LIVE! 360
TECH EVENTS WITH PERSPECTIVE

The Ultimate Education Destination

ORLANDO 2024
NOVEMBER 17-22, 2024

LOEWS ROYAL PACIFIC RESORT, ORLANDO, FL

Visual Studio LIVE!
EXPERT SOLUTIONS FOR ENTERPRISE DEVELOPERS

Data Platform LIVE!
INSIGHTS FOR MANAGING YOUR DATA ESTATE

TECHMENTOR
IN-DEPTH TRAINING FOR IT PROS

Cloud & Containers LIVE!
CLOUD-NATIVE, PAAS & SERVERLESS COMPUTING

Artificial Intelligence LIVE!
AI FOR DEVELOPERS AND DATA SCIENTISTS

Cybersecurity & Ransomware LIVE!
DEFENDING AGAINST RANSOMWARE AND OTHER ATTACKS

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WHAT IS LIVE! 360?

The Ultimate Education Destination
6 Great Events, 1 Low Price!

Live! 360 brings the IT, Developer, Data, and Cybersecurity communities together for real-world, practical information and training on a wide range of Microsoft and other products, technologies, and solutions. Plus, Live! 360 brings 6 co-located conferences together, featuring expert education, training, knowledge transfer, and networking, enabling you to create your own custom conference choosing from over 200+ sessions and 25+ hands-on labs and in-depth workshops to best suit your needs.

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

Choose the ultimate education destination: Live! 360.

Attendees of any of the Live! 360 events will have unlimited access to all six co-located conferences – mix and match sessions to create a custom conference!

Visual Studio LIVE!
EXPERT SOLUTIONS FOR ENTERPRISE DEVELOPERS

Visual Studio Live! features unbiased and practical development training on the Microsoft Platform. Come join us and code in paradise!

Data Platform LIVE!
INSIGHTS FOR MANAGING YOUR DATA ESTATE

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

TECHMENTOR
IN-DEPTH TRAINING FOR IT PROS

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

Artificial Intelligence LIVE!
AI FOR DEVELOPERS AND DATA SCIENTISTS

Artificial Intelligence Live! is a pivotal gathering for AI developers and data scientists. This conference is at the forefront of AI innovation, showcasing the latest in generative AI, large language models (LLMs), machine learning, and beyond.

Cloud & Containers LIVE!
CLOUD-NATIVE, PAAS & SERVERLESS COMPUTING

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.

Cybersecurity & Ransomware LIVE!
DEFENDING AGAINST RANSOMWARE AND OTHER ATTACKS

Cybersecurity & Ransomware Live! will bring together some of the best content and speakers on Cybersecurity worldwide to help guide attendees in Architecture/Design, Deployment, Operationalization, and Certification.

Top Reasons
TO ATTEND LIVE! 360 2024

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 Universal Studios and Orlando has to offer.

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 10 options to choose from. Bring your laptop and learn by doing. (Additional fees apply, see pricing page for details).

MAKE THE CONFERENCE YOUR OWN. Mix and match sessions and workshops from any of the six events to best serve your needs. Because of the convenient co-location, there will be even more opportunities to access 200+ sessions, 85+ 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.

CONTENT FOR (ALMOST) EVERY TITLE. These forward-thinking and educational events are geared toward 8 general job roles: Agile, Data Professionals, DevOps, Developers, IT Leadership, IT Pros, Security Professionals, Database Admins. 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 a SQL Server DBA looking to maintain, tune and consolidate, the agendas are crafted for (almost) every IT title.

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

LIVE! 360
TECH EVENTS WITH PERSPECTIVE

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 18, 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.

EXHIBITOR WELCOME RECEPTION & LIVE! 360 PLINKO
Tuesday, November 19, 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 your daily life when you return to the office.

Returning again @ Live! 360 – Live! 360 Plinko! Come on down and experience the thrill of Live! 360 Plinko! Win the chance to drop a chip down the Plinko board and see how much cash you can win. Attendees who collect stamps from every exhibitor on their expo raffle card during the reception and turn it in at the Plinko table before 6:45pm will be entered into a drawing to play. Six (6) attendees

will be chosen at random to try their luck at Plinko during the reception - stay until the end or you might miss your chance to play!

WEDNESDAY TABLE TOPIC LUNCH
Wednesday, November 20, 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 DESSERT LUAU
Wednesday, November 20, 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.

LIVE! 360 KEYNOTES

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:
To Be Announced
Tuesday, November 19, 11:00am - 12:00pm

Mads Kristensen
Principal Product Manager, Microsoft

Details coming soon.

LIVE! 360 WEDNESDAY KEYNOTE:
The Future of IT
Wednesday, November 20, 11:30am - 12:30pm

Marcel de Vries
*Global MD & CTO,
Xebia*

What is the future of IT? That is a fascinating question to ask, but extremely hard to answer. Confucius said: "you need to study the past to define the future." So let's ask ourselves the question first, what has changed our industry in the past decades? To simplify things, let us take the perspective of writing software and see what has changed. As Marc Andreessen described in his article in The Wall Street Journal in 2011: "Software is eating the world," and by looking at software, we might be able to see what is changing the most and see what lies ahead of us. Nowadays, software is everywhere. It is not only at the places you expect it, like your laptop computer or your iPad, but it is in our cars, our refrigerators, the toys we buy for our kids, our home, our washing machine and, it sounds scary, even in your toilet in the future. So software is everywhere. But how do we build software? Has that changed significantly?

CONFERENCE KEYNOTES

Visual Studio LIVE!
EXPERT SOLUTIONS FOR ENTERPRISE DEVELOPERS

Cloud & Containers LIVE!
CLOUD-NATIVE, PAAS & SERVERLESS COMPUTING

Data Platform LIVE!
INSIGHTS FOR MANAGING YOUR DATA ESTATE

VISUAL STUDIO LIVE! & CLOUD & CONTAINERS LIVE! KEYNOTE:

The Cloud-Native, Run Anywhere Future of .NET 9 Is Here!

Tuesday, November 19, 8:00am - 9:00am

James Montemagno
Principal Lead Program Manager - Developer Community, Microsoft

Jon Galloway
Principal Product Manager

Rachel Kang
Product Manager, Microsoft

Details coming soon.

DATA PLATFORM LIVE! KEYNOTE

Secure, Unified, and Scalable Data in the Era of AI
Tuesday, November 19, 8:00am - 9:00am

Sanjay Mishra
Data and AI Product Leader, Microsoft

AI is transforming how we use data. Generative AI, data-driven applications, Copilots, and machine learning are the next generation of how data fuels business. In this session, you will learn how Microsoft Azure Data technologies provide secure, unified, and scalable platforms to build and manage data. We will cover the complete Azure Data stack, including Azure Databases, Microsoft Fabric, and Azure OpenAI. Whether you are a developer or an IT Professional, this session will apply to anyone attending Live 360, as we cover cloud, data, AI, and security topics and present the unified data story from Microsoft.

CONFERENCE KEYNOTES *(continued)*

TECHMENTOR KEYNOTE

Legacy Meets Innovation - Group Policy and Intune Together

Tuesday, November 19, 8:00am – 9:00am

Jeremy Moskowitz
Founder,
GPanswers.com & PolicyPak Software

In the ever-evolving world of IT, it's easy to get caught up in the hype of the latest and greatest tools. Your boss makes a deal on the golf course, and now you have to implement "this new cloud thing."

But let's not forget the stalwart technology that's been holding down the fort for years: Group Policy. In this engaging and insightful keynote, "Legacy Meets Innovation: Group Policy and Intune Together," learn from Jeremy Moskowitz, 19-Time Microsoft MVP in Group Policy & Enterprise Mobility of MDMandGPanswers.com where you'll learn the dynamic relationship between Group Policy and Microsoft Intune.

The good news: Group Policy is far from obsolete. Instead, it's a powerful ally to Intune, creating a harmonious blend of old and new. But it still requires some upkeep, understanding, care to make sure it's running optimally. More good news: If you're working toward Intune, you'll learn where Intune picks up where GPOs leave off (and where it needs some helping hands.)

And, we'll answer the age-old question: Can they work together? (Spoiler alert: It's complicated!)

Whether you're a seasoned Group Policy guru or an Intune enthusiast, this session is packed with insights and considerations to help you make "Endpoint peace" in your world.

ARTIFICIAL INTELLIGENCE LIVE! KEYNOTE

To Be Announced

Tuesday, November 19, 8:00am – 9:00am

Steve Sanderson
Developer / Architect, .NET team, Microsoft

Details coming soon.

CONFERENCE KEYNOTES *(continued)*

CYBERSECURITY & RANSOMWARE LIVE! KEYNOTE

Forward to the Past and Back to the Future – Cybersecurity in 2024 and Beyond

Tuesday, November 19, 8:00am – 9:00am

Sami Laiho
Chief Research Officer, Adminize

Join Sami Laiho, Chief Research Officer of Adminize, for a look back in to what 2023/2024 changed in the Security Threat Landscape and to hear his predictions on what the future will have in store for us.

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!
EXPERT SOLUTIONS FOR ENTERPRISE DEVELOPERS

VISUAL STUDIO LIVE! PANEL DISCUSSION:

Adapting Strategies - Navigating the Evolving Landscape of Networking and Interviewing in Tech
Thursday, November 21, 11:00am – 12:00pm

Angela Dugan (moderator)
Cloud Solution Architecture Manager, Microsoft

Chris Klug
Developer, Active Solution

Sara Caldwell
Business Agility Coach

Amber Vanderburg
Founder, Pathwayz Group

Networking, searching for career opportunities, and interviewing has been complicated by modern approaches and processes used by headhunters, recruiters, and hiring managers. This panel discussion will explore the dynamic nature of the tech job market and the need for professionals to continuously refine their approaches to how they network, how they present themselves in writing, and how they interview. Our experienced panel of technologists bring with them many perspectives including that of job seekers, hiring managers, coaches, and networkers. We'll cover skills, techniques, and strategies including:

• Remote Networking Techniques
• Soft Skills in Tech Interviews
• Utilizing Online Platforms and Communities
• Staying Updated on Industry Trends
• Building Relationships with Recruiters and Hiring Managers
• Handling Rejection and Learning from Setbacks

Data Platform LIVE!
INSIGHTS FOR MANAGING YOUR DATA ESTATE

DATA PLATFORM LIVE! PANEL DISCUSSION:

The Data Professional's Lament
Thursday, November 21, 11:00am – 12:00pm

Thomas LaRock [moderator]
Manager, Data Engineering, BlackLine

Allan Hirt
Founder and Managing Partner, SQLHA, LLC

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

Meagan Longoria
Data & Analytics Consultant, Denny Cherry & Associates Consulting

The data estate grows at a faster pace than anyone can keep up with. This spirited panel discussion will cover many challenges faced by data professionals today. Hosted by Thomas LaRock, panelists will discuss how to best balance idealistic expectations of data-driven decision-making and the pragmatic realities when working with data. Discussions will cover a variety of topics including the under-appreciated complexities of data collection, the ethical quandaries of data privacy, and the pressures to deliver actionable insights amidst the noise of big data and AI.

Attend this panel session and learn to navigate the challenges, leading to both personal and professional growth. Join us as we lament, learn, and look forward to the future with an open and engaging dialogue.

PANEL DISCUSSIONS *(continued)*

TECHMENTOR PANEL DISCUSSION:

We Got Hacked, What Does the Recovery Process Look Like?

Thursday, November 21, 11:00am – 12:00pm

Dave Kawula [moderator]
Principal Consultant, TriCon Elite Consulting

John O'Neill Sr.
Chief Technologist, AWS Solutions

Karinne Bessette
Technologist, Product Strategy Team, Veeam

Jan Ketil Skanke
COO & Principal Cloud Architect, Cloudway

Kevin Kaminski
Consultant

This TechMentor panel discussion will delve into the multifaceted journey of recovering from a cyberattack. We will bring together industry experts to explore critical steps and strategies for effective incident response, including immediate containment measures, forensic analysis, and the restoration of compromised systems. Join us to gain insights into the importance of clear communication with stakeholders, legal and regulatory considerations, and the implementation of robust security measures to prevent future breaches. The discussion will also highlight real-world case studies, providing a comprehensive roadmap for organizations to navigate the complex terrain of cyber recovery.

ARTIFICIAL INTELLIGENCE LIVE! PANEL DISCUSSION:

Are We Really Living in the Age of Democratized AI?

Thursday, November 21, 11:00am – 12:00pm

Brian A. Randell [moderator]
Staff Developer Advocate, GitHub

Marcel de Vries
Global MD & CTO, Xebia

Andrew Brust
CEO and Founder, Blue Badge Insights

Mickey Gousset
DevOps Architect, GitHub

Generative AI is all the rage, leading companies and governments to step up their investments in AI. But as we all race to embrace AI, one question is clear: do we have the tools and technology for all developers and organizations to embrace it? Are we really living in the age of democratized AI? In this panel, your Live! 360 presenters will discuss this topic with lively, interactive Q&A from the audience.

PANEL DISCUSSIONS *(continued)*

Cloud & Containers LIVE!
CLOUD-NATIVE, PAAS & SERVERLESS COMPUTING

Cybersecurity & Ransomware LIVE!
DEFENDING AGAINST RANSOMWARE AND OTHER ATTACKS

**CLOUD & CONTAINERS LIVE!
PANEL DISCUSSION:**

Making the Most of Your Cloud Resources
Thursday, November 21, 11:00am — 12:00pm

Rockford Lhotka [moderator]
VP of Strategy, Xebia

Carey Payette
Senior Software Engineer, Trillium Innovations

Chris Ayers
Sr. Customer Engineer, Microsoft

Dan Wahlin
Principal Cloud Developer Advocate, Microsoft

Join our panel of cloud experts to answer your questions on how to make the most of your cloud resources. Bring your questions for our experts!

Some ideas to get your imagination started: When should I use the cloud and not use the cloud? How do I determine the right cloud features to use to meet my needs? Should I lean into containers? Into Kubernetes? Why or why not? Do I really need to use 12 Factor concepts in my apps?

This is your opportunity to get unscripted answers from experts in cloud infrastructure, devops, and app dev.

**CYBERSECURITY & RANSOMWARE LIVE!
PANEL DISCUSSION:**

How Not to Get Hacked in 2024
Thursday, November 21, 11:00am — 12:00pm

Sami Laiho [moderator]
Chief Research Officer, Adminize

Steve LaBeau
Principal Systems Engineer, Principal Technology Solutions

Erica Burgess
Cybersecurity and AI Architect, Tyler Technologies

Marcos Nogueira
Chief Technology Officer, vCISO

Émile Cabot
Principal Consultant, TriCon Elite Consulting

Join our panel of world class Cybersecurity experts to learn about their views of the current threat landscape, most important steps in keeping your environment safe and about the future of Cybersecurity in general.

Conference Tracks

Visual Studio LIVE!
EXPERT SOLUTIONS FOR ENTERPRISE DEVELOPERS

- Modern Software Engineering
- Database Development
- Developing New Experiences
- Human Factors in Engineering
- The Core of .NET
- Full Stack Web Development

Data Platform LIVE!
INSIGHTS FOR MANAGING YOUR DATA ESTATES

- Business Intelligence
- Database Administration & Maintenance
- Database Development
- Data Management
- Data Lake, Lakehouse and Warehouse
- Database Performance Tuning and Optimization
- Streaming and Event Data Techniques
- Microsoft Fabric

TECHMENTOR
IN-DEPTH TRAINING FOR IT PROS

- Client and Endpoint Management
- PowerShell and DevOps
- Infrastructure
- Soft Skills for IT Pros
- Security
- Azure (Public/Hybrid)
- Office 365 for the IT Pro

Artificial Intelligence LIVE!
AI FOR DEVELOPERS AND DATA SCIENTISTS

- AI Application Development
- Generative AI
- ABCs Agents, Bots, & Copilots
- Responsible and Ethical AI
- Machine Learning
- Vision and Image

Cloud & Containers LIVE!
CLOUD-NATIVE, PAAS & SERVERLESS COMPUTING

- Cloud-Native Development
- Cloud-Native Infrastructure
- Cloud-Native DevOps

Cybersecurity & Ransomware LIVE!
DEFENDING AGAINST MODERN THREATS

- Ransomware Industry
- Incident Response
- Human Intelligence / Security for Dev's
- Red Team Tactics and Techniques
- Blue Team
- Purple Team

Full session grid spanning Sunday, November 17 through Friday, November 22, 2024, with pre-conference hands-on labs, keynotes, daily breakout sessions, and post-conference workshops for each of the six co-located conferences. Individual session titles, codes, and speakers are listed across each day's schedule.

LIVE! 360
TECH EVENTS WITH PERSPECTIVE

Visual Studio LIVE!
EXPERT SOLUTIONS FOR ENTERPRISE DEVELOPERS

ORLANDO 2024
ROYAL PACIFIC RESORT AT UNIVERSAL
NOVEMBER 17-22, 2024

Visual Studio® LIVE!
EXPERT SOLUTIONS FOR ENTERPRISE DEVELOPERS

AGENDA-AT-A-GLANCE

Modern Software Engineering	Database Development	Developing New Experiences	Human Factors in Engineering	The Core of .NET	Full Stack Web Development

START TIME	END TIME	Visual Studio Live! Pre-Conference Hands-On Labs: Sunday, November 17, 2024
7:00 AM	9:00 AM	Hands-On Lab Registration • Coffee and Morning Pastries
9:00 AM	6:00 PM	**VSHOL01** Hands-On Lab: Build an ASP.NET Core Razor Pages App With EF Core in a Day - *Philip Japikse* / **VSHOL02** Hands-On Lab: Build It Better With GitHub Copilot and GitHub Advanced Security - *Brian A. Randell & Mickey Gousset* / **VSHOL03** Hands-On Lab: Legacy Lift-off - Bringing Your Legacy .NET Application into the Modern Cloud and AI Age - *Marcel de Vries & Roy Cornelissen* / **VSHOL04** Hands-On Lab: .NET Aspire - *James Montemagno & Jon Galloway*
10:00 AM	7:00 PM	Pre-Conference Registration - *Royal Pacific Resort Conference Center*

START TIME	END TIME	Visual Studio Live! Pre-Conference Workshops: Monday, November 18, 2024
7:00 AM	8:30 AM	Registration • Coffee and Morning Pastries
8:30 AM	5:30 PM	**VSM01** Workshop: Microsoft Blazor Top to Bottom - *Jason Bock, Allen Conway & Rockford Lhotka* / **VSM02** Workshop: Design Thinking for Software Development Teams - *Billy Hollis* / **VSM03** Workshop: Mastering Human Factors - *Benjamin Day & Angela Dugan* / **VSM04** Workshop: .NET MAUI & Blazor Hybrid - *James Montemagno & Rachel Kang*
5:45 PM	6:15 PM	Live! 360 First Timers Forum: A New Attendees Guide
6:30 PM	8:00 PM	Mix & Mingle @ Hard Rock Café Universal CityWalk

START TIME	END TIME	Visual Studio Live! Day 1: Tuesday, November 19, 2024
7:00 AM	8:00 AM	Registration • Coffee and Morning Pastries
8:00 AM	9:00 AM	VISUAL STUDIO LIVE! & CLOUD & CONTAINERS LIVE! KEYNOTE: The Cloud-Native, Run Anywhere Future of .NET 9 Is Here! **James Montemagno**, Principal Lead Program Manager - Developer Community, **Jon Galloway**, Principal Product Manager, & **Rachel Kang**, Product Manager, Microsoft
9:15 AM	10:30 AM	**VST01** Building Websites With ASP.NET Core Razor Pages - *Philip Japikse* / **VST02** "Wouldn't It Be Cool" and Other Bad Design Approaches - *Billy Hollis* / **VST03** Get Good at DevOps: Feature Flag Deployments With ASP.NET & Web API - *Benjamin Day* / **VST04** Fear and (Self) Loathing in IT – A Healthy Discussion on Imposter Syndrome - *Angela Dugan*
10:30 AM	11:00 AM	Networking Break • Visit the EXPO Lounge - *Pacifica 7*
11:00 AM	12:00 PM	LIVE! 360 KEYNOTE: To Be Announced **Mads Kristensen**, Principal Product Manager, Microsoft
12:00 PM	12:45 PM	Lunch - *Oceana Ballroom* • Visit the EXPO Lounge - *Pacifica 7*
12:45 PM	1:30 PM	Dessert Break • Visit the EXPO Lounge - *Pacifica 7*

AGENDA-AT-A-GLANCE *(continued)*

Modern Software Engineering	Database Development	Developing New Experiences	Human Factors in Engineering	The Core of .NET	Full Stack Web Development

START TIME	END TIME	| Visual Studio Live! Day 1: Tuesday, November 19, 2024 *(Continued)*				
1:30 PM	1:50 PM	VST05 Fast Focus: JavaScript Framework/Library Showdown - Allen Conway	VST06 Fast Focus: Rethinking Team Metrics in 20 Minutes - Angela Dugan	VST07 Fast Focus: Safer Code: Nullability and Null Operators in C# - Jeremy Clark	VST08 What's New in .NET MAUI & Blazor Hybrid - James Montemagno & Rachel Kang	
2:00 PM	2:20 PM	VST09 Fast Focus: Introduction to Angular Signals - Deborah Kurata	VST10 Fast Focus: Fast Focus - GitHub CLI - Mickey Gousset	VST11 Fast Focus: Upgrading .NET Applications - Jim Wooley		
2:20 PM	2:45 PM	Networking Break • Visit the EXPO Lounge - Pacifica 7				
2:45 PM	4:00 PM	VST12 Hitchhikers Guide to the Cosmos: Web Apps With Cosmos DB for SQL Server Developers - Benjamin Day	VST13 GitHub Copilot - What's Next - Brian A. Randell	VST14 From Repo to Cloud - GitHub and Your Azure Journey - Esteban Garcia	VST15 Updating Legacy Apps to Modern .NET - Jon Galloway	
4:15 PM	5:30 PM	VST16 Building RESTful Services With ASP.NET Core - Philip Japikse	VST17 Sands of MAUI – Beach Reality - Sam Basu	VST18 Git Storytelling: Crafting a Git Commit History Your Future Self Will Thank You For - Roy Cornelissen	VST19 Code is for Humans - Jeremy Clark	
5:30 PM	7:00 PM	Exhibitor Welcome Reception - Pacifica 7				
START TIME	END TIME	| Visual Studio Live! Day 2: Wednesday, November 20, 2024				
7:30 AM	8:00 AM	Registration • Coffee and Morning Pastries				
8:00 AM	9:15 AM	VSW01 Integrating Blazor With Existing .NET Web Apps - Ed Charbeneau	VSW02 Open Source XAML Takes You Places! - Sam Basu	VSW03 Zero to Cloud Apps With GitHub Copilot - Esteban Garcia	VSW04 Useful New-ish Features in .NET/C# - Deborah Kurata	
9:30 AM	10:45 AM	VSW05 Getting Up and Running With Modern Angular - Allen Conway	VSW06 Improving Legacy Applications With UX Design - Billy Hollis	VSW07 Improving Code Quality With Static Analyzers - Jim Wooley	VSW08 10 Visual Studio Hidden Gems for Database Development - Erin Dempster & Drew Skwiers-Koballa	
10:45 AM	11:30 AM	Networking Break • Visit the EXPO Lounge - Pacifica 7				
11:30 AM	12:30 PM	LIVE! 360 KEYNOTE: The Future of IT Marcel de Vries, Global MD & CTO, Xebia				
12:30 PM	1:30 PM	Table Topics Lunch - Oceana Ballroom				
1:30 PM	2:00 PM	Dessert Break • Visit the EXPO Lounge - Pacifica 7				
2:00 PM	3:15 PM	VSW09 Zero to Hero: Blazor Web Apps - Allen Conway	VSW10 Stop Using Entity Framework as Just a DTO Provider! - Chris Klug	VSW11 Navigating the Project Storm: A Guide to Overcoming 10 Development Project Pitfalls - Mickey Gousset	VSW12 - To Be Announced	

Sessions and speakers subject to change.

Microsoft Sessions

Visual Studio LIVE!
EXPERT SOLUTIONS FOR ENTERPRISE DEVELOPERS

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AGENDA-AT-A-GLANCE *(continued)*

Modern Software Engineering	Database Development	Developing New Experiences	Human Factors in Engineering	The Core of .NET	Full Stack Web Development

START TIME	END TIME					
		Visual Studio Live! Day 2: Wednesday, November 20, 2024 *(Continued)*				
3:15 PM	4:00 PM	Networking Break • Visit the EXPO Lounge • Expo Raffle @ 3:30 p.m. - *Pacifica 7*				
4:00 PM	5:15 PM	**VSW13** Blazor Stability Testing Tools for Bullet Proof Applications - *Ed Charbeneau*		**VSW14** Exploring the Blazor 8 Render Modes - *Rockford Lhotka*	**VSW15** Busy Manager's Guide to Interviewing - *Ted Neward*	**VSW16** C# Roslyn and You - *Jim Wooley*
7:30 PM	9:00 PM	Live! 360 Dessert Luau - *Wantilan Pavilion*				
START TIME	**END TIME**	**Visual Studio Live! Day 3: Thursday, November 21, 2024**				
7:30 AM	8:00 AM	Registration • Coffee and Morning Pastries				
8:00 AM	9:15 AM	**VSTH01** Cross Platform Development With UNO - *Tony Champion*		**VSTH02** EQ in Tech - *Amber Vanderburg*	**VSTH03** Architecting Zero Downtime Database Deployments - *Steve Jones*	**VSTH04** Analyzing Code in .NET - *Jason Bock*
9:30 AM	10:45 AM	**VSTH05** Building Secure and Scalable APIs in .NET 8 - *Tony Champion*		**VSTH06** Rolling With Changes: How to Increase Your Adaptability - *Sara Caldwell*	**VSTH07** Shift-Left With DevOps - Better Security Starts With You and Great Tools - *Brian A. Randell*	**VSTH08** The Background on Background Tasks in .NET 9 - *Scott Sauber*
11:00 AM	12:00 PM	**VISUAL STUDIO LIVE! PANEL DISCUSSION: Adapting Strategies - Navigating the Evolving Landscape of Networking and Interviewing in Tech** *Angela Dugan [Moderator], Sara Caldwell, Chris Klug, and Amber Vanderburg*				
12:00 PM	1:00 PM	Live! 360 DJ Lunch				
1:00 PM	2:15 PM	**VSTH09** Building Enterprise Blazor Apps Using CSLA .NET - *Rockford Lhotka*		**VSTH10** How to Give and Receive Effective Performance Feedback - *Amber Vanderburg*	**VSTH11** Continuous Integration With Local Agents and Azure DevOps - *Steve Jones*	**VSTH12** Concurrent Programming in .NET - *Jason Bock*
2:30 PM	3:45 PM	**VSTH13** How to Build Secure and Scalable Applications With Microsoft SQL Using the Power of AI - *Bob Ward*		**VSTH14** Cracking the Code of Team Empowerment: Unraveling the Mystery of Learned Helplessness - *Sara Caldwell*	**VSTH15** Exposing the Not-So-Secret Practices of the Cult of DDD - *Chris Klug*	**VSTH16** Design Patterns: Not Just for Architects - *Jeremy Clark*
4:00 PM	5:00 PM	**LIVE! 360 WRAP PARTY** **Tech Presentation: TBD** - *Billy Hollis, Developer. Designer. Speaker. Author.* **Q&A with Live! 360 Conference Chairs & Speakers:** Andrew J. Brust, Angela Dugan, Dave Kawula, Sami Laiho, Thomas LaRock, Rockford Lhotka, Brian A. Randell, Sara Caldwell, Chris Klug, Amber Vanderburg, Bradley Ball, Meagan Longoria, Allan Hirt, Chris Ayers, Layla Porter, Carey Payette & Jan Ketil Skanke				
START TIME	**END TIME**	**Visual Studio Live! Post-Conference Workshops: Friday, November 22, 2024**				
7:30 AM	8:00 AM	Registration • Coffee and Morning Pastries				
8:00 AM	5:00 PM	**VSF01** Workshop: Build Performant, Testable Websites With .NET Aspire - *Chris Klug*			**VSF02** Workshop: Take Your C# Skills to the Next Level - *Jeremy Clark*	

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: Build an ASP.NET Core Razor Pages App With EF Core in a Day

Intermediate

PHILIP JAPIKSE
Sunday, November 17, 9:00am – 6:00pm

Interested in ASP.NET Core and Entity Framework Core, but unsure 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 create a data access library using Entity Framework Core, complete with repos and migrations. Next, you will build an ASP.NET Core web application using Razor Pages, leveraging all of the latest ASP.NET Core has to offer, including Tag Helpers, View Components, Dependency Injection, and more!

You will learn:
• ASP.NET Core Razor Pages
• Entity Framework Core
• Build an app in a day

VSHOL02

Hands-On Lab: Build It Better With GitHub Copilot and GitHub Advanced Security

Intermediate / Advanced

BRIAN A. RANDELL & MICKEY GOUSSET
Sunday, November 17, 9:00am – 6:00pm

Are you ready to take your software development skills to the next level? Join us for an immersive, hands-on workshop designed for developers and DevOps professionals who want to leverage the power of GitHub Copilot, GitHub Advanced Security, GitHub Codespaces, and GitHub Actions to build better, more secure cloud-native applications for Azure using C#.

In this workshop, Brian and Mickey will guide you through the process of integrating GitHub Copilot into your development workflow, showcasing how this innovative AI-powered tool can help you write C# code faster and more efficiently. You'll learn how to use GitHub Copilot to generate code suggestions, autocomplete functions, and even create entire code blocks based on your comments and context, specifically tailored for building cloud-native applications on Azure.

But building better software isn't just about writing code faster—it's also about ensuring that your code is secure and free from vulnerabilities. That's where GitHub Advanced Security comes in. Our experts will demonstrate how to use features like code scanning, secret scanning, and dependency reviews to identify and fix potential security issues before they become a problem, helping you to build more secure cloud-native applications.

We'll also introduce you to GitHub Codespaces, a full-featured, cloud-based development environment that allows you to write, run, and debug your applications directly from your browser. You'll learn how to set up and customize your Codespace, and how to seamlessly switch between GitHub Codespaces and Visual Studio Code, giving you the flexibility to develop your applications in the environment that works best for you.

In addition, they'll also dive into GitHub Actions, a powerful tool for automating your software development workflows. You'll learn how to create and customize CI/CD pipelines, automate testing and deployment processes, and seamlessly integrate with Azure services, enabling you to build, test, and deploy your cloud-native applications with ease.

Throughout the workshop, you'll have the opportunity to put your newfound knowledge into practice through hands-on labs and exercises. You'll work with real-world codebases

and scenarios to see firsthand how GitHub Copilot, GitHub Advanced Security, GitHub Codespaces, and GitHub Actions can streamline your development process and improve the quality, security, and deployment of your cloud-native applications on Azure.

Whether you're a seasoned C# developer looking to stay ahead of the curve or a newer programmer eager to learn cutting-edge tools and techniques for building cloud-native applications, this workshop is for you. Don't miss this opportunity to take your development skills to the next level with GitHub Copilot, GitHub Advanced Security, GitHub Codespaces, and GitHub Actions.

You will learn:
• Integrate GitHub Copilot into your development workflow to write C# code faster and more efficiently for cloud-native Azure applications
• Use GitHub Advanced Security features to identify and fix potential security vulnerabilities in your cloud-native applications
• Leverage GitHub Codespaces and Visual Studio Code to develop your applications in a flexible, cloud-based environment
• Implement GitHub Actions to automate your software development workflows, including CI/CD pipelines and deployment to Azure
• Combine the power of GitHub Copilot, GitHub Advanced Security, GitHub Codespaces, and GitHub Actions to build better, more secure, and easily deployable cloud-native applications on Azure

VSHOL03

Hands-On Lab: Legacy Lift-off - Bringing Your Legacy .NET Application into the Modern Cloud and AI Age

Intermediate

MARCEL DE VRIES & ROY CORNELISSEN
Sunday, November 17, 9:00am – 6:00pm

In today's fast-paced digital landscape, legacy software can be a bottleneck to innovation and growth. Yet, a green field rebuild is hardly ever your best way to success. There is so much value in your existing system that can be salvaged and modernized.

Join us for a hands-on exploration as we delve into modernizing a legacy .NET Framework 4.8 / WinForms application for the cloud and AI age. Through a series of interactive modules, participants will learn essential skills

VISUAL STUDIO LIVE! SESSION DESCRIPTIONS BY TRACK *(continued)*

such as deciphering legacy code using AI, transitioning to modern technology stacks, and implementing best practices for refactoring, performance, security, and quality assurance. To finish it off, we will infuse the application with some AI to make it smart and ready for the new era.

By the end of the workshop, we will have transitioned from a legacy .NET / WinForms application to a cloud-ready, AI infused web application with Blazor.

You will learn:
- Decipher legacy code: Learn techniques and tools to navigate and understand existing .NET Framework 4.8 codebases.
- Apply modern refactoring and architecture techniques, improving software step-by-step, optimize performance and costs, enhance security, and ensure software quality.
- Transition to modern stacks: Select and implement contemporary technology stacks suitable for cloud-native applications, and using a modern front end technology, infused with AI.

VSHOL04

⊞ Hands-On Lab: .NET Aspire
Intermediate

JAMES MONTEMAGNO & JON GALLOWAY
Sunday, November 17, 9:00am – 6:00pm

Details coming soon.

🔧 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.

VSM01

Workshop: Microsoft Blazor Top to Bottom
Intermediate

JASON BOCK, ALLEN CONWAY
& ROCKFORD LHOTKA
Monday, November 18, 8:30am – 5:30pm

Blazor (Browser + Razor) has redefined the current landscape for web developers, allowing C# and .NET back into the modern web development picture. Leveraging WebAssembly to allow running .NET code in the browser, we can use the same C# language on the client and the server to build our modern web applications. At the core of Blazor is the ability to compose our web application using reusable components just like the modern browser frameworks.

Join experts in Blazor, WebAssembly, and enterprise development as they discuss why and when to use Blazor. They will give you everything you need to know to build Blazor apps, use the Razor component model, data and event binding, styling the UI, and building maintainable code. You will learn about Blazor server, WebAssembly, MAUI hybrid apps, and how to implement authentication and authorization. WebAssembly and Blazor are incredibly powerful technologies and may be the future of web development. Come to this workshop to form your own view on this exciting platform.

You will learn:
- Basics of Blazor app dev and Blazor features
- How to build server-side Blazor and Blazor WebAssembly apps
- How to implement authentication and authorization
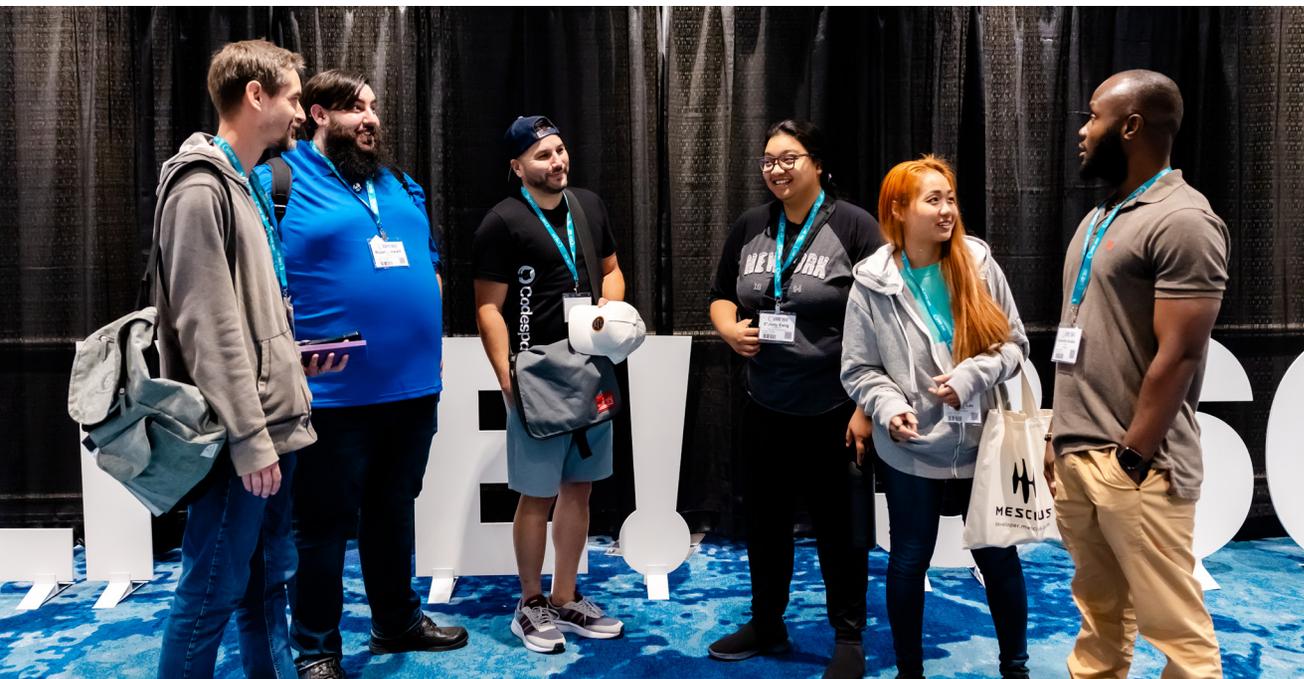
VISUAL STUDIO LIVE! SESSION DESCRIPTIONS BY TRACK *(continued)*

VSM02

Workshop: Design Thinking for Software Development Teams

Introductory

BILLY HOLLIS

Monday, November 18, 8:30am – 5:30pm

Developers don't want to be designers, but I think most of them do want to be better developers. Incorporating design thinking into software development yields higher value apps, more satisfied users, and better personal reputation. In this workshop, developers and other non-design team members can learn essentials, and walk out with some tangible techniques and skills to immediately start addressing routine app design. The session is interactive, with hands-on exercises as well as presentation of design techniques, principles, and a lightweight process for incorporating design into development. The focus is on interaction design and user-centric design, not aesthetics and layout. We'll discuss how to facilitate design meetings, reach group decisions, probe user work and task flows, fit design tasks to those flows, and evaluate designs to enter production coding with fewer blind alleys, backtrack, and rework. Some exercises will be in groups – bring others on your team if you would like to experience this workshop together.

You will learn:
• The value of design thinking for teams and organizations
• Hear about ways to discuss doing better design with managers above you
• Techniques, processes, and principles to perform design thinking throughout the software development process

VSM03

Workshop: Mastering Human Factors

Intermediate / Advanced

BENJAMIN DAY & ANGELA DUGAN

Monday, November 18, 8:30am – 5:30pm

You have solid DevOps pipelines, the best of breed tooling, your processes are well documented and discoverable, and your team rooms are full of comfy chairs and the tastiest snacks! So why is it still so stinking difficult to meet your commitments and deliver high quality software? If it's not a tooling problem it must be a people problem, and if it's not a people problem it must be a system problem, right? It is easy to say that software delivery would be so easy…if it weren't for all the humans. But why is that?

The technical stuff is easy by comparison. Humans need convincing and explanations and reasons for why they should embrace an Agile mindset, and follow DevOps leading practices, and work on this thing instead of that other more fun thing. If you're in a leadership role, how can you tell if your teams are facing challenges, and what do you do about it? How do you know if your team members are productive? How can you prevent burnout, increase morale, and sustain a high performing team that crushes their commitments? What do we ALL need to know about being truly great team members, and why should we care?

In this workshop, Ben and Angela will connect the strategic, human-oriented reasoning to the tactical 'nuts and bolts' of a successful software organization. We'll discuss process, metrics, communication, all of the typical Agile and DevOps concepts, and instead of focusing on any particular technology or framework, we'll focus on how to help you and the humans around you to be happier, more effective, and truly productive.

You will learn:
• How to level up your communication and feedback to support continuous improvement, and minimize friction and conflict
• How to optimize delivery and maintain a healthy team morale by tracking the right metrics, not just the popular or common ones
• Understanding theories of complexity and constraints, and using that knowledge to manage and adapt to bottlenecks

VSM04

▦ Workshop: .NET MAUI & Blazor Hybrid

Intermediate

JAMES MONTEMAGNO & RACHEL KANG

Monday, November 18, 8:30am – 5:30pm

Details coming soon.

VISUAL STUDIO LIVE! SESSION DESCRIPTIONS BY TRACK *(continued)*

VSF01

Workshop: Build Performant, Testable Websites With .NET Aspire

Intermediate

CHRIS KLUG

Friday, November 22, 8:00am – 5:00pm

The web development area of the Microsoft stack has grown exponentially in the last few years. Supporting more and more business scenarios and offering more and more ways to solve your development needs. However, in this ever-evolving environment, it can be hard to know what you can, and sometimes should be doing. And how to do it.

In this one day masterclass, Chris Klug, a Microsoft developer with over 20 years of experience (and 14 MVPs), will show you how you can leverage ASP.NET Core to build large scale business applications. It will be a fast paced walkthrough of topics ranging from the more "basic", but really important things, like setting up authentication and authorization, to service communication and reverse proxying. Not to mention some slightly more "esoteric" topics like Project Orleans and FastEndpoints. And since developing a multi-service environment often has some "interesting", a.k.a annoying, challenges when running locally. It will also cover how you can leverage Docker and .NET Aspire to make this a whole lot easier.

On top of that, since very few solutions can do without automated testing, we will also have a quick look at this topic, so that we can make sure that once we deploy it, it is less likely to introduce bugs or regressions.

During the day, you will see how to set up a multi-service application using (among other things)

- ASP.NET Core MVC and minimal API:s
- gRPC
- YARP
- Entity Framework Core
- Project Orleans
- .NET Aspire
- FastEndpoints
- Duende Identity Server
- Azure
- Docker
- and more

The day is also intended to be as interactive as possible to make sure that you get the information that you need. So, come well-rested, curios and prepared learn and ask questions.

This masterclass is targeted at .NET developers with experience in ASP.NET. It will be fairly fast paced, as there are a lot of things to cover in a "short" amount of time. However, there will also be plenty of opportunity to ask questions throughout the day.

VSF02

Hands-On Workshop: Take Your C# Skills to the Next Level

Intermediate

JEREMY CLARK

Friday, November 22, 8:00am – 5:00pm

Are you a C# developer eager to create software that is easy to maintain, has minimal bugs, and makes your users happy? This workshop is for you.

Through lectures, code samples, and hands-on labs, you will learn how interfaces, delegates, dependency injection, and unit testing can help you write applications that are easy to extend, change, and debug. Along the way you will also encounter modern C# topics such as nullability, switch expressions, and asynchronous code. In the end, you will take away practical experience that you can immediately apply to your own projects.

Workshop Topics:
- Interfaces: Explore the art of writing clean, modular code through interfaces. Learn how interfaces facilitate code extension, make your applications more testable, and lead to fewer bugs.
- Delegates: Gain a deep understanding of delegates and learn how to use them to build flexible and extensible code.
- Dependency Injection: Discover the magic of dependency injection and how it promotes loose coupling, making your codebase more flexible, testable, and maintainable.
- Unit Testing: Write tests that ensure your code functions as expected, enabling you to catch bugs early in the development process.

Key Benefits:
- Easier Maintenance: Explore practices for writing clean, maintainable code that's a breeze to work with, whether you're collaborating with a team or revisiting your own projects down the road.
- Fewer Bugs: Learn the art of writing robust code that is easy to test. Find bugs before your users do, and be confident that code changes do not break existing functionality.
- Happier Users: The point of writing software is to meet your user's needs. With these tools in hand, you can create applications that not only meet but exceed user expectations.

Pre-Requisites:
- Basic understanding of C# and object-oriented programming (classes, inheritance, methods, and properties). No prior experience with the primary topics is necessary; we'll take care of that as we go.
- Take your C# development skills to the next level and build software that not only satisfies your users, but also simplifies your life as a developer. Say goodbye to frustrating bugs, hello to happier users, and welcome to the world of painless maintenance.

You will learn:
- Create loosely-coupled code using interfaces, delegates, and dependency injection.
- Find bugs quickly with unit tests (and make sure existing code continues to work).
- Write code that can be easily updated to meet your users' changing needs.

VISUAL STUDIO LIVE! SESSION DESCRIPTIONS BY TRACK *(continued)*

MODERN SOFTWARE ENGINEERING

The heart of Modern Software Engineering is building and delivering software faster, reducing complexity and risk, all without sacrificing quality—of the software AND the experience of everyone involved in building and delivering it. The list of technical strategies, tools, and leading practices that enable modern software engineering is long and evolving rapidly. This track will help you stay on top of leading DevOps, DevSecOps, and platform engineering practices, tools, and strategies. Expect us to dig into subjects like providing remote access, robust environments, and automation that is secure, easy to access, and readily available. You'll explore topics such as zero downtime database deployments, continuous integration, domain-driven design, cloud transitions, feature flag deployments, crafting efficient git commit histories, improving code quality with static analyzers, and better security with DevOps. Additionally, you'll learn about GitHub Copilot for various applications.

You'll find coverage of:

- Architecting Zero Downtime Database Deployments
- Continuous Integration with Local Agents and Azure DevOps
- Exposing the Not-So-Secret Practices of the Cult of DDD
- From Repo to Cloud
- Get Good at DevOps: Feature Flag Deployments with ASP.NET & Web API
- Git Storytelling: Crafting a git commit history your future self will thank you for
- Improving Code Quality with Static Analyzers
- Shift-Left with DevOps-Better Security Starts with You and Great Tools
- Zero to Cloud Apps with GitHub Copilot
- Fast Focus: The GitHub CLI
- Hands-On Lab: Build It Better with GitHub Copilot and GitHub Advanced Security

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VST03

Get Good at DevOps: Feature Flag Deployments With ASP.NET & WebAPI

Intermediate

BENJAMIN DAY
Tuesday, November 19, 9:15 – 10:30am

You will learn:
- What are feature flags? How do they help deployment?
- What is A/B testing? How do you implement a 'private beta' using feature flags?
- How do you implement side-by-side versioned feature deployments using feature flags?

VST10

Fast Focus: Fast Focus - GitHub CLI

Intermediate / Advanced

MICKEY GOUSSET
Tuesday, November 19, 2:00 – 2:20pm

You will learn:
- How to use the GitHub CLI as a scripting tool against GitHub
- See how the GitHub CLI can easily trigger GitHub APIs
- Use the GitHub CLI and Copilot to solve problems and answer questions

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VST14

From Repo to Cloud - GitHub and Your Azure Journey

Intermediate

ESTEBAN GARCIA
Tuesday, November 19, 2:45 – 4:00pm

You will learn:
- GitHub as your software development platform
- Automation as part of your software engineering practice
- Azure Infrastructure as Code

VST18

Git Storytelling: Crafting a Git Commit History Your Future Self Will Thank You For

Introductory / Intermediate

ROY CORNELISSEN
Tuesday, November 19, 4:15 – 5:30pm

You will learn:
- How Git works under the hood
- About the importance of a clean and readable Git history
- Techniques and tools for telling stories in Git

VSW03

Zero to Cloud Apps With GitHub Copilot

Introductory

ESTEBAN GARCIA
Wednesday, November 20, 8:00 – 9:15am

You will learn:
- About GitHub Copilot and how you can leverage its power to go faster
- Prompt engineering best practices
- Choosing between chat and code when using Copilot

VISUAL STUDIO LIVE! SESSION DESCRIPTIONS BY TRACK *(continued)*

VSW07

Improving Code Quality With Static Analyzers

Intermediate / Advanced

JIM WOOLEY
Wednesday, November 20, 9:30 – 10:45am

You will learn:
- Understand why code quality matters regardless of team size.
- How to use analysis tools and linters to automate repetitive code review tasks and learn about industry standard best practices.
- Discover how to customize existing tools to meet your team's specific needs.

VSTH03

Architecting Zero Downtime Database Deployments

Intermediate

STEVE JONES
Thursday, November 21, 8:00 – 9:15am

You will learn:
- How to coordinate with feature flags
- Dev patterns to avoid downtime
- Understand how code smells impact uptime

> ❝ **WHAT I LIKED BEST ABOUT LIVE! 360 WAS THE OPPORTUNITY TO EXPAND MY UNDERSTANDING WHAT MAY BE POSSIBLE AS IT RELATES TO MY SKILLS AND WORK EXPERIENCE."**
>
> *– Live! 360 2023 attendee*

VSTH07

Shift-Left With DevOps-Better Security Starts With You and Great Tools

Intermediate

BRIAN A. RANDELL
Thursday, November 21, 9:30 – 10:45am

You will learn:
- Enable and configure code scanning to automatically identify potential security issues in your codebase
- Set up secret scanning to prevent sensitive information from being accidentally exposed in your repositories
- Utilize dependency reviews to identify and manage vulnerabilities in your project's dependencies
- Integrate security alerts and notifications into your development workflow to ensure prompt action on potential threats

VSTH11

Continuous Integration With Local Agents and Azure DevOps

Intermediate

STEVE JONES
Thursday, November 21, 1:00 – 2:15pm

You will learn:
- How to install local agents
- How to configure a pipeline with an agent
- Understand how to build and a test a local db with an agent

VSTH15

Exposing the Not-So-Secret Practices of the Cult of DDD

Intermediate

CHRIS KLUG
Thursday, November 21, 2:30 – 3:45pm

You will learn:
- Why DDD practices might be useful even if you aren't using DDD
- DDD patterns that might make your solutions easier to work with
- Why reading old programming books can still be of value

📊 DATA & ANALYTICS

Working with data is critical to most applications and services. This track covers essentials of working with Entity Framework, the tooling tricks you need, and how SQL Server fits into the AI development picture. You'll delve into hidden features of Visual Studio for database development, best practices for using Entity Framework, and techniques for building secure and scalable applications using Microsoft SQL, leveraging the power of AI. For additional data and analytics content, look at the agenda for Data Platform Live!

This track includes coverage of the following:
- 10 Visual Studio Hidden Gems for Database Development
- Stop Using Entity Framework as Just a DTO Provider
- How to Build Secure and Scalable Applications with Microsoft SQL using the Power of AI

VSW08

10 Visual Studio Hidden Gems for Database Development

Introductory / Intermediate

ERIN DEMPSTER & DREW SKWIERS-KOBALLA
Wednesday, November 20, 9:30 – 10:45am

You will learn:
- About different components in Visual Studio
- Improve efficiency with lesser-known features
- Integrate database components with CI/CD pipelines

VISUAL STUDIO LIVE! SESSION DESCRIPTIONS BY TRACK *(continued)*

VSW10

Stop Using Entity Framework as Just a DTO Provider!

Intermediate

CHRIS KLUG

Wednesday, November 20, 2:00 – 3:15pm

You will learn:
- That EF can do more than DTO retrieval
- That it might be a good idea to use EF to fetch more complex objects
- To see how EF can support retrieving DDD style entities

VSTH13

How to Build Secure and Scalable Applications With Microsoft SQL Using the Power of AI

Intermediate

BOB WARD

Thursday, November 21, 2:30 – 3:45pm

You will learn:
- How to build secure and scalable data applications with Microsoft SQL
- How leverage AI to build data-driven applications and harness the power of Microsoft Copilots
- See demos and code examples on how to become a more proficient developer with Microsoft SQL

> **THIS IS MY FIRST VSLIVE CONFERENCE I'VE BEEN TO AND I HAVE BEEN OVERALL PLEASED! I LIKE THE SPEAKERS THAT WERE AVAILABLE, AND THE .NET-FOCUSED TOPICS COVERED."**
>
> *– Live! 360 2023 attendee*

⤴ DEVELOPING NEW EXPERIENCES

The expectations around "user experience" are being upended right before our eyes. In today's world, you need to understand not only graphical interactions with keyboard, mouse, touch, and stylus but also gesture, 3D, mixed-reality, and more. This track provides content for rich multi-platform apps covering Windows, macOS, mobile, and more. You'll learn about modern design approaches, cross-platform development, Blazor render modes, improving legacy applications with UX design, open-source XAML, and building practical applications with MAUI. A workshop on design thinking for software development teams is also included.

This track includes coverage of the following:
- "Wouldn't It Be Cool" and Other Bad Design Approaches
- Cross Platform Development with UNO
- Exploring the Blazor 8 Render Modes
- GitHub Copilot – What's Next
- Improving Legacy Applications with UX Design
- Open Source XAML Takes You Places!
- Sands of MAUI – Beach Reality
- Workshop: Design Thinking for Software Development Teams

VST02

"Wouldn't It Be Cool" and Other Bad Design Approaches

Introductory

BILLY HOLLIS

Tuesday, November 19, 9:15 – 10:30am

You will learn:
- See real world design failures
- The reasons they failed, so you can avoid similar failures
- Gain understanding of alternative design approaches much less likely to fail

VST13

GitHub Copilot - What's Next

Intermediate

BRIAN A. RANDELL

Tuesday, November 19, 2:45 – 4:00pm

You will learn
- What's New in GitHub Copilot
- How to Extend GitHub Copilot
- How to use Copilot successfully

VST17

Sands of MAUI – Beach Reality

Intermediate

SAM BASU

Tuesday, November 19, 4:15 – 5:30pm

You will learn:
- Explore latest in .NET MAUI
- Understand real world app considerations
- Explore tooling and developer experiences

VSW02

Open Source XAML Takes You Places!

Intermediate

SAM BASU

Wednesday, November 20, 8:00 – 9:15am

You will learn:
- Understand XAML ecosystem
- Explore platform reach & code sharing
- Explore modern XAML tooling

VISUAL STUDIO LIVE! SESSION DESCRIPTIONS BY TRACK *(continued)*

VSW06

Improving Legacy Applications With UX Design

Introductory

BILLY HOLLIS

Wednesday, November 20, 9:30 – 10:45am

You will learn:
- Identify key parts of existing apps for significant improvement through redesign
- Gain a roadmap for implementing redesign of key parts of your existing apps
- A lightweight design process you can apply to redesign of app chunks

VSW14

Exploring the Blazor 8 Render Modes

Intermediate

ROCKFORD LHOTKA

Wednesday, November 20, 4:00 – 5:15pm

You will learn:
- Explore the Blazor 8 render modes
- How pages transition between render modes
- How to maintain state between pages

VSTH01

Cross Platform Development With UNO

Introductory

TONY CHAMPION

Thursday, November 21, 8:00 – 9:15am

You will learn:
- Get an introduction into UNO
- How to build cross platform experiences with UNO
- How to utilize platform specific features to build the best experiences for each platform

HUMAN FACTORS IN ENGINEERING

When engineering software systems and processes, one factor key to success that is particularly complex and challenging to account for, and often not proactively focused on, is the human factor. Drucker famously said that "culture eats strategy for breakfast," meaning the best-laid system architectures, cloud strategies, and DevOps pipelines are only as effective as the people and teams who implement them. To be effective, individuals and teams need leaders who are connected, present, and provide clear vision and priorities for alignment. This track focuses on leadership, team empowerment, emotional intelligence, tackling imposter syndrome, effective performance feedback, navigating development project challenges, and increasing adaptability. Sessions also include quick discussions on team metrics and workshops on mastering human factors.

Topics in this track include:
- Busy Manager's Guide to Interviewing
- Cracking the Code of Team Empowerment: Unraveling the Mystery of Learned Helplessness
- EQ in Tech
- Fear and (Self) Loathing in IT – A Healthy Discussion on Imposter Syndrome
- How to Give and Receive Effective Performance Feedback
- Navigating the Project Storm: A Guide to Overcoming 10 Development Project Pitfalls
- Rolling with Changes: How to Increase your Adaptability
- Fast Focus: Rethinking Team Metrics in 20 Minutes
- Workshop: Mastering Human Factors

VST04

Fear and (Self) Loathing in IT – A Healthy Discussion on Imposter Syndrome

Introductory

ANGELA DUGAN

Tuesday, November 19, 9:15 – 10:30am

You will learn:
- Understand what Imposter Syndrome really is
- Recognizing when Imposter Syndrome is impacting you or others negatively
- Ways to mitigate the challenges and embrace the advantages of occasionally feeling like a "phony"

VST06

Fast Focus: Rethinking Team Metrics in 20 Minutes

Introductory

ANGELA DUGAN

Tuesday, November 19, 1:30 – 1:50am

You will learn:
- What it means to have a healthy metrics mindset
- Commong challenges inherent to measuring performance to be aware of
- Principals to consider when selecting metrics with your team

VSW11

Navigating the Project Storm: A Guide to Overcoming 10 Development Project Pitfalls

Introductory / Intermediate

MICKEY GOUSSET

Wednesday, November 20, 2:00 – 3:15pm

You will learn:
- Discover how to identify and overcome the top 10 pitfalls that can sabotage your development projects.
- Gain actionable insights to enhance project planning, communication, testing, and risk management.
- Acquire practical strategies for fostering collaboration, stakeholder engagement, and a culture of adaptability within your development teams.

VISUAL STUDIO LIVE! SESSION DESCRIPTIONS BY TRACK *(continued)*

VSW15

Busy Manager's Guide to Interviewing

Intermediate

TED NEWARD

Wednesday, November 20, 4:00 – 5:15pm

You will learn:
- Get quality hires
- Build a diverse and multifaceted team
- Never look at an interview process the same way again

VSTH02

EQ in Tech

Intermediate / Advanced

AMBER VANDERBURG

Thursday, November 21, 8:00 – 9:15am

You will learn:
- Understand the EQ Programming Model
- Acquire practical techniques for managing stress, regulating emotions, and resolving conflicts within the tech workplace through a heightened sense of self-awareness and a better understanding of personal emotions and their impact on professional interactions.
- Enhance interpersonal skills such as empathy and communication to foster positive relationships and collaboration among tech teams.

VSTH06

Rolling With Changes: How to Increase Your Adaptability

Introductory

SARA CALDWELL

Thursday, November 21, 9:30 – 10:45am

You will learn:
- Identify and understand the concept of Adaptability Quotient (AQ) and its significance in navigating a changing world.
- Discover and apply three practical strategies to improve your adaptability and resilience.
- Utilize provided measurement tools to analyze your personal Adaptability Quotient (AQ) score.

VSTH10

How to Give and Receive Effective Performance Feedback

Introductory / Intermediate

AMBER VANDERBURG

Thursday, November 21, 1:00 – 2:15pm

You will learn:
- Feedback frameworks for strategic corrective, coaching, and reinforcing conversations to improve performance
- How to effectively receive feedback
- How to empower and encourage feedback ownership within teams.
- How to use performance feedback data to strategically improve individual and team performance.

VSTH14

Cracking the Code of Team Empowerment: Unraveling the Mystery of Learned Helplessness

Introductory

SARA CALDWELL

Thursday, November 21, 2:30 – 3:45pm

You will learn:
- Recognize when your team is struggling with "learned helplessness"
- List three ways to manage learned helplessness on your team
- Feel more comfortable how to talk about learned helplessness

THE CORE OF .NET

The heart of the Microsoft development experience has been the .NET Framework, which has changed significantly in the era of .NET Core and now the unified .NET 8 and the soon to be released .NET 9. Understanding these changes, along with the new features in C#, is crucial for success in the Microsoft development world. This track covers foundational topics such as code analysis, concurrent programming, design patterns, background tasks, and useful features in .NET/C#. Quick sessions on safer coding practices and upgrading applications, along with a hands-on lab and a workshop to enhance your C# skills, are also part of this track.

Topics in this track include:
- Analyzing Code in .NET
- C# Roslyn and You
- Code is for Humans
- Concurrent Programming in .NET
- Design Patterns: Not Just for Architects
- The Background on Background Tasks in .NET 9
- Useful New-ish Features in .NET/C#
- Fast Focus: Safer Code: Nullabilty and Null Operators in C#
- Fast Focus: Upgrading .NET Applications
- Hands-On Lab: Legacy Lift-off: - Bringing your Legacy .NET Application into the Modern Cloud and AI Age
- Workshop: Take Your C# Skills to the Next Level

VST07

Fast Focus: Safer Code: Nullabilty and Null Operators in C#

Introductory / Intermediate

JEREMY CLARK

Tuesday, November 19, 1:30 – 1:50pm

VISUAL STUDIO LIVE! SESSION DESCRIPTIONS BY TRACK *(continued)*

You will learn:
- How compile-time warnings help you avoid null reference exceptions
- How to use nullability to make the intent of your code clear
- How to use the nullability operators: ?, !, ??

VST08

■ What's New in .NET MAUI & Blazor Hybrid

Intermediate

JAMES MONTEMAGNO & RACHEL KANG
Tuesday, November 19, 1:30 - 2:20pm

Details coming soon.

VST11

Fast Focus: Upgrading .NET Applications

Introductory

JIM WOOLEY
Tuesday, November 19, 2:00 – 2:20pm

You will learn:
- Understand the advantages and limitations to using the Upgrade Assistant tool to upgrade .NET framework applications.
- How to use YARP to gradually move web functionality over time.
- Discover some common strategies for handling components that can't be upgraded through the tools.

VST15

■ Updating Legacy Apps to Modern .NET

Intermediate

JON GALLOWAY
Tuesday, November 19, 2:45 - 4:00pm

Details coming soon.

VST19

Code is for Humans

Introductory / Intermediate

JEREMY CLARK
Tuesday, November 19, 4:15 – 5:30pm

You will learn:
- Focus on writing code in small chunks
- Appropriate naming for methods, variables, objects, and properties
- Avoiding "clever" code

VSW04

Useful New-ish Features in .NET/C#

Introductory / Intermediate

DEBORAH KURATA
Wednesday, November 20, 8:00 – 9:15am

You will learn:
- Discover the latest gems in C# and .NET
- Uncover the usefulness of these new(ish) features
- Master techniques to integrate these features into your current projects

VSW16

C# Roslyn and You

Intermediate / Advanced

JIM WOOLEY
Wednesday, November 20, 4:00 – 5:15apm

You will learn:
- How to take advantage of C# Scripting to add some dynamic functionality in your applications.
- Understand how to use and create code analyzers and code fixes.
- Discover how to automate repetitive coding tasks with Syntax Generators

VSTH04

Analyzing Code in .NET

Intermediate

JASON BOCK
Thursday, November 21, 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

VSTH08

The Background on Background Tasks in .NET 9

Introductory

SCOTT SAUBER
Thursday, November 21, 9:30 – 10:45am

You will learn:
- Situations for using a background task
- When to use one option over another (IHostedService, BackgroundService, Worker, etc)
- Understand how these options work under the hood

VSTH12

Concurrent Programming in .NET

Intermediate

JASON BOCK
Thursday, November 21, 1:00 – 2:15pm

You will learn:
- Understand the various ways to write concurrent code
- See modern approaches to immutable structures
- Effective patterns and principles for coding in an asynchronous world

VSTH16

Design Patterns: Not Just for Architects

Introductory / Intermediate

JEREMY CLARK
Thursday, November 21, 2:30 – 3:45pm

You will learn:
- What design patterns are
- How you already use design patterns (even if you don't realize it)
- How intentional use of patterns can lead to better software

VISUAL STUDIO LIVE! SESSION DESCRIPTIONS BY TRACK *(continued)*

FULL STACK WEB DEVELOPMENT

Web development has become the dominant approach for building enterprise software. To excel in this field, you need to understand both server and client-side technologies. This track includes ASP.NET with .NET 7, Razor Pages, and building services on the server side. The browser client world is rapidly evolving with JavaScript, TypeScript, Angular, Blazor Server, Blazor Client (WebAssembly), and the ability to run other languages natively in the browser. This track ensures you stay up-to-date with stability testing, building enterprise applications, creating RESTful services, secure and scalable APIs, integrating Blazor, and more. You'll also find quick sessions on Angular and JavaScript frameworks, as well as a hands-on lab on ASP.NET Core and workshops on Blazor and how to build performant, testable websites with .NET Aspire.

Topics in this track include:

- Blazor Stability Testing Tools for Bulletproof Applications
- Building Enterprise Blazor Apps Using CSLA .NET
- Building RESTful Services with ASP.NET Core
- Building Secure and Scalable APIs in .NET 8
- Building Websites with ASP.NET Core Razor Pages
- Getting Up and Running with Modern Angular
- Hitchhikers Guide to the Cosmos: Web Apps with Cosmos DB for SQL Server Developers

- Integrating Blazor with existing .NET web apps
- Zero to Hero: Blazor Web Apps
- Fast Focus: Introduction to Angular Signals
- Fast Focus: JavaScript Framework/Library Showdown
- Hands-On Lab: Build an ASP.NET Core Razor Pages App with EF Core in a Day
- Workshop: Build Performant, Testable Websites with .NET Aspire
- Workshop: Microsoft Blazor Top to Bottom

VST01

Building Websites With ASP.NET Core Razor Pages

Intermediate

PHILIP JAPIKSE
Tuesday, November 19, 9:15 – 10:30am

You will learn:
- ASP.NET Core + Razor Page Fundamentals
- ASP.NET Core features like DI, config, options pattern, environmental awareness
- View Components, Tag Helpers, and more

VST05

Fast Focus: JavaScript Framework/Library Showdown

Introductory

ALLEN CONWAY
Tuesday, November 19, 1:30 – 1:50pm

You will learn:
- About the main frameworks and libraries for modern web client development
- About the main differences between Angular, React, Vue, and how WebAssembly fits in the picture
- About what backing factors will help guide the way to making a good decision about the framework and library chosen

VST09

Fast Focus: Introduction to Angular Signals

Introductory / Intermediate

DEBORAH KURATA
Tuesday, November 19, 2:00 – 2:20pm

You will learn:
- What are signals?
- Why would you want to use a signal?
- How do you create, read and change a signal?

VST12

Hitchhikers Guide to the Cosmos: Web Apps With Cosmos DB for SQL Server Developers

Introductory / Intermediate

BENJAMIN DAY
Tuesday, November 19, 2:45 – 4:00pm

You will learn:
- Grasp key differences and conceptual shifts from SQL Server to Cosmos DB.
- Translate existing SQL skills to Cosmos DB for immediate application development.
- Implement effective strategies for web application development and data migration.

VST16

Building RESTful Services With ASP.NET Core

Intermediate

PHILIP JAPIKSE
Tuesday, November 19, 4:15 – 5:30pm

You will learn:
- Fundamentals of ASP.NET Core
- DI, Options patterns, configuration, environmental awareness, routing
- Build a RESTful service from the ground up.

VSW01

Integrating Blazor With Existing .NET Web Apps

Introductory

ED CHARBENEAU
Wednesday, November 20, 8:00 – 9:15am

You will learn:
- Where does Blazor fit in the ASP.NET ecosystem
- How to integrate MVC/Pages with Blazor
- How to migrate WebForms to Blazor

VSW05

Getting Up and Running With Modern Angular

Introductory

ALLEN CONWAY
Wednesday, November 20, 9:30 – 10:45am

You will learn:
- Fundamentals of the Angular framework and why you would use it for modern web development, as well as how it fits in front of your existing back-end implementation
- How to create and run an Angular application using the CLI (Command Line Interface)
- Fundamentals of modern Angular applications by building standalone components and apps, views, and services

VSW09

Zero to Hero: Blazor Web Apps

Introductory

ALLEN CONWAY
Wednesday, November 20, 2:00 – 3:15pm

You will learn:
- Fundamentals of Blazor and creating a modern Blazor web application
- How to leverage client and server-side options seamlessly in Blazor Apps
- How to create modern web components for composable views using Blazor

VSW13

Blazor Stability Testing Tools for Bullet Proof Applications

Introductory

ED CHARBENEAU
Wednesday, November 20, 4:00 – 5:15pm

You will learn:
- How to unit test Blazor components with bUnit
- How to integration test Blazor components with mocks
- How to use automated e2e tests with Blazor apps

VSTH05

Building Secure and Scalable APIs in .NET 8

Intermediate

TONY CHAMPION
Thursday, November 21, 9:30 – 10:45am

You will learn:
- Discover how to structure and build APIs in .NET 8
- How to secure APIs using multiple authentication methods
- Explore how to make your APIs scalable

VSTH09

Building Enterprise Blazor Apps Using CSLA .NET

Intermediate

ROCKFORD LHOTKA
Thursday, November 21, 1:00 – 2:15pm

You will learn:
- How Blazor can be used to build end-user experiences for the enterprise
- How CSLA .NET helps you develop maintainable, reusable, cross-platform business logic
- How to leverage your business logic on the server with Linux containers

> **I LOVED THE RELEVANT CONTENT, AND I ENJOYED BEING ABLE TO ENGAGE DIRECTLY WITH THE SPEAKERS. I ALSO ENJOYED SPEAKING WITH AND NETWORKING WITH OTHER ATTENDEES."**
>
> *– Ryan, Live! 360 2023 attendee*

VISUAL STUDIO LIVE! SPEAKERS

CONFERENCE CHAIRS

Andrew Brust
*CEO and Founder,
Blue Badge Insights*

*Visual Studio Live!
Conference Co-Chair*

Angela Dugan
*Cloud Solution Architect
Manager, Microsoft*

*Visual Studio Live!
Conference Co-Chair*

Rockford Lhotka
*VP of Strategy,
Xebia*

*Visual Studio Live!
Conference Co-Chair*

Brian A. Randell
*Staff Developer Advocate,
GitHub*

*Visual Studio Live!
Conference Co-Chair*

SPEAKERS

Sam Basu
*Developer Advocate,
Progress*

Jason Bock
*Staff Software
Engineer,
Rocket Mortgage*

Andrew Brust
*CEO and Founder,
Blue Badge Insights*

Sara Caldwell
*Business Agility
Coach*

Tony Champion
*President,
Champion DS*

Ed Charbeneau
*Developer Advocate,
Progress*

Jeremy Clark
Developer Educator

Allen Conway
*Azure App
Modernization
Consultant, Xebia*

Roy Cornelissen
*Cloud Solution
Architect,
Xebia*

Benjamin Day
*Author, Trainer,
Developer*

Marcel de Vries
*Global MD & CTO,
Xebia*

Erin Dempster
*IT Data Operations
Team Lead,
Trean Corporation*

Angela Dugan
*Cloud Solution
Architect Manager,
Microsoft*

Jon Galloway
*Principal Product
Manager, Microsoft*

Esteban Garcia
*Managing Director -
Microsoft Services,
Xebia*

Mickey Gousset
*DevOps Architect,
GitHub*

Billy Hollis
*Developer. Designer.
Speaker. Author.*

Philip Japikse
*Developer, Coach,
Author, Teacher*

Steve Jones
The Voice of the DBA

Rachel Kang
*Product Manager,
Microsoft*

Chris Klug
*Developer,
Active Solution*

Deborah Kurata
*Consultant, Speaker,
Author*

Rockford Lhotka
*VP of Strategy,
Xebia*

James Montemagno
*Principal Lead
Program Manager -
Developer
Community, Microsoft*

Ted Neward
*Principal,
Neward and
Associates*

Brian A. Randell
*Staff Developer
Advocate,
GitHub*

Scott Sauber
*Director of
Engineering,
Lean TECHniques Inc*

**Drew
Skwiers-Koballa**
*Senior Program
Manager, Microsoft*

Amber Vanderburg
*Founder,
Pathwayz Group*

Bob Ward
*Principal Architect,
Microsoft Azure Data
Team*

Jim Wooley
*Senior Delivery
Principal for Slalom
Consulting*

AGENDA-AT-A-GLANCE

Business Intelligence	Database Administration & Maintenance	Database Development	Data Management	Data Lake, Lakehouse and Warehouse	Database Performance Tuning and Optimization	Streaming and Event Data Techniques	Microsoft Fabric

START TIME	END TIME	**Data Platform Live! Pre-Conference Hands-On Lab: Sunday, November 17, 2024**						
7:00 AM	9:00 AM	Hands-On Lab Registration • Coffee and Morning Pastries						
9:00 AM	6:00 PM	DPHOL01 Hands-On Lab: Microsoft Fabric - A Full Day of Hands On Learning - *Bradley Ball, Daniel Taylor, Bradley Schacht, Josh Luedeman, & Buck Woody*						
10:00 AM	7:00 PM	Pre-Conference Registration - *Royal Pacific Resort Conference Center*						

START TIME	END TIME	**Data Platform Live! Pre-Conference Workshops: Monday, November 18, 2024**						
7:00 AM	8:30 AM	Registration • Coffee and Morning Pastries						
8:30 AM	5:30 PM	DPM01 Workshop: SQL Performance Unleashed - Real-Time Data Platform Insights With Microsoft Fabric - *Bradley Ball & Thomas LaRock*				DPM02 Workshop: SQL Server Developer Deep Dive - *Leonard Lobel*		
5:45 PM	6:15 PM	Live! 360 First Timers Forum: A New Attendees Guide						
6:30 PM	8:00 PM	Mix & Mingle @ Hard Rock Café Universal CityWalk						

START TIME	END TIME	**Data Platform Live! Day 1: Tuesday, November 19, 2024**						
7:00 AM	8:00 AM	Registration • Coffee and Morning Pastries						
8:00 AM	9:00 AM	DATA PLATFORM LIVE! KEYNOTE: Secure, Unified, and Scalable Data in the Era of AI - *Sanjay Mishra, Data and AI Product Leader, Microsoft*						
9:15 AM	10:30 AM	DPT01 Microsoft's Data: The Super-Secret Session - *Bradley Ball, Daniel Taylor, Bradley Schacht, & Buck Woody*				DPT02 Microsoft Fabric: Defragmenting the Analytics Stack - *Andrew Brust*		
10:30 AM	11:00 AM	Networking Break • Visit the EXPO Lounge - *Pacifica 7*						
11:00 AM	12:00 PM	LIVE! 360 KEYNOTE: To Be Announced - *Mads Kristensen, Principal Product Manager, Microsoft*						
12:00 PM	12:45 PM	Lunch - *Oceana Ballroom* • Visit the EXPO Lounge - *Pacifica 7*						
12:45 PM	1:30 PM	Dessert Break • Visit the EXPO Lounge - *Pacifica 7*						

Sessions and speakers subject to change. Microsoft Sessions

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AGENDA-AT-A-GLANCE *(continued)*

Business Intelligence	Database Administration & Maintenance	Database Development	Data Management	Data Lake, Lakehouse and Warehouse	Database Performance Tuning and Optimization	Streaming and Event Data Techniques	Microsoft Fabric

START TIME	END TIME	Data Platform Live! Day 1: Tuesday, November 19, 2024 *(Continued)*		
1:30 PM	1:50 PM	**DPT03** Fast Focus: Microsoft - Embargoed Topic on Data - *Buck Woody*		**DPT04** Fast Focus: Data Lakehouses, Data Warehouses and Datamarts - When to Use Which in Microsoft Fabric - *Andrew Brust*
2:00 PM	2:20 PM	**DPT05** Fast Focus: Azure Data Factory Deployment Highlights - *Erin Dempster*		**DPT06** Fast Focus: How to Improve Your Power BI Report Design Skills With Workout Wednesday - *Meagan Longoria*
2:20 PM	2:45 PM	Networking Break • Visit the EXPO Lounge - *Pacifica 7*		
2:45 PM	4:00 PM	**DPT07** Introduction to Automated Database Deployments With Azure DevOps - *Erin Dempster*		**DPT08** To Be Announced
4:15 PM	5:30 PM	**DPT09** Performance Tuning SQL Server Using Wait Statistics - *Thomas LaRock*		**DPT10** Empowering AI Applications with Vector Search in SQL Server and Azure Cosmos DB - *Leonard Lobel*
5:30 PM	7:00 PM	Exhibitor Welcome Reception - *Pacifica 7*		
START TIME	END TIME	Data Platform Live! Day 2: Wednesday, November 20, 2024		
7:30 AM	8:00 AM	Registration • Coffee and Morning Pastries		
8:00 AM	9:15 AM	**DPW01** SQL Server Security Ground to Cloud - A Workshop Audit - *Buck Woody*		**DPW02** Understanding DAX, It's All About the Context - *Angela Henry*
9:30 AM	10:45 AM	**DPW03** Database Design: SQL Server Datatypes - *Thomas LaRock*		**DPW04** AI in Power BI - *Ginger Grant*
10:45 AM	11:30 AM	Networking Break • Visit the EXPO Lounge - *Pacifica 7*		
11:30 AM	12:30 PM	**LIVE! 360 KEYNOTE: The Future of IT** *Marcel de Vries, Global MD & CTO, Xebia*		
12:30 PM	1:30 PM	Table Topics Lunch - *Oceana Ballroom*		
1:30 PM	2:00 PM	Dessert Break • Visit the EXPO Lounge - *Pacifica 7*		
2:00 PM	3:15 PM	**DPW05** Using AI to Improve Spark Development in Microsoft Fabric - *Ginger Grant*		**DPW06** Can Microsoft Purview Answer All Your Data Governance Needs - *Angela Henry*
3:15 PM	4:00 PM	Networking Break • Visit the EXPO Lounge • Expo Raffle @ 3:30 p.m. - *Pacifica 7*		
4:00 PM	5:15 PM	**DPW07** Welcome to the Age of SQL Copilots - *Bob Ward*		**DPW08** Intro to Fabric Warehouse Workload Management - *Meagan Longoria*
7:30 PM	9:00 PM	Live! 360 Dessert Luau - *Wantilan Pavilion*		

Sessions and speakers subject to change.

Microsoft Sessions

AGENDA-AT-A-GLANCE *(continued)*

Business Intelligence	Database Administration & Maintenance	Database Development	Data Management	Data Lake, Lakehouse and Warehouse	Database Performance Tuning and Optimization	Streaming and Event Data Techniques	Microsoft Fabric

START TIME	END TIME	Data Platform Live! Day 3: Thursday, November 21, 2024						
7:30 AM	8:00 AM	Registration • Coffee and Morning Pastries						
8:00 AM	9:15 AM	**DPTH01** Creating REST and GraphQL Database Endpoints With Data API Builder - *Leonard Lobel*				**DPTH02** Populate Your Data Warehouse With a Metadata-Driven, Pattern-Based Approach - *Meagan Longoria*		
9:30 AM	10:45 AM	**DPTH03** Azure SQL ♥ Open AI - *Davide Mauri*				**DPTH04** A Modern Approach to Patching, Upgrades, and Technical Debt - *Allan Hirt*		
11:00 AM	12:00 PM	**DATA PLATFORM LIVE! PANEL DISCUSSION: The Data Professional's Lament** *Thomas LaRock [moderator], Bradley Ball, Meagan Longoria, & Allan Hirt*							
12:00 PM	1:00 PM	Live! 360 DJ Lunch						
1:00 PM	2:15 PM	**DPTH05** Type-safe, Polyglot Messaging and Eventing: Stream/Queue/Topic "of T" - *Clemens Vasters*				**DPTH06** Infrastructure as a Service (VMs in the Cloud) for Data Professionals - *Allan Hirt*		
2:30 PM	3:45 PM	**DPTH07** Introduction to Data Activator in Microsoft Fabric - *Josh Luedeman*				**DPTH08** Experience the Story of SQL and Microsoft Fabric - *Bob Ward*		
4:00 PM	5:00 PM	**LIVE! 360 WRAP PARTY** **Tech Presentation: TBD** - ***Billy Hollis**, Developer. Designer. Speaker. Author.* **Q&A with Live! 360 Conference Chairs & Speakers:** Andrew J. Brust, Angela Dugan, Dave Kawula, Sami Laiho, Thomas LaRock, Rockford Lhotka, Brian A. Randell, Sara Caldwell, Chris Klug, Amber Vanderburg, Bradley Ball, Meagan Longoria, Allan Hirt, Chris Ayers, Layla Porter, Carey Payette & Jan Ketil Skanke							

START TIME	END TIME	Data Platform Live! Post-Conference Workshop: Friday, November 22, 2024						
7:30 AM	8:00 AM	Registration • Coffee and Morning Pastries						
8:00 AM	5:00 PM	**DPF01** Workshop: The SQL AI Workshop - *Davide Mauri*						

Sessions and speakers subject to change.

 Microsoft Sessions

DATA PLATFORM 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.

DPHOL01

Hands-On Lab: Microsoft Fabric - A Full Day of Hands-On Learning

Intermediate

BRADLEY BALL, DANIEL TAYLOR, BRADLEY SCHACHT, JOSH LUEDEMAN, & BUCK WOODY
Sunday, November 17, 9:00am – 6:00pm

Are you ready to take your data skills to the next level? Do you want to learn how to leverage the power of Microsoft Fabric, the revolutionary SaaS product that's transforming the way businesses use data? If so, don't miss this opportunity to join us for an exciting exploration into Microsoft Fabric, the cutting-edge technology that lets you access and analyze data from any source without duplication. Whether you want to connect to existing data sources, create new data pipelines, perform advanced analytics, or build stunning dashboards, Microsoft Fabric has it all. You'll get to see how Azure Synapse Data Engineering, Data Factory, Data Science, Data Warehousing, Realtime Analytics, and Power BI work together seamlessly in Microsoft Fabric, giving you endless possibilities for data-driven insights.

Get hands-on experience with:
- Data Warehouses – Importing and Transforming Data using T-SQL
- Data Pipelines & Data Flows Gen2 – Import and Transforming Data
- Lakehouse – Transforming Data, Using Python Notebooks

- Data Wrangler – Visual Python Data Transformations
- Real-Time Analytics – Ingest Streaming Data, Write Queries, and Create Visualizations
- Azure OpenAI, Copilot, Database Mirroring, and More!

Don't miss this chance to discover the power of Microsoft Fabric and learn how you can use it to boost your business intelligence and modern analytics. Register now and join us for this amazing presentation!

You will learn:
- Understand the individual components of Microsoft Fabric & when to use them
- Gain hands-on experience with Microsoft Fabric
- Understand how to utilize different components in conjunction with one another

WORKSHOPS

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

DPM01

Workshop: SQL Performance Unleashed - Real-Time Data Platform Insights With Microsoft Fabric

Introductory

BRADLEY BALL & THOMAS LAROCK
Monday, November 18, 8:30am – 5:30pm

In this session, we'll explore how to harness the power of Microsoft Fabric and the newly introduced Database Watcher for Azure SQL to create insightful custom reports. Our focus will be on showcasing database performance metrics and translating community scripts into actionable visualizations using Power BI.

Key Topics Covered:
1. Introduction to Microsoft Fabric:
Understand the role of Microsoft Fabric in real-time analytics and data processing. Explore its capabilities for streamlining data ingestion, storage, and analysis.

2. Database Watcher for Azure SQL (Preview):
Discover the features and benefits of the Database Watcher. Learn how it enhances monitoring capabilities for Azure SQL Database and Azure SQL Managed Instance. Dive into workload monitoring data collection, configuration insights, and health assessment.

3. Integration with Microsoft Fabric:
Explore seamless integration between Database Watcher and Microsoft Fabric. See how monitoring data can be effortlessly streamed, stored, and analyzed in real-time using an Eventhouse KQL database within Fabric Real-Time Analytics. Understand how this integration empowers users to make informed decisions about their database performance.

4. Creating Custom Reports:
Once data resides in the Eventhouse KQL database, we'll demonstrate how to query it using KQL or T-SQL. Leverage Real-time Analytics KQL Querysets to execute queries, customize results, and gain insights. Build custom visualizations using KQL built-in visualizations or Power BI.

You will learn:
- Understand how to use Microsoft Fabric Realtime Analytics
- Understand how to set up and use Database Watcher for Azure SQL
- Understand how to create custom visualizations in Power BI to leverage insights into your Azure SQL environment

DPM02

Workshop: SQL Server Developer Deep Dive

Intermediate

LEONARD LOBEL
Monday, November 18, 8:30am – 5:30pm

This full-day workshop will get you up to speed on powerful new features in SQL Server 2022. Lenni will pull no punches as he rips through the most important SQL Server features for developers in this intensive demo-packed tour.

We'll kick things off with the broad multi-platform support across Windows, Linux, and Docker. Learn how SQL Server's ability to run inside Linux containers on both Windows and Mac will revolutionize the way you work with the database engine. Then you'll explore the Intelligent Query Processing (IQP) features, which deliver groundbreaking performance improvements to the query engine. We'll then move on to the latest development platform improvements, including T-SQL enhancements added in SQL Server 2022, Python integration, JSON support, and temporal tables. And you'll discover the

brand-new Data API Builder that enables you to instantly create REST and/or GraphQL endpoint services right over your database tables, views, and stored procedures.

Next, we'll explore security features, starting with ledger tables. New in SQL Server 2022, ledger utilizes blockchain technology that hashes every transaction, and guarantees tamper evidence in your database. Then we'll examine dynamic data masking, row-level security, Always Encrypted and demonstrate support for secure enclaves to enable rich querying over encrypted data. We'll wrap up with the latest PolyBase enhancements to query external data in Azure Blob Storage, Mongo DB, Oracle, and other remote data sources.

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

You will learn:
- How to boost developer productivity by running SQL Server inside Linux containers with Docker
- About Intelligent Query Processing features, T-SQL enhancements, Python integration, JSON support, and Data API Builder
- Discover the newest security features including ledger tables, Always Encrypted with secure enclaves, and the latest data virtualization capabilities with PolyBase

DPF01

Workshop: The SQL AI Workshop
Intermediate
DAVIDE MAURI
Friday, November 22, 8:00am – 5:00pm

Do you know SQL but are trying to catch up and learn about the new world of AI? In this workshop you will learn the fundamentals of Generative AI, how AI can apply to your data, and how AI integrates with SQL edge to cloud. You will learn concepts like language models, prompt engineering, Retrieval Augmented Generation (RAG), vectors and embedding, AI services, and other concepts used to build AI applications. You will also learn how to use Microsoft Copilot experiences to build SQL applications but also to manage and troubleshoot your SQL deployments. This is the one-stop shop to learn SQL and AI from the Microsoft engineering team.

You will learn:
- The fundamentals of AI capabilities associated with SQL
- How to build generative AI applications with your data in SQL
- Effective techniques to use Copilot experiences for SQL

BUSINESS INTELLIGENCE

Organizations are increasingly turning to Power BI, SQL Server Analysis Services and related technologies to help them understand their businesses better. Data Platform Live! presents great content to help you master the world of BI and analytics, and help your organization make every business decision a data-driven one.

DPT06

Fast Focus: How to Improve Your Power BI Report Design Skills With Workout Wednesday
Introductory / Intermediate
MEAGAN LONGORIA
Tuesday, November 19, 2:00 – 2:20pm

You will learn:
- About Workout Wednesday and how to find and complete challenges
- Complete a challenge live to demonstrate a Power BI reporting technique
- Discuss ways to use Workout Wednesday challenges to improve your Power BI skills and enhance your career path

DPW02

Understanding DAX, It's All About the Context
Introductory / Intermediate
ANGELA HENRY
Wednesday, November 20, 8:00 – 9:15am

You will learn:
- Understand filter context
- Understand row level context
- Understand how the combination of filter context and row level context equal evaluation context

DPW04

AI in Power BI
Introductory / Intermediate
GINGER GRANT
Wednesday, November 20, 9:30 – 10:45am

You will learn:
- Grasp the basics of integrating AI into Power BI to enhance productivity and elevate the quality of report creation with Copilot.
- Master the use of Copilot for writing DAX expressions and designing visuals, appreciating its role in streamlining development processes and fostering more intuitive and accessible reporting solutions.
- Understand Copilot's application within Power BI's semantic model and the Fabric service, and learn how it facilitates the development of user-friendly solutions, speeding up the creation process and enhancing user comprehension.

DATA PLATFORM LIVE! SESSION DESCRIPTIONS BY TRACK *(continued)*

⚙ DATABASE ADMINISTRATION & MAINTENANCE

Looking to brush up on SQL Server administration fundamentals? Are you a "reluctant DBA" charged with supporting SQL Server and Azure SQL Database, but given no training? Data Platform Live! is here to help with a complete selection of core maintenance topics and more.

DPTH04

A Modern Approach to Patching, Upgrades, and Technical Debt

Introductory / Intermediate

ALLAN HIRT
Thursday, November 21, 9:30 – 10:45am

You will learn:
• Learn how to minimize downtime
• Understand the difference between patching and upgrading
• Learn how to minimize technical debt

DPTH06

Infrastructure as a Service (VMs in the Cloud) for Data Professionals

Intermediate / Advanced

ALLAN HIRT
Thursday, November 21, 1:00 – 2:15pm

You will learn:
• Understand VM limitations in the cloud
• Understand cloud SLAs
• Understand how to baseline and benchmark to deploy in the cloud

🗄 DATA MANAGEMENT

Everyone needs help when it comes to data management, and Data Platform Live! is here to help you navigate the current data management landscape. Topics covered at Data Platform Live! include Azure Data Factory, data security, database deployments, and SQL Server datatypes.

DPT05

Fast Focus: Azure Data Factory Deployment Highlights

Introductory / Intermediate

ERIN DEMPSTER
Tuesday, November 19, 2:00 – 2:20pm

You will learn:
• Promote Azure Data Factory Changes
• Integrate ADF with Git Repos
• Deploy changes with CI/CD pipeline

DPT07

Introduction to Automated Database Deployments With Azure DevOps

Introductory / Intermediate

ERIN DEMPSTER
Tuesday, November 19, 2:45 – 4:00pm

You will learn:
• Basics of Visual Studio SQL Database projects
• Understand Azure DevOps areas (boards, repos and pipelines)
• Basics of Azure Pipelines for SQL Server database deployments

DPW01

⊞ SQL Server Security Ground to Cloud - A Workshop Audit

Intermediate

BUCK WOODY
Wednesday, November 20, 8:00 – 9:15am

You will learn:
• Learn the latest security frameworks and paradigms
• Understand SQL Server security operations both on-premises and in-cloud
• Create a checklist for the steps you should secure your organization's data

DPW03

Database Design: SQL Server Datatypes

Intermediate

THOMAS LAROCK
Wednesday, November 20, 9:30 – 10:45am

You will learn:
• Understand datatypes
• Choosing correct datatypes
• Fixing bad decisions

DPW06

Can Microsoft Purview Answer All Your Data Governance Needs?

Introductory

ANGELA HENRY
Wednesday, November 20, 9:30 – 10:45am

You will learn:
• What Microsoft Purview was designed to solve for
• About how Purview can help solve discovery, access, and insight needs
• If Purview is a good fit for your environment

DATA PLATFORM LIVE! SESSION DESCRIPTIONS BY TRACK *(continued)*

🏛 DATA LAKE, LAKEHOUSE & WAREHOUSE

There are many ways to store your analytics data, and it can be hard to keep track of the nuances between the different approaches, repositories, and formats available. Whether you're using Microsoft Fabric, Azure Synapse Analytics or even non-Microsoft platforms, Data Platform Live! provides you with content to help you make sense of your current data estate needs.

DPT04

Fast Focus: Data Lakehouses, Data Warehouses and Datamarts - When to Use Which in Microsoft Fabric

Introductory / Intermediate

ANDREW BRUST
Tuesday, November 19, 1:30 – 1:50pm

You will learn:
- The basics of data lakehouses, warehouses and marts
- How to choose the right platform for the right job
- Aligning platform choice with your org's current skillsets
- The right strategy for creating Power BI reports on your data

DPW08

Intro to Fabric Warehouse Workload Management

Introductory / Intermediate

MEAGAN LONGORIA
Wednesday, November 20, 4:00 – 5:15pm

You will learn:
- Explain options for warehouse workload isolation
- Explain bursting and smoothing and differences for data loading vs analytics workloads
- Demonstrate other ways to reduce load including using Direct Lake semantic models and table cloning

DPTH02

Populate Your Data Warehouse With a Metadata-Driven, Pattern-Based Approach

Introductory / Intermediate

MEAGAN LONGORIA
Thursday, November 21, 8:00 – 9:15am

You will learn:
- Demonstrate how to build metadata-driven pipelines
- Discuss the benefits of metadata-driven pipelines
- Demonstrate use of control tables to capture and serve metadata

⚙ DATABASE PERFORMANCE TUNING AND OPTIMIZATION

Get the most from your database—even if it's a third-party application database. Learn the insider tricks to performance tuning and indexing internals, and even learn about Performance Tuning SQL Server using Wait Statistics. Data Platform Live! helps you maximize your SQL Server and Azure SQL Database investment.

DPT09

Performance Tuning SQL Server Using Wait Statistics

Intermediate

THOMAS LAROCK
Tuesday, November 19, 4:15 – 5:30pm

You will learn:
- Query processing tasks
- Query wait events
- Performance tuning and troubleshooting

DPTH08

⊞ Experience the Story of SQL and Microsoft Fabric

Intermediate

BOB WARD
Thursday, November 21, 2:30 – 3:45pm

You will learn:
- Fundamentals of SQL Mirroring in Microsoft Fabric
- New experiences and capabilities for your databases with Microsoft Fabric

> ❝ **SPEAKERS, HOW FRIENDLY AND KNOWLEDGEABLE THEY ARE. TEACHERS WITH PASSION THAT WANT TO HELP AND MOTIVATE OTHERS.**"
>
> *– Live! 360 2023 attendee*

DATA PLATFORM LIVE! SESSION DESCRIPTIONS BY TRACK *(continued)*

STREAMING AND EVENT DATA TECHNIQUES

The need for real-time analytics is growing as more and more companies embrace platforms such as Microsoft Fabric to gain actionable insights from both structured and unstructured real-time streaming event data. Data Platform Live! has coverage for messaging & streaming, and Fabric's Real-Time Intelligence workload.

DPT03

Fast Focus: Microsoft - Embargoed Topic on Data

Intermediate

BUCK WOODY
Tuesday, November 19, 1:30 – 1:50pm

Details coming soon.

DPTH05

Type-safe, Polyglot Messaging and Eventing: Stream/Queue/Topic "of T"

Advanced

CLEMENS VASTERS
Thursday, November 21, 1:00 – 2:15pm

You will learn:
- Understand various data schema options
- Understand eventing/messaging metadata models and infrastructure
- About code generators and platforms that take advantage of metadata

DPTH07

Introduction to Data Activator in Microsoft Fabric

Introductory / Intermediate

JOSH LUEDEMAN
Thursday, November 21, 2:30 – 3:45pm

You will learn:
- Understand fundamental use cases of Data Activator
- Integration use cases for applications like Power Automate, email, or Teams
- Set alerts based on different data sources like Eventstreams and PowerBI

DATABASE DEVELOPMENT

Developers have an incredible amount of impact on database application functionality and performance, and Data Platform Live! shines a spotlight to help developers deliver more. From topics like using REST APIs from T-SQL, as well as a full-day SQL Server Developer Dive workshop, there's plenty of content to keep you busy—or to supplement your Visual Studio Live! agenda.

DPT10

Empowering AI Applications with Vector Search in SQL Server and Azure Cosmos DB

Intermediate

LEONARD LOBEL
Tuesday, November 19, 4:15 – 5:30pm

You will learn:
- Get familiar with retrieval augmented generation, vector indexing, vector search, and other foundational AI concepts
- See how to integrate your database with Azure OpenAI to deliver a rich AI experience
- Watch live demos that showcase these capabilities using SQL Server, Azure SQL Database, and Azure Cosmos DB

DPW07

Welcome to the Age of SQL Copilots

Intermediate

BOB WARD
Wednesday, November 20, 4:00 – 5:15pm

You will learn:
- The capabilities of new Copilot technology for SQL developers and IT Pros
- How Copilot capabilities for self-assist can help save you time and effort for your most common and toughest SQL problems and questions
- How to use the NL2SQL Copilot capabilities to accelerate your T-SQL skills

DPTH01

Creating REST and GraphQL Database Endpoints With Data API Builder

Intermediate

LEONARD LOBEL
Thursday, November 21, 8:00 – 9:15am

You will learn:
- How to expose REST and GraphQL endpoints over your database model
- Apply filtering, sorting, and pagination in your database API calls
- Secure your database API with authentication and authorization

DPTH03

Azure SQL ♥ Open AI

Intermediate

DAVIDE MAURI
Thursday, November 21, 9:30 – 10:45am

You will learn:
- Understand how to use AI with your own data
- What feature are offered by Azure SQL to integrate with OpenAI
- Get practical advice on how to add AI on your data to your applications

DATA PLATFORM LIVE! SESSION DESCRIPTIONS BY TRACK *(continued)*

MICROSOFT FABRIC

Announced at Microsoft Build last year, Microsoft Fabric is an end-to-end, unified analytics platform that brings together all the data and analytics tools organizations need, including data ingest and integration, lakehouse and warehouse, real-time intelligence, BI, and AI. Data Platform Live! offers content on Fabric from both the experts at Microsoft and independent practitioners to help you understand how and where Fabric would work best for you.

DPT01

Microsoft's Data: The Super-Secret Session

Introductory

BRADLEY BALL, DANIEL TAYLOR, BRADLEY SCHACHT, & BUCK WOODY
Tuesday, November 19, 9:15 – 10:45am

We have some exciting news!!!! ….but it's a secret. For now. Lot's of great announcements!!! But we cannot tell you anything about it…… yet. What we can tell you is it involves Microsoft…. and ….data. That's all we can say for now…

DPT02

Microsoft Fabric: Defragmenting the Analytics Stack

Intermediate

ANDREW BRUST
Tuesday, November 19, 9:15 – 10:45am

You will learn:
- Basic analytics concepts, including data lakes, columnar storage and dimensional analysis
- How Fabric combines elements of Azure services like Synapse Analytics, Data Factory, Event Hubs, Stream Analytics and Data Explorer with Power BI and open source technologies, and makes them all easier to use

- How analysts, data engineers and data scientists can collaborate on the same data, using their own toolchains and skillsets
- The economics of unified, SaaS-based analytics vs. specialized, PaaS-based solutions

DPW05

Using AI to Improve Spark Development in Microsoft Fabric

Introductory

GINGER GRANT
Wednesday, November 20, 2:00 – 3:15pm

You will learn:
- Understand the use of Copilot magic commands and how they can be used to implement Copilot features when writing pySpark in Microsoft Fabric
- Explore how you can use Data Wrangler to transform your data with auto-generated Python code.
- How to use Copilot prompts to generate code for your specific data

> **"** THE PRESENTERS ARE THE BEST INDUSTRY. THEY'RE KNOWLEDGEABLE AND ENTHUSIASTIC ABOUT THEIR SUBJECT MATTER, AND EXPLAIN THINGS IN A WAY THAT ARE INFORMATIVE FOR BEGINNERS AND EXPERTS ALIKE. THIS IS MY FIFTH OR SIXTH VS LIVE — I'VE BEEN COMING SINCE 2007, BUT THIS WAS MY FIRST ONE IN A DECADE. WISH I HAD COME BACK SOONER, BECAUSE I HAD FORGOTTEN HOW MUCH OF AN INFLUENCE IT HAD ON MY CAREER!"
>
> *— Thomas Offen, Live! 360 2023 attendee*

DATA PLATFORM LIVE! SPEAKERS

CONFERENCE CHAIRS

Andrew Brust
CEO and Founder,
Blue Badge Insights

Data Platform Live! Conference Co-Chair

Thomas LaRock
Manager, Data Engineering,
BlackLine

Data Platform Live! Conference Co-Chair

SPEAKERS

Bradley Ball
Sr. Azure Engineer for the Azure FastTrack CXP PG, Microsoft

Andrew Brust
CEO and Founder, Blue Badge Insights

Erin Dempster
IT Data Operations Team Lead, Trean Corporation

Ginger Grant
Principal Data Geek, Desert Isle Group

Angela Henry
Principal Consultant, Fortified

Allan Hirt
Founder and Managing Partner, SQLHA, LLC

Thomas LaRock
Manager, Data Engineering, BlackLine

Leonard Lobel
CTO, Sleek Technologies, Inc.

Meagan Longoria
Data & Analytics Consultant, Denny Cherry & Associates Consulting

Josh Luedeman
Principal Engineering Manager, Microsoft

Davide Mauri
Principal Product Manager, Microsoft

Sanjay Mishra
Data and AI Product Leader, Microsoft

Bradley Schacht
Principal Program Manager, Microsoft Fabric CAT, Microsoft

Daniel Taylor
Sr. Service Engineer, Microsoft

Clemens Vasters
Chief Messenger, Microsoft Azure, Microsoft

Bob Ward
Principal Architect, Microsoft Azure Data Team, Microsoft

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

LIVE! 360
TECH EVENTS WITH PERSPECTIVE

TECHMENTOR
IN-DEPTH TRAINING FOR IT PROS

ORLANDO 2024
ROYAL PACIFIC RESORT AT UNIVERSAL
NOVEMBER 17-22, 2024

TECHMENTOR
IN-DEPTH TRAINING FOR IT PROS

AGENDA-AT-A-GLANCE

Client and Endpoint Management	PowerShell and DevOps	Infrastructure	Soft Skills for IT Pros	Security	Azure (Public/Hybrid)	Office 365 for the IT Pro

START TIME	END TIME	TechMentor Pre-Conference Hands-On Lab: Sunday, November 17, 2024
7:00 AM	9:00 AM	**Hands-On Lab Registration • Coffee and Morning Pastries**
9:00 AM	6:00 PM	**TMHOL01** Hands-On Lab: Migrating to Server 2022/2025 and Azure - *Dave Kawula & Cristal Kawula*
10:00 AM	7:00 PM	**Pre-Conference Registration** - *Royal Pacific Resort Conference Center*

START TIME	END TIME	TechMentor Pre-Conference Workshops: Monday, November 18, 2024
7:00 AM	8:30 AM	**Registration • Coffee and Morning Pastries**
8:30 AM	5:30 PM	**TMM01** Workshop: Mastering Microsoft Copilot: Enhancing Productivity and Collaboration for IT Pros - *John O'Neill Sr.* / **TMM02** Workshop: Active Directory 101 - *Derek Melber*
5:45 PM	6:15 PM	**Live! 360 First Timers Forum: A New Attendees Guide**
6:30 PM	8:00 PM	**Mix & Mingle @ Hard Rock Café Universal CityWalk**

START TIME	END TIME	TechMentor Day 1: Tuesday, November 19, 2024
7:00 AM	8:00 AM	**Registration** • Coffee and Morning Pastries
8:00 AM	9:00 AM	**TECHMENTOR KEYNOTE: Legacy Meets Innovation - Group Policy and Intune Together** *Jeremy Moskowitz, Founder, GPanswers.com & PolicyPak Software*
9:15 AM	10:30 AM	**TMT01** Copilot Readiness - *Stacy Deere-Strole* / **TMT02** LAPS 2.0 Ninja Hour! - *Jeremy Moskowitz* / **TMT03** Diving Deep into Windows Autopilot Device Provisioning - *Michael Niehaus*
10:30 AM	11:00 AM	**Networking Break • Visit the EXPO Lounge** - *Pacifica 7*
11:00 AM	12:00 PM	**LIVE! 360 KEYNOTE: To Be Announced** *Mads Kristensen, Principal Product Manager, Microsoft*
12:00 PM	12:45 PM	**Lunch** - *Oceana Ballroom* • **Visit the EXPO Lounge** - *Pacifica 7*
12:45 PM	1:30 PM	**Dessert Break • Visit the EXPO Lounge** - *Pacifica 7*

Sessions and speakers subject to change.

Microsoft Sessions

AGENDA-AT-A-GLANCE *(continued)*

Client and Endpoint Management	PowerShell and DevOps	Infrastructure	Soft Skills for IT Pros	Security	Azure (Public/Hybrid)	Office 365 for the IT Pro

START TIME	END TIME	TechMentor Day 1: Tuesday, November 19, 2024 *(Continued)*				
1:30 PM	1:50 PM	\multicolumn{3}{l}{**TMT04** Fast Focus: How to Talk to Executives - A Translation Guide for IT Folks - *Greg Altman*}			**TMT05** Fast Focus: A Good Leader is the Best Incentive of All - *Omar Valerio*	
2:00 PM	2:20 PM	\multicolumn{3}{l}{**TMT06** Fast Focus: Migrating From Legacy LAPS to Windows LAPS - *Jörgen Nilsson*}			**TMT07** Fast Focus: IT Career Change: Consulting and Pre-Sales - *Émile Cabot*	
2:20 PM	2:45 PM	Networking Break • Visit the EXPO Lounge - *Pacifica 7*				
2:45 PM	4:00 PM	**TMT08** Copilot for End Users - Getting Started - *Stacy Deere-Strole*	**TMT09** Azure WAF Mastery: Securing Web Applications With Confidence (Part 1) - *Yung Chou*					**TMT10** What's the Future of Image-based Windows OS Deployment? - *Michael Niehaus*
4:15 PM	5:30 PM	**TMT11** Deploying, Configuring, Securing, and Supporting Microsoft Entra Connect - *John O'Neill Sr.*	**TMT12** Azure WAF Mastery: Securing Web Applications With Confidence (Part 2) - *Yung Chou*					**TMT13** Reimagined Office 365 Software Adoption Led by IT Pros - *Gus Hytonen*
5:30 PM	7:00 PM	Exhibitor Welcome Reception - *Pacifica 7*				
START TIME	END TIME	TechMentor Day 2: Wednesday, November 20, 2024				
7:30 AM	8:00 AM	Registration • Coffee and Morning Pastries				
8:00 AM	9:15 AM	**TMW01** Windows Updates for Business - *Kevin Kaminski*	**TMW02** Migrating to PowerShell 7 - *Michael Niehaus*			**TMW03** Active Directory 101: Core Foundational Concepts - *Derek Melber*		
9:30 AM	10:45 AM	**TMW04** Migrating SQL Server to Azure: Tips and Tricks - *Edwin Sarmiento*	**TMW05** Conditional Access - Best Practices for Securing Your M365 Environment - *Émile Cabot*			**TMW06** Active Directory 101: Fundamental Administration - *Derek Melber*		
10:45 AM	11:30 AM	Networking Break • Visit the EXPO Lounge - *Pacifica 7*				
11:30 AM	12:30 PM	**LIVE! 360 KEYNOTE: The Future of IT** *Marcel de Vries*, Global MD & CTO, Xebia				
12:30 PM	1:30 PM	Table Topics Lunch - *Oceana Ballroom*				
1:30 PM	2:00 PM	Dessert Break • Visit the EXPO Lounge - *Pacifica 7*				
2:00 PM	3:15 PM	**TMW07** Getting to Know Microsoft Intune Suite - *Jan Ketil Skanke & Jörgen Nilsson*	**TMW08** Building a Rapidly Deployable Secure Network in Minutes (Starlink) - *John O'Neill Sr.*				**TMW09** Moving From VMWare Horizon to Azure Virtual Desktop - *Greg Altman*	
3:15 PM	4:00 PM	Networking Break • Visit the EXPO Lounge • Expo Raffle @ 3:30 p.m. - *Pacifica 7*				
4:00 PM	5:15 PM	**TMW10** Dark Arts of PowerShell - *James Brundage*	**TMW11** Managing Intune Apps the Easy Way - *Émile Cabot*				**TMW12** Migrating From VMWare to Azure Stack HCI - *Greg Altman & Christopher Bir*	
7:30 PM	9:00 PM	**Live! 360 Dessert Luau** - *Wantilan Pavilion*				

Sessions and speakers subject to change.

Microsoft Sessions

AGENDA-AT-A-GLANCE *(continued)*

Client and Endpoint Management	PowerShell and DevOps	Infrastructure	Soft Skills for IT Pros	Security	Azure (Public/Hybrid)	Office 365 for the IT Pro

START TIME	END TIME	TechMentor Day 3: Thursday, November 21, 2024					
7:30 AM	8:00 AM	Registration • Coffee and Morning Pastries					
8:00 AM	9:15 AM	**TMTH01** Winget for the System Administrator - *Kevin Kaminski*		**TMTH02** Enhance Security While Increasing Your Admin Superpowers - *John O'Neill Sr.*		**TMTH03** Essential Microsoft 365 Security Features Crash Course - *Karinne Bessette*	
9:30 AM	10:45 AM	**TMTH04** Taking Control of Local Admin Privilege With Intune and Entra ID - *Jan Ketil Skanke & Jörgen Nilsson*		**TMTH05** Security Baselines / Hardening for Windows Servers and Desktops - *Dave Kawula and Cristal Kawula*		**TMTH06** Step into Azure Storage on Secure Footing - *Karinne Bessette*	
11:00 AM	12:00 PM	**TECHMENTOR PANEL DISCUSSION: We Got Hacked, What Does the Recovery Process Look Like?** Dave Kawula [Moderator], Karinne Bessette, John O'Neill Sr., Kevin Kaminski, & Jan Ketil Skanke					
12:00 PM	1:00 PM	Live! 360 DJ Lunch					
1:00 PM	2:15 PM	**TMTH07** SQL Server High Availability and Disaster Recovery - *Edwin Sarmiento*		**TMTH08** Defense Against the Dark Arts of PowerShell - *James Brundage*		**TMTH09** 75 Life Hacks of Windows - *Sami Laiho*	
2:30 PM	3:45 PM	**THTH10** Intune Endpoint Reporting and Monitoring Using Log Analytics - *Jan Ketil Skanke & Jörgen Nilsson*		**TMTH11** PowerShell Tools and Techniques Basics for IT Pros, Not Devs - *John O'Neill Sr.*		**TMTH12** Building a Secure and Disaster Attested (SADA) Environment - *Dave Kawula & Cristal Kawula*	
4:00 PM	5:00 PM	**LIVE! 360 WRAP PARTY** **Tech Presentation: TBD** - ***Billy Hollis**, Developer. Designer. Speaker. Author.* **Q&A with Live! 360 Conference Chairs & Speakers:** Andrew J. Brust, Angela Dugan, Dave Kawula, Sami Laiho, Thomas LaRock, Rockford Lhotka, Brian A. Randell, Sara Caldwell, Chris Klug, Amber Vanderburg, Bradley Ball, Meagan Longoria, Allan Hirt, Chris Ayers, Layla Porter, Carey Payette & Jan Ketil Skanke					
START TIME	END TIME	TechMentor Post-Conference Workshop: Friday, November 22, 2024					
7:30 AM	8:00 AM	Registration • Coffee and Morning Pastries					
8:00 AM	5:00 PM	**TMF01** Workshop: Going Cloud Native With Your Endpoint Management - *Jan Ketil Skanke & Jörgen Nilsson*					

Sessions and speakers subject to change.

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: Migrating to Server 2022/2025 and Azure

Intermediate

DAVE KAWULA & CRISTAL KAWULA
Sunday, November 17, 9:00am – 6:00pm

The conclusion of support for Windows Server 2016 and 2012 in 2024 has heightened the urgency for organizations to maintain current and updated infrastructure. The persistence of outdated legacy systems is no longer acceptable merely due to uncertainty about their management. This intensive 1-day instructor guided hands-on lab addresses the need to modernize critical IT infrastructure assets.

Participants will delve into essential topics such as the migration to Microsoft's latest flagship server operating system, Windows Server 2022/2025, and the core infrastructure roles of Active Directory, DHCP, DNS, Print Services, File Services, Web Services (IIS), and in-place upgrades of application servers.

But the learning doesn't stop there the migration of critical workloads to Azure using Azure Migrate and Azure Site Recovery.

During this hands-on seminar, participants will gain expertise in:
- Upgrading key infrastructure roles such as Active Directory, DHCP, DNS.
- The process of upgrading Web Application Servers (IIS).

- Upgrading both physical and virtual servers are running earlier Windows versions.
- Engaging in hands-on demos for migrating a data center to the Cloud.
- Understanding the migration of workloads to Azure and associated requirements.

Attendee Requirements:
- You must provide your own laptop computer (Windows or Mac) for this hands-on lab.
- All other requirements will be posted 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: Mastering Microsoft Copilot: Enhancing Productivity and Collaboration for IT Pros

Intermediate

JOHN O'NEILL SR.
Monday, November 18, 8:30am – 5:30pm

This comprehensive eight-hour workshop is designed to provide IT professionals with an in-depth understanding and practical knowledge of Microsoft Copilot. Participants will learn how to leverage Copilot's features to boost productivity, enhance collaboration, and streamline workflows within their organizations. The workshop will include hands-on exercises, real-world scenarios, and expert insights to ensure a well-rounded learning experience.

Join this workshop to:
- Gain a comprehensive understanding of Microsoft Copilot and its features
- Learn how to set up, customize, and use Copilot to automate routine tasks
- Enhance team collaboration and communication using Copilot

- Explore advanced features and customization options for specific needs
- Understand security, privacy, and compliance considerations with Copilot

TMM02

Workshop: Active Directory 101

Introductory / Intermediate

DEREK MELBER
Monday, November 18, 8:30am – 5:30pm

In this workshop we will dive into the world of Active Directory management and automation. We will cover objects, logs, group policy, and more. We will complete tasks using built in GUI tools, PowerShell, command line, and more. Completing this workshop will give you insights and a toolset to control an Active Directory environment.

You will learn:
- When to use a GUI tool vs PowerShell scripts
- How to work with PowerShell in Active Directory
- About building a set of tools to make administering AD a breeze

TMF01

Workshop: Going Cloud Native With Your Endpoint Management

Advanced

JAN KETIL SKANKE & JÖRGEN NILSSON
Friday, November 22, 8:00am – 5:00pm

This in-depth workshop covers the essential aspects of transitioning from on-premises client management to cloud native management with Microsoft Intune and Entra ID. We will also touch on the hybrid challenge.

Module 1: Intro to Cloud Native Management
- Explain the shift from on-premises to cloud management using Microsoft Intune and Windows Autopilot
- Entra Joined vs Hybrid Entra Joined
- Enrollment / Groups / Targeting: Walkthrough on how devices are enrolled, creating groups, and targeting policies.

Module 2: Configuring Windows with Intune
- Device Configuration Profiles, Templates, Security Baselines and the Settings Catalog
- ADMX-backed policies - Explain how to leverage existing policies and extend them with Intune.

TECHMENTOR SESSION DESCRIPTIONS BY TRACK *(continued)*

- Group Policy Analytics and Migration
- Windows Update for Business / Autopatch

Module 3: Endpoint Security features
- Bitlocker: Cover device encryption and management with Bitlocker in Intune.
- Antivirus and Firewall: Explore how Intune handles antivirus and firewall settings.
- Endpoint Privilege Management: Discuss securing privileged access to endpoint
- Cloud PKI

Module 4: Scripting in Intune (Close the gap)
- Platform scripts: Introduce the use of PowerShell for custom configurations.
- Remediations: Discuss how to use remediations scripts
- Custom Compliance with PowerShell

Module 5: Role Based Access Control and Delegation
- Intune RBAC Configurations
- Scope Tags
- Multi Admin Approval for Apps and Scripts

Module 6: Application Management
- Enterprise App Management
- Win32 Apps
- Store Apps (WinGet)

You will learn:
- How to get started on the journey to Cloud Native Management
- About configuring and securing your Windows Devices with Intune
- About RBAC and Delegation in Intune

> **BESIDES THE CONFERENCE, IT'S GREAT TO BE NEXT TO OTHER ACTIVITIES AROUND THAT I CAN ENJOY."**
>
> *– Live! 360 2023 attendee*

CLIENT AND ENDPOINT MANAGEMENT

In this track, participants will explore the client and endpoint management world, focusing on the tools and techniques necessary to manage and secure end-user devices efficiently. Topics covered include operating system deployment, application deployment and management, patch management, device configuration, and troubleshooting. In addition, participants will gain hands-on experience with industry-standard tools and best practices to manage client devices in a corporate environment effectively. By the end of this track, participants will be equipped with the skills and knowledge to streamline endpoint management and enhance user productivity.

TMT03

Diving Deep into Windows Autopilot Device Provisioning
Advanced
MICHAEL NIEHAUS
Tuesday, November 19, 9:15 – 10:30am

You will learn:
- How Windows Autopilot works
- How to effectively troubleshoot Windows Autopilot
- How to extend and enhance the Autopilot device provisioning process.

TMT10

What's the Future of Image-based Windows OS Deployment?
Intermediate
MICHAEL NIEHAUS
Tuesday, November 19, 2:45 – 4:00pm

You will learn:
- Understand what's going away
- About new approaches and tools
- The key bare metal imaging scenarios

TMW01

Windows Updates for Business
Intermediate
KEVIN KAMINSKI
Wednesday, November 20, 8:00 – 9:15am

You will learn:
- About Windows Updates for Business (WUfB) 's architecture and how it differs from traditional patch management systems.
- Various patch deployment strategies to optimize software updates for firmware and drivers, ensuring increased stability and security for end-user devices.
- Various patch deployment strategies to optimize software updates for firmware and drivers, ensuring increased stability and security for end-user devices.

TMW05

Conditional Access - Best Practices for Securing Your M365 Environment
Intermediate
ÉMILE CABOT
Wednesday, November 20, 9:30 – 10:45am

You will learn:
- How CA policies fit into your protection landscape.
- Why some policies are essential for everyone with a M365 account.
- The steps required to implement each recommended policy.

TMW07

Getting to know Microsoft Intune Suite
Intermediate
JAN KETIL SKANKE & JÖRGEN NILSSON
Wednesday, November 20, 2:00 – 3:15pm

You will learn:
- About the Intune Suite
- About Advanced Endpoint Analytics and other features
- About Enterprise App Management and Remote help

TECHMENTOR SESSION DESCRIPTIONS BY TRACK *(continued)*

TMW11

Managing Intune Apps the Easy Way
Intermediate
ÉMILE CABOT
Wednesday, November 20, 4:00 – 5:15pm

You will learn:
- About the new options for app lifecycle management in Intune
- About commercial and free 3rd party applications that integrate well with Intune
- How app deployment differs between Intune and Configuration Manager

TMTH04

Taking Control of Local Admin Privilege With Intune and Entra ID
Advanced
JAN KETIL SKANKE & JÖRGEN NILSSON
Thursday, November 21, 9:30 – 10:45am

You will learn:
- How to get started with Endpoint Privileged Management in Intune
- How to deploy and configure Windows Laps with Intune
- Important steps to move away from Local Admin

THTH10

Intune Endpoint Reporting and Monitoring Using Log Analytics
Advanced
JAN KETIL SKANKE & JÖRGEN NILSSON
Thursday, November 21, 2:30 – 3:45pm

You will learn:
- How to enhance your reports with custom data
- How to get started on learning KQL
- The different ways of collecting data from your endpoints

POWERSHELL AND DEVOPS

This track is designed to give participants a comprehensive understanding of PowerShell scripting and its application in a DevOps environment. Participants will learn the fundamentals of PowerShell, including scripting, automation, and module development. In addition, the track will cover topics such as version control, continuous integration and delivery, infrastructure as code, and configuration management. Finally, participants will engage in hands-on exercises, real-world scenarios, and collaborative projects to develop their PowerShell and DevOps skills. Upon completing this track, participants can leverage PowerShell to automate tasks, streamline processes, and enhance efficiency in their IT operations.

TMW02

Migrating to PowerShell 7
Intermediate
MICHAEL NIEHAUS
Wednesday, November 20, 8:00 – 9:15am

You will learn:
- What's different about PowerShell 7
- Migration strategies for moving from PowerShell 5.1
- New features available since PowerShell 5.1

TMW10

Dark Arts of PowerShell
Intermediate / Advanced
JAMES BRUNDAGE
Wednesday, November 20, 4:00 – 5:15pm

You will learn:
- About some scripts that might scare you
- Some interesting vectors
- How to increase your knowledge of the dark side

TMTH08

Defense Against the Dark Arts of PowerShell
Intermediate / Advanced
JAMES BRUNDAGE
Thursday, November 21, 1:00 – 2:15pm

You will learn:
- Why secure scripting matters
- How to script securely
- How to Threat Model scripts with STRIDE

TMTH11

PowerShell Tools and Techniques Basics for IT Pros, Not Devs
Introductory / Intermediate
JOHN O'NEILL SR.
Thursday, November 21, 2:30 – 3:45pm

You will learn:
- The three foundation concepts empowering all IT Pros to leverage PowerShell
- What tools speed up PowerShell use
- About turning one-liners into functions and functions into modules

> **" I LIKE THE VARIETY OF CONTENT. IT MADE IT A GREAT VALUE FOR ME AND MY TEAM."**
>
> *– Live! 360 2023 attendee*

TECHMENTOR SESSION DESCRIPTIONS BY TRACK *(continued)*

INFRASTRUCTURE

In this track, participants will dive into infrastructure management, covering the essential components and best practices for designing, deploying, and managing robust IT infrastructures. Topics covered include network architecture, virtualization, storage solutions, server administration, and high availability. In addition, participants will gain hands-on experience with industry-leading technologies and tools through practical exercises and simulations. By the end of this track, participants will possess the skills and knowledge required to build and maintain scalable, resilient, and secure IT infrastructures.

TMW03

Active Directory 101: Core Foundational Concepts

Introductory / Intermediate

DEREK MELBER
Wednesday, November 20, 8:00 – 9:15am

You will learn:
- About core Active Directory concepts
- How to use core AD tools
- How to leverage existing AD knowledge to expand administrative capabilities

TMW06

Active Directory 101: Fundamental Administration

Introductory / Intermediate

DEREK MELBER
Wednesday, November 20, 9:30 – 10:45am

You will learn:
- About the various group types and when to use them
- How to provision and manage user accounts securely
- The key concepts when managing computer accounts

TMW08

Building a Rapidly Deployable Secure Network in Minutes (Starlink)

Introductory / Intermediate

JOHN O'NEILL SR.
Wednesday, November 20, 2:00 – 3:15pm

You will learn:
- How to architect and design an RDSN
- RDSN hardware and connectivity service options
- Advanced RDSN configurations including site-to-site VPNs, remote work support, and power-limited, remote location deployments

TMTH02

Enhance Security While Increasing Your Admin Superpowers

Introductory / Intermediate

JOHN O'NEILL SR.
Thursday, November 21, 8:00 – 9:15am

You will learn:
- How to implement advanced access control techniques to enhance security
- How to automate routine security tasks to save time and reduce human error
- How to integrate and utilize cutting-edge tools to streamline administrative processes

SOFT SKILLS FOR IT PROS

This track focuses on developing the essential soft skills required for success as an IT professional. Participants will explore effective communication, problem-solving, time management, and collaboration techniques. In addition, the track will cover topics such as customer service, conflict resolution, project management, and leadership skills. Through interactive workshops, group discussions, and role-playing exercises, participants will enhance their interpersonal skills and gain insights into managing stakeholders, working effectively in teams, and delivering exceptional IT services. This track aims to equip participants with the non-technical skills necessary to thrive in their IT careers.

TMT04

Fast Focus: How to Talk to Executives - A Translation Guide for IT Folks

Introductory

GREG ALTMAN
Tuesday, November 19, 1:30 – 1:50pm

You will learn:
- How to sell a project to the C-Suite
- How to translate "corporate" to "technical" and back
- Bonus: a proven template to present a project in a way they understand

TECHMENTOR SESSION DESCRIPTIONS BY TRACK *(continued)*

TMT05

Fast Focus: A Good Leader is the Best Incentive of All

Introductory

OMAR VALERIO

Tuesday, November 19, 1:30 – 1:50pm

You will learn:
- How to get your foot in the door
- About building connections with Admin Teams
- How to earn the respect of your IT Team

TMT07

Fast Focus: IT Career Change - Consulting and Pre-Sales

Introductory

ÉMILE CABOT

Tuesday, November 19, 2:00 – 2:20pm

You will learn:
- How to deliver technical content to the C-Suite.
- Tips and Tricks on socializing with the client.
- What to do from an education perspective to prepare for the transition.

> **" I LEARNED AN IMMENSE AMOUNT OF NEW THINGS AND MAKE SOME STRONG CONNECTIONS WITH PEERS. I HOPE TO REMAIN CONNECTED AND KEEP LEARNING."**
>
> – Jared Kuehn, Live! 360 2023 attendee

SECURITY

This track delves into the critical field of cybersecurity, equipping participants with the knowledge and skills to protect organizations from evolving threats. Participants will explore security frameworks, risk management strategies, threat intelligence, and incident response. In addition, the track will cover topics such as network security, vulnerability management, identity and access management, and data protection. Through practical exercises, simulations, and case studies, participants will develop hands-on skills to mitigate security risks, implement security controls, and respond effectively to security incidents.

TMTH05

Security Baselines / Hardening for Windows Servers and Desktops

Intermediate

DAVE KAWULA & CRISTAL KAWULA

Thursday, November 21, 9:30 – 10:45am

You will learn:
- The concept of security baselines and their importance in safeguarding Windows environments
- Industry best practices and recommended configurations for hardening Windows servers and desktops
- Insights into effective patch management strategies and security policy implementation to mitigate potential vulnerabilities and threats

TMTH09

75 Life Hacks of Windows

Intermediate

SAMI LAIHO

Thursday, November 21, 1:00 – 2:15pm

You will learn:
- The hidden Easter eggs of Windows
- How to make your life easier with Windows
- How to save time on common tasks

TMTH12

Building a Secure and Disaster Attested (SADA) Environment

Intermediate

DAVE KAWULA & CRISTAL KAWULA

Thursday, November 21, 2:30 – 3:45pm

You will learn:
- The concept of a SADA and its role in securing key infrastructure
- How to identify and analyze common cyber security threats faced by organizations
- The advantages and significance of moving critical infrastructure to a secured SADA environment

AZURE (PUBLIC/HYBRID)

In this track, participants will delve into the world of Microsoft Azure, gaining a deep understanding of its capabilities and how to leverage them in both public and hybrid cloud environments. Participants will learn about Azure architecture, virtual machines, storage, networking, security, and automation. The track will also cover Azure resource management, monitoring, and cost optimization topics. Through hands-on labs, practical exercises, and real-world scenarios, participants will develop the skills to design, deploy, and manage Azure infrastructure effectively, enabling organizations to harness the power of the cloud for their IT needs.

TECHMENTOR SESSION DESCRIPTIONS BY TRACK *(continued)*

TMT02

LAPS 2.0 Ninja Hour!
Intermediate

JEREMY MOSKOWITZ
Tuesday, November 19, 9:15 – 10:30am

You will learn:
- About LAPS 1.0 vs LAPS 2.0.
- Where to store LAPS passwords and how to retrieve them
- The moving parts of LAPS to get it deployed right the first time

TMT06

Fast Focus: Migrating From Legacy LAPS to Windows LAPS
Intermediate / Advanced

JÖRGEN NILSSON
Tuesday, November 19, 2:00 – 2:20pm

You will learn:
- How to migrate to Windows LAPS
- Recommended configuration
- Configuration recommendations

TMT09

▪ Azure WAF Mastery: Securing Web Applications With Confidence (Part 1)
Intermediate

YUNG CHOU
Tuesday, November 19, 2:45 – 4:00pm

Part 1 aims to establish a robust defense and explore the operational intricacies of Azure WAF, covering its integration with other Azure services and the essential steps for configuration, deployment, and monitoring.

TMT12

▪ Azure WAF Mastery: Securing Web Applications With Confidence (Part 2)
Intermediate

YUNG CHOU
Tuesday, November 19, 4:15 – 5:30pm

Part 2 adopts a hands-on approach, featuring real-time demonstrations where we'll attempt to breach a web application with and without WAF protection, showcasing its effectiveness against common threats such as cross-site scripting and SQL injection.

TMW04

Migrating SQL Server to Azure Tips and Tricks
Intermediate / Advanced

EDWIN SARMIENTO
Wednesday, November 20, 9:30 – 10:45am

You will learn:
- How to evaluate requirements when planning a SQL Server database migration project to Microsoft Azure
- The different tools and strategies available to migrate SQL Server databases to Microsoft Azure
- Best practices, tips, and tricks on improving operational processes after the migration

TMW09

Moving From VMWare Horizon to Azure Virtual Desktop
Introductory

GREG ALTMAN
Wednesday, November 20, 2:00 – 3:15pm

You will learn:
- Business reasons to move from Horizon to Azure Virtual Desktop
- Technical steps to accomplish the move
- About maintaining and automating the environment

TMW12

Migrating From VMWare to Azure Stack HCI
Intermediate / Advanced

GREG ALTMAN & CHRISTOPHER BIR
Wednesday, November 20, 4:00 – 5:15pm

You will learn:
- The benefits of migrating to Azure Stack HCI
- About standardizing Server builds with Azure Resource Manager and Bicep
- About avoiding pitfalls while migrating the environment

TMTH01

Winget for the System Administrator
Intermediate

KEVIN KAMINSKI
Thursday, November 21, 8:00 – 9:15am

You will learn:
- How to enable winget in your organization and understand its capabilities.
- How domain joined, and Entra ID affects the management of winget.
- What is and what isn't possible with winget packages.

TMTH06

Step into Azure Storage on Secure Footing
Introductory

KARINNE BESSETTE
Thursday, November 21, 9:30 – 10:45am

You will learn:
- The options available for storage in Azure
- How to build-in security features
- Where to track logging and monitoring

TMTH07

SQL Server High Availability and Disaster Recovery
Intermediate / Advanced

EDWIN SARMIENTO
Thursday, November 21, 1:00 – 2:15pm

You will learn:
- How to evaluate requirements when implementing an HA/DR project
- How to identify different SQL Server features and technologies - backup, recovery, log shipping, failover clustering, Always On Availability Groups - that can be used in addressing HA/DR requirements for both on-premises and public cloud deployments
- How to implement the appropriate technology to meet HA/DR service level agreements

TECHMENTOR SESSION DESCRIPTIONS BY TRACK *(continued)*

OFFICE 365 FOR IT PROS

This track focuses on the comprehensive management and administration of Microsoft Office 365, covering the key components and features essential for IT professionals. Participants will explore Exchange Online, SharePoint Online, Microsoft Teams, OneDrive for Business, and Microsoft 365 security and compliance. The track will provide hands-on experience with Office 365 administration tools, configuration settings, and best practices. Participants will learn how to efficiently provision and manage user accounts, configure email services, collaborate and share documents, and ensure data security and compliance within the Office 365 environment. Through practical exercises, case studies, and real-world scenarios, participants will develop the skills to effectively support and optimize Office 365 deployments, empowering organizations to maximize their productivity and collaboration capabilities. By the end of this track, participants will be equipped with the knowledge and expertise to manage Office 365 for their organizations effectively.

TMT01

Copilot Readiness

Introductory / Intermediate

STACY DEERE-STROLE
Tuesday, November 19, 9:15 – 10:30am

You will learn:
- About Copilot's capabilities
- Best practices for using Copilot
- Strategies for driving adoption

TMT08

Copilot for End Users - Getting Started

Introductory

STACY DEERE-STROLE
Tuesday, November 19, 2:45 – 4:00pm

You will learn:
- About Copilot's capabilities
- Best practices for using Copilot
- Strategies for driving adoption

TMT11

Deploying, Configuring, Securing, and Supporting Microsoft Entra Connect

Intermediate

JOHN O'NEILL SR
Tuesday, November 19, 4:15 – 5:30pm

You will learn:
- About a highly-available Entra Connect deployment
- About monitoring the health and stability of Entra Connect
- How to ensuring seamless and secure connectivity between on-prem AD and Entra ID

TMT13

Reimagined Office 365 Software Adoption Led by IT Pros

Introductory / Intermediate

GUS HYTONEN
Tuesday, November 19, 4:15 - 5:30pm

You will learn:
- How to transform IT from a cost center to a revenue driver
- Discover innovative Office 365 solutions for effective change management
- Understand how these strategies can enhance operational efficiency and the Microsoft digital employee experience

TMTH03

Essential Microsoft 365 Security Features Crash Course

Introductory

KARINNE BESSETTE
Thursday, November 21, 8:00 – 9:15am

You will learn:
- About Microsoft Purview compliance portal and Microsoft 365 Defender admin center
- About Entra ID security tips
- About navigating built in monitoring

TECHMENTOR SPEAKERS

CONFERENCE CHAIRS

Sami Laiho
Chief Research Officer,
Adminize

TechMentor Conference Co-Chair

Dave Kawula
Principal Consultant,
TriCon Elite Consulting

TechMentor Conference Co-Chair

SPEAKERS

Greg Altman
IT Infrastructure Manager,
Author, Speaker

Karinne Bessette
Technologist,
Product Strategy Team,
Veeam

Christopher Bir
Network Solution Architect

James Brundage
Founder,
Start-Automating

Émile Cabot
Principal Consultant,
TriCon Elite Consulting

Yung Chou
Cloud Solution Architect,
Microsoft

Stacy Deere-Strole
Solutions Architect

Gus Hytonen
VP, Solution Consulting,
BrainStorm

Kevin Kaminski
Consultant

Cristal Kawula
President,
TriCon Elite Consulting

Dave Kawula
Principal Consultant,
TriCon Elite Consulting

Sami Laiho
Chief Research Officer,
Adminize

Derek Melber
Chief Business Officer,
Beak

Jeremy Moskowitz
Founder,
GPanswers.com &
PolicyPak Software

Michael Niehaus
Principal R&D Engineer,
Tanium

Jörgen Nilsson
Principal Consultant,
Onevinn

John O'Neill Sr.
Chief Technologist,
AWS Solutions

Edwin M Sarmiento
Managing Director,
15C

Jan Ketil Skanke
COO and Principal
Cloud Architect,
CloudWay

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

LIVE! 360
TECH EVENTS WITH PERSPECTIVE

Artificial Intelligence LIVE!
AI FOR DEVELOPERS AND DATA SCIENTISTS

ORLANDO 2024
ROYAL PACIFIC RESORT AT UNIVERSAL
NOVEMBER 17-22, 2024

Artificial Intelligence® LIVE!
AI FOR DEVELOPERS AND DATA SCIENTISTS

AGENDA-AT-A-GLANCE

AI Application Development	Generative AI	ABCs Agents, Bots, & Copilots	Responsible and Ethical AI	Machine Learning	Vision and Image

START TIME	END TIME	Artificial Intelligence Live! Pre-Conference Hands-On Labs: Sunday, November 17, 2024		
7:00 AM	9:00 AM	Hands-On Lab Registration • Coffee and Morning Pastries		
9:00 AM	6:00 PM	**AIHOL01** 2-Day Hands-On Lab: Elevate Your Career With Python and AI - Day 1: Getting Started With Python - *Eric D. Boyd*		**AIHOL02** Hands-On Lab: Generative AI for the Enterprise - *Lino Tadros*
10:00 AM	7:00 PM	Pre-Conference Registration - *Royal Pacific Resort Conference Center*		

START TIME	END TIME	Artificial Intelligence Live! Pre-Conference Workshops: Monday, November 18, 2024		
7:00 AM	8:30 AM	Registration • Coffee and Morning Pastries		
8:30 AM	5:30 PM	**AIHOL01** 2-Day Hands-On Lab: Elevate Your Career With Python and AI - Day 2: Introduction to Artificial Intelligence Using Python - *Eric D. Boyd*		**AIM01** Workshop: Copilot Engineering Everywhere - *Brian A. Randell & Mickey Gousset*
5:45 PM	6:15 PM	Live! 360 First Timers Forum: A New Attendees Guide		
6:30 PM	8:00 PM	Mix & Mingle @ Hard Rock Café Universal CityWalk		

START TIME	END TIME	Artificial Intelligence Live! Day 1: Tuesday, November 19, 2024		
7:00 AM	8:00 AM	Registration • Coffee and Morning Pastries		
8:00 AM	9:00 AM	■ **ARTIFICIAL INTELLIGENCE LIVE! KEYNOTE: To Be Announced** *Steve Sanderson, Developer / Architect, .NET team, Microsoft*		
9:15 AM	10:30 AM	**AIT01** Generative AI and Copilot 101: Unlocking the Future of AI-Powered Creation and Collaboration - *Brian A. Randell*		**AIT02** Responsible AI - *Veronika Kolesnikova*
10:30 AM	11:00 AM	Networking Break • Visit the EXPO Lounge - *Pacifica 7*		
11:00 AM	12:00 PM	■ **LIVE! 360 KEYNOTE: To Be Announced** *Mads Kristensen, Principal Product Manager, Microsoft*		
12:00 PM	12:45 PM	Lunch - *Oceana Ballroom* • Visit the EXPO Lounge - *Pacifica 7*		
12:45 PM	1:30 PM	Dessert Break • Visit the EXPO Lounge - *Pacifica 7*		

Sessions and speakers subject to change.

■ Microsoft Sessions

AGENDA-AT-A-GLANCE *(continued)*

AI Application Development	Generative AI	ABCs Agents, Bots, & Copilots	Responsible and Ethical AI	Machine Learning	Vision and Image

START TIME	END TIME	Artificial Intelligence Live! Day 1: Tuesday, November 19, 2024 *(Continued)*			
1:30 PM	1:50 PM	**AIT03** Fast Focus: Quick-Start Guide - Crafting Intelligent Apps in Just 20 Minutes With Azure AI Studio *- Prashant G Bhoyar*			
2:00 PM	2:20 PM	**AIT04** 🔲 Fast Focus: Navigating the World of AI Models in .NET *- Jordan Matthiesen*			
2:20 PM	2:45 PM	**Networking Break • Visit the EXPO Lounge** *- Pacifica 7*			
2:45 PM	4:00 PM	**AIT05** Prompt Engineering 101 With Azure OpenAI *- Carey Payette*		**AIT06** - To Be Announced	
4:15 PM	5:30 PM	**AIT07** Langchain Fundamentals *- Lino Tadros*		**AIT08** The AI Face-off: Azure OpenAI and OpenAI Services in Comparison *- Prashant G Bhoyar*	
5:30 PM	7:00 PM	**Exhibitor Welcome Reception** *- Pacifica 7*			
START TIME	END TIME	Artificial Intelligence Live! Day 2: Wednesday, November 20, 2024			
7:30 AM	8:00 AM	**Registration • Coffee and Morning Pastries**			
8:00 AM	9:15 AM	**AIW01** 🔲 The Art of Regression and Classification: A Beginner's Guide to Model Training *- Jean Joseph*		**AIW02** Vectorization Fundamentals (Including Database Support) *- Lino Tadros*	
9:30 AM	10:45 AM	**AIW03** Beyond the Basics: Azure Machine Learning Prompt Flow *- Prashant G Bhoyar*		**AIW04** Build Your First Copilot in 75 Minutes (or less) *- Brian A. Randell & Mickey Gousset*	
10:45 AM	11:30 AM	**Networking Break • Visit the EXPO Lounge** *- Pacifica 7*			
11:30 AM	12:30 PM	**LIVE! 360 KEYNOTE: The Future of IT** *Marcel de Vries, Global MD & CTO, Xebia*			
12:30 PM	1:30 PM	**Table Topics Lunch** *- Oceana Ballroom*			
1:30 PM	2:00 PM	**Dessert Break • Visit the EXPO Lounge** *- Pacifica 7*			
2:00 PM	3:15 PM	**AIW05** Streamlining Custom AI Development With the Azure OpenAI Assistants API *- Carey Payette*		**AIW06** Lessons Learned Building a GenAI Powered App *- Mete Atamel*	
3:15 PM	4:00 PM	**Networking Break • Visit the EXPO Lounge • Expo Raffle @ 3:30 p.m.** *- Pacifica 7*			
4:00 PM	5:15 PM	**AIW07** Langchain vs. Prompt Engineering: Real Life Observations *- Veronika Kolesnikova*		**AIW08** Top 10 Prompts You Should Know for Microsoft 365 Copilot *- Heather Severino*	
7:30 PM	9:00 PM	**Live! 360 Dessert Luau** *- Wantilan Pavilion*			

Sessions and speakers subject to change.

🔲 Microsoft Sessions

AGENDA-AT-A-GLANCE *(continued)*

AI Application Development	Generative AI	ABCs Agents, Bots, & Copilots	Responsible and Ethical AI	Machine Learning	Vision and Image

START TIME	END TIME	Artificial Intelligence Live! Day 3: Thursday, November 21, 2024			
7:30 AM	8:00 AM	Registration • Coffee and Morning Pastries			
8:00 AM	9:15 AM	AITH01 Data Science in Microsoft Fabric - *Andrew Brust*		AITH02 Avoid Common LLM Pitfalls - *Mete Atamel*	
9:30 AM	10:45 AM	AITH03 Advanced GPT: Agent, Do You Have a Plan? Help Me Decide! - *Andreas Erben*		AITH04 Integrating AI into Your Existing Applications Using Semantic Kernel & C# - *Marcel de Vries*	
11:00 AM	12:00 PM	ARTIFICIAL INTELLIGENCE LIVE! PANEL DISCUSSION: Are We Really Living in the Age of Democratized AI? **Brian A. Randell** [Moderator], *Andrew Brust, Marcel de Vries & Mickey Gousset*			
12:00 PM	1:00 PM	Live! 360 DJ Lunch			
1:00 PM	2:15 PM	AITH05 Data Labeling in Azure Machine Learning: A Comprehensive Guide for Image and Text Data - *Jean Joseph*		AITH06 Jump in the Pilot Seat to Unleash Creativity and Productivity With Microsoft 365 Copilot - *Heather Severino*	
2:30 PM	3:45 PM	AITH07 Red-Teaming Your Own Prompts - *Andreas Erben*		AITH08 Build Next-Gen AI Apps With .NET and Azure - *Jordan Matthiesen*	
4:00 PM	5:00 PM	LIVE! 360 WRAP PARTY **Tech Presentation: TBD** - **Billy Hollis**, *Developer. Designer. Speaker. Author.* **Q&A with Live! 360 Conference Chairs & Speakers:** *Andrew J. Brust, Angela Dugan, Dave Kawula, Sami Laiho, Thomas LaRock, Rockford Lhotka, Brian A. Randell, Sara Caldwell, Chris Klug, Amber Vanderburg, Bradley Ball, Meagan Longoria, Allan Hirt, Chris Ayers, Layla Porter, Carey Payette & Jan Ketil Skanke*			
START TIME	END TIME	Artificial Intelligence Live! Post-Conference Workshop: Friday, November 22, 2024			
7:30 AM	8:00 AM	Registration • Coffee and Morning Pastries			
8:00 AM	5:00 PM	AIF01 Workshop: Masterclass - Deep-Dive into Azure OpenAI and Large Language Model Development - *Andreas Erben*			

Sessions and speakers subject to change.

 Microsoft Sessions

ARTIFICIAL INTELLIGENCE 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.

AIHOL01

2-Day Hands-On Lab: Elevate Your Career With Python and AI - Day 1: Getting Started With Python

Introductory / Intermediate

ERIC D. BOYD
Sunday, November 17, 9:00am – 6:00pm

According to the TIOBE Index, Python currently stands as the most popular programming language. It's remarkable trajectory over the past three decades can be attributed to its inherent simplicity, an expansive ecosystem of libraries and packages, and its remarkable versatility across a diverse array of domains including data analytics, machine learning, artificial intelligence, cybersecurity, IoT, robotics, and automated task execution.

Embark on a two-day journey to learn a new programming language with far-reaching applicability. As the language of choice for data science, advanced research, and the expanding field of AI, Python will propel you into the heart of machine learning and artificial intelligence.

Join Microsoft Azure MVP, Eric D. Boyd, for an immersive hands-on lab, a two-day expedition into the world of Python, AI, and ML. You don't need to have any prior knowledge of Python or AI to attend. We'll begin with the bedrock principles of Python. And on day two, we will explore the foundations of artificial intelligence and machine learning through many types of problems, scenarios, and algorithms.

Day 1 – Getting Started with Python

On Day 1, we will begin by getting our development environment set up for Python development with Visual Studio Code. Once everyone is up and running, we will spend the rest of the day exploring the Python language and writing Python code together. We will start exploring fundamental language constructs including variables, data types, functions, conditionals, loops, and guidelines for writing Python code according to the conventions established by the Python community.

Next, we will explore Python data structures for working with collections of data and learn how we can work with these data structures effectively and efficiently using powerful Python language features. We will also explore exceptions and how to handle errors in your Python programs.

From there, we'll explore how you can structure and reuse code with Python modules. We will explore what's available in the built-in Python standard library, and we will explore the ecosystem of Python packages and libraries including popular libraries like NumPy, Pandas, and Matplotlib.

As a developer, one of the things you should do to create great software is test your code. In addition to exploring the troubleshooting and debugging capabilities of Visual Studio Code, we will explore how to create automated tests to test your Python code.

Closing out Day 1, we will explore how to use Python to create programs and apps beyond the terminal window. We will use Notebooks for interactively working with Python and see how Microsoft Fabric enables you to bring your Python skills for data engineering and analytics. We will explore how you can consume Python from other languages like C# and how Python can integrate with your C# apps. And lastly, we will explore how to create web apps and web APIs with Python using Flask and FastAPI.

Attendee Requirements:
- You must provide your own laptop for this hands-on lab
- Your machine must have a modern web browser
- Visual Studio Code needs to be installed on your machine: **https://code.visualstudio.com/**
- Git needs to installed on your machine: **https://git-scm.com/downloads**

AIHOL01

2-Day Hands-On Lab: Elevate Your Career With Python and AI - Day 2 – Introduction to Artificial Intelligence Using Python

Introductory / Intermediate

ERIC D. BOYD
Monday, November 18, 8:30am – 5:30am

To attend Day 2 of this lab you must have either attended Day 1 of this workshop or have a strong working knowledge of Python with a functional Python development environment. There will not be any time spent on day 2 teaching Python fundamentals or setting up Python development environments.

Artificial intelligence is a machine's ability to perform the cognitive functions we usually associate with human minds. And there are many challenging problems that we face as developers of technology solutions that can be simplified using techniques and algorithms from the field of artificial intelligence.

On Day 2, you will immediately get to employ your newfound knowledge of Python to craft innovative solutions across the pivotal domains of artificial intelligence and machine learning. Together, we will delve into the foundations of artificial intelligence spanning the topics of search algorithms, knowledge representation, uncertainty modeling, optimization strategies, machine learning, neural networks, and natural language processing. This dynamic learning experience will be underpinned by the utilization of established libraries such as Scikit-learn, TensorFlow, NLTK, and more.

We will also explore other platforms like Azure Machine Learning to create and deploy machine learning models and solutions how you can use your Python knowledge and skills with Azure Machine Learning.

And our journey won't conclude there. You'll get to embark on a journey through the emerging world of generative AI, large language models, and prompt engineering. We will explore the OpenAI models, using LLMs with your private data, and how to navigate the world of prompt engineering using tools like LangChain, opening doors to novel applications and possibilities in language-driven AI systems.

Unlock the potential of Python and AI over the course of two-days in a hands-on environment where theory evolves

into tangible skills, and where your career potential gains an invaluable edge.

Attendee Requirements:
- You must provide your own laptop for this hands-on lab
- Your machine must have a modern web browser
- Visual Studio Code needs to be installed on your machine: https://code.visualstudio.com/
- Git needs to installed on your machine: https://git-scm.com/downloads

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AIHOL02

Hands-On Lab: Generative AI for the Enterprise

Intermediate

LINO TADROS

Sunday, November 17, 9:00am – 6:00pm

Have you been bombarded with AI and Generative AI news lately. Everywhere you look on the internet, conferences, TV, and all media outlets, it is the talk of the year. The ease of use, how it will change the world, how it will change our daily life and how we conduct business.

The truth of the matter is, it is not as simple as bringing up a window of some kind, ask your question and voila, the genie will get you an answer that is accurate and relevant. There are a lot of things that you need to know about, especially as a responsible person in an enterprise that have to adhere to security, scalability, content safety and performance standards, not to mention compliance at the corporate level.

This full day workshop will give you the big picture but also dive into the nitty gritty to allow you to practice the infusion of Generative AI on an enterprise scale.

What will be covered:
- An in-depth view of what is an LLM and what its purpose is, including how it is built and made available for consumption.
- An in-depth view of Prompt Engineering as a tool that can help AI chatbots generate relevant and coherent responses in real-time conversations as It helps ensure the AI understands user queries and provides meaningful answers.
- In-depth discussion on Orchestrators and the important role they provide and how to differentiate between the popular ones and when to use them:
- Sematic Kernel - an open-source, AI Software Development Kit (SDK) from Microsoft. It allows developers to integrate large language models (LLMs)

like Hugging Face, Azure OpenAI, and OpenAI with conventional programming languages like C#, Java, and Python. We will demonstrate how SK can help make working with LLMs more effective by marshaling and orchestrating inputs and functions. It also allows users to sanitize inputs, guiding the LLM to produce useful outputs.
- LangChain - an open-source framework for developing applications using large language models (LLMs). LLMs are deep-learning models that are pre-trained on large amounts of data. They can generate responses to user queries, such as answering questions or creating images from text-based prompts. We will demonstrate its use in Orchestrating the communication and negotiation between your data and the LLM of choice through the Prompt.
- Hands-on lab covering the use of Semantic Kernal from Microsoft
- Hands-on lab covering the use of LangChain
- A deep dive into the Retrieval Augmentation process in an enterprise to give access to company data to be part of the prompt that will enrich the LLM to give more accurate responses.
  - RALM – Retrieval Augmentation Language Modeling.
  - RAG – Retrieval Augmented Generation.
  - ReAct – Reasoning and Action pattern.
  - COT – Chain of Thought pattern.
- Hands-on lab to exercise the concepts using FlowiseAI and VectroShift
- In depth view into Embedding Models and how they work as algorithms that convert high-dimensional data into low-dimensional vectors. This process is called dimensionality reduction, which simplifies data and makes it easier for machine learning algorithms to process.
- A view into the concept of Vectorization, also known as word embedding, and demonstrating the process of converting text data into numerical vectors. These vectors are used to build machine learning models where they can be used for Word Predictions, Similarities and Natural Languages.
- A look in the life of Vectorization Databases which is a type of database that stores data as mathematical representations, also known as vector embeddings. These mathematical representations are high-dimensional vectors, each with a certain number of dimensions. The number of dimensions can range from tens to thousands, depending on the complexity and granularity of the data. Discussion about some of the available ones like Azure AI Search, Pinecone, Chroma, Faiss, Azure Postgresql and others…
- Hands-on lab for using Embeddings and Vectorization databases.

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

🔧 **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.

AIM01

Workshop: Copilot Engineering Everywhere

Introductory / Intermediate

BRIAN A. RANDELL & MICKEY GOUSSET

Monday, November 18, 8:30am – 5:30pm

Artificial Intelligence (AI) is here to stay, and it's time to learn all the ways it will impact you as a developer and IT professional. Embark on an immersive journey through the evolution of Artificial Intelligence (AI) and development tools in the Copilot Engineering Everywhere workshop. Brian and Mickey will delve into the historical landscape of AI and how this impacts modern software development. The workshop kicks off with an overview of the evolution of AI, setting the stage for an exploration into the latest advancements in development tools.

Then it is time for Mickey and Brian to write some code (you can just take notes and clone the sample repos afterwards). Participants will learn not only the fundamentals of LLMs and services like ChatGPT but also how to integrate these types of powerful language models into their applications, opening new possibilities for interactive and intelligent user experiences. Practical examples and real-world use cases will be employed to ensure a deep understanding of the implementation process, regardless of participants' prior experience with AI. We'll look at open-source offerings as well as commercial offerings like Azure OpenAI and Microsoft Copilot Studio and show you how to build your own "copilot".

ARTIFICIAL INTELLIGENCE LIVE! SESSION DESCRIPTIONS BY TRACK *(continued)*

In addition, the workshop places a spotlight on GitHub Copilot, an innovative tool revolutionizing the software development landscape. Participants will gain insights into leveraging GitHub Copilot's capabilities to enhance their coding efficiency and creativity both in their IDE of choice and when using GitHub Enterprise Cloud. Attendees will learn how to seamlessly integrate GitHub Copilot into their workflow, resulting in accelerated development cycles and increased productivity.

Copilot Engineering Everywhere promises an enriching experience for developers, engineers, and AI enthusiasts alike, offering a unique blend of historical context and practical skills development. Join us on this transformative journey to unlock the full potential of AI and Copilot in software engineering and discover how these technologies can be harnessed to engineer a bright future.

You will learn:
- What is the current state of the art in LLMs
- How use Microsoft and open-source tools to build your own Copilot
- How to enhance your engineering practices using GitHub Copilot in your IDE and via GitHub Enterprise Cloud

AIF01

Workshop: Masterclass - Deep-dive into Azure OpenAI and Large Language Model Development

Introductory / Intermediate

ANDREAS ERBEN
Friday, November 22, 8:00am – 5:00pm

Join us on a deep-dive into the world of Large Language Models and Generative AI for developers. In this full-day workshop we will cover:

- Introduction to Large Language Models
- Understand and leverage the OpenAI and Azure OpenAI APIs
- Work with the Azure Portal
- Prompt Engineering - from intuitive skills to an engineering discipline
- Leverage Embeddings, Vector Databases, and other Memory systems for data and document integration
- Extend your applications with Functions and Plugins to build Copilots
- Solve advanced challenges with Plans and Agents
- See how Orchestrators such as Semantic Kernel or LangChain speed up your application development

- Get started with Semantic Kernel to write .NET applications
- Peek at the world of Open Sourced Large Language Models and Personal AI
- Discover future trends in Generative AI
- Anticipate and mitigate Risks related to Responsible AI

In this fast-evolving domain, the agenda will see changes and additions.

If you are interested in following along with some examples, your own Azure Subscription, and access to Azure OpenAI and/or OpenAI's APIs will be necessary. Please secure access ahead of time.

You will learn:
- About Large Language Model development
- How to build solutions with Large Language Models
- How to get started implementing typical solution patterns

AI APPLICATION DEVELOPMENT

This track offers a dynamic blend of immersive sessions and a two-day hands-on-lab. Discover the power of large language models such as ChatGPT, learn how to leverage Azure AI Studio, do custom development with the Azure OpenAI Assistants API, come up to speed on IoT, build next-gen AI apps with .NET and Azure, and master Python development in our comprehensive hands-on-lab. From seasoned IT professionals to tech enthusiasts, this track presents a unique opportunity to navigate the dynamic landscape of AI development with a futuristic vision and practical skills.

AIT03

Fast Focus: Quick-Start Guide - Crafting Intelligent Apps in Just 20 Minutes With Azure AI Studio

Introductory

PRASHANT G BHOYAR
Tuesday, November 19, 1:30 – 1:50pm

You will learn:
- About Azure AI Studio
- How to deploy GPT models, fine-tune them, and also test the Chat and completion
- How to create and deploy a working intelligent web app and Copilots with Azure OpenAI's models using Azure AI studio

AIW05

Streamlining Custom AI Development With the Azure OpenAI Assistants API

Intermediate

CAREY PAYETTE
Wednesday, November 20, 2:00 – 3:15pm

You will learn:
- What the Assistants API brings to the table
- How to leverage tools with Assistants
- How to build custom tools

AITH08

▦ Build Next-Gen AI Apps With .NET and Azure

Introductory / Intermediate

JORDAN MATTHIESEN
Thursday, November 21, 2:30 – 3:45pm

You will learn:
- What you can do with .NET and AI today
- Hands-on tips for how you can incorporate AI into your existing .NET apps
- About the .NET roadmap for working with AI in .NET 8, .NET Aspire, .NET 9 and beyond

ARTIFICIAL INTELLIGENCE LIVE! SESSION DESCRIPTIONS BY TRACK *(continued)*

GENERATIVE AI

Generative AI (GenAI) offers an incredible frontier to expand your capabilities, enabling the creation of dynamic, personalized content ranging from text to images, music, and even code, based on learned patterns.

In this track, you can unpack the dynamics between Azure OpenAI and OpenAI Services, learning about their unique features and applications. Learn how to use ReACT and RAG together, to augment your LLM-based applications. Investigate the use of LangChain juxtaposed with prompt engineering. Explore advanced GPT and agents, supplement your knowledge with a Fast Focus session on the world of AI Models in .NET, and cement your understanding in an all-day workshop, the Azure Open AI Master Class. By mastering this cutting-edge technology, you can pioneer innovative solutions and user experiences, thereby increasing the value and impact of your applications in an increasingly AI-driven digital world.

AIT01

Generative AI and Copilot 101: Unlocking the Future of AI-Powered Creation and Collaboration

Introductory

BRIAN A. RANDELL
Tuesday, November 19, 9:15 – 10:30am

You will learn:
- Understand the fundamental concepts and underlying technologies behind generative AI and copilots.
- Discover practical applications and use cases across various industries.

- Gain insights into the challenges and considerations for responsible development and deployment.
- Explore the future of AI-powered creation and collaboration.

AIT04

▪ Fast Focus: Navigating the World of AI Models in .NET

Intermediate

JORDAN MATTHIESEN
Tuesday, November 19, 2:00 – 2:30pm

You will learn:
- Why you may want to explore multiple AI models
- How you can work with multiple models in your .NET apps, today
- About different AI models you could use locally, or through a service like OpenAI, and what makes them different

AIT05

Prompt Engineering 101 With Azure OpenAI

Introductory

CAREY PAYETTE
Tuesday, November 19, 2:45 – 4:00pm

You will learn:
- The anatomy of a prompt
- Techniques to shape a prompt to get desired results from an LLM
- How to set guardrails to ensure an LLM stays in its lane

AIT07

Langchain Fundamentals

Introductory

LINO TADROS
Tuesday, November 19, 4:15 – 5:30pm

At its core, LangChain is a framework built around LLMs. We can use it for chatbots, Generative Question-Answering (GQA), summarization, and much more. The core idea of the library is that we can "chain" together different components to create more advanced use cases around LLMs.

*** While you are reading the description of the session above, Langchain source code changed 3 times*

AIT08

The AI Face-off: Azure OpenAI and OpenAI Services in Comparison

Intermediate

PRASHANT G BHOYAR
Tuesday, November 19, 4:15 – 5:30pm

You will learn:
- A clear understanding of the distinct technical nuances between Azure OpenAI and OpenAI Services, unraveling their individual technical capabilities and limitations.
- A comprehensive analysis of the financial commitments associated with each of these services, enabling informed decision-making on their cost-effectiveness.
- A detailed examination of the extensibility models of both services, offering insights on their customizability and integration within different architectural frameworks and development paradigms.

AIW02

Vectorization Fundamentals (including Database Support)

Intermediate

LINO TADROS
Wednesday, November 20, 8:00 – 9:15am

In this session, you will learn about the process of ingesting data, extracting data (Chunking and overlapping), embedding (using ada-002 and ada-003) and vectorization of the data and the chat question asked to retrieve accurate and meaningful response.

AIW03

Beyond the Basics: Azure Machine Learning Prompt Flow

Intermediate

PRASHANT G BHOYAR
Wednesday, November 20, 9:30 – 10:45am

In this demo-driven session, we'll delve deeper into several intricate details and technical aspects and will also cover Practical guidance on developing robust, scalable Custom next-gen applications using Azure OpenAI, and Azure Machine Learning Prompt Flow focusing on industry requirements and best practices.

LIVE! 360
TECH EVENTS WITH PERSPECTIVE

Artificial Intelligence LIVE!
AI FOR DEVELOPERS AND DATA SCIENTISTS

ORLANDO 2024
ROYAL PACIFIC RESORT AT UNIVERSAL
NOVEMBER 17-22, 2024

AIW06

Lessons Learned Building a GenAI Powered App

Intermediate

METE ATAMEL

Wednesday, November 20, 2:00 – 3:15pm

Everyone's excited about AI and justifiably so, but can it help us build better apps? This session will focus on a case study: a GenAI powered interactive trivia quiz app running in the Cloud. We'll explore the challenges we faced while building the app and how GenAI proved to be a game changer. Join me for a fun and educational session featuring a live demo with audience participation, and some valuable lessons learned.

You will learn:
- About a cloud use case
- About how GenAI services helped to elevate the app
- About challenges working with GenAI services

AIW07

Langchain vs. Prompt Engineering: Real Life Observations

Introductory / Intermediate

VERONIKA KOLESNIKOVA

Wednesday, November 20, 4:00 – 5:15pm

You will learn:
- Insights into prompt engineering and its ease of implementation and usage
- When to choose Langchain or other frameworks over prompt engineering for specific projects
- About real-life examples to better understand the practical application of the tools

AIW08

Top 10 Prompts You Should Know for Microsoft 365 Copilot

Introductory

HEATHER SEVERINO

Wednesday, November 20, 4:00 – 5:15pm

You will learn:
- How to accelerate Microsoft 365 file creation
- How to accelerate data analysis in Excel workbooks
- How to streamline Microsoft 365 processes

AITH02

Avoid Common LLM Pitfalls

Intermediate

METE ATAMEL

Thursday, November 21, 8:00 – 9:15am

In this talk, we'll provide a quick overview of the latest advancements in multi-modal LLMs, highlighting their capabilities and limitations. We'll then explore various techniques to overcome common LLM pitfalls.

AITH03

Advanced GPT: Agent, Do You Have a Plan? Help Me Decide!

Intermediate / Advanced

ANDREAS ERBEN

Thursday, November 21, 9:30 – 10:45am

You will learn:
- About the "Agent" concept
- About frameworks and how to create agents in action
- How to get started with your own apps

AITH06

Jump in the Pilot Seat to Unleash Creativity and Productivity With Microsoft 365 Copilot

Introductory

HEATHER SEVERINO

Thursday, November 21, 1:00 – 2:15pm

You will learn:
- To create content with Copilot prompts
- How to gather insights and analysis with Copilot prompts
- How to summarize content and meetings with Copilot prompts

AITH07

Red-Teaming Your Own Prompts

Intermediate

ANDREAS ERBEN

Thursday, November 21, 2:30 – 3:45pm

You will learn:
- About attack vectors to Large Language Model based applications
- How to red-team your own solutions
- Ways to harden LLM based software

ABCs-AGENTS, BOTS, AND COPILOTS

Conversational Q&A, summarization, completion and asset creation, both on-demand and running autonomously in the background, help boost productivity and are well within today's AI state of the art. Whether agents do the work on your behalf, or bots and copilots do it in response to your requests, these technologies deliver on the premise of GenAI. Artificial Intelligence Live! covers this technology for you, from the developer perspective, so you'll know how to build copilots yourself, build AI into your own applications and leverage the power of GitHub Copilot as you code.

AIW04

Build Your First Copilot in 75 Minutes (or less)

Introductory

BRIAN A. RANDELL & MICKEY GOUSSET

Wednesday, November 20, 9:30 – 10:45am

You will learn:
- What is Microsoft's Semantic Kernel
- How to configure your development environment for using Semantic Kernel
- How to build your first 'copilot' with C# and the Semantic Kernel SDK

ORLANDO 2024
ROYAL PACIFIC RESORT AT UNIVERSAL
NOVEMBER 17-22, 2024

Artificial Intelligence LIVE!
AI FOR DEVELOPERS AND DATA SCIENTISTS

LIVE! 360
TECH EVENTS WITH PERSPECTIVE

AITH04

Integrating AI into Your Existing Applications Using Semantic Kernel & C#

Intermediate

MARCEL DE VRIES
Thursday, November 21, 2:30 – 3:45pm

You will learn:
• About is Semantic Kernel
• Foundational concepts to work with Semantic Kernel
• How can you integrate it in your existing applications

RESPONSIBLE AND ETHICAL AI

Navigate the nuanced landscape of "Responsible and Ethical AI" in this crucial track. You'll find a dedicated session on Responsible AI that will address the core principles of responsibility in AI and introduce tools designed to support developers in embedding these principles in their work. From an overview of AI and Machine Learning to coverage of data preparation and a demo of relevant tools in Azure Machine Learning, the session places a strong emphasis on responsibility and accountability.

AIT02

Responsible AI

Introductory / Intermediate

VERONIKA KOLESNIKOVA
Tuesday, November 19, 9:15 – 10:30am

You will learn:
• About Responsible AI principles and tools
• About content Safety principles and tools
• Best practices for applying those principles

MACHINE LEARNING

With all the excitement over GenAI, we should not forget the power, utility and economy of the machine learning (ML) work we've been doing for the last several years. ML is established and proven, with highly mature platforms. For well known, structured datasets, and predictive tasks, ML is often the best solution, with lower costs than GenAI, both for the training models and inferencing/running predictions against them. ML fundamentals and platform specifics are important, and Artificial Intelligence Live! covers them both for you, alongside all our GenAI content.

AIW01

The Art of Regression and Classification: A Beginner's Guide to Model Training

Introductory

JEAN JOSEPH
Wednesday, November 20, 8:00 – 9:15am

You will learn:
• About Classification and Regression
• About Master Data Preprocessing and MLflow
• About Practice Model Training

AITH01

Data Science in Microsoft Fabric

Advanced

ANDREW BRUST
Thursday, November 21, 8:00 – 9:15am

You will learn:
• AutoML basics using FLAML, SynapseML and MLflow Tracking
• Use of Fabric's Data Wrangler and its Python code gen capabilities
• How to do Generative AI inferencing from Fabric notebooks

VISION AND IMAGE

This track features an engaging 75-minute session on Data Labeling in Azure Machine Learning, covering both image and text data. It explores how to use the data labeling tool in Azure Machine Learning to label data for a range of ML tasks, and covers integration of the tool with MLflow, AutoML, and pipelines. Data labeling can be a tedious, time-consuming, and error-prone task, especially for large and complex datasets; this session will show you how to create, manage, and monitor data labeling projects with ease and efficiency, by using the Azure ML data labeling tool.

AITH05

Data Labeling in Azure Machine Learning: A Comprehensive Guide for Image and Text Data

Introductory

JEAN JOSEPH
Thursday, November 21, 1:00 – 2:15pm

You will learn:
• Master Data Labeling in Azure ML
• Improve Labeling Efficiency
• Integrate and Automate

ARTIFICIAL INTELLIGENCE LIVE! SPEAKERS

CONFERENCE CHAIRS

Andrew Brust
CEO and Founder,
Blue Badge Insights

Artificial Intelligence Live! Conference Co-Chair

Brian A. Randell
Staff Developer Advocate,
GitHub

Artificial Intelligence Live! Conference Co-Chair

SPEAKERS

Mete Atamel
Software Engineer and Developer Advocate, Google

Prashant G Bhoyar
Senior Solution Architect, WithumSmith+Brown

Eric D. Boyd
Founder and CEO, responsiveX

Andrew Brust
CEO and Founder, Blue Badge Insights

Marcel de Vries
Global MD & CTO, Xebia

Andreas Erben
CTO, MR | Applied AI, daenet

Mickey Gousset
DevOps Architect, GitHub

Jean Joseph
Technical Trainer/Data Engineer, Microsoft

Veronika Kolesnikova
Senior Software Engineer, Liberty Mutual

Jordan Matthiesen
Senior Product Manager, Microsoft

Carey Payette
Senior Software Engineer, Trillium Innovations

Brian A. Randell
Staff Developer Advocate, GitHub

Steve Sanderson
Developer / Architect, .NET team, Microsoft

Heather Severino
Founder, TeachUTech

Lino Tadros
President & CEO, The Training Boss LLC

LIVE! 360
TECH EVENTS WITH PERSPECTIVE

Cloud & Containers LIVE!
CLOUD-NATIVE, PAAS & SERVERLESS COMPUTING

ORLANDO 2024
ROYAL PACIFIC RESORT AT UNIVERSAL
NOVEMBER 17-22, 2024

Cloud & Containers® LIVE!

CLOUD-NATIVE, PAAS & SERVERLESS COMPUTING

AGENDA-AT-A-GLANCE

Cloud-Native Development	Cloud-Native Infrastructure	Cloud-Native DevOps

START TIME	END TIME	Cloud & Containers Live! Pre-Conference Hands-On Lab: Sunday, November 17, 2024		
7:00 AM	9:00 AM	**Hands-On Lab Registration • Coffee and Morning Pastries**		
9:00 AM	6:00 PM	**CCHOL01** Hands-On Lab: Building Microservice Applications Using .NET on Azure Container Apps *- Geert van der Cruijsen*		
10:00 AM	7:00 PM	**Pre-Conference Registration** - *Royal Pacific Resort Conference Center*		
START TIME	END TIME	Cloud & Containers Live! Pre-Conference Workshop: Monday, November 18, 2024		
7:00 AM	8:30 AM	**Registration • Coffee and Morning Pastries**		
8:30 AM	5:30 PM	**CCM01** Hands-on Workshop: Building and Deploying a .NET 9 App Using Azure, Bicep, and GitHub Actions *- Scott Sauber*		
5:45 PM	6:15 PM	**Live! 360 First Timers Forum: A New Attendees Guide**		
6:30 PM	8:00 PM	**Mix & Mingle @ Hard Rock Café Universal CityWalk**		
START TIME	END TIME	Cloud & Containers Live! Day 1: Tuesday, November 19, 2024		
7:00 AM	8:00 AM	**Registration • Coffee and Morning Pastries**		
8:00 AM	9:00 AM	**CLOUD & CONTAINERS LIVE! & VISUAL STUDIO LIVE! KEYNOTE: The Cloud-Native, Run Anywhere Future of .NET 9 Is Here!** *James Montemagno*, Principal Lead Program Manager - Developer Community, *Jon Galloway*, Principal Product Manager, & *Rachel Kang*, Product Manager, Microsoft		
9:15 AM	10:30 AM	**CCT01** Monitor Your Applications and Infrastructure *- Eric D. Boyd*		
10:30 AM	11:00 AM	**Networking Break • Visit the EXPO Lounge** - *Pacifica 7*		
11:00 AM	12:00 PM	**LIVE! 360 KEYNOTE: To Be Announced** *Mads Kristensen*, Principal Product Manager, Microsoft		
12:00 PM	12:45 PM	**Lunch** - *Oceana Ballroom* • **Visit the EXPO Lounge** - *Pacifica 7*		
12:45 PM	1:30 PM	**Dessert Break • Visit the EXPO Lounge** - *Pacifica 7*		

Sessions and speakers subject to change.

Microsoft Sessions

AGENDA-AT-A-GLANCE *(continued)*

Cloud-Native Development	Cloud-Native Infrastructure	Cloud-Native DevOps

START TIME	END TIME	Cloud & Containers Live! Day 1: Tuesday, November 19, 2024 *(Continued)*		
1:30 PM	1:50 PM	**CCT02** Fast Focus: A Dive into GitHub Actions *- Mike Benkovich*		
2:00 PM	2:20 PM	**CCT03** Fast Focus: Upcycle Your Old Laptops Into a Kubernetes Cluster *- Rockford Lhotka*		
2:20 PM	2:45 PM	**Networking Break • Visit the EXPO Lounge** *- Pacifica 7*		
2:45 PM	4:00 PM	**CCT04** From Core to Containers to Orchestration - Modernizing my Compute *- Mike Benkovich*		
4:15 PM	5:30 PM	**CCT05** Using API Gateways for Flexibility and Governance of Your APIs *- Eric D. Boyd*		
5:30 PM	7:00 PM	**Exhibitor Welcome Reception** *- Pacifica 7*		

START TIME	END TIME	Cloud & Containers Live! Day 2: Wednesday, November 20, 2024		
7:30 AM	8:00 AM	**Registration • Coffee and Morning Pastries**		
8:00 AM	9:15 AM	**CCW01** Kubernetes for Developers *- Dan Wahlin*		
9:30 AM	10:45 AM	**CCW02** Azure Container Apps: The Future of Microservices in Azure *- Geert van der Cruijsen*		
10:45 AM	11:30 AM	**Networking Break • Visit the EXPO Lounge** *- Pacifica 7*		
11:30 AM	12:30 PM	**LIVE! 360 KEYNOTE: The Future of IT** *Marcel de Vries, Global MD & CTO, Xebia*		
12:30 PM	1:30 PM	**Table Topics Lunch** *- Oceana Ballroom*		
1:30 PM	2:00 PM	**Dessert Break • Visit the EXPO Lounge** *- Pacifica 7*		
2:00 PM	3:15 PM	**CCW03** Azure Container Apps: Advanced Features *- Geert van der Cruijsen*		
3:15 PM	4:00 PM	**Networking Break • Visit the EXPO Lounge • Expo Raffle @ 3:30 p.m.** *- Pacifica 7*		
4:00 PM	5:15 PM	**CCW04** Building on the Microsoft Cloud: Audio/Video Calling From a Custom App into a Teams Meeting *- Dan Wahlin*		
7:30 PM	9:00 PM	**Live! 360 Dessert Luau** *- Wantilan Pavilion*		

Sessions and speakers subject to change.

Microsoft Sessions

AGENDA-AT-A-GLANCE *(continued)*

Cloud-Native Development	Cloud-Native Infrastructure	Cloud-Native DevOps

START TIME	END TIME	Cloud & Containers Live! Day 3: Thursday, November 21, 2024
7:30 AM	8:00 AM	Registration • Coffee and Morning Pastries
8:00 AM	9:15 AM	CCTH01 Busy Architect's Guide to the Fallacies of Distributed Systems - *Ted Neward*
9:30 AM	10:45 AM	CCTH02 Ensuring Azure Resiliency - *Chris Ayers*
11:00 AM	12:00 PM	CLOUD & CONTAINERS LIVE! PANEL DISCUSSION: Making the Most of Your Cloud Resources *Rockford Lhotka [Moderator], Chris Ayers, Carey Payette, & Dan Wahlin*
12:00 PM	1:00 PM	Live! 360 DJ Lunch
1:00 PM	2:15 PM	CCTH03 Introduction to Azure Infrastructure as Code - *Carey Payette*
2:30 PM	3:45 PM	CCTH04 The Well-Architected Architect - Building Secure, Reliable, Cost-Efficient Solutions on Azure - *Chris Ayers*
4:00 PM	5:00 PM	LIVE! 360 WRAP PARTY. Tech Presentation: TBD - *Billy Hollis*, Developer. Designer. Speaker. Author. Q&A with Live! 360 Conference Chairs & Speakers: Andrew J. Brust, Angela Dugan, Dave Kawula, Sami Laiho, Thomas LaRock, Rockford Lhotka, Brian A. Randell, Sara Caldwell, Chris Klug, Amber Vanderburg, Bradley Ball, Meagan Longoria, Allan Hirt, Chris Ayers, Layla Porter, Carey Payette & Jan Ketil Skanke

START TIME	END TIME	Cloud & Containers Live! Post-Conference Workshop: Friday, November 22, 2024
7:30 AM	8:00 AM	Registration • Coffee and Morning Pastries
8:00 AM	5:00 PM	CCF01 Workshop: Real World CI/CD With GitHub Actions - Beyond Basics - *Chris Ayers*

Sessions and speakers subject to change.

Microsoft Sessions

CLOUD & CONTAINERS 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.

CCHOL01

Hands-On Lab: Building Microservice Applications Using .Net on Azure Container Apps

Introductory / Intermediate

GEERT VAN DER CRUIJSEN
Sunday, November 17, 9:00am – 6:00pm

Kubernetes has all the hype, but do you actually need all this complexity for your distributed application? There is a big trend happening by cloud providers to provide all the features Kubernetes brings without the complexity, and Azure Container Apps is Microsoft's take at this.

In this full-day hands-on workshop you'll learn how you can build and deploy containerized applications using Azure Container apps from scratch using .NET.

It includes all the nice features it brings such as blue/green deployments, Dapr, and autoscaling using Keda. Join this hands-on workshop to get ready to deploy your own microservice applications using Azure Container Apps.

You will learn:
• About building microservice applications using Container Apps
• How to do CICD with container apps
• About using advanced features like Keda & Dapr hands-on

Attendee Requirements:
• You must provide your own laptop computer (Windows or Mac) for this hands-on lab.
• All other requirements will be posted 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.

CCM01

Hands-on Workshop: Building and Deploying a .NET 9 App Using Azure, Bicep, and GitHub Actions

Introductory

SCOTT SAUBER
Monday, November 18, 8:30am – 5:30pm

In this workshop, we'll cover the soup to nuts on deploying an ASP.NET Core 9 API to Azure App Service using Bicep and GitHub Actions.

Lots of times this kind of stuff gets set-up once and then you never touch it for a while. This usually leads to one (or all) of these outcomes:

• You weren't the one to set it up so you have no clue how it works
• This knowledge gets forgotten
• It isn't done often so you don't know the best way to do it

In this workshop, we'll start from the beginning sprinkling in some .NET concepts, Azure concepts, and GitHub Actions concepts. We'll cover all of these topics:

• Using Bicep to provision the infrastructure
• Using GitHub Actions to deploy the app
• Learning how App Service works
• Configuring Zero Downtime Deployments with Deployment Slots
• Setting up Health Checks in ASP.NET Core

• Setting up Logging and Instrumentation
• Integration with Azure Key Vault for secret management

We'll mix in presentation with hands-on labs to get you up and productive with the full stack of building and maintaining an ASP.NET Core API.

If you're interested in learning how any of these technologies work, you don't want to miss this workshop.

You will learn:
• About basic Azure services and Bicep
• GitHub Actions and how to use it
• How to leverage Bicep with GitHub Actions to deploy an app to Azure with various best practices involved

Attendee Requirements:
• You must provide your own laptop computer (Windows or Mac) for this hands-on workshop if you would like to participate in the hands-on labs.
• All other requirements will be posted 2 weeks prior to the conference.

CCF01

▦ Workshop: Real World CI/CD With GitHub Actions - Beyond Basics

Intermediate / Advanced

CHRIS AYERS
Friday, November 22, 8:00am – 5:00pm

In the rapidly evolving world of software development, Continuous Integration and Continuous Deployment (CI/CD) stand as pillars of modern best practices. GitHub Actions has emerged as a powerful tool for automating these processes directly from your GitHub repository. This session aims to transcend beyond basic tutorials and dive into the sophisticated capabilities of GitHub Actions, offering insights into building, testing, and deploying applications with unparalleled efficiency.

Throughout this interactive session, we'll navigate through the intricacies of GitHub Actions, uncovering the potential of this automation powerhouse. You'll gain a deep understanding of advanced concepts and techniques, ensuring you can leverage GitHub Actions to its full extent for your projects. Here's what you'll learn:

• **Optimizing GitHub Actions Runners:** Master the art of selecting and optimizing runners for faster builds and deployments.

CLOUD & CONTAINERS LIVE! SESSION DESCRIPTIONS BY TRACK *(continued)*

- **Mastering YAML Workflow Syntax:** From triggers to conditionals, learn to craft workflows that respond dynamically to the complexities of your project.
- **Leveraging Advanced Features:** Dive into job dependencies, matrix builds, and outputs for sophisticated workflow design.
- **Securing with Environments and Secrets:** Implement best practices for managing sensitive data and configuring secure deployment environments.
- **Dynamic Deployments:** Explore advanced deployment strategies to container registries and Azure, ensuring your application is delivered efficiently to the right platforms.

Enhanced with real-world examples, this session will equip you with the skills to implement advanced CI/CD workflows that streamline your development process, improve code quality, and accelerate deployment cycles. Whether you're looking to refine your existing CI/CD practices or expand your GitHub Actions expertise, this talk will provide valuable insights and techniques that are immediately applicable.

Join us to transform your GitHub repository into a CI/CD powerhouse, pushing the boundaries of what you thought possible with GitHub Actions.

You will learn:
- About GitHub Actions and workflows
- About advanced features
- About secure deployments

> **GREAT CONFERENCE, THE SPEAKERS DID A WONDERFUL JOB, THE LIVE 360 STAFF WAS VERY HELPFUL."**
>
> *– Live! 360 2023 attendee*

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) has a large impact on software architecture and deployment. Our industry is finding a balance between microservice and more cohesive software architectures, learning how they can effectively 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:
- Modernizing your compute with containers and orchestration
- Kubernetes for developers
- Audio/video calling from a custom app into Teams
- Exploring the fallacies of distributed systems

CCT04

From Core to Containers to Orchestration - Modernizing my Compute

Advanced

DAN WAHLIN...

MIKE BENKOVICH
Tuesday, November 19, 2:45 – 4:00pm

You will learn:
- How to build and debug microservices with .NET
- How to manage containerization
- What options you have for running compute in Azure

CCW01

Kubernetes for Developers

Intermediate

DAN WAHLIN
Wednesday, November 20, 8:00 – 9:15am

You will learn:
- The key players in Kubernetes
- The role of containers and how they fit into Kubernetes pods
- How to deploy workloads to Kubernetes

CCW04

Building on the Microsoft Cloud: Audio/Video Calling From a Custom App into a Teams Meeting

Intermediate

DAN WAHLIN
Wednesday, November 20, 4:00 – 5:15pm

You will learn:
- How to integrate audio/video calling into a React app
- How to use Azure Functions for scheduling meetings and retrieving tokens
- How all of the client-side and server-side pieces fit together in Azure

CCTH01

Busy Architect's Guide to the Fallacies of Distributed Systems

Intermediate

TED NEWARD
Thursday, November 21, 8:00 – 9:15am

You will learn:
- To embrace the distributed nature of cloud computing
- Some of the secret issues cloud systems will always have
- How to avoid common fallacies in distributed systems

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 processes and management of hardware, operating systems, monitoring, and many other aspects of enterprise infrastructure.

This track includes coverage of the following:

- Using API gateways for flexibility and governance of your APIs
- Azure Container Apps – the future of microservices in Azure
- Azure Container Apps – advanced features
- Building secure, reliable, cost-efficient solutions for Azure
- Update your old laptops into a Kubernetes cluster

CCT03

Fast Focus: Upcycle Your Old Laptops into a Kubernetes Cluster

Introductory / Intermediate

ROCKFORD LHOTKA
Tuesday, November 19, 2:00 – 2:20pm

You will learn:
- About upscaling or repurposing old laptops to run Linux
- About installing Kubernetes on a device
- About using your personal Kubernetes cluster for .NET development

CCT05

Using API Gateways for Flexibility and Governance of Your APIs

Introductory / Intermediate

ERIC D. BOYD
Tuesday, November 19, 4:15 – 5:30pm

You will learn:
- Overview of the API gateway design pattern
- How to get started with Azure API Management
- How to enhance your API solutions with API Management policies

CCW02

Azure Container Apps: The Future of Microservices in Azure

Introductory / Intermediate

GEERT VAN DER CRUIJSEN
Wednesday, November 20, 9:30 – 10:45am

You will learn:
- How you can build microservices the easy way using Azure container apps
- About all the features of Azure Container apps
- How to do advanced deployments and CICD with container apps

CCW03

Azure Container Apps: Advanced features

Intermediate / Advanced

GEERT VAN DER CRUIJSEN
Wednesday, November 20, 2:00 – 3:15pm

You will learn:
- To go beyond the basics of Azure Container Apps
- Advanced networking options, and advanced scaling scenarios
- About AI use cases with container apps

CCTH02

■ Ensuring Azure Resiliency

Intermediate

CHRIS AYERS
Thursday, November 21, 9:30 – 10:45am

You will learn:
- About Azure Resiliency
- About Azure Architecture
- About Chaos Engineering

CCTH04

■ The Well-Architected Architect - Building Secure, Reliable, Cost-Efficient Solutions on Azure

Intermediate / Advanced

CHRIS AYERS
Thursday, November 21, 2:30 – 3:45pm

You will learn:
- About the Azure Well Architect Framework
- About well Architected Service Guides
- Tools for testing and validation

> **" I LIKED SEEING HOW MUCH AI CAN REALLY HELP ME OUT AND SEEING WHAT WAYS I CAN LEVERAGE IT IN THE SOFTWARE I USE AT WORK."**
>
> *– Live! 360 2023 attendee*

CLOUD & CONTAINERS LIVE! SESSION DESCRIPTIONS BY TRACK *(continued)*

CLOUD-NATIVE DEVOPS

Cloud-native software and infrastructure can't succeed without solid DevOps processes 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:

• Monitoring your applications and infrastructure
• GitHub actions
• Infrastructure as code

CCT01

Monitor Your Applications and Infrastructure

Introductory / Intermediate

ERIC D. BOYD
Tuesday, November 19, 9:15 – 10:30am

You will learn:
• About monitoring capabilities in Azure
• How to integrate Application Insights into your solutions
• Insights and alerts using Application Insights and Azure Monitor

CCT02

Fast Focus: A Dive into GitHub Actions

Introductory

MIKE BENKOVICH
Tuesday, November 19, 1:30 – 1:50pm

You will learn:
• How do I get started with GitHub Actions
• What you can I do to secure secrets but manage access
• How to reuse components and build complex workflow

CCTH03

Introduction to Azure Infrastructure as Code

Introductory

CAREY PAYETTE
Thursday, November 21, 1:00 – 2:15pm

You will learn:
• Learn the basics of Terraform
• About organization and reuse of Infrastructure as Code artifacts

COMPARED TO OTHER VERY LARGE AND EXTRAVAGANT CONFERENCES, THIS CONFERENCE PROVIDED SO MUCH VALUE IN THE CONTENT PROVIDED. I AM ALREADY ABLE TO SHOW MY LEADERSHIP THE VALUE OF THE CONFERENCE IN TERMS OF IMMEDIATE IMPACT (AND SAVINGS) ON OUR ORGANIZATION, POLICIES, AND FUTURE DIRECTION OF OUR IT ENVIRONMENT."

– Ryan, Live! 360 2023 attendee

CLOUD & CONTAINERS LIVE! SPEAKERS

CONFERENCE CHAIR

Rockford Lhotka
VP of Strategy, Xebia

Cloud & Containers Live! Conference
Co-Chair

SPEAKERS

Chris Ayers
*Senior Customer Engineer,
Microsoft*

Mike Benkovich
*Developer, Consultant,
Cloud Architect & Instructor*

Eric D. Boyd
*Founder and CEO,
responsiveX*

Rockford Lhotka
*VP of Strategy,
Xebia*

Ted Neward
*Principal,
Neward and Associates*

Carey Payette
*Senior Software Engineer,
Trillium Innovations*

Scott Sauber
*Director of Engineering at
Lean TECHniques Inc*

Geert van der Cruijsen
*Azure AI Lead &
Management Consultant,
Xebia*

Dan Wahlin
*Principal Cloud
Developer Advocate,
Microsoft*

LIVE! 360
TECH EVENTS WITH PERSPECTIVE

Cybersecurity & Ransomware LIVE!
DEFENDING AGAINST RANSOMWARE AND OTHER ATTACKS

ORLANDO 2024
ROYAL PACIFIC RESORT AT UNIVERSAL
NOVEMBER 17-22, 2024

Cybersecurity & Ransomware® LIVE!

DEFENDING AGAINST RANSOMWARE AND OTHER ATTACKS

ORLANDO 2024
ROYAL PACIFIC RESORT AT UNIVERSAL
NOVEMBER 17-22, 2024

Cybersecurity & Ransomware LIVE!
DEFENDING AGAINST RANSOMWARE AND OTHER ATTACKS

LIVE! 360
TECH EVENTS WITH PERSPECTIVE

AGENDA-AT-A-GLANCE

Ransomware Industry	Incident Response	Human Intelligence / Security for Dev's	Red Team Tactics and Techniques	Blue Team	Purple Team

START TIME	END TIME	Cybersecurity & Ransomware Live! Pre-Conference Hands-On Lab: Sunday, November 17, 2024			
7:00 AM	9:00 AM	Hands-On Lab Registration • Coffee and Morning Pastries			
9:00 AM	6:00 PM	CRHOL01 Hands-On Lab: Microsoft Defender XDR - Chief Defender - *Stefan Schörling & Mattias Borg*			
10:00 AM	7:00 PM	Pre-Conference Registration - *Royal Pacific Resort Conference Center*			

START TIME	END TIME	Cybersecurity & Ransomware Live! Pre-Conference Workshops: Monday, November 18, 2024			
7:00 AM	8:30 AM	Registration • Coffee and Morning Pastries			
8:30 AM	5:30 PM	CRM01 Workshop: Preventing Ransomware With Directory Tiering and Privileged Access Workstations - *Sami Laiho*		CRM02 Workshop: Microsoft 365 XDR Security & Compliance PowerCamp 2024 - *Andy Malone*	
5:45 PM	6:15 PM	Live! 360 First Timers Forum: A New Attendees Guide			
6:30 PM	8:00 PM	Mix & Mingle @ Hard Rock Café Universal CityWalk			

START TIME	END TIME	Cybersecurity & Ransomware Live! Day 1: Tuesday, November 19, 2024			
7:00 AM	8:00 AM	Registration • Coffee and Morning Pastries			
8:00 AM	9:00 AM	CYBERSECURITY & RANSOMWARE LIVE! KEYNOTE: Forward to the Past and Back to the Future – Cybersecurity in 2024 and Beyond *Sami Laiho*, Chief Research Officer, Adminize			
9:15 AM	10:30 AM	CRT01 M365 Defender - Custom Detections Everything You Need to Know - *Stefan Schörling & Mattias Borg*		CRT02 Sysmon 101 - *Andy Milford*	
10:30 AM	11:00 AM	Networking Break • Visit the EXPO Lounge - *Pacifica 7*			
11:00 AM	12:00 PM	LIVE! 360 KEYNOTE: To Be Announced *Mads Kristensen*, Principal Product Manager, Microsoft			
12:00 PM	12:45 PM	Lunch - *Oceana Ballroom* • Visit the EXPO Lounge - *Pacifica 7*			
12:45 PM	1:30 PM	Dessert Break • Visit the EXPO Lounge - *Pacifica 7*			

Sessions and speakers subject to change.

Microsoft Sessions

AGENDA-AT-A-GLANCE *(continued)*

Ransomware Industry	Incident Response	Human Intelligence / Security for Dev's	Red Team Tactics and Techniques	Blue Team	Purple Team

START TIME	END TIME	Cybersecurity & Ransomware Live! Day 1: Tuesday, November 19, 2024 *(Continued)*			
1:30 PM	1:50 PM	**CRT03** Fast Focus: Using the Defender Exposure Score to Achieve Rapid Security Wins - *John O'Neill Sr.*		**CRT04** Fast Focus: To Be Announced	
2:00 PM	2:20 PM	**CRT05** Fast Focus: Understanding Cyber Attacks - *John O'Neill Sr.*		**CRT06** Fast Focus: Give Your Security Program Traction - *Alton Crossley*	
2:20 PM	2:45 PM	Networking Break • Visit the EXPO Lounge - *Pacifica 7*			
2:45 PM	4:00 PM	**CRT07** Improve Your Resilience With Cybersecurity Table-top Exercises - *Stefan Schörling & Mattias Borg*		**CRT08** To Be Announced	
4:15 PM	5:30 PM	**CRT09** The Model Application Security Program - *Alton Crossley*		**CRT10** USBreached and USBroken - *Andy Milford*	
5:30 PM	7:00 PM	Exhibitor Welcome Reception - *Pacifica 7*			
START TIME	END TIME	Cybersecurity & Ransomware Live! Day 2: Wednesday, November 20, 2024			
7:30 AM	8:00 AM	Registration • Coffee and Morning Pastries			
8:00 AM	9:15 AM	**CRW01** Fear the Defaults - Take Control of Your Entra ID Configuration - *Jan Ketil Skanke*		**CRW02** Quantum Leap! – Fighting Cybercrime With the Next Generation of Cryptography - *Andy Malone*	
9:30 AM	10:45 AM	**CRW03** Entra ID Security Testing With Open-Source Tools - *Nestori Syynimaa*		**CRW04** No Country for Old Hackers: A Journey Inside Passwordless Authentication With Passkeys - *Andy Malone*	
10:45 AM	11:30 AM	Networking Break • Visit the EXPO Lounge - *Pacifica 7*			
11:30 AM	12:30 PM	**LIVE! 360 KEYNOTE: The Future of IT** *Marcel de Vries*, Global MD & CTO, Xebia			
12:30 PM	1:30 PM	Table Topics Lunch - *Oceana Ballroom*			
1:30 PM	2:00 PM	Dessert Break • Visit the EXPO Lounge - *Pacifica 7*			
2:00 PM	3:15 PM	**CRW05** Code Secure Without Becoming a Hacker - *Alton Crossley*		**CRW06** A-Z Steps on How to Start an Infrastructure / Cybersecurity Assessment - *Omar Valerio*	
3:15 PM	4:00 PM	Networking Break • Visit the EXPO Lounge • Expo Raffle @ 3:30 p.m. - *Pacifica 7*			
4:00 PM	5:15 PM	**CRW07** Exploiting Token Based Authentication: Attacking and Defending Identities in the 2020s - *Nestori Syynimaa*		**CRW08** Advanced Investigation and Threat Hunting With KQL - *Bi Yue Xu*	
7:30 PM	9:00 PM	Live! 360 Dessert Luau - *Wantilan Pavilion*			

Sessions and speakers subject to change.

Microsoft Sessions

Cybersecurity & Ransomware LIVE!
DEFENDING AGAINST RANSOMWARE AND OTHER ATTACKS

AGENDA-AT-A-GLANCE *(continued)*

Ransomware Industry	Incident Response	Human Intelligence / Security for Dev's	Red Team Tactics and Techniques	Blue Team	Purple Team

START TIME	END TIME	Cybersecurity & Ransomware Live! Day 3: Thursday, November 21, 2024		
7:30 AM	8:00 AM	Registration • Coffee and Morning Pastries		
8:00 AM	9:15 AM	**CRTH01** Security is Not Meant To Be a Matter of Convenience - *Steve LaBeau & Émile Cabot*		**CRTH02** Enhancing Security Posture: Best Practices of Microsoft Sentinel Threat Intelligence - *Marcos Nogueira*
9:30 AM	10:45 AM	**CRTH03** Advanced Configuration of Microsoft Defender for Endpoint - *Steve LaBeau & Émile Cabot*		**CRTH04** Mastering Security Operations: Best Practices for Microsoft Sentinel - *Marcos Nogueira*
11:00 AM	12:00 PM	**CYBERSECURITY & RANSOMWARE LIVE! PANEL DISCUSSION: How Not to Get Hacked in 2024** *Sami Laiho [Moderator], Erica Burgess, Émile Cabot, Steve LaBeau, & Marcos Nogueira*		
12:00 PM	1:00 PM	Live! 360 DJ Lunch		
1:00 PM	2:15 PM	**CRTH05** Strengthening Cyber Defense: Unveiling Ransomware Attackers' Tactics and Tools - *Bi Yue Xu*		**CRTH06** Weaponized AI: Making Low Severity Exploits Critical - *Erica Burgess*
2:30 PM	3:45 PM	**CRTH07** Protecting Against Ransomware With Microsoft Defender Solutions - *Bi Yue Xu*		**CRTH08** Never Break the Chain: How Attack Chaining Builds 0-Days - *Erica Burgess*
4:00 PM	5:00 PM	**LIVE! 360 WRAP PARTY** **Tech Presentation: TBD** - *Billy Hollis, Developer. Designer. Speaker. Author.* **Q&A with Live! 360 Conference Chairs & Speakers:** Andrew J. Brust, Angela Dugan, Dave Kawula, Sami Laiho, Thomas LaRock, Rockford Lhotka, Brian A. Randell, Sara Caldwell, Chris Klug, Amber Vanderburg, Bradley Ball, Meagan Longoria, Allan Hirt, Chris Ayers, Layla Porter, Carey Payette & Jan Ketil Skanke		
START TIME	END TIME	Cybersecurity & Ransomware Live! Post-Conference Workshop: Friday, November 22, 2024		
7:30 AM	8:00 AM	Registration • Coffee and Morning Pastries		
8:00 AM	5:00 PM	**CRF01** Workshop: Windows Firewall and IPSec to Protect Against Ransomware - *Sami Laiho*		

Sessions and speakers subject to change.

Microsoft Sessions

ORLANDO 2024
ROYAL PACIFIC RESORT AT UNIVERSAL
NOVEMBER 17-22, 2024

Cybersecurity & Ransomware LIVE!
DEFENDING AGAINST RANSOMWARE AND OTHER ATTACKS

LIVE! 360
TECH EVENTS WITH PERSPECTIVE

CYBERSECURITY & RANSOMWARE 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.

CRHOL01

Hands-On Lab: Microsoft Defender XDR - Chief Defender

Intermediate

STEFAN SCHÖRLING & MATTIAS BORG
Sunday, November 17, 9:00am – 6:00pm

In this full day of hands-on training, we will go through Microsoft Defender XDR from a Security Analyst perspective.

We will cover the included products in Microsoft Defender XDR, and how to work with them to respond to incidents. Additionally, we will also go through how to perform Threat Hunting with Microsoft Defender XDR.

During this in-depth workshop we will have a mix of lectures and hands-on in the Defender Portal.

You will learn:
- About working as an Analyst in Microsoft Defender XDR
- About Threat Hunting with Microsoft Defender XDR
- About managing Microsoft Defender XDR

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

WORKSHOPS

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

CRM01

Workshop: Preventing Ransomware With Directory Tiering and Privileged Access Workstations

Intermediate

SAMI LAIHO
Monday, November 18, 8:30am – 5:30pm

If you can RDP into a server or a jump server from any computer in your network, you are in trouble and you should join this training!

One concept to deploy in any modern environment is the Concept of Privileged Access Workstations. We simply cannot allow **ANY** computer to take down the whole company or have access to resources that can. A normal end-user computer can access the Internet and cannot be thus used to manage the environment. A separate workstation, that cannot access the Internet and is better secured and more controlled, is to be used for managing the environment. We simply cannot combine potential access to malicious content and management into the same device.

The PAW is the missing component that makes a properly tiered Active (or Azure Active) Directory secure and easy to manage!

THE MOST COMMON REASON FOR PAW-PROJECT FAILING OR PEOPLE BEING UNHAPPY ABOUT IT, IS THAT PEOPLE READ MICROSOFT'S INSTRUCTIONS. Come and learn how the PAW-concept with Active Directory Tiering is deployed in reality!

Join, Sami Laiho, a world leading security expert, in this workshop and learn how he manages different sized environments and deploys the concepts of AD/AAD Tiering and Privileged Access Workstations

You will learn:
- How to deploy Directory Tiering
- How to deploy Privileged Access Workstations for on-prem & in the Cloud
- How to keep admins happy while using the PAWs, and not having multiple hardware devices or VMs

CRM02

Workshop: Microsoft 365 XDR Security & Compliance PowerCamp 2024

Intermediate

ANDY MALONE
Monday, November 18, 8:30am – 5:30pm

Organizations around the world are embracing the economic and operational benefits of cloud computing. The ability to extend internal resources and take advantage of the business benefits of Microsoft Azure requires that organizations continue to meet key security requirements. Customers running workloads on Microsoft Azure can face additional security and compliance requirements to protect their applications and data. This exclusive and intense one day Microsoft 365 Security Overview course prepares both IT and security professionals with the skills to plan, manage advanced security features using Microsoft Defender XDR Technologies.

This busy but fun one day class not only prepares you with real world understanding but provides an opportunity to interact and learn from an industry expert. Join us for a day of intensive learning and discussions. The purpose of the class is to fast-track through the maze of technology and get straight to the point into one jam-packed day.

Course Overview:
- Introductions – Overview
- Managing Threat Management Policies
- Microsoft Defender for Endpoint Deep Dive
- Administering Defender for CloudApps
- Azure Sentinel Technical Overview
- Getting Ready for Microsoft Copilot
- Unleashing Microsoft Purview Compliance Features for IT & Security Professionals
- Workshop Conclusions

CYBERSECURITY & RANSOMWARE LIVE! SESSION DESCRIPTIONS BY TRACK (continued)

CRF01

Workshop: Windows Firewall and IPSec to Protect Against Ransomware

Intermediate

SAMI LAIHO
Friday, November 22, 8:00am – 5:00pm

Every computer, whether in a corporate LAN or a public network, needs to be protected with a firewall. This also applies to all servers! And this means the device itself and not a firewall on the perimeter. Zero Trust means that those protections are in place wherever you might take your computer, and that we can identify the computer and user, not just an address where it says it is. With Windows Firewall you can block pass-the-hash and other lateral movement techniques, and by adding IPsec, you can get all the benefits of 802.1x authenticated networks – only better, more granular, and for free!

Join, Sami Laiho, a world leading security expert, in this full-day workshop and learn how he manages different sized environments and deploys the concept of Client Firewalls.

You will learn:
- How to deploy a managed Windows Firewall on clients and servers
- How to deploy IPsec in a Windows environment
- How to troubleshoot problems with Windows Firewall

BLUE TEAM

In this track, participants will dive into the world of cybersecurity and ransomware from the perspective of the blue team. They will learn about the fundamental principles of cybersecurity, explore various defensive strategies, and develop hands-on skills to protect against ransomware attacks. The track will cover network security, vulnerability management, threat intelligence, and incident detection and response. Participants will engage in practical exercises, simulations, and case studies to strengthen their ability to mitigate and defend against cyber threats, ultimately becoming proficient members of the blue team.

CRT01

M365 Defender - Custom Detections Everything You Need to Know

Intermediate / Advanced

STEFAN SCHÖRLING & MATTIAS BORG
Tuesday, November 19, 9:15am – 10:30am

You will learn:
- Custom Detections
- Relevant Use-cases
- Kusto Examples

CRT02

Sysmon 101

Introductory

ANDY MILFORD
Tuesday, November 19, 9:15am – 10:30am

You will learn:
- About the types of events Sysmon detects and where those events are logged
- About how to tune the types of events Sysmon detects, and how to deploy Sysmon on their systems
- How to create basic triggers with Scheduled Tasks and PowerShell when certain types of activity is detected by Sysmon

CRW06

A-Z Steps on How to Start an Infrastructure / Cybersecurity Assessment

Intermediate

OMAR VALERIO
Wednesday, November 20, 2:00 – 3:15pm

You will learn:
- A better understanding of your Infrastructure
- To start developing a Cybersecurity Assessment
- Policies and different types of malware

CRW08

Advanced Investigation and Threat Hunting With KQL

Intermediate

BI YUE XU
Wednesday, November 20, 4:00 – 5:15pm

You will learn:
- The fundamentals of KQL
- About conducting investigations with KQL through real-life examples
- Demonstrating KQL queries utilized for detection and threat hunting

CYBERSECURITY & RANSOMWARE LIVE! SESSION DESCRIPTIONS BY TRACK *(continued)*

CRTH02

Enhancing Security Posture: Best Practices of Microsoft Sentinel Threat Intelligence

Introductory

MARCOS NOGUEIRA
Thursday, November 21, 8:00 – 9:15am

You will learn:
- About enhancing Security Posture
- Best Practices
- Microsoft Sentinel

CRTH03

Advanced Configuration of Microsoft Defender for Endpoint

Intermediate / Advanced

STEVE LABEAU & ÉMILE CABOT
Thursday, November 21, 9:30 – 10:45am

You will learn:
- Insights into integrating threat intelligence for proactive defense.
- How to utilize advanced hunting queries to unearth covert threats.
- How to transform your security strategy from reactive to proactive.

> " NEW CYBER TRACK IS THE BEST EVER. RIGHT IN MY WHEELHOUSE AS FAR AS MY JOB FUNCTION."
>
> *– Live! 360 2023 attendee*

HUMAN INTELLIGENCE / SECURITY FOR DEV'S

This track focuses specifically on the critical role of human intelligence in cybersecurity. Participants will learn to effectively gather, analyze, and interpret intelligence data to identify potential security breaches, detect malicious activities, and proactively respond to emerging threats. Topics covered in this track include threat hunting, open-source intelligence (OSINT) gathering, social engineering, and digital forensics. Through hands-on exercises and realistic simulations, participants will develop practical skills in collecting and utilizing human intelligence, equipping them to enhance organizations' overall security posture.

CRT03

Fast Focus: Using the Defender Exposure Score to Achieve Rapid Security Wins

Introductory / Intermediate

JOHN O'NEILL SR.
Tuesday, November 19, 1:30 – 1:50pm

You will learn:
- How to utilize the Defender Exposure Score to identify weaknesses
- How to validate and communicate quick cybersecurity wins to stakeholders
- About the Defender Exposure Score and why it's important

CRT07

Improve Your Resilience With Cybersecurity Table-top Exercises

Introductory

STEFAN SCHÖRLING & MATTIAS BORG
Tuesday, November 19, 2:45 – 4:00pm

You will learn:
- About getting started with table-tops
- Practical examples
- Lessons learned

CRT09

The Model Application Security Program

Introductory

ALTON CROSSLEY
Tuesday, November 19, 4:15 – 5:30pm

You will learn:
- The value of an AppSec program
- Where AppSec and Software Engineering Intersect
- How AppSec and Software Engineering operate together well

CRW01

Fear the Defaults - Take Control of Your Entra ID Configuration

Intermediate

JAN KETIL SKANKE
Wednesday, November 20, 8:00 – 9:15am

You will learn:
- The risk of using the defaults
- What you need to get to an acceptable state
- About hardening and controlling privileged access

CRW05

Code Secure Without Becoming a Hacker

Intermediate

ALTON CROSSLEY

Wednesday, November 20, 2:00 – 3:15pm

You will learn:
- How software engineers can thrive in a world of shovel left security training
- How to re-align principals to champion security
- How software engineers can dominate security

INCIDENT RESPONSE

In this track, participants will dive deep into incident response, learning how to respond to security incidents and minimize their impact efficiently. They will gain an understanding of incident detection, containment, eradication, and recovery strategies. In addition, the track will cover incident handling procedures, incident management frameworks, digital forensics, and incident reporting. Through practical exercises and real-world scenarios, participants will develop the necessary skills to respond effectively to cyber incidents, mitigate damages, and restore normal operations. This track aims to empower participants to become proficient incident responders, playing a vital role in safeguarding organizations against cyber threats.

CRT06

Fast Focus: Give Your Security Program Traction

Introductory

ALTON CROSSLEY

Tuesday, November 19, 2:00 – 2:20pm

You will learn:
- What CTEM is
- Why you should want to do it
- How to do it

CRTH01

Security is Not Meant to be a Matter of Convenience

Introductory

STEVE LABEAU & ÉMILE CABOT

Thursday, November 21, 8:00 – 9:15am

You will learn:
- Tools needed to turn skepticism into support
- How to transform the security conversation within your organization.
- What's involved in bridging the gap between organization and security.

CRTH04

Mastering Security Operations: Best Practices for Microsoft Sentinel

Introductory / Intermediate

MARCOS NOGUEIRA

Thursday, November 21, 9:30 – 10:45am

You will learn:
- Microsoft Sentinel
- Security Operations
- Best Practices

PURPLE TEAM

The purple team track offers participants a unique opportunity to explore the intersection of offensive and defensive strategies in the context of the ransomware industry. Participants will gain insights into the tactics, techniques, and procedures (TTPs) employed by threat actors behind ransomware attacks and use that knowledge to enhance their defensive capabilities. The track will cover penetration testing, vulnerability analysis, threat modelling, and security assessment. Additionally, participants will engage in hands-on exercises that simulate real-world scenarios, enabling them to operate effectively in a purple team environment and strengthen their organization's defenses against ransomware.

CRT10

USBreached and USBroken

Introductory

ANDY MILFORD

Tuesday, November 19, 4:15 – 5:30pm

You will learn:
- How attackers use Rubber Duckies and other HID devices to compromise systems and exfiltrate data
- How Juice Jackers distribute malware to devices, and how USBKillers can destroy hardware.
- How to mitigate common USB attack vectors, by using USB port locks, disabling USB ports in BIOS or in the OS, and other protective techniques.

CYBERSECURITY & RANSOMWARE LIVE! SESSION DESCRIPTIONS BY TRACK *(continued)*

CRW03

Entra ID Security Testing With Open-source Tools

Intermediate / Advanced

NESTORI SYYNIMAA

Wednesday, November 20, 9:30 – 10:45am

You will learn:
- Understand threat actors' Techniques, Tactics, and Procedures (TTPs)
- How to leverage Mitre ATT&CK® framework to plan TTP based security testing
- How to run TTP based security testing using open source tools

CRW07

Exploiting Token Based Authentication: Attacking and Defending Identities in the 2020s

Intermediate / Advanced

NESTORI SYYNIMAA

Wednesday, November 20, 4:00 – 5:15pm

You will learn:
- How the modern token-based authentication works
- How adversaries conduct token-based authentication attacks
- How to detect and prevent token-based authentication attacks

RANSOMWARE INDUSTRY

Learn defensive strategies explicitly tailored for the ransomware industry. First, understand the tactics, techniques, and procedures (TTPs) employed by threat actors behind ransomware attacks. Next, explore how to effectively defend against such attacks through simulation exercises, incident response planning, and case studies. Topics covered include incident detection and response, ransomware prevention, mitigation techniques, and recovery strategies. Finally, equip yourself with the knowledge and practical skills to fortify an organization's defenses against ransomware.

CRT05

Fast Focus: Understanding Cyber Attacks

Introductory

JOHN O'NEILL SR.

Tuesday, November 19, 2:00 - 2:20pm

You will learn:
- Best practice recommendations for protecting systems
- About common techniques used by cyberattackers for gaining initial network access
- Strategies for strengthening network defenses against weak cybersecurity controls and practices

CRTH05

Strengthening Cyber Defense: Unveiling Ransomware Attackers' Tactics and Tools

Intermediate

BI YUE XU

Thursday, November 21, 1:00 – 2:15pm

You will learn:
- Tools like Mimikatz and LaZagne utilized for credential theft.
- Cobalt Strike, a legitimate penetration testing tool that is increasingly repurposed for ransomware attacks.
- The growing utilization of legitimate tools, including Group Policy modification, PsExec execution, and discreet remote access tools like TeamViewer or RDP.

CRTH07

Protecting Against Ransomware With Microsoft Defender Solutions

Intermediate

BI YUE XU

Thursday, November 21, 2:30 – 3:45pm

You will learn:
- Securing Privileged Access: Use features like Directory Tiering and PAW to restrict access to sensitive resources and limit ransomware spread.
- Microsoft Defender Application Guard (MDAG): MDAG isolates risky websites and files in a virtual container, thwarting ransomware infections.
- Threat Analytics: Gain insights to understand and respond effectively to ransomware threats, including attack details and mitigation recommendations.

Cybersecurity & Ransomware **LIVE!**
DEFENDING AGAINST RANSOMWARE AND OTHER ATTACKS

⚙ RED TEAM TACTICS AND TECHNIQUES

The red team track focuses on offensive security techniques and strategies to identify vulnerabilities and weaknesses in an organization's security posture. Participants will learn to think like an attacker and perform comprehensive security assessments. The track will cover reconnaissance, vulnerability exploitation, privilege escalation, lateral movement, and post-exploitation topics. In addition, participants will engage in practical exercises, capture-the-flag challenges, and simulated attack scenarios, honing their skills as red team members and enabling them to provide valuable insights to organizations on potential security gaps and risks.

CRW02

Quantum Leap! – Fighting Cybercrime With the Next Generation of Cryptography

Introductory / Intermediate

ANDY MALONE
Wednesday, November 20, 8:00 – 9:15am

You will learn:
- About Quantum Cryptography
- About where Quantum Cryptography can be used
- Insight into this ground breaking tech

CRW04

No Country for Old Hackers: A Journey Inside Passwordless Authentication With Passkey's

Intermediate

ANDY MALONE
Wednesday, November 20, 9:30 – 10:45am

You will learn:
- What passkeys are and how they really work
- How to deploy and manage
- How they form part of an overall cybersecurity strategy

CRTH06

Weaponized AI: Making Low Severity Exploits Critical

Intermediate

ERICA BURGESS
Thursday, November 21, 1:00 – 2:15pm

You will learn:
- About AI-specific defense evasion techniques and how to defend (i.e. AI voice clone demo for social engineering, and AI related appsec attacks).
- How to mitigate AI-specific risks of using or building various types of AI systems.
- About using various types of AI for cutting edge offensive security research i.e. generating new 0-days before an attacker does. Additionally, we apply this knowledge towards general tool orchestration using Azure's OpenAI API.

CRTH08

Never Break the Chain: How Attack Chaining Builds 0-Days

Intermediate

ERICA BURGESS
Thursday, November 21, 2:30 – 3:45pm

You will learn:
- How attack chaining works in web application hacking, and how low severity vulnerabilities chained together create severe exploits, especially when combined with generative AI (defense and offense using Azure OpenAI API).
- What different job roles can do to help prevent the most severe attacks.
- Remediations for each of the presented real-world examples of original exploits.

CYBERSECURITY & RANSOMWARE LIVE! SPEAKERS

CONFERENCE CHAIRS

Sami Laiho
Chief Research Officer, Adminize

Cybersecurity & Ransomware Live! Conference Co-Chair

Dave Kawula
Principal Consultant, TriCon Elite Consulting

Cybersecurity & Ransomware Live! Conference Co-Chair

SPEAKERS

Mattias Borg
Cyber Security Geek

Erica Burgess
Cybersecurity and AI Architect, Tyler Technologies

Émile Cabot
Principal Consultant, TriCon Elite Consulting

Alton Crossley
Software Engineer in Security

Steve LaBeau
Principal Systems Engineer, Principal Technology Solutions

Dave Kawula
Principal Consultant, TriCon Elite Consulting

Sami Laiho
Chief Research Officer, Adminize

Andy Malone
Worldwide Speaker, YouTuber, Tech Instructor, Author

Andy Milford
CEO, RDPSoft

Marcos Nogueira
Chief Technology Officer, vCISO

John O'Neill Sr.
Chief Technologist, AWS Solutions

Stefan Schörling
Cloud Security and Infra Geek, Onevinn AB

Jan Ketil Skanke
MVP Enterprise Mobility, MVP Security, Partner, CloudWay

Nestori Syynimaa
Senior Principal Security Researcher, Secureworks

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

Bi Yue Xu
Principal Security Cloud Solution Architect, Microsoft

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netwrix

Netwrix champions cybersecurity to ensure a brighter digital future for any organization. Netwrix's innovative solutions safeguard data, identities, and infrastructure reducing both the risk and impact of a breach for more than 13,500 organizations across 100+ countries. Netwrix empowers security professionals to face digital threats with confidence by enabling them to identify and protect sensitive data as well as to detect, respond to, and recover from attacks. www.netwrix.com

CONTRIBUTOR

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Book by: October 25, 2024

Reservations: 833.243.4731

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Orlando, FL 32819

Special attendee rate: $184.00*

Book by: October 25, 2024

Reservations: 833.243.4731

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- Complimentary in-room internet connectivity**
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** 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.

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

CONFERENCE + HOTEL PACKAGE

If you add the Hotel Package when registering, a hotel room at either Loews Royal Pacific Resort or Loews Sapphire Falls Resort will be reserved for you. The conference center where the event is being held is located between the hotels and both hotels are connected to the conference center.

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

CONFERENCE VENUE, HOTEL DEALS & TRAVEL *(continued)*

TRAVEL

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Taxi: One way fares from Orlando International Airport (MCO) average $45-$50

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Loews Royal Pacific Resort & Loews Sapphire Falls Resort Self or valet parking for Live! 360 attendees:**

• Self-parking is $15.00* per day

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