidify/US

Rob Richardson

Alex Thissen
Architect, Lead Developer, and Mentor

Paul Yuknewicz
Lead Product Manager, Azure Developer Platform and Frameworks, Microsoft
PARTNER, SPONSORS & EXHIBITOR

EVENT PARTNER

Microsoft

Founded in 1975, Microsoft (Nasdaq "MSFT") is the worldwide leader in software, services and Internet technologies for personal and business computing. Microsoft offers a wide range of innovative products and services designed to help individuals and organizations realize their full potential. [www.microsoft.com](http://www.microsoft.com)

PLATINUM SPONSORS

SolarWinds

SolarWinds (NYSE:SWI) is a leading provider of simple, powerful, and secure IT management software. Our solutions give organizations worldwide—regardless of type, size, or complexity—the power to accelerate business transformation in today’s hybrid IT environments. We continuously engage with technology professionals—IT service and operations professionals, DevOps and SecOps professionals, and Database Administrators (DBAs) – to understand the challenges they face in maintaining high-performing and highly available IT infrastructures, applications, and environments. The insights we gain from them, in places like our THWACK community, allow us to address customers’ needs now, and in the future. Our focus on the user and commitment to excellence in end-to-end hybrid IT management has established SolarWinds as a worldwide leader in solutions for observability, IT service management, application performance, and database management. Learn more today at [www.solarwinds.com](http://www.solarwinds.com).

Vonage

Vonage has everything you need to build connected applications with their APIs for SMS, Voice, Video, Verify and more. Whether you want to make and receive phone calls with code, reach users by the messaging platforms they prefer or ensure that users provide the correct contact details, they’ve got you covered. Easily integrate with social chat apps such as Facebook Messenger, WhatsApp and Viber, or build in-app voice and messaging experience on mobile and web. Vonage has quick solutions made easy for you. [www.vonage.com](http://www.vonage.com)

Please check [live360events.com/orlando](http://live360events.com/orlando) for the growing list of sponsors and partners for the event.
PARTNER, SPONSORS & EXHIBITOR (continued)

GOLD SPONSORS

Kontent.ai

Your content. Better, faster, at scale. Kontent.ai is the modular content platform that enables marketers and developers to plan, create, and deliver experiences that look and feel great on any channel. The intuitive authoring experience helps marketers plan, create, and manage content, while developers enjoy the total flexibility of the headless solution. https://kontent.ai/

Progress

Progress (NASDAQ: PRGS) provides the best products to develop, deploy and manage high-impact business applications. Our comprehensive product stack is designed to make technology teams more productive and we have a deep commitment to the developer community, both open source and commercial alike. Progress customers can accelerate the creation and delivery of strategic business applications, automate the process by which apps are configured, deployed and scaled, and make critical data and content more accessible and secure—leading to competitive differentiation and business success. More than 1,700 software vendors, 100,000+ enterprise customers and a three-million-strong developer community rely on Progress to power their applications. https://www.progress.com/

EXHIBITOR

GrapeCity

GrapeCity’s family of products provides developers, designers, and architects with the ultimate collection of easy-to-use tools for building modern, high-performance, apps. With 30+ years of experience, our experts anticipate the needs of the market and offer the industry’s best support. Our collection includes spreadsheets and reporting tools, grids, charts, and UI components for .NET, JavaScript, and Java enterprise apps. Our embedded BI platform provides system integrators and ISVs with a fully customizable, end-to-end BI platform. Our lightweight server architecture offers flexible deployment and integration options within any web application.

GrapeCity is an award-winning Microsoft Gold Certified Partner. Learn more grapecity.com.

Tenzing

Tenzing is a platform that bridges the divide between business strategy and software development. Project management tools are good at showing what your team must accomplish, but not for showing why. Tenzing seamlessly integrates with your existing project management software to create business alignment, quantify change as projects evolve, enable objective decision making, and strengthen trust within your organization.

Visit https://tenzing.team to request a live demonstration and learn how Tenzing bridges the divide between business strategy and software development.
CONFERENCE VENUE, HOTEL DEALS & TRAVEL

HOTEL INFORMATION
The Loews Royal Pacific Resort Conference Center is located in the middle of Orlando's best Universal Orlando resorts. The Cabana Bay Beach Resort is just a short shuttle ride away from Universal's two amazing theme parks, Universal Studios Florida® and Universal's Islands of Adventure®, and Universal CityWalk®. This well-situated property makes visiting this sunny locale easy.

CABANA BAY BEACH RESORT
6550 Adventure Way
Orlando, Florida, 32819
Special attendee rate: $114.00*
Book by: October 21, 2022
Reservations: 866.360.7395
To make your hotel reservation, please book online or call Reservations at 866.360.7395 and ask for the Live! 360 Room Block.
Rooms at Universal's Cabana Bay Beach in the Live! 360 Room Block also include the following:
• Complimentary in-room internet connectivity**
• Complimentary use of the fitness center
• Exclusive Universal Orlando theme park benefits - Click here for more details
• Discounted self-parking rate of $12 per vehicle per day

**Rooms are subject to availability and applicable sales and local taxes, so book your accommodations today.
**Premium wireless access is complimentary for up to 4 devices per room for a 24-hour period 1pm to 1pm.

CONFERENCE LOCATION
Loews Royal Pacific Resort
6300 Hollywood Way
Orlando, Florida, 32819

CONFERENCE + HOTEL PACKAGE
If you add the hotel Hotel Package when registering, a hotel room at the Cabana Bay Beach Resort. The conference center where the event is being held is located a short walk from the Cabana Bay.

FOR THE MOST UP-TO-DATE HOTEL OPTIONS, VISIT THE LIVE! 360 TRAVEL PAGE.

REGISTER NOW AT LIVE360EVENTS.COM/ORLANDO
TRAVEL

CAR RENTAL DISCOUNTS
Avis Rent-a-Car is offering a discount on car rental for Live! 360 Orlando attendees. To receive the discounted rates, call Avis at 800.331.1600 and use the Avis Worldwide Discount (AWD) number D005872, or click here to make your reservation online.

AIRPORT TRANSPORTATION
(ORLANDO INTERNATIONAL AIRPORT)
Loews Hotels at Universal Orlando do not provide airport transportation, but there are several options:
Mears Transportation: 800.759.5219
Mears provides convenient and affordable transportation between the Orlando International Airport and both Loews Royal Pacific Resort and Loews Sapphire Falls Resort. One way fares start at $18. This is a shuttle service that will have other stops along the way. Mears can also assist with sedan reservations or advance taxi reservations.
Taxi: One way fares from Orlando International Airport (MCO) average $45-$50

PARKING
Loews Royal Pacific Resort & Loews Sapphire Falls Resort Self or valet parking for Live! 360 attendees:
- Self-parking is $15.00* per day
- Valet parking is $23.00* per day
*Rates shown are discounted for Live! 360 attendees and subject to change without prior notice.

UNIVERSAL ORLANDO® THEME PARK TICKET INFORMATION
Looking to relax and have some fun after a long day of learning? When you stay with us at the Loews Royal Pacific Hotel, you’ll receive some great perks if you plan to head over to Universal Orlando® Theme Park - be sure to take advantage of everything our hotels have to offer!

Theme Park Tickets
Click here to purchase Universal Orlando® theme park tickets.

After 2pm Convention Tickets
Click here to purchase your after 2pm discounted tickets; or once you arrive and check in for Live! 360, you can show your conference badge at the Universal Orlando ticket desk in the lobby of either conference hotel and purchase after 2:00pm discounted tickets.

Note: you need a Universal Orlando® theme park “Park-to-Park” pass to ride the Hogwarts™Express train between the two parks to experience all of the Harry Potter™ magic and excitement.

DISCOVER ORLANDO AND THE UNIVERSAL ORLANDO AREAS
Visit orlandoinfo.com for information on places to visit and things to do in the Orlando area. You can also visit universalorlando.com/convention for more information on Universal Orlando® Resort.

COVID HEALTH AND SAFETY PROTOCOLS
Live! 360 is working closely with the Loews Royal Pacific Resort to provide a safe and healthy experience for all. Enhanced measures “may” be implemented following the guidance of the Centers for Disease Control and Prevention (CDC).

Everyone attending the event must agree to the Live! 360 COVID-19 Health Protocols during the registration process with the understanding that Live! 360 “may” require all attendees to pass a COVID Antigen Rapid Nasal test and wear a mask at the event.

Additionally, Live! 360 recommends all attendees, exhibitors, and staff comply with travel guidelines issued by the CDC when traveling to Orlando, FL. Additional COVID information and protocols will be posted on the event website closer to the event.

For questions, please contact the conference registrar at sross@converge360.com or 949.296.9840.

FOR MORE INFORMATION, VISIT: live360events.com/travel
CONFERENCE AND HOTEL PRICING PACKAGES

LIVE! 360 OFFERS SEVERAL CONFERENCE AND HOTEL PACKAGES to best suit your needs and budget. Register now to save your seat and book your hotel early before the hotel of your choice sells out!

Live! 360 offers five in-depth co-located technical conferences in one. When you purchase any Live! 360 6-Day, 5-Day, 4-Day, or 3-Day package, you can customize your conference experience by attending sessions at any of the five co-located events (Visual Studio Live!, SQL Server Live!, TechMentor, Artificial Intelligence Live!, and Cloud & Containers Live!) – all for one low price (just choose a “primary” conference when registering).

<table>
<thead>
<tr>
<th>CONFERENCE PACKAGES</th>
<th>SUMMER SPECIAL PRICING THROUGH AUGUST 12</th>
<th>SUPER EARLY BIRD PRICING THROUGH SEPTEMBER 23</th>
<th>EARLY BIRD PRICING THROUGH OCTOBER 21</th>
<th>STANDARD PRICING THROUGH NOVEMBER 13</th>
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<tbody>
<tr>
<td>6-DAY CONFERENCE PACKAGE + Full Day Hands-On Lab and Workshops Sunday - Friday</td>
<td>$3,075</td>
<td>$3,175</td>
<td>$3,275</td>
<td>$3,575</td>
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<tr>
<td>5 DAY CONFERENCE PACKAGE + Workshops Monday - Friday</td>
<td>$2,575</td>
<td>$2,675</td>
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<tr>
<td>4 DAY CONFERENCE PACKAGE + Monday OR Friday Workshop Monday - Thursday OR Tuesday - Friday</td>
<td>$2,075</td>
<td>$2,175</td>
<td>$2,275</td>
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<td>3 DAY CONFERENCE PACKAGE Tuesday - Thursday</td>
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expired | expired

REGISTER NOW AT LIVE360EVENTS.COM/ORLANDO
# Conference and Hotel Pricing Packages (continued)

## Conference Labs and Workshops

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<tbody>
<tr>
<td><strong>Full Day Hands-On Lab</strong>&lt;br&gt; Sunday Only</td>
<td>$650</td>
<td>$650</td>
<td>$700</td>
<td>$750</td>
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<tr>
<td><strong>Full Day Workshop Pass</strong>&lt;br&gt; Monday OR Friday</td>
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## Add the Hotel Package

If you add the Hotel Package when registering, a hotel room at the Cabana Bay Beach Resort will be reserved for you.

<table>
<thead>
<tr>
<th>Hotel Package Type</th>
<th>Price</th>
<th>Check In Date</th>
<th>Check Out Date</th>
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<tbody>
<tr>
<td><strong>6 Day Hotel Package</strong></td>
<td>$775</td>
<td>Saturday, November 12</td>
<td>Friday, November 18</td>
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<tr>
<td><strong>5 Day Hotel Package</strong></td>
<td>$650</td>
<td>Sunday, November 13</td>
<td>Friday, November 18</td>
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<tr>
<td><strong>4 Day Hotel Package</strong></td>
<td>$525</td>
<td>Sunday, November 13</td>
<td>Friday, November 17 or Monday, November 14</td>
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<tr>
<td><strong>3 Day Hotel Package</strong></td>
<td>$400</td>
<td>Monday, November 14</td>
<td>Thursday, November 17</td>
</tr>
</tbody>
</table>

*The Hotel Package includes applicable state, local and occupancy taxes.*
DISCOUNTS & SPECIAL SAVINGS

TEAM DISCOUNTS: BRING THE TEAM AND SAVE BIG!

Live! 360 Orlando offers savings to teams of 3 or more from the same company and registering for the same package (Team Discount pricing below is “per attendee”).

Looking to bring 10 or more? Contact our Conference Registrar Sara Ross at sross@converge360.com or at 949.296.9840.

<table>
<thead>
<tr>
<th>TEAM PACKAGES</th>
<th>SUMMER SPECIAL PRICING THROUGH AUGUST 12</th>
<th>SUPER EARLY BIRD PRICING THROUGH SEPTEMBER 23</th>
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<th>STANDARD PRICING THROUGH NOVEMBER 13</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-DAY CONFERENCE PACKAGE + Full Day Hands-On Lab and Workshops Sunday - Friday</td>
<td>$2,775</td>
<td>$2,875</td>
<td>$2,975</td>
<td>$3,275</td>
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<tr>
<td>5 DAY CONFERENCE PACKAGE + Workshops Monday - Friday</td>
<td>$2,275</td>
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<tr>
<td>4 DAY CONFERENCE PACKAGE + Monday OR Friday Workshop Monday - Thursday OR Tuesday - Friday</td>
<td>$1,775</td>
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<td>$1,975</td>
<td>$2,275</td>
</tr>
</tbody>
</table>

MORE DISCOUNTS

ALUMNI
Welcome back! If you have attended any Live! 360, Visual Studio Live! or TechMentor event, you qualify for our special alumni discount. You should receive alumni special promotions, but if not, please contact our Conference Registrar Sara Ross at sross@converge360.com or 949.296.9840.

EDUCATION
We offer full-time college students and faculty from accredited universities a discount. To receive this discount, please contact our Conference Registrar Sara Ross at sross@converge360.com or 949.296.9840. Subject to Live! 360 verification.

NEW DEVELOPER
If you are a new Developer (or new to the Microsoft Platform) with less than three years of experience, you are eligible for $600 off of our full price conference registration to help accelerate your career. Use Promo Code NDD. Subject to Live! 360 verification.

GOVERNMENT/ NON-PROFIT
Employees of a national, federal, state, provincial, or local government entity are eligible to take advantage of our discount. To receive this discount, please contact our Conference Registrar Sara Ross at sross@converge360.com or 949.296.9840. Subject to Live! 360 verification.