Visual Studio LIVE!
EXPERT SOLUTIONS FOR ENTERPRISE DEVELOPERS

NO CODE LIMITS
AUSTIN
June 13-17, 2022 | Hyatt Regency Austin

IN-DEPTH TECHNICAL CONTENT ON:

- DevOps and Beyond
- Cloud, Containers and Microservices
- AI, Data and Machine Learning
- Developing New Experiences
- Technical Excellence & Leadership Skills
- The Core of .NET
- Full Stack Web Development

DEVELOPER TRAINING CONFERENCE IN THE HEART OF TEXAS

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A MESSAGE FROM THE CONFERENCE CO-CHAIRS


In the 3 years since we were last in Austin, a lot of things have changed about how we live and how we work, and the tools and technologies we leverage to be successful have not slowed their pace either. As we all continue to navigate our new normal and re-establish our networks together, Visual Studio Live! Austin is here to support you with a whole new array of educational sessions and social events to re-energize you.

We’re Andrew Brust, Angela Dugan, Rockford Lhotka, and Brian Randell, and as Conference Co-Chairs for Visual Studio Live! in 2022, we’d like to personally invite you to join us in person at the Hyatt Regency right on the river in Austin. We’re super excited that we are able to return to an in-person experience. A great opportunity to have two-way conversations about the latest tools and technologies with your peers and some of the finest expert speakers in the business. In our experience, this conference format delivers the highest level of value, and we’re ready for it. Our cohort of technical speakers will be ready to help you know what’s ready for production, what’s not, and provide their expert advice and knowledge on how to build the best solutions and experiences for your customers.

Visual Studio Live! in Austin gives you a rich multi-track event with great 75-minute breakout sessions, Fast Focus sessions for quick hits on relevant topics, deep dives, a full day of hands-on-lab training, and a full day of deep workshops, covering a wide array of development technologies for everyone. From intelligent bots to databases, from team building to the latest mobile, Web, cloud, and desktop technologies - we’ve got you covered. Our speakers will present in-depth sessions on data analytics, serverless, and other cloud technologies with experience on Windows, macOS, Linux, and mobile platforms. We have picked every hands-on-lab, workshop, deep dive, and session with the goal of transferring current, relevant knowledge to you so that you can be a better developer, team member, and leader. We hope you will return from this event energized and ready to help your organization succeed in this ever-changing world.

You’ll find coverage on Microsoft Visual Studio 2022, .NET 6, DevOps, MAUI, and modern data warehouse technology. If the Web is more your style, you’ll find sessions on JavaScript, TypeScript, Angular, and Blazor on the client, as well as ASP.NET Core on the server. Feeling confused about .NET? We’ve got sessions to clear it up. Want to improve your DevOps processes, or boost your team’s agility? We’ve got coverage of numerous topics to help you do just that. Want to be an expert on cloud transformation? We’ve got sessions for that too!

Overall, our speakers will answer your questions with practical guidance on native client development, Web, database, and more.

Our workshop content provides coverage of Visual Studio 2022, microservices with Dapr, and SQL Server 2019. Want to get your hands dirty? We’ve got great all-day hands-on-labs covering how to build serverless full-stack apps with Azure SQL, Cloud-Native Development, GitHub, and ASP.NET Core and Entity Framework. Hungry for even more? We’ve also got deep dives into Blazor, MAUI, and Cosmos DB. Our sessions, hands-on-labs, and workshops drill deep into the subjects you need to master and the fundamentals that are always important.

Our industry continues its march toward the future. To keep up, you need to absorb rapidly and adapt. Go beyond Internet-based content to a live experience, where you get to ask questions in real-time and engage directly with the experts and your peers. Find a way to get to Visual Studio Live! Austin and get the tools to help yourself grow.

We hope to see you there!

VISUAL STUDIO LIVE! CONFERENCE CO-CHAIRS

Andrew Brust
Founder & CEO, Blue Badge Insights

Angela Dugan
Delivery Director, 3Cloud Solutions

Rockford Lhotka
CTO, Cognizant Softvision

Brian A. Randell
Product Marketing Director, GitHub
TOP FIVE REASONS TO ATTEND VISUAL STUDIO LIVE! AUSTIN

5. BE READY FOR NOW AND NEXT —
Get up to speed on what’s happening on the .NET developer landscape now, and learn what’s coming next to get out ahead of the competition. Keep yourself and your business competitive and future-ready with training on .NET 6 and .NET MAUI, Blazor, ASP.NET Core, ML.NET, Microservices, SQL Server 2019, C# 10, and so much more....

4. LEARN FROM LIKE MINDS —
From the networking breakfasts, to evening activities, to just sitting next to someone new at lunch, you’ll have the unique chance to learn from and share with your peers, all week long! Whether you’re looking for best practices, answers to specific tech questions, help with strategy, or to keep up-to-date with the latest releases, you’ll efficiently and effectively connect with the right people.

3. ACCESSIBLE EXPERTS & A FULL SET LIST OF PERSPECTIVES —
What separates Visual Studio Live! from other conferences (and internet-based training) is the unparalleled access to the speakers. Get your questions answered in-between sessions, during meals and at fun evening events. Our speakers include both unbiased industry experts and Microsoft insiders, so you’ll hear every side of the story on the most recent software and industry updates.

2. ELEVATE YOUR LEARNING WITH HANDS-ON LABS —
Choose from four in-depth HOLs and get hands-on with: Develop an ASP.NET Core App with EF Core, Build and Run Cloud-Native .NET Code, Build a Secure Cloud App in a Day with GitHub, and Build Serverless, Full Stack Applications including IoT with Azure SQL.

1. GO BIG ON CONTENT. NO CODE LIMITS —
We offer 5 days of educational content with over 60 sessions, hands-on labs, and workshops in a variety of tracks. You’ll be sure to bring back many tips, tricks, and new knowledge to apply immediately back at the office.

I APPRECIATE THAT IT ISN’T PURELY “HOW TO” BUT MORE “DO THIS BECAUSE...”. I CAN GO TO PLURALSIGHT, SAFARI, ETC., FOR PURE “HOW TO”. HEARING EXPERTS EXPLAIN WHY YOU SHOULD DO “X” IS MORE IMPORTANT.

– Visual Studio Live! Austin 2018 attendee
THE FUN STUFF: VISUAL STUDIO LIVE! AUSTIN EVENTS & ACTIVITIES

YOUR ATTENDANCE AT VISUAL STUDIO LIVE! is about learning from your peers as well as our expert speakers. Make the most of your time and add these events to your itinerary.

**MIX & MINGLE @ VSLIVE!**
Monday, June 13
Join us to mix and mingle with other conference attendees and speakers for a casual no-host mixer. Enjoy light appetizers provided by VSLive! while you get to know your fellow attendees and take in the local Austin nightlife. Everyone is responsible for their own beverages.

**WELCOME RECEPTION & TRIVIA TUESDAY**
Tuesday, June 14
Enjoy drinks and snacks while you explore the VSLive! Austin exhibits and network with fellow attendees and speakers. This is your chance to check out the latest offerings from our exhibitors to help you in daily life when you return to the office.

*New this year at VSLive! – Trivia Fun!* Test your knowledge against your fellow attendees. Everyone can join in by using their mobile device. Each round winner will receive a prize along with bragging rights for the week!

**TABLE TOPIC LUNCH**
Wednesday, June 15
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.

We will also have designated speaker tables - noted with the speakers’ name. Join your favorite speaker for a lunchtime discussion or to follow up on any questions from a session.

**VSLIVE!'S “BUCKET LIST” TOUR OF AUSTIN**
Wednesday, June 15, 6:30pm – 8:30pm
Pre-registration & $10 Confirmation Fee Required
Discover the best of Austin with your fellow VSLive! attendees. This fast-paced two-hour “bucket list” tour will give you a great snapshot of Austin: get dizzy gazing upward at the Capitol’s dome, indulge in decadent treats from iconic food trucks, explore cool outdoor art, snap photos at city landmarks, and check out funky neighborhoods only a local would know about.

This detour is jam-packed with facts, history and trivia on everything from Whole Foods to the UT campus, and everyone from Michael Dell to Willie Nelson. By the time you’re done, you’ll be able to say you “get” Austin – the history, people, music, culture, food and what keeps it “weird.”

Whether you’re looking for a fun overview of the city or just need to prove to the social media universe you were in Austin with a picture in front of the Austin Postcard, don’t miss this tour. Space is limited so reserve your seat today!
## AGENDA-AT-A-GLANCE

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### Pre-Conference Hands-On Labs: Monday, June 13, 2022 (Separate entry fee required)

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<td>7:30 AM</td>
<td>9:00 AM</td>
<td>Pre-Conference Workshop Registration - Coffee and Morning Pastries</td>
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</table>
| 9:00 AM    | 6:00 PM  | **HOL01** Hands-on Lab: Develop an ASP.NET Core App with EF Core in a Day
- Philip Japikse |
| 9:00 AM    | 6:00 PM  | **HOL02** Hands-on Lab: Learn to Build and Run Cloud-Native .NET Code
- Rockford Lhotka |
| 9:00 AM    | 6:00 PM  | **HOL03** Hands-on Lab: Build a Secure, Cloud Application in a Day with GitHub
- Brian Randell & Brittany O’Shea |
| 7:00 PM    | 9:00 PM  | **HOL04** Hands-on Lab: Build Serverless, Full Stack Applications including IoT with Azure SQL - Bob Ward, Davide Mauri, Mara-Florina Steiu, & Drew Skwiers-Koballa |
| 7:00 PM    | 9:00 PM  | Mix & Mingle @ VSLive! Austin |

### Visual Studio Live! Day 1: Tuesday, June 14, 2022

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<td>7:00 AM</td>
<td>8:00 AM</td>
<td>Registration - Coffee and Morning Pastries</td>
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</table>
| 8:00 AM    | 9:15 AM  | **T01** Getting Started with ASP.NET Core
- Philip Japikse |
| 8:00 AM    | 9:15 AM  | **T02** How to Build Secure, Scalable, and Highly Available Applications with Azure SQL Database - Bob Ward |
| 9:30 AM    | 10:45 AM | **T03** What’s New in .NET 6 APIs
- Jason Bock |
| 9:30 AM    | 10:45 AM | **T04** Azure and GitHub the Big Picture
- Marcel de Vries |
| 11:00 AM   | 12:00 PM | KEYNOTE: TO BE ANNOUNCED
- Brian Randell & Brittany O’Shea |
| 12:00 PM   | 1:00 PM  | Lunch |
| 1:00 PM    | 1:30 PM  | Dessert Break - Visit Exhibitors |
| 1:30 PM    | 2:45 PM  | **T09** Building Secure and Scalable APIs in .NET 6 - Tony Champion |
| 3:00 PM    | 4:15 PM  | **T10** An Introduction to Service Meshes on Kubernetes - Marcel de Vries |
| 3:00 PM    | 4:15 PM  | **T11** The Power of Performance Feedback
- Amber Vanderburg |
| 4:15 PM    | 5:30 PM  | Welcome Reception & Trivia Tuesday |

### Visual Studio Live! Day 2: Wednesday, June 15, 2022

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| 8:00 AM    | 9:16 AM  | **W01** Deep Dive on Blazor: The Run Everywhere with .NET UI Framework
- Rockford Lhotka |
| 8:00 AM    | 9:16 AM  | **W02** Choosing from the Many Ways to Docker in Azure
- Rob Richardson |
| 9:30 AM    | 10:45 AM | **W03** No More Sharding! Rethink your DAL to Leverage Database Scaleoutability, Improve Performances and Reduce Costs
- Davide Mauri |
| 9:30 AM    | 10:45 AM | **W04** How to Implement Developer-optimized Application Security
- Brittany O’Shea |

Sessions and speakers subject to change.
Day 2: Wednesday, June 15, 2022 (Continued)

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<td>GENERAL SESSION: TO BE ANNOUNCED</td>
<td>Bob Ward, Davide Mauri, Maro-Florina Steiu, &amp; Drew Skwiers-Koballa</td>
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<td>12:00 PM</td>
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<td>1:30 PM</td>
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<td>Fast Focus: Hybrid Web Frameworks - Allen Conway</td>
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<td>2:00 PM</td>
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<td>Fast Focus: The Knights Who Say &quot;NI!&quot; ... A Developer Tale - Marcel de Vries</td>
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<td>2:30 PM</td>
<td>3:45 PM</td>
<td>TypeScript: Moving Beyond the Basics - Allen Conway</td>
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<td>4:00 PM</td>
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<td>Building a Progressive Web App (PWA) Using Angular - Allen Conway</td>
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<td>VSLive's &quot;Bucket List&quot; Tour of Austin</td>
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Day 3: Thursday, June 16, 2022

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<td>ASP.NET Core Beyond the Basics - Chris Klug</td>
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<td>9:00 AM</td>
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<td>Create Intelligent Bots with Azure Bot Service and Cognitive Services - Eric D. Boyd</td>
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<td>Building a Better GitHub Pages Experience Using Azure Services, How Hard Can it be? - Chris Klug</td>
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<td>Deep Dive: Surfing in MAUI - Sam Basu</td>
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<td>2:45 PM</td>
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<td>Azure Cloud Transformation Done Right - Marcel de Vries</td>
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Post-Conference Workshops: Friday, June 17, 2022

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<td>Alex Thissen</td>
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<td>9:00 AM</td>
<td>10:15 AM</td>
<td>Workshop: DevOps Dive into SQL Server 2019</td>
<td>Leonard Lobel</td>
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KEYNOTE & GENERAL SESSION

WANT A FRONT-ROW SEAT TO THE FUTURE OF TECHNOLOGY? Attend the Keynote & General Sessions for Visual Studio Live! Austin to learn what’s hot on today’s tech landscape and what exciting developments lie ahead for this year and beyond.

We have lined up some of the best in the business to give these sessions we have planned for Visual Studio Live! Austin. While they are busy finalizing their session details you can check out their impressive bios below.

**TUESDAY KEYNOTE**

**To Be Announced**
Tuesday, June 14, 11:00am – 12:00pm

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

Brian A. Randell is a Product Marketing Director, Enterprise Developer Persona at GitHub where he works to ensure GitHub can help enterprise deliver solutions faster and more securely. He has been building software solutions for over 25 years. As a Partner at MCW Technologies, he educated teams on Microsoft technologies. He’s been a consultant for global companies including Fortune 100 companies. Brian is a passionate software craftsman who still enjoys coding as he helps teams to improve their processes from idea to release. He was a Microsoft MVP for 18 years has and has co-authored books, magazine articles, and more. Brian also enjoys spending time with his wife, two children, dog, and extended family. @brianrandell

**Brittany O'Shea**
PMM Director of Application Security, Github

Brittany O’Shea is the PMM Director of Application Security at Github. For the past decade, she’s been focused on building security products to help organizations navigate emerging threats. She is passionate about helping developers and security professionals develop better security strategies, so their applications thrive in today’s complex digital world. Brittany enjoys spending time with her family and learning new hobbies and recipes.

**GENERAL SESSION**

**To Be Announced**
Wednesday, June 15, 11:00am – 12:00pm

**Bob Ward**
Principal Architect, Microsoft Azure Data, Microsoft

Bob Ward is a Principal Architect for the Microsoft Azure Data team, which owns the development for all SQL Server versions. Bob has worked for Microsoft for 27+ years on every version of SQL Server shipped from OS/2 1.1 to SQL Server 2019 including Azure SQL. Bob is a well-known speaker on SQL Server and Azure SQL, often presenting talks on new releases, internals, and specialized topics at events such as Red Hat Summit, SQLBits, SQLIntersection, Microsoft Inspire, Microsoft Ignite, and many different virtual events. You can also learn Azure SQL from him on the popular series https://aka.ms/azuresql4beginners. You can follow him at @bobwardms or linkedin.com/in/bobwardms. Bob is the author of the books Pro SQL Server on Linux, SQL Server 2019 Revealed, and Azure SQL Revealed available from Apress Media.

**Davide Mauri**
Program Manager, Microsoft

Davide Mauri is Program Manager in the Azure SQL Database product group. He has been working in the IT field since 1997 and was awarded Data Platform MVP status for 12 consecutive years. He started his career as a full-stack and back-end developer, then focused on databases and data science for 15 years while still keeping alive his passion for development (mainly in C# and Python). He then moved to the Internet of Things (IoT) and big data space where ingesting, processing, and analyzing millions of data points in near real time was his everyday challenge. Building from that experience, he joined Microsoft to help companies worldwide to leverage stream processing at scale. He now works for Azure SQL Database as the developer’s voice inside the product group, working to make sure that Azure SQL Database is, and will be, the best database option for developers.

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

Drew Skwiers-Koballa is a Senior Program Manager for the Azure Data team focusing on tools and experiences for SQL. Prior to joining Microsoft in 2020, he spent nearly a decade as a developer and database administrator. Drew has built several extensions for Azure Data Studio and is an advocate for open source.

**Mara-Florina Steiu**
Program Manager, Microsoft

Mara is a Program Manager in the Azure SQL team. Her work is focused on data replication products such as SQL Data Sync, Change Data Capture (CDC), and Change Tracking. Prior to starting her job at Microsoft, Mara graduated Suma Cum Laude as a Global Scholar from Babson College (Business Analytics and IT) and founded several ed-tech initiatives back in her country (Romania), which led to her winning a TEDxAward and being recognized as one of the top Ten Outstanding Young Persons of Romania (TOYP 2020).
Visual Studio Live! Austin offers four instructor-led, pre-conference Hands-On Labs to help you take your dev skills to a new level. Get intensive, in-depth training to complete your conference experience. Hands-on Labs on Monday, June 13 are included in the 5-Day Conference Package, purchased as a single day pass, or added to a 3-Day, or 4-Day Package.

**Topics covered include:**
- ASP.NET Core App with EF Core
- Cloud-Native .NET Code
- Secure Cloud Apps
- Serverless, Full Stack Applications

These labs are presented on a Bring Your Own Laptop (BYOL) basis.

Attendance for each Hands-On Lab is limited, so be sure to sign up early!

**HOL01**

**Hands-On Lab: Develop an ASP.NET Core App with EF Core in a Day**

Intermediate

**PHILIP JAPIKSE**

Monday, June 13, 9:00am – 6:00pm

Interested in ASP.NET Core and Entity Framework Core, but not sure where to start? Start here with an all-day Hands on Lab where you will build a complete solution using the latest development technology from Microsoft. You will build a data access library using Entity Framework Core, complete with repos and migrations. Next, you will build an ASP.NET Core web application, leveraging all of the latest that ASP.NET Core has to offer, including Tag Helpers, View Components, Dependency Injection, and more!

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

**HOL02**

**Hands-On Lab: Learn to Build and Run Cloud-Native .NET Code**

Intermediate

**ROCKFORD LHOTKA**

Monday, June 13, 9:00am – 6:00pm

In this hands-on lab, you will learn how to design and build cloud-native software, how to deploy the code to containers, and how to run your containers in Docker and Kubernetes (k8s).

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

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

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

You will learn:
- How to install Docker and Kubernetes locally
- How to build .NET 5 services that deploy to k8s
- How to implement a microservice-based app with a Blazor front-end

**HOL03**

**Hands-on Lab: Build a Secure, Cloud Application in a Day with GitHub**

Intermediate

**BRIAN RANDELL & BRITTANY O’SHEA**

Monday, June 13, 9:00am – 6:00pm

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

GitHub cares about your code. They care about your apps. And they know building awesome apps means they are secure. But how do you get started? In this hands-on workshop, you’ll get direct experience with the current state of art in building a “cloud native solution” where you can apply DevSecOps principals and best practices using GitHub Cloud with GitHub Codespaces.

While this hands-on lab is focused primarily on .NET Applications, Brian and the team will cover general practices for all apps supporting components. You’ll learn from the beginning about GitHub security and the core workflow of getting code from a developer to a deployed environment in Microsoft Azure. You’ll start by learning about the different flavors and versions related to GitHub’s offerings both free and paid, with a focus on the cloud. You’ll learn critical aspects in getting an enterprise configured and running using GitHub including organizations, adding users, choosing repo settings around security, branch protection, and more. They’ll cover defining your repo strategy, including public, private, and internal visibility. And of course, they’ll cover repo settings around security, branch protection, and more. They’ll dig into pull requests, best practices, and how to manage the notification madness for a busy GitHub user.
FULL-DAY WORKSHOPS

Choose from a range of content and topics by expert presenters with Visual Studio Live! Austin Post-Conference workshops.

Topics covered include:

• Dapr for Building Distributed .NET Applications
• Developer Dive into SQL Server 2019

F01
Workshop: Dapr for Building Distributed .NET Applications
Advanced
ALEX THISSEN
Friday, June 17, 8:00am – 5:00pm
Modern distributed applications require much more than just application logic. Features such as state management for services, communication using publish/subscribe messaging and event driven binding to cloud resources might be needed. Dapr introduces a runtime to offer such building blocks, and is less invasive in your application, allowing you to pick-and-choose what you need. In this workshop, we will look at the approach that the Dapr runtime takes with a sidecar architecture, separating application logic from the Dapr runtime components. You learn to develop distributed applications in .NET using Dapr’s features and how to bind to messaging infrastructure, cloud resources and use the actor programming model and client proxies. You will also learn to combine Dapr in your ASP.NET Core applications using routing, controllers and middleware.

You will learn:
• Understanding Dapr and side-car architectures
• Dapr components and actor programming model
• Programming container based applications in .NET using Dapr

F02
Workshop: Developer Dive into SQL Server 2019
Intermediate
LEONARD LOBEL
Friday, June 17, 8:00am – 5:00pm
This full-day workshop will get you up to speed on powerful new features in SQL Server 2019. 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 Docker containers on both Windows and Mac will revolutionize the way you work with Microsoft’s venerable database engine. Then you’ll explore all the latest Intelligent Query Processing (IQP) enhancements added in SQL Server 2019, which delivers groundbreaking performance improvements to the query engine. We’ll then move on to the latest development platform improvements, including machine learning services with R and Python, integrated JSON support, support for graph databases, stretch database, and temporal tables.

Next we’ll explore security features, such as dynamic data masking and row-level security. We’ll dig into Always Encrypted, and demonstrate SQL Server 2019’s support for secure enclaves that enables rich query of encrypted data in use. You’ll also see the new data classification features in SQL Server 2019 to help you cope with GDPR and HIPPA privacy concerns. We’ll wrap up with the latest PolyBase enhancements in SQL Server 2019 to query external data in Azure Blob Storage, Cosmos 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 your productivity by running SQL Server inside Docker containers
• Intelligent Query Processing features and modern development platform for machine learning with R and Python
• Discover the newest security features in Always Encrypted with secure enclaves, and the latest data virtualization capabilities with PolyBase

Hands-On Lab: Build Serverless, Full Stack Applications Including IoT with Azure SQL
Intermediate
BOB WARD, DAVIDE MAURI, MARA-FLOURINA STEIU, & DREW SKWIERS-KOBALLA
Monday, June 13, 9:00am – 6:00pm
Join the Azure SQL Product Group to learn how developing apps with modern database capabilities, CI/CD and DevOps, backend API development, and IoT becomes easier, more efficient, and more scalable with Azure SQL Database. This daylong hands-on workshop will focus on two real world scenarios that you can modify for your projects. The main scenario includes learning how to create, build, and deploy modern full stack applications in Azure with the language of your choice (Python, Node.js, .NET) and with a Vue.js frontend. The second scenario includes building IoT solutions that scale with the support of Azure SQL Database. Through these scenarios, you will get familiar with Azure SQL Database (Hyperscale and Serverless), Azure Functions, Azure Static Web Apps, Logic Apps, VS Code, Azure IoT Hub, and GitHub Actions.
SESSION DESCRIPTIONS BY TRACK

DEVOPS AND BEYOND

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

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

You’ll find coverage of:
- Azure and GitHub: the big picture
- DevOps for the SQL Server database with GitHub
- GitHub Advanced Security (GHAS)
- Azure DevOps corporate templates
- PowerShell for development
- Using CI and testing to prevent database problems
- Flagging your features
- Fast Focus: PowerApps and Flow tips and tricks
- Hands-on Lab: Build a Secure, Cloud Application in a Day with GitHub
- Azure DevOps Corporate Templates for the Enterprise, Covering SharePoint Framework, Teams and Azure

HOL03
Hands-on Lab: Build a Secure, Cloud Application in a Day with GitHub
Intermediate
BRIAN RANDELL & BRITTANY O’SHEA
Monday, June 13, 9:00am – 6:00pm

T04
Azure and GitHub the Big Picture
Introductory
MARCEL DE VRIES
Tuesday, June 14, 8:00 – 9:15am

T12
Database DevOps with SQL Server on Docker with GitHub
Intermediate
BRIAN RANDELL
Tuesday, June 14, 1:30 – 2:45pm

W04
How to Implement Developer-optimized Application Security
Intermediate
BRITTANY O’SHEA
Wednesday, June 15, 8:00 – 9:15am

W07
Azure DevOps Corporate Templates for the Enterprise, Covering SharePoint Framework, Teams and Azure
Intermediate
RODRIGO PINTO
Wednesday, June 15, 9:30 – 10:45am

W13
Fast Focus: PowerApps and Flow Tips and Tricks
Intermediate
RODRIGO PINTO
Wednesday, June 15, 2:00 – 2:20pm

W17
PowerShell for Development
Intermediate
RODRIGO PINTO
Wednesday, June 15, 2:30 – 3:45pm

TH15
Using CI and Testing to Prevent Database Problems
Intermediate
STEVE JONES
Thursday, June 16, 1:15 – 2:30pm

TH18
Flagging Your Features - a DevOps Approach to Continuous Release
Advanced
ALEX THISSEN
Thursday, June 16, 2:45 – 4:00pm

I THOUGHT ALL THE SPEAKERS I HEARD WERE VERY KNOWLEDGEABLE, FRIENDLY AND NOT TRYING TO MARKET THEIR COMPANIES OR SERVICES. THERE WAS NO TECHNOLOGY HARD SELL AND I APPRECIATED THAT.

– Karl Wiggins, Visual Studio Live! Austin 2018 attendee
### CLOUD, CONTAINERS, AND MICROSERVICES

Cloud computing is no longer new. For most organizations, it’s not a matter of “if”, it’s more about how much. Container technologies such as Docker and Kubernetes (aka k8s) are having a large impact on cloud computing, as well as on software architecture. This is perhaps most clear when thinking about service-oriented, or microservice, software architectures and how they can be used to leverage cloud- and container-based environments. It is hard to imagine any enterprise development scenario where one or more of these trends would not be high on the list of critical skills.

This track includes coverage of the following:
- Jamstack Foundations, building scalable APIs
- The many ways to Docker in Azure
- Repeatable infrastructure creation with Helm and K8s
- Modern authentication and authorization
- Azure cloud transformations
- Introduction to service meshes on Kubernetes
- Hands-on Lab: Learn to Build and run cloud-native .NET Code

#### HOL02

**Hands-On Lab: Learn to Build and Run Cloud-Native .NET Code**

*Intermediate*

ROCKFORD LHOTKA

Monday, June 13, 9:00am – 6:00pm

#### T10

**An Introduction to Service Meshes on Kubernetes**

*Intermediate*

MARCEL DE VRIES

Tuesday, June 14, 1:30 – 2:45pm

#### T14

**Jamstack Foundations: Building Scalable API from the Ground Up**

*Introductory / Intermediate*

DAVIDE MAURI

Tuesday, June 14, 3:00 – 4:15pm

#### W02

**Choosing from the Many Ways to Docker in Azure**

*Introductory*

ROB RICHARDSON

Wednesday, June 15, 8:00 – 9:15am

#### W05

**At the Helm of Kubernetes: Repeatable Infrastructure Creation for Mere Mortals**

*Introductory / Intermediate*

ROB RICHARDSON

Wednesday, June 15, 9:30 – 10:45am

#### W12

**Fast Focus: The 5 Things Every Developer Must Absolutely Know about Azure SQL**

*Introductory / Intermediate*

DAVIDE MAURI

Wednesday, June 15, 2:00 – 2:20pm

#### TH13

**Modern Authentication and Authorization with OIDC, OAuth2, and Resource-based Permissions**

*Introductory / Intermediate*

ERIC D. BOYD

Thursday, June 16, 1:15 – 2:30pm

#### TH16

**Azure Cloud Transformation Done Right**

*Introductory*

MARCEL DE VRIES

Thursday, June 16, 2:45 – 4:00pm
AI, DATA, AND MACHINE LEARNING

Data has once again become one of the hottest topics in our industry and ecosystem. SQL Server 2019 is a juggernaut, SQL Server 2022 is preview, Azure SQL Database continually improves, Cosmos DB is coming on strong and Entity Framework is ever-more relevant in the modern .NET world. There’s no room for anyone to be complacent when it comes to data, and we’re here to keep you up to date.

This track includes coverage of the following:
- Building secure, scalable, and highly available applications with Azure SQL Database
- Entity Framework performance monitoring and tuning
- Two special sessions from Microsoft (topics to be announced)
- The Serverless Azure database
- Deep Dive: Cosmos DB
- Fast Focus: What’s new in EF Core 5
- Workshop: Developer deep dive into SQL Server 2019
- Hands-on Lab: Build Serverless, Full stack Applications including IoT with Azure SQL

Hands-On Lab: Build Serverless, Full Stack Applications Including IoT with Azure SQL

Intermediate

BOB WARD, DAVIDE MAURI, MARA-FLORINA STEIU, & DREW SKWiERS-KOBALLA
Monday, June 13, 9:00am – 6:00pm

How to Build Secure, Scalable, and Highly Available Applications with Azure SQL Database

Intermediate

BOB WARD
Tuesday, June 14, 8:00 – 9:15am

Data Streaming and Replication in Azure SQL and Beyond

Introductory / Intermediate

MARA-FLORINA STEIU
Tuesday, June 14, 9:30 – 10:45am

No More Sharding! Rethink your DAL to Leverage Database Scaleoutability, Improve Performances and Reduce Costs

Intermediate / Advanced

DAVIDE MAURI
Wednesday, June 15, 8:00 – 9:15am

Entity Framework Performance Monitoring and Tuning

Intermediate / Advanced

JIM WOOLEY
Wednesday, June 15, 9:30 – 10:45am

Fast Focus: What’s New in EF Core

Intermediate

JIM WOOLEY
Wednesday, June 15, 1:30 – 1:50pm

Deep Dive: Azure Cosmos DB

Intermediate

LEONARD LOBEL
Thursday, June 16, 8:00 – 10:45am

The Serverless Azure Database

Introductory

STEVE JONES
Thursday, June 16, 11:00am – 12:15pm

Workshop: Developer Dive into SQL Server 2019

Intermediate

LEONARD LOBEL
Friday, June 17, 8:00am – 5:00pm
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. Fortunately, we've got you covered with content for rich multi-platform apps to the latest for Windows developers and even bots for good measure.

This track includes coverage of the following:
- Building enterprise Blazor apps using CSLA .NET
- Cross-platform development with UNO
- Creating intelligent bots with Azure Bot Service and Cognitive Services
- Design thinking for software development teams
- UX design in a virtual world
- Deep Dive: MAUI .NET

T05
Design Thinking for App Dev Teams: Why and How
Introductory
BILLY HOLLIS
Tuesday, June 14, 9:30 – 10:45am

T13
UX Design in a Virtual World
Introductory
BILLY HOLLIS
Tuesday, June 14, 3:00 – 4:15pm

W15
Building Enterprise Blazor Apps Using CSLA .NET
Introductory / Intermediate
ROCKFORD LHOTKA
Wednesday, June 15, 2:30 – 3:45pm

W19
Cross Platform Development with UNO
Introductory / Intermediate
TONY CHAMPION
Wednesday, June 15, 4:00 – 5:15pm

TH05
Create Intelligent Bots with Azure Bot Service and Cognitive Services
Introductory / Intermediate
ERIC D. BOYD
Thursday, June 16, 9:30 – 10:45am

TH12
Deep Dive: Surfing in Maui
Intermediate
SAM BASU
Thursday, June 16, 1:15 – 4:00pm
## TECHNICAL EXCELLENCE AND LEADERSHIP SKILLS

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

People are not born leaders; leaders are cultivated from anyone who is motivated to make a difference! Whether you’re a leader by title or by necessity, the skills and practices shared in this track will enable you to have more effective interactions. This track has something for everyone from experienced leaders to aspiring leaders.

**Topics in this track include:**
- Words for leaders, communication that inspires and builds trust
- Elevating your effectiveness as a scrum master
- The defining traits of great leaders
- Tools and skills to becoming a trusted and effective leader
- One band - one song – facilitating team cohesiveness and growth
- Not so-SOLID principals of software development
- Frameworks and techniques for effective Performance feedback
- Cultivating a culture of creativity, collaboration, and captainship
- A perspective on the “Not Invented Here” mentality in the software industry

### T11
**The Power of Performance Feedback**
- *Introductory*
- **AMBER VANDERBURG**
- Tuesday, June 14, 1:30 – 2:45pm

### T15
**Cultivating a Culture of Creativity, Collaboration, and Captainship**
- *Introductory*
- **AMBER VANDERBURG**
- Tuesday, June 14, 3:00 – 4:15pm

### W11
**Fast Focus: The Knights Who Say “NI”... A Developer Tale**
- *Introductory*
- **MARCEL DE VRIES**
- Wednesday, June 15, 2:00 – 2:20pm

### W16
**One Band - One Song**
- *Intermediate*
- **PHILIP JAPIKSE**
- Wednesday, June 15, 2:30 – 3:45pm

### W20
**The Not-So-SOLID Principles of Software Development**
- *Introductory / Intermediate*
- **CHRIS KLUG**
- Wednesday, June 15, 4:00 – 5:15pm

### TH03
**Top 10 Ways to Go from Good to Great Scrum Master**
- *Intermediate / Advanced*
- **BENJAMIN DAY**
- Thursday, June 16, 8:00 – 9:15am

### TH06
**Debunking What Makes a Great Leader**
- *Intermediate*
- **JENN DONAHUE**
- Thursday, June 16, 9:30 – 10:45am

### TH10
**Words for Leaders**
- *Intermediate / Advanced*
- **BENJAMIN DAY**
- Thursday, June 16, 11:00am – 12:15pm

### TH14
**Mastering Genuine Leaders: Your Power to Do Great Things**
- *Intermediate*
- **JENN DONAHUE**
- Thursday, June 16, 1:15 – 2:30pm

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I enjoy that this conference tends to be smaller. It gives me an opportunity to easily meet other developers to discuss various issues.

— Visual Studio Live! Austin 2018 attendee
SESSION DESCRIPTIONS BY TRACK (continued)

**THE CORE OF .NET**

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

**Topics in this track include:**
- What’s New in .NET 6 APIs
- GitHub CodeSpaces
- What’s New in C# 10
- C# Past, Present, and Beyond
- Understanding Delegates in .NET
- Integrating health checks into .NET Core solutions
- Task,Await, and Asynchronous Methods in C#
- Better Parallel Code with C# Channels
- Fast Focus on API Versioning
- Workshop: Dapr for Building Distributed .NET Applications

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**T03**

What’s New in .NET 6 APIs

*Intermediate*

**JASON BOCK**

Tuesday, June 14, 8:00 – 9:15am

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**T07**

Build .NET Apps More Quickly with GitHub CodeSpaces

*Intermediate*

**BRIAN RANDELL**

Tuesday, June 14, 9:30 – 10:45am

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**T16**

What’s New in C# 10

*Intermediate*

**JASON BOCK**

Tuesday, June 14, 3:00 – 4:15pm

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**W10**

Fast Focus: API Versioning

*Intermediate*

**PHILIP JAPIKSE**

Wednesday, June 15, 1:30 – 1:50pm

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**W21**

C# Past, Present, and Beyond

*Intermediate / Advanced*

**JIM WOOLEY**

Wednesday, June 15, 4:00 – 5:15pm

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**TH04**

Get Func-y: Understanding Delegates in .NET

*Introductory / Intermediate*

**JEREMY CLARK**

Thursday, June 16, 8:00 – 9:15am

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**TH07**

I Don’t Feel So Well… Integrating Health Checks in Your .NET Core Solutions

*Advanced*

**ALEX THISSEN**

Thursday, June 16, 9:30 – 10:45am

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**TH11**

I’ll Get Back to You: Task, Await, and Asynchronous Methods in C#

*Introductory / Intermediate*

**JEREMY CLARK**

Thursday, June 16, 11:00am – 12:15pm

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**TH17**

Better Parallel Code with C# Channels

*Intermediate*

**JEREMY CLARK**

Thursday, June 16, 2:45 – 4:00pm

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**F01**

Workshop: Dapr for Building Distributed .NET Applications

*Advanced*

**ALEX THISSEN**

Friday, June 17, 8:00am – 5:00pm

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SESSION DESCRIPTIONS BY TRACK (continued)

FULL STACK WEB DEVELOPMENT

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

Topics in this track include:
- Getting Started with ASP.NET Core
- ASP.NET Core, beyond the basics
- Building secure and scalable APIs in .NET 6
- TypeScript, beyond the basics
- Building Progressive Web Apps (PWAs) using Angular
- Building a GitHub Pages experience using Azure services
- Deep Dive on Blazor
- Fast Focus: Hybrid Web Frameworks
- Hands-on Lab: Develop an ASP.NET Core App with EF Core in a Day

T01
Getting Started with ASP.NET Core
Introductory
PHILIP JAPIKSE
Tuesday, June 14, 8:00 – 9:15am

T09
Building Secure and Scalable APIs in .NET 6
Intermediate / Advanced
TONY CHAMPION
Tuesday, June 14, 1:30 – 2:45pm

W01
Deep Dive on Blazor: The Run Everywhere with .NET UI Framework
Introductory / Intermediate
ROCKFORD LHOTKA
Wednesday, June 15, 8:00 – 10:45am

TH01
ASP.NET Core Beyond the Basics
Advanced
CHRIS KLUG
Thursday, June 16, 8:00 – 9:15am

TH08
Building a Better GitHub Pages Experience Using Azure Services, How Hard Can It Be?
Introductory / Intermediate
CHRIS KLUG
Thursday, June 16, 11:00am – 12:15pm

HOL01
Hands-On Lab: Develop an ASP.NET Core App with EF Core in a Day
Intermediate
PHILIP JAPIKSE
Monday, June 13, 9:00am – 6:00pm

W08
Fast Focus: Hybrid Web Frameworks
Introductory
ALLEN CONWAY
Wednesday, June 15, 1:30 – 1:50pm

W14
TypeScript: Moving Beyond the Basics
Intermediate / Advanced
ALLEN CONWAY
Wednesday, June 15, 2:30 – 3:45pm

W18
Building a Progressive Web App (PWA) Using Angular
Intermediate
ALLEN CONWAY
Wednesday, June 15, 4:00 – 5:15pm
CONFERENCE CHAIRS & SPEAKERS

CONFERENCE CHAIRS

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

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

Rockford Lhotka  
CTO, Cognizant Softvision  
Visual Studio Live! Conference Co-Chair

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

SPEAKERS

Sam Basu  
Developer Advocate, Progress Software

Allen Conway  
Practice Lead, Cognizant Softvision

Steve Jones  
Editor, SQLServerCentral

Rodrigo Pinto  
Enterprise Architect, Storm Technology

Amber Vanderburg  
HR Ninja

Jason Bock  
Developer Advocate - Rocket Mortgage

Benjamin Day  
Author, Trainer, Developer

Chris Klug  
Developer / Code Monkey / Bug Creator, Active Solution

Brian Randell  
Product Marketing Director, GitHub

Eric D. Boyd  
Founder and CEO, responsiveX

Marcel de Vries  
CO-Founder & CTO, Xpirit

Rockford Lhotka  
CTO, Cognizant Softvision

Bob Ward  
Principal Architect, Microsoft Azure Data, Microsoft

Andrew Brust  
CEO and Founder, Blue Badge Insights

Jenn Donahue  
Speaker, US Navy Captain (ret), Engineer

Leonard Lobel  
CTO, Sleek Technologies, Inc.

Jim Wooley  
Solution Architect, Slalom Consulting

Tony Champion  
President & Lead Software Architect, Champion DS

Billy Hollis  
XAML Slinger

Davide Mauri  
Program Manager, Microsoft

Drew Skwiers-Koballa  
Sr. Program Manager, Microsoft

Jeremy Clark  
Developer Educator, JeremyBytes.com

Philip Japikse  
Developer, Coach, Author, Teacher

Brittany O’Shea  
PMM Director of Application Security, GitHub

Mara Florina Steiu  
Program Manager, Microsoft

Alex Thissen  
Cloud Buster, Xpirit
VENUE & TRAVEL

LOCATION
Take advantage of the $239.00* room rate by May 20th

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Book by: May 20, 2022
Book your room online for the Visual Studio Live! Room Block. The offer is subject to room availability, so make sure to book early.

Hyatt Regency rooms booked within the Visual Studio Live! room block include:
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• Coffeemaker with complimentary Starbucks® coffee
• Access to the StayFit™ Fitness Center
• 50% discount on self-parking
*The special attendee room rate is based on single or double occupancy. The room rate does not include applicable state, local and occupancy taxes.

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Exploring a city can be an exciting adventure. Visit the Austin, TX Tourism Site to start planning your trip today!
CONFERENCE AND HOTEL PRICING PACKAGES

Visual Studio Live! offers several conference and hotel packages to best suit your needs and budget. Register now to save your seat and remember to book your hotel early too before it sells out!

## Conference Packages

<table>
<thead>
<tr>
<th>Every Conference Package grants you access to every Keynote, Session, Coffee and Pastries, Lunch, and Welcome Reception</th>
<th>SUPER EARLY BIRD UNTIL APRIL 8</th>
<th>EARLY BIRD UNTIL MAY 20</th>
<th>STANDARD UNTIL JUNE 13</th>
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<td><strong>5-DAY CONFERENCE PACKAGE</strong></td>
<td>$2,675</td>
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<td>+ Full Day Hands-On Lab and Full Day Workshop (Monday - Friday)</td>
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<td><strong>FULL DAY HANDS-ON LAB</strong></td>
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## Add the Hotel Package

At the Hyatt Regency Austin

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<td>3 DAY HOTEL PACKAGE*</td>
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* The Hotel Package includes applicable state, local and occupancy taxes.
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TEAM DISCOUNTS: BRING THE TEAM AND SAVE BIG!

Visual Studio Live! Austin offers savings to teams of 3 or more from the same company and registering for the same package. Looking to bring 10 or more? Contact our Conference Registrar at sross@converge360.com or at 949.296.9840.

TEAM PACKAGES

<table>
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<th>Every Conference Package grants you access to every Keynote, Session, Coffee and Pastries, Lunch, and Welcome Reception</th>
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<th>EARLY BIRD UNTIL MAY 20</th>
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<td>4-DAY CONFERENCE PACKAGE + One Workshop (Tuesday - Friday)</td>
<td>$1,875</td>
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ALUMNI
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SPEAKERS ARE TOP-NOTCH AND KNOW THEIR SUBJECTS VERY WELL. ALSO, THEY ARE VERY APPROACHABLE AND WILLING TO HELP OUTSIDE OF THE SESSION.

— Josh Payne, Visual Studio Live! Austin 2018 attendee
UPCOMING 2022 CONFERENCES

TechMentor Microsoft HQ
August 8-12, 2022
Microsoft Conference Center,
Redmond, WA/Hyatt Regency Bellevue
techmontorevents.com

Visual Studio Live! Microsoft HQ
August 8-12, 2022
Microsoft Conference Center,
Redmond, WA/Hyatt Regency Bellevue
vslive.com/microsofthq

Visual Studio Live! San Diego
September 25-29, 2022
Hard Rock Hotel,
San Diego, CA
vslive.com/sandiego

Live! 360 Orlando
November 13-18, 2022
Loews Royal Pacific Resort,
Orlando, FL
live360events.com

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