Training Conference for IT Pros at Microsoft HQ!

The FUTURE of TECH is HERE

MICROSOFT HEADQUARTERS
REDMOND, WA
AUGUST 5-9, 2019

In-depth Technical Tracks on:

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

TechMentorEvents.com/MicrosoftHQ
CONTENTS

3 A Message from the Conference Co-Chairs

4 Ten Reasons to Attend

5 Activities & Events

7 Agenda At-a-Glance

10 Keynote / General Session

10 Hands-On Labs

11 Workshops

12 Client and Endpoint Management

14 PowerShell and DevOps

16 Infrastructure

17 Soft Skills for IT Pros

17 Security

20 Azure (Public/Hybrid)

22 Office 365 for the IT Pro

24 Advisory Board

25 Speakers

29 Sponsors & Partners

30 Venue & Travel

31 Registration Packages & Pricing
A MESSAGE FROM THE CONFERENCE CO-CHAIRS

THERE’S NO OTHER PLACE ON EARTH that has more knowledge about Microsoft technologies than their headquarters in Redmond—and that is why we are proud to announce that TechMentor will be returning to the Mothership again this year from August 5-9. It is an opportunity that you cannot miss! There is something special about sitting in the place where products are actually created, where you can step in the Visitor’s Center and the Company Store and enjoy the beauty of Microsoft Campus. This is the place where so many decisions have been made that have impacted most all of our careers.

We are Sami Laiho and Dave Kawula, and as the Conference Co-Chairs of TechMentor, we would like to personally welcome you to join us this year. We are thrilled to bring globally-known industry experts that have real-life experiences on what they are teaching to TechMentor and are proud for them to be delivering this knowledge to you in engaging and entertaining ways. This year we will also bring the multiple networking opportunities throughout the event, as we understand the importance of sharing your stories, troubleshooting and finding creative solutions. As Chairs, our goal is for TechMentor to be a conference that teaches and delivers immediately useable knowledge and skills, and this year we will do just that!

We break the content apart this year into the seven tracks, giving you the opportunity to learn the details of implementing DevOps and becoming a PowerShell-guru, dig deep into the biggest client and endpoint issues of the day, enhance your infrastructure and security positioning, get the real-world and immediately-useable guidance for Azure, and even brush up on your soft skills. Whether you manage your infrastructure with GPO’s or MDM, or your servers are hosted locally or in Azure, or you manage SQL server or Active Directory and traditional infrastructures services, or you’re just fighting with managing clients or Mobile phones—we got sessions for you! Take a tour through TechMentor’s extensive catalog of courses for all the details.

But that’s not all! Networking today is even more important than ever before with the growing number of products and features to know and understand. At TechMentor, you’ll get one-on-one with our speakers and experts during our kick-off Dine A-Round Dinner, our Birds-of-a-Feather lunch event and our Wednesday evening Get-Together, in addition to a week of opportunities.

Plus, don’t miss our well-known post-conference workshops and NEW THIS YEAR pre-conference Hands-On Labs. Both will dive deep on selected topics from the best experts in the world on topics such as Azure, admin security, privileged access workstations (PAW) and even how to master windows troubleshooting. Extend your learning by taking advantage of these workshops and Hands-On Labs with less people, more time and more focused topics.

We proudly host the best speakers in the industry, but are consistently adding fresh new faces so you will not be disappointed whether you are a seasoned veteran of TechMentor or a fresh new attendee. We can’t wait to see you all this August at the Mothership!

VISUAL STUDIO LIVE! CONFERENCE CO-CHAIRS

Sami Laiho
Senior Technical Fellow, Adminize.com

Dave Kawula
Principal Consultant, TriCon Elite Consulting
REASONS TO JOIN US IN REDMOND

8 ENHANCE YOUR LEARNING WITH NEW HANDS-ON LABS!
New this year, we are bringing our full day of hands-on training. Bring your laptop and learn by doing!

7 STAY AHEAD OF THE CURVE.
As an IT professional, it’s your responsibility to stay up-to-date on all the latest tools, topics, and trends. Advance your own professional worth by educating yourself on current and developing enterprise IT tools.

6 IMMEDIATELY USEABLE IT TRAINING SINCE 1998
For over 20 years, TechMentor has provided independent, practical training to give you real tools to tackle today’s IT challenges. We are proud to have served tens of thousands, giving them the training and education they’ve needed since 1998.

5 LEARN FROM BOTH INDUSTRY EXPERTS AND MICROSOFT LEADERS
Learn from both industry experts and Microsoft Masters about how to deal with the specific problems facing your company today.

4 TIPS & TRICKS TO SAVE TIME & MONEY
The unique educational environment provides valuable tips, tricks and strategies to save your company time and money.

3 TAKE ADVANTAGE OF THE EXPERTS
TechMentor is just the right size—big enough to have a wide educational reach, but small enough to make the industry contacts and speak 1-on-1 with thought leaders.

2 NETWORKING KNOWLEDGE IS KEY
Network with 3rd party speakers, industry insiders and IT colleagues who can continue to help and guide you long after the conference has ended.

1 EXPERIENCE LIFE @ MICROSOFT HEADQUARTERS
Live like a King for the week—have lunch at the employee food court, visit the company store, rub elbows with experts at the networking events, and so much more!

“TECHMENTOR IS A GREAT EXPERIENCE TO KEEP UP ON CURRENT IT TRENDS.”
— Casey Johnson, Poudre School District
ACTIVITIES AND EVENTS

YOUR ATTENDANCE AT TECHMENTOR MICROSOFT HQ 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.

DINE-A-ROUND DINNER  
Monday, August 5
Join other conference attendees and speakers for a casual, no-host dinner and make a few new friends while enjoying the Bellevue area. This is your opportunity to meet fellow attendees and start friendships that can last for the week or even longer. Everyone is responsible for their own dinner and drinks.

WELCOME RECEPTION  
Tuesday, August 6
All conference attendees are invited to celebrate the start of TechMentor at the Welcome Reception. Join us in the expo area to network with fellow conference attendees and speakers, talk with the event sponsors, enjoy complimentary drinks and hors d’oeuvres.

BIRDS OF A FEATHER LUNCH  
Wednesday, August 7
Enjoy lively lunchtime discussions by joining one of our table topic conversations. Tables will have a designated topic to help start discussions and interact with fellow attendees. We will also have designated speaker tables—noted with the speaker’s name. Join your favorite speaker for a lunchtime discussion or just to ask questions or clarify anything from their sessions.

TECHMENTOR’S DOWNTOWN SEATTLE ADVENTURE  
Wednesday, August 7
Adventure awaits you in downtown Seattle! Join your fellow attendees for a night out. TechMentor will be providing buses from the conference hotel, Hyatt Regency Bellevue, to downtown Seattle on Wednesday evening. Explore Seattle City Center, take a trip to the top of the Space Needle, overlook the city on the Giant Wheel, take a stroll through Waterfront Park or check out some of the local breweries and watering holes. Whatever you choose, make it a night to remember!

LUNCH WITH THE BLUE BADGES  
Thursday, August 8
On Thursday, TechMentor attendees will have the opportunity to have lunch with the Blue Badges at The Mixer, the Microsoft employee lunch area with over 10 different restaurant options to choose from. This extended lunch period is also the perfect time to visit the Microsoft Visitor Center and the Microsoft Company Store. Shuttle service to and from the Commons and pre-paid lunch cards will be provided as part of your TechMentor registration.
ACTIVITIES AND EVENTS, continued

YOUR ATTENDANCE AT TECHMENTOR MICROSOFT HQ is about learning from your peers as well as our expert speakers at the heart of Microsoft Headquarters. Make the most of your time and add these events to your itinerary.

ACCESS TO THE MICROSOFT COMPANY STORE
Thursday, August 8

All TechMentor Redmond event attendees will have the opportunity to visit the Microsoft Company Store during their time at the conference and have access to the employee-only discount area. The company store’s discount area is typically only open for Microsoft employees to purchase select Microsoft products at discounted prices, so you won’t want to miss out on this great opportunity!

Popular home-use software titles such as Windows, Office, Office for Mac, and Streets and Trips are available. XBOX accessories and a selection of XBOX games are offered at significant savings. At the Redmond campus location, you will find one of the largest selections of Microsoft-branded PC hardware in any retail store. PC Hardware offered includes Keyboards and desktop sets, Mice, Webcams and more.

TechMentor event attendees will qualify for a pass that allows them access to the special discounts normally reserved only for Microsoft employees. Due to the amazing deals, each attendee is allowed to spend up to a maximum of $200. **Restrictions apply.

**Attendees will be given a voucher/form that allows them access to the employee only discount area to spend up to $200 of their own money on select Microsoft products.

**All attendees must have a valid driver’s license that matches the name on the voucher.

**If using a credit card for payment, the name on the card must match the name on your voucher and identification.

**If you are employed by a government agency or a school or university, you are not eligible for the discount pass due to Microsoft policy.

VISIT THE MICROSOFT VISITOR CENTER

The Microsoft Visitor Center is open to all employees and visitors to the Microsoft campus. Come share in the excitement of their discoveries, explore some of the latest products, and meet some of the people whose ideas and creativity make Microsoft a world leader in computer and software industry.

MEET THE PROS

Let’s face it — our talented team of speakers is the main reason you head to TechMentor events. They share your interest in the latest technologies while refusing to abandon challenging applications out there already. So why not get to know them in a different light during the breaks and networking opportunities we have planned for you at Microsoft HQ? Kick back with the people who love sharing their knowledge and experience to help you get where you want to be professionally.
# Agenda At-A-Glance

<table>
<thead>
<tr>
<th>Client and Endpoint Management</th>
<th>PowerShell and DevOps</th>
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<th>Office 365 for the IT Pro</th>
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## TechMentor Pre-Conference Hands-On Labs: Monday, August 5, 2019 (Separate entry fee required)

<table>
<thead>
<tr>
<th>START TIME</th>
<th>END TIME</th>
<th><strong>HOL01</strong> Hands-On Lab: Building a Bulletproof Privileged Access Workstation (PAW)</th>
<th><strong>HOL02</strong> Hands-On Lab: Mastering Windows Troubleshooting—Advanced Hands-on Workshop</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 AM</td>
<td>9:00 AM</td>
<td>Pre-Conference Workshop Registration - Coffee and Light Breakfast</td>
<td><strong>HOL02</strong> Hands-On Lab: Mastering Windows Troubleshooting—Advanced Hands-on Workshop - Bruce Mackenzie-Low</td>
</tr>
<tr>
<td>9:00 AM</td>
<td>12:00 PM</td>
<td><strong>HOL02</strong> Hands-On Lab: Mastering Windows Troubleshooting—Advanced Hands-on Workshop - Bruce Mackenzie-Low</td>
<td><strong>HOL02</strong> Hands-On Lab: Mastering Windows Troubleshooting—Advanced Hands-on Workshop - Bruce Mackenzie-Low</td>
</tr>
<tr>
<td>12:00 PM</td>
<td>2:00 PM</td>
<td>Lunch @ The Mixer - Visit the Microsoft Company Store &amp; Visitor Center</td>
<td><strong>HOL02</strong> Hands-On Lab: Mastering Windows Troubleshooting—Advanced Hands-on Workshop - Bruce Mackenzie-Low</td>
</tr>
<tr>
<td>2:00 PM</td>
<td>5:00 PM</td>
<td><strong>HOL02</strong> Hands-On Lab Continued - Bruce Mackenzie-Low</td>
<td><strong>HOL02</strong> Hands-On Lab Continued - Bruce Mackenzie-Low</td>
</tr>
<tr>
<td>6:30 PM</td>
<td>8:30 PM</td>
<td>Dine-A-Round Dinner - Suite in Hyatt Regency Lobby</td>
<td><strong>HOL02</strong> Hands-On Lab Continued - Bruce Mackenzie-Low</td>
</tr>
</tbody>
</table>

## TechMentor Day 1: Tuesday, August 6, 2019

<table>
<thead>
<tr>
<th>START TIME</th>
<th>END TIME</th>
<th><strong>T01</strong> Microsoft 365 Explained - Ståle Hansen</th>
<th><strong>T02</strong> Top Free Tools for Monitoring Windows Performance - Bruce Mackenzie-Low</th>
<th><strong>T03</strong> Follow the Breadcrumbs: Azure Security Center In-Depth - Mike Nelson</th>
<th><strong>T04</strong> From IT Pro to Cloud Pro - Peter De Tender</th>
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<tr>
<td>7:00 AM</td>
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<td>Registration - Coffee and Light Breakfast</td>
<td><strong>T02</strong> Top Free Tools for Monitoring Windows Performance - Bruce Mackenzie-Low</td>
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<td><strong>T04</strong> From IT Pro to Cloud Pro - Peter De Tender</td>
</tr>
<tr>
<td>9:30 AM</td>
<td>10:45 AM</td>
<td><strong>T05</strong> Using PowerBI and Azure Log Analytics for End User Devices - Kevin Kaminski</td>
<td><strong>T06</strong> How to Become a Community Rockstar—Learn How to Showcase Your Skills - Cristal Kawula</td>
<td><strong>T07</strong> Backup, Disaster Recovery, and Business Continuity in Azure - Orin Thomas</td>
<td><strong>T08</strong> Regex for Complete Noobs - Thomas Rayner</td>
</tr>
<tr>
<td>11:00 AM</td>
<td>12:00 PM</td>
<td><strong>T09</strong> Intune and Custom Policies - Kevin Kaminski</td>
<td><strong>T10</strong> A World Beyond Passwords - Lesha Bhansali &amp; Kristina Cosgrave</td>
<td><strong>T11</strong> Configuring Windows Server &amp; Client for Developing Hosted Linux Workloads - Orin Thomas</td>
<td><strong>T12</strong> To Be Announced</td>
</tr>
<tr>
<td>12:00 PM</td>
<td>1:00 PM</td>
<td>Lunch - McKinley / Visit Exhibitors - Foyer</td>
<td><strong>T10</strong> A World Beyond Passwords - Lesha Bhansali &amp; Kristina Cosgrave</td>
<td><strong>T11</strong> Configuring Windows Server &amp; Client for Developing Hosted Linux Workloads - Orin Thomas</td>
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<tr>
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<td><strong>T12</strong> To Be Announced</td>
</tr>
<tr>
<td>2:15 PM</td>
<td>2:45 PM</td>
<td>Sponsored Break - Visit Exhibitors - Foyer</td>
<td><strong>T10</strong> A World Beyond Passwords - Lesha Bhansali &amp; Kristina Cosgrave</td>
<td><strong>T11</strong> Configuring Windows Server &amp; Client for Developing Hosted Linux Workloads - Orin Thomas</td>
<td><strong>T12</strong> To Be Announced</td>
</tr>
<tr>
<td>2:45 PM</td>
<td>4:00 PM</td>
<td><strong>T13</strong> OneNote LifeHack: 5 Steps for Succeeding with Personal Productivity - Ståle Hansen</td>
<td><strong>T14</strong> Hardening Windows Server - Orin Thomas</td>
<td><strong>T15</strong> Familiar and Future-Proof: Lift and Shift Your Cluster into Azure IaaS - Rob Hindman</td>
<td><strong>T16</strong> From Cmdlet to Function—Your PowerShell Beginnings - Mike Nelson</td>
</tr>
<tr>
<td>4:00 PM</td>
<td>5:30 PM</td>
<td>Exhibitor Reception – Attend Exhibitor Demo - Foyer</td>
<td><strong>T14</strong> Hardening Windows Server - Orin Thomas</td>
<td><strong>T15</strong> Familiar and Future-Proof: Lift and Shift Your Cluster into Azure IaaS - Rob Hindman</td>
<td><strong>T16</strong> From Cmdlet to Function—Your PowerShell Beginnings - Mike Nelson</td>
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Speakers and sessions subject to change
## AGENDA AT-A-GLANCE (continued)

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</thead>
</table>

### TechMentor Day 2: Wednesday, August 7, 2019

<table>
<thead>
<tr>
<th>START TIME</th>
<th>END TIME</th>
<th>Session Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 AM</td>
<td>8:00 AM</td>
<td>Registration - Coffee and Light Breakfast</td>
<td></td>
</tr>
<tr>
<td>8:00 AM</td>
<td>9:15 AM</td>
<td>W01 Ten Practical Tips to Secure Your Corporate Data with Microsoft 365</td>
<td>Peter Daalmans</td>
</tr>
<tr>
<td>9:30 AM</td>
<td>10:45 AM</td>
<td>W02 Surviving a Ransomware Attack: Notes from the Field</td>
<td>Emile Cabot</td>
</tr>
<tr>
<td>11:00 AM</td>
<td>12:00 PM</td>
<td>Panel Discussion: The Future of IT</td>
<td>Sami Laiho and Dave Kawula (Moderators); Peter De Tender, Thomas Maurer, John O’Neill Sr., and Orin Thomas</td>
</tr>
<tr>
<td>12:00 PM</td>
<td>1:00 PM</td>
<td>Birds-of-a-Feather Lunch - McKinley - Visit Exhibitors - Foyer</td>
<td></td>
</tr>
<tr>
<td>1:00 PM</td>
<td>1:30 PM</td>
<td>Networking Break - Exhibitor Raffle @ 1:10 pm (Must be present to win) - Foyer in front of Business Center</td>
<td></td>
</tr>
<tr>
<td>1:30 PM</td>
<td>2:45 PM</td>
<td>W09 Build Your Azure Infrastructure Like a Pro</td>
<td>Aleksandar Nikolic</td>
</tr>
<tr>
<td>3:00 PM</td>
<td>4:15 PM</td>
<td>W10 Implementing Proactive Security in the Cloud—Part 1</td>
<td>Sami Laiho</td>
</tr>
<tr>
<td>6:15 PM</td>
<td>9:00 PM</td>
<td>TechMentor’s Downtown Seattle Adventure</td>
<td></td>
</tr>
</tbody>
</table>

Logo denotes sessions with a Microsoft speaker.

"I VALUE DIRECT, INFORMATIVE AND APPLICABLE EDUCATION ON TOPICS THAT ARE RELEVANT. THIS IS THE FIRST CONFERENCE I HAVE ATTENDED WHERE I HAVE MADE A SUBSTANTIAL TAKE-AWAY LIST."

— John Ivey, Pike County Board of Supervisors
## TechMentor Day 3: Thursday, August 8, 2019

<table>
<thead>
<tr>
<th>START TIME</th>
<th>END TIME</th>
<th>Session Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 AM</td>
<td>8:00 AM</td>
<td>Registration - Coffee and Light Breakfast</td>
</tr>
</tbody>
</table>
| 8:00 AM    | 9:15 AM  | **TH01** Hackers Won’t Pass—Microsoft 365 Identity & Threat Protection—Part 1 - Sergey Chubarov  
**TH02** Azure Cloud Shell: The Easiest Way to Manage Azure with Command-line Tools - Aleksandar Nikolic  
**TH03** Replicate Your Storage/Data to Azure the Easy Way - Arpita Duppala  
**TH04** Android Enterprise Management with Intune - Jan Ketil Skanke |
| 9:30 AM    | 10:45 AM | **TH05** Hackers Won’t Pass—Microsoft 365 Identity & Threat Protection—Part 2 - Sergey Chubarov  
**TH06** PowerShell Core on Linux: Benefits and Challenges - Aleksandar Nikolic  
**TH07** A Look Into the Hybrid Cloud Lifestyle of an Azure Stack Operator - Thomas Maurer  
**TH08** "AaronLocker": Robust and Practical Application Whitelisting for Windows - Aaron Margosis |
| 11:00 AM   | 12:15 PM | **TH09** Using PowerShell to Rock Your Labs - Dave Kawula  
**TH10** The Force Awakens—Azure SQL Server for the On-prem DBA - Alexander Arvidsson  
**TH11** 12 Ways to Hack Multi Factor Authentication (MFA) - Roger Grimes  
**TH12** Windows Autopilot: Modern Device Provisioning - Michael Niehaus |
| 12:15 PM   | 2:00 PM  | Lunch @ The Mixer - Visit the Microsoft Company Store & Visitor Center        |
| 2:00 PM    | 3:15 PM  | **TH13** Migrating to Windows Server 2019 Like the Pro’s - Dave Kawula  
**TH14** Boring is Stable, Stable is Good—Best Practices in Practice for SQL Server - Alexander Arvidsson  
**TH15** Start Using JEA Today to Stop Overprivileged User Accounts - John O’Neill Sr.  
**TH16** Wireshark Essentials: Your First Day with Wireshark - Richard Hicks |
| 3:30 PM    | 4:45 PM  | **TH17** The Case of the Shrinking Data: Data Deduplication in Windows Server 2019 - Dave Kawula  
**TH18** Malware Protection in Windows 10 - Emile Cabot  
**TH19** Supporting Surfaces? Learn the Surface Diagnostic Toolkit for Business Now - John O’Neill Sr.  
**TH20** Always On VPN: The Good, The Bad, and the Ugly! - Richard Hicks |

## TechMentor Post-Conference Workshops: Friday, August 9, 2019 (Separate entry fee required)

<table>
<thead>
<tr>
<th>START TIME</th>
<th>END TIME</th>
<th>Workshop Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30 AM</td>
<td>9:00 AM</td>
<td>Post-Conference Workshop Registration - Coffee and Light Breakfast</td>
</tr>
</tbody>
</table>
| 9:00 AM    | 12:00 PM | **F01** Workshop: Enhance Security While Increasing Your Admin Superpowers - John O’Neill Sr.  
**F02** Workshop: Building Real World Labs in Azure - Dave Kawula |
| 12:00 PM   | 1:00 PM  | Lunch - McKinley                                                               |
| 1:00 PM    | 4:00 PM  | Workshop Continued - John O’Neill Sr.                                           |

*Logo denotes sessions with a Microsoft speaker.*

*Speakers and sessions subject to change*
KEYNOTE / GENERAL SESSIONS

Get the lowdown on Microsoft’s current strategy. Learn where the company is going and how it will affect your job. Strengthen your career and sharpen your mind with this awesome insider keynotes and panel discussion.

Tuesday, August 6, 11:00am – 12:00pm

KEYNOTE: Windows Server 2019 Technical Foundation

Jeff Woolsey
Principal Program Manager, Windows Server/Hybrid Cloud, Microsoft

Hybrid at its core. Secure by design. With cloud application innovation and hyper–converged infrastructure built into the platform, backed by the world’s most trusted cloud, Azure, Microsoft presents Windows Server 2019 and Azure Stack HCI. In this keynote, Jeff Woolsey—Principal Program Manager—dives into the details of what makes Windows Server 2019 and Azure Stack HCI exciting platforms for IT pros and developers looking to modernizing their infrastructure and applications.

Wednesday, August 7, 11:00am – 12:00pm

PANEL DISCUSSION:
The Future of IT

Sami Laiho and Dave Kawula (Moderators); Peter De Tender, Thomas Maurer John O’Neill Sr., and Orin Thomas

If something is certain in IT it’s change. With the current pace of getting new operating system versions twice a year and keeping the management tools around them up to date it’s no wonder one feels a little dizzy with the amount of things to learn. Take this opportunity to hear from industry experts what is most important to focus on and how to deal with this rapid change in real life. The panel includes experts on multiple technologies and topics and will include a Q&A portion to get all your questions answered.

HANDS-ON LABS

TechMentor offers two instructor-led, pre-conference Hands-On Labs to help you take your skills to a new level. Get intensive in-depth training to complete your conference experience.

Topics covered include:

• Building a Bulletproof Privileged Access Workstation (PAW)
• Mastering Windows Troubleshooting

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: Building a Bulletproof Privileged Access Workstation (PAW)
Introductory
SAMU LAIHO
Monday, August 5, 9:00am – 5:00pm

You do remember that RDP connections on servers are for emergency purposes only? And that you cannot fully manage Group Policies from a server but only from a Windows 10 workstation? In this session one of the world leading security and Windows experts, Sami Laiho, will teach you how to build and configure a Privileged Access Workstation (PAW). PAWs are the recommended, most secure and most effective way of managing servers and services.

You will learn:
• How to manage servers securely
• How to configure a Privileged Access Workstation (PAW)
• How to configure Active Directory to support PAWs

HOL02 Hands-On Lab: Mastering Windows Troubleshooting—Advanced Hands-on Workshop
Intermediate/Advanced
BRUCE MACKENZIE-LOW
Monday, August 5, 9:00am – 5:00pm

Troubleshooting Blue Screens, system lockups and performance bottlenecks are among the toughest outages that Windows can dish out. Take your skill set to the next level up making you indispensable when it comes to resolving complex issues. Learn advanced troubleshooting tricks and techniques, along with free state-of-the-art tools from Microsoft as you gain hands on experience during this full day workshop. Install the Windows Debugger and Performance tool kit on your laptop as you practice newly acquired knowledge giving you the confidence you’ll need when you return to the office.

Note: Your laptop should be running Windows 7 or later with at least 2GB of free disk space to install the tools and stage lab materials.

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

“I LOVED THE OPEN AVAILABILITY OF BEING ABLE TO TALK WITH THE SPEAKERS THROUGHOUT THIS EXPERIENCE.”

— Sean Welling, Molded Fiber Glass Companies
WORKSHOPS

Finish your TechMentor experience with one of these in-depth post-conference full-day workshops.

Topics covered include:
• Enhance Security While Increasing Your Admin Superpowers
• Building Real World Labs in Azure

F01 Workshop: Enhance Security While Increasing Your Admin Superpowers
Introductory/Intermediate
JOHN O’NEILL SR.
Friday, August 9, 9:00am – 4:00pm
The first half of this all day workshop focuses on improving security by eliminating those out of sight, out of mind security holes on our servers. Services running under user accounts, scheduled tasks running with credentials where passwords are set to never expire, these are threats to the security of our systems, yet admins use these techniques every day. Stop the insanity! Learn the background and step-by-step techniques for gMSA use in these scenarios. In the afternoon, we’ll take security and administration to the next level through the use of Just Enough Administration. Step-by-step, from start to finish, configure, deploy, and use JEA successfully!
You will learn:
• Setup your environment to use JEA
• Understand, implement, and manage gMSAs
• Creating custom PowerShell functions and modules for JEA administration

F02 Workshop: Building Real World Labs in Azure
Introductory/Intermediate
DAVE KAWULA
Friday, August 9, 9:00am – 4:00pm
The first half of this all day workshop focuses on improving security by eliminating those out of sight, out of mind security holes on our servers. Services running under user accounts, scheduled tasks running with credentials where passwords are set to never expire, these are threats to the security of our systems, yet admins use these techniques every day. Stop the insanity! Learn the background and step-by-step techniques for gMSA use in these scenarios. In the afternoon, we’ll take security and administration to the next level through the use of Just Enough Administration. Step-by-step, from start to finish, configure, deploy, and use JEA successfully!
You will learn:
• Setup your environment to use JEA
• Understand, implement, and manage gMSAs
• Creating custom PowerShell functions and modules for JEA administration

“DEPTH OF TECHNICAL CONTENT AND ABSENCE OF MARKETING HYPE ARE WHAT I LIKE ABOUT THIS CONFERENCE.”

— Brian Globerman, ECG Management Consultants
SESSION DESCRIPTIONS BY TRACK

MICROSOFT SESSIONS

There are many perks to attending training at Microsoft Headquarters and one of the biggest is getting to hear from Microsoft insiders who are “in the trenches” working with IT Pros just like you on a daily basis. These sessions are a chance to hear the newest and latest techniques from those truly in the know, and provide the most-up-to-date analysis and detail on any recent announcements made.

CLIENT AND ENDPOINT MANAGEMENT

There’s always been excitement in the server space. However, you still have to support, upgrade, migrate, and troubleshoot all those endpoints, right? This year we’ve got your back with a brand-new lineup of client-centric sessions from some of the industries favorite speakers—we’ll go through Windows but also other endpoints like iOS/Android!

T05 Using PowerBI and Azure Log Analytics for End User Devices
Introductory/Intermediate
KEVIN KAMINSKI
Tuesday, August 6, 9:30 – 10:45am
Azure Log Analytics has many capabilities for collecting Windows Analytics telemetry and logs from your devices regardless of them being modern or traditionally managed. Making use of this treasure trove of data in the cloud can be tricky at first but understanding the right approach can make a world of difference.

In this session, you will see how Power BI integration with Azure Log Analytics can get you up and running in minutes when it comes to getting actionable insights into your fleet of Windows devices. Understand the data available from patch compliance to application compatibility and how it can be combined to unleash powerful dynamic reports.

You will learn:
• Understand what data is contained in Azure Log Analytics
• Go through the steps to integrate Power BI with Azure Log Analytics
• See how Power BI can make reports more powerful and meaningful

T09 Intune and Custom Policies
Intermediate/Advanced
KEVIN KAMINSKI
Tuesday, August 6, 1:00 – 2:15pm
Forget most of what you know, when moving from a traditional Group Policy environment to MDM requires you to almost re-learn settings management for your Windows devices. Many organizations end up completely frustrated when taking their investment in Group Policy and moving it forward to a modern desktop. Usually this frustration comes from a bad approach underpinned with misunderstanding.

Here we are going to clear the air when it comes to configuring Windows 10 modern desktops. Like anything else there are different approaches and some require hybrid-infrastructure. We will begin with outlining the different philosophies used to drive the different architectures then move into the technical implementations.

W12 Oww Help! SCCM is Getting SaaSified
Intermediate
PETER DAALMANS
Wednesday, August 7, 1:30 – 2:45pm
For a long time the general rumor was that SCCM was going away; this is luckily not the case! In fact, SCCM is more alive than ever! Learn how SCCM has been transitioned to a more agile product that is able to adopt cloud services more quickly. In this session, you will learn about the nice integrations with the cloud which can help you manage your Windows devices even more efficiently.

You will learn:
• How you can leverage the cloud with SCCM
• How SCCM is modernized to support modern management
• How Intune and SCCM can work better together

We start with the built in policies then dive into the more complicated but necessary world of custom policies. Come learn the approaches and the tools used to save you hours of pain.

You will learn:
• Understand the differences between GPO and MDM
• Understand architectures for settings management
• Go through scenarios for implementing different types of settings

12
SESSION DESCRIPTIONS BY TRACK (continued)

**W16 Discussion of Modern Device Management from a (Microsoft Surface) Hardware Engineer**
*Intermediate/Advanced*
CARL LUBERTI
Wednesday, August 7, 3:00 – 4:15pm
Modern devices are increasingly reliant on Windows features, firmware updates, and device driver capabilities than existing legacy and non-UEFI devices. Come to this session to find out a little more about what drives this change, and what you can do to initially deploy and continually manage your modern devices in a more reliable and more scalable way, potentially still while leveraging “legacy” (non-cloud) tooling and management solutions.

You will learn:
- In-depth understanding of why modern Windows client devices require ongoing Windows, firmware, and driver updates
- Recommended practices on how to deploy and manage modern devices with existing management solutions like SCCM
- To become more valuable in any existing and future rollouts of modern Windows client devices to your organization

**TH04 Android Enterprise Management with Intune**
*Intermediate/Advanced*
JAN KETIL SKANKE
Thursday, August 8, 8:00 – 9:15am
Android Enterprise gives us many new options for managing Android devices and we can choose between options like work profile, device owner and single use (KIOSK) scenarios. This session will cover how Android looks at device management and how Intune is implementing all of those new possibilities.

You will learn:
- Understand the different management options for Android Enterprise
- How to implement this with Intune
- See how this is being implemented for customers today

**TH12 Windows Autopilot: Modern Device Provisioning**
*Intermediate/Advanced*
MICHAEL NIEHAUS
Thursday, August 8, 11:00am – 12:15pm
Windows Autopilot introduces a new mechanism for provisioning modern devices, leveraging Intune and the capabilities of Microsoft 365 to enable organizations to move away from costly imaging processes. In this session we’ll cover Windows Autopilot, Intune, Azure Active Directory and additional Microsoft 365 services that are leveraged, including the roadmap for future improvements that are planned.

You will learn:
- Understand how Windows Autopilot works
- Be able to perform your own Windows Autopilot deployments
- Understand the roadmap forward for Windows Autopilot

**TH19 Supporting Surfaces? Learn the Surface Diagnostic Toolkit for Business Now**
*Introductory/Intermediate*
JOHN O’NEILL SR.
Thursday, August 8, 3:30 – 4:45pm
Microsoft’s Surface line took the enterprise world by storm! These devices set the standard for tablets and premium laptops for organizations large and small. What do IT departments do when it comes time to troubleshoot or reassign one of these devices? Simply reloading Windows isn’t an optimal solution. Microsoft developed dedicated tools for Surface device troubleshooting and redeployment. In this session, learn start to finish how to use these tools for speedy, and effective, Surface device support.

You will learn:
- Troubleshooting with the Surface Diagnostic Toolkit for Business
- Using the Surface Secure Erase Tool to ensure data security
- Obtaining and loading device specific Windows images for Surface devices

**THE CALIBER OF SPEAKERS AND THEIR EXPERTISE WAS TOP NOTCH. I WAS VERY PLEASED WITH HOW RELEVANT EVERYTHING WAS TO MY WORK PROJECTS.”**
— Vic Schill, Health Equity, Inc.
**POWERSHELL AND DEVOPS**

TechMentor brings the PowerShell, the automation, and the DSC. It’s all part of the new DevOps approach to things. Sessions in this track teach the tools and tech that make it happen inside your organization. You can’t stay in this business without learning PowerShell! New topics include things like running PowerShell from an Azure Portal!

**T08  Regex for Complete Noobs**
*Introductory/Intermediate*

**THOMAS RAYNER**
Tuesday, August 6, 9:30 – 10:45am

Regular expressions are sequences of characters that define a search pattern, mainly for use in pattern matching with strings, not as some people would have you believe, devil code written by witchcraft practitioners. If you don’t know basic regex, you’re missing out. Get some knowledge in you!

If you have ever had to comb through a log or unformatted user input you know why regex is an important skill. You can try splitting and replacing and joining and trimming strings to try to get stuff out of them, but more often than not, a nice clean regular expression is the tool that’s best for the job. Folks need to quit avoiding regex like it’s an alien that’s here to eat your brain, and embrace the unmatched power that it brings to string manipulation.

**You will learn:**
- Regular expressions
- How to use cmdlets, modules, and functions

**T16  From Cmdlet to Function—Your PowerShell Beginnings**
*Introductory*

**MIKE NELSON**
Tuesday, August 6, 2:45 – 4:00pm

So you’re new to this PowerShell thing, huh? And what is this PowerShell Core everyone is talking about? Well, PowerShell has definitely become a “must learn” scripting engine for just about everyone in IT. Microsoft and a vast eco community now have PowerShell as an API staple in their software distributions. Let’s see how you can get to know a little bit about PowerShell, modules, and cmdlets. And then take it a bit further into creating your own functions and scripts showing how they all work together. Bring your laptop and follow along!

**You will learn:**
- The components of PowerShell and PowerShell Core
- How to use cmdlets, modules, and functions
- Creating scripts and one-liners

**W09  Build Your Azure Infrastructure Like a Pro**
*Intermediate/Advanced*

**ALEKSANDAR NIKOLIC**
Wednesday, August 7, 1:30 – 2:45pm

Today, it’s clear that declarative deployment model is the way to go for creating Azure resources. ARM templates enable you to create your Azure infrastructure using code. DSC enables you to manage configuration of your Windows and Linux servers using code. Combine them and get a full declarative solution to build your environment and provision your VMs. Or, follow Microsoft recommendation and provision a plain vanilla server and manage their configuration using Azure Automation DSC? Join us to learn about Azure offerings to build your infrastructure in a cloud like a professional.

**You will learn:**
- How to use DSC with ARM templates to provision and configure a VM
- How to configure and monitor a VM using Azure Automation DSC
- Pros and cons for both VM deployment methods

**W13  Mastering Azure Using Cloud Shell, PowerShell, and Bash!**
*Introductory/Intermediate*

**THOMAS MAURER**
Wednesday, August 7, 3:00 – 4:15pm

Azure can be managed in many different ways. Learn your command line options like Azure PowerShell, Azure CLI and Cloud Shell to be more efficient in managing your Azure infrastructure. Become a hero on the shell to manage the cloud!

**You will learn:**
- What cloud Shell is
- Some new things in PowerShell Az
- Tips and tricks on Azure command line options

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**THE PRESENTERS AND SPEAKERS WERE TOP NOTCH!**

— Seamus Cranley, Emergency Reporting
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<th>Speaker</th>
<th>Date, Time</th>
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| TH02     | Azure Cloud Shell: The Easiest Way to Manage Azure with Command-line Tools | Intermediate/Advanced | Aleksandar Nikolic   | Thursday, August 8, 8:00 – 9:15am | Azure Cloud Shell has changed a lot in the last year. It offers PowerShell and Bash experience—both now running on Linux. Cloud Shell comes with even more pre-installed and pre-configured CLI tools and programming languages. Just start Azure Cloud Shell and tools like Terraform and Ansible are ready to use. Cloud Shell integration with Visual Studio Code is so smooth, you will be constantly amazed. Join us to learn about one of the best ways to interact with Azure resources. You will learn:  
• About the benefits of using Azure Cloud Shell  
• About the available tools and how to use them  
• Various tips and tricks including using Cloud Shell within Visual Studio Code |
| TH06     | PowerShell Core on Linux: Benefits and Challenges                     | Intermediate | Aleksandar Nikolic   | Thursday, August 8, 9:30 – 10:45am | PowerShell Core, the evolution of Windows PowerShell, is open source and cross-platform. You can use it on Linux, macOS, and Windows. If you want to use the Azure Cloud Shell to manage your cloud resources, your only option now is to run PowerShell on Linux. How does this affect us as users? How do you build cross-platform PowerShell code and what development tools can we use to reach this goal? What are the Linux-specific features that we need to consider and embrace? In this talk, you will see what’s new in PowerShell and learn how to deal with the challenges of running PowerShell on Linux. You will learn:  
• About PowerShell Core  
• Linux-specific differences to run PowerShell commands  
• How to write portable PowerShell scripts that run everywhere |
| TH09     | Using PowerShell to Rock Your Labs                                    | Introductory/Intermediate | Dave Kawula           | Thursday, August 8, 11:00am – 12:15pm | In this session, MVP Dave Kawula will show you his latest work with his BigDemo series of PowerShell Scripts. He has been using these scripts as a foundation for his latest series of books published up on www.leanpub.com. The scripts have been broken down into a series of re-usable functions that can easily spin up any environment in between 30 minutes to 1 hour. This includes building Routing, SQL Installs, System Center Installs and more. You will learn:  
• PowerShell Real World Labs  
• PowerShell Big Demo  
• PowerShell for the IT Pro |
| TH15     | Start Using JEA Today to Stop Overprivileged User Accounts            | Intermediate | John O’Neill Sr.      | Thursday, August 8, 2:00 – 3:15pm | Every IT Pro knows, or should know, users running with admin privileges are a recipe for disaster! The sticking point is that many tasks require elevated rights. How do IT Pros empower users to get the job done, while still protecting systems from all the threats lurking around every digital corner? The answer is Just Enough Administration or JEA. JEA provides a framework for standard users to complete almost any administrative task PowerShell performs. This session covers everything eager IT Pros need to get up and running delegating administrative tasks using JEA. You will learn:  
• Setup your environment to use JEA  
• Delegating administration through roles  
• Create and use JEA endpoints |

“I HAVE BEEN ATTENDING TECHED/IGNITE SINCE 2008 AND I GOT MORE OUT OF TECHMENTOR THAN ALL PREVIOUS ONES.”
— Jim Middleton, Middleton Tech Group
TechMentor's Infrastructure track covers the services that make the server, client, application, and services work together in an IT environment. The best teachers the industry has to offer are here to teach you topics like Always-On VPN, network troubleshooting and Group Policy. We'll also have great sessions on one of the toughest troubleshooting topics: Performance Troubleshooting.

**T02 Top Free Tools for Monitoring Windows Performance**  
*Introductory/Intermediate*  
**BRUCE MACKENZIE-LOW**  
**Tuesday, August 6, 8:00 – 9:15am**  
Sometimes the best things in life are free and this couldn’t be truer than with Microsoft’s suite of built-in and free-download performance tools. This session guides IT Professionals through the monitoring process by illustrating the appropriate performance tool for the job. Interactively viewing the system with Task Manager or Resource Monitor, then collecting performance data in the background with Perfmon or the Windows Performance Recorder, finally analyzing the data with expert tools such as PAL and the Performance Analyzer help you to pinpoint resource bottlenecks.

You will learn:  
- About the performance monitoring process and fundamentals  
- Explore the various performance tools for troubleshooting resource bottlenecks  
- Tips and techniques for using performance tools and automating the analysis

**T11 Configuring Windows Server & Client for Developing Hosted Linux Workloads**  
*Intermediate*  
**ORIN THOMAS**  
**Tuesday, August 6, 1:00 – 2:15pm**  
With Windows Subsystem for Linux, SSH, and support for Linux Containers on Windows you can configure Windows Server 2019 to function with a Linux command line environment and allow it to host Linux production workloads. In this session you’ll learn how to configure and deploy Windows Subsystem for Linux on Windows Server 2019 and Windows 10 to provide a Linux command line environment. You’ll learn how to configure Windows 10 and Windows Server 2019 so that you can connect remotely to manage the operating system using SSH. You’ll also learn how to configure Docker and Containers on Windows Server 2019 and Windows 10 so that developers can create Linux container workloads and deploy those workloads on Windows Server 2019.

You will learn:  
- Configure Windows Server to host Linux Workloads  
- Deploy and manage Containers on Windows Server  
- Deploy and manage Kubernetes for containers on Windows Server

**W03 Everything You Need to Know About Storage Spaces Direct—Part 1**  
*Intermediate / Advanced*  
**COSMOS DARWIN**  
**Wednesday, August 7, 8:00 – 9:15am**  
Storage Spaces Direct is the software-defined infrastructure that powers Azure Stack and Azure Stack HCI. This session is the first half (part 1 of 2) of the definitive “How It Works” guide, including the undocumented nitty-gritty details, straight from the engineering team. What types of drives can I use? How does the cache work? How does Storage Spaces Direct rely on Ethernet and RDMA networking? What’s the end-to-end IO path? What’s this about mirror and parity? How much space will that give me? And what on Earth is mirror-accelerated parity?! How many failures is too many failures? What about server failures? What even is a fault domain? Why do servers in my cluster need to resync? Is that different than repairing? What’s rebalancing...? All this and more!

**W07 Everything You Need to Know About Storage Spaces Direct—Part 2**  
*Intermediate / Advanced*  
**COSMOS DARWIN**  
**Wednesday, August 7, 9:30 – 10:45am**  
Storage Spaces Direct is the software-defined infrastructure that powers Azure Stack and Azure Stack HCI. This session is the second half (part 2 of 2) of the definitive “How It Works” guide, including the undocumented nitty-gritty details, straight from the engineering team. What types of drives can I use? How does the cache work? How does Storage Spaces Direct rely on Ethernet and RDMA networking? What’s the end-to-end IO path? What’s this about mirror and parity? How much space will that give me? And what on Earth is mirror-accelerated parity?! How many failures is too many failures? What about server failures? What even is a fault domain? Why do servers in my cluster need to resync? Is that different than repairing? What’s rebalancing...? All this and more!
**TH13  Migrating to Windows Server 2019 like the Pro’s**
*Introductory/Intermediate*

DAVE KAWULA
Thursday, August 8, 2:00 – 3:15pm

During this session, you will learn about Dave’s proven methodology for Zero Downtime Windows Server Migrations and Upgrades. Learn how to Migrate Active Directory, DHCP, DNS, File, Print, IIS to Microsoft latest flagship operating system Windows Server 2019 LTSC.

You will learn:
- Notes from the field: Upgrading to Windows Server 2019
- How to upgrade
- Make it work like the pros

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**TH17  The Case of the Shrinking Data: Data Deduplication in Windows Server 2019**
*Introductory/Intermediate*

DAVE KAWULA
Thursday, August 8, 3:30 – 4:45pm

One of the most requested features for Storage Spaces Direct was ReFS with Data Deduplication. This feature was released over a year ago, but it was only in the Semi-Annual Release which did not include support for Storage Spaces Direct. The IT community has waited patiently and the time has finally come with Windows Server 2019. This release has added full support for ReFS Data Deduplication into Storage Spaces Direct. What does this mean for you? How about more than 80% space savings on your VMs, Backups, ISO repositories, all running on Cluster Shared Volumes with Storage Spaces Direct. In this session, learn how to set up, configure, and test Data Deduplication with ReFS based on his years of knowledge working with Microsoft storage.

You will learn:
- ReFS
- Deduplication
- Operationalize on Deduplication

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**T06  How to Become a Community Rockstar—Learn How to Showcase Your Skills**
*Introductory*

CRISTAL KAWULA
Tuesday, August 6, 9:30 – 10:45am

Have you struggled to get up in front of people and talk about the amazing things you know and love about IT? Do you find it difficult to come up with ideas for speaking sessions and topics? During this session, Cristal will show you how the process works and how to up your speaking game. Also in this session, Cristal will show you how to quickly get your information out there in various channels including: Blogs, Twitter, Facebook, and YouTube. At the end of this session, the only question you will be left asking yourself is where is the next conference and how can I submit my sessions and become a part of this amazing IT Community.

You will learn:
- Public speaking
- How to promote yourselves
- How to blog, and get on social media

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**T03  Follow the Breadcrumbs Azure Security Center In-Depth**
*Introductory/Intermediate*

MIKE NELSON
Tuesday, August 6, 8:00 – 9:15am

Cyberthreats are everywhere today. Your presence in the cloud is really a good easy target for them and has probably been approached or even attacked at some point already. The Security Center and related services goal is provide a central point where you can manage, monitor, alert, and be advised on all your resources in Azure, as well as on your connected devices. We will take a live look at the Security Center and its related services, highlight some attack scenarios, and show you how to “read the breadcrumbs” when researching your own breaches.

You will learn:
- How to setup Security Center in Azure
- Tracing an attack with the Security Center
- Mitigating threats with Security Center
**T10  A World beyond Passwords**
*Introductory*
LESHA BHANSALI & KRISTINA COSGRAVE
Tuesday, August 6, 1:00 – 2:15pm
Passwords are the weakest link for security and your business. Learn about new and enhanced solutions that can help you provide secure, password-less options for your users to help protect your company from password spray, phishing and other attacks. Get the latest info on what’s new with FIDO2, WebAuthN, Azure Active Directory, Windows Hello, and Microsoft Authenticator to help you make passwords a relic of the past.

You will learn:
- About the shortcomings and security vulnerabilities with using traditional Alpha-numeric passwords
- Discover what Microsoft is doing to provide high security, convenient methods of strong authentication that don’t rely on traditional passwords
- New features and capabilities on our roadmap such as: Windows Hello, Microsoft Authenticator, and FIDO2 Security Keys, which are helping organizations close the door on old-school passwords for good

**W02  Surviving a Ransomware Attack: Notes from the Field**
*Introductory*
ÉMILE CABOT
Wednesday, August 7, 8:00 – 9:15am
From Enterprise Admin credentials being leaked to a limited access breach, we will go into detail on four different Ransomware attacks. We look at the attackers approach, the DR solutions in place, and what was ultimately required for a complete recovery. This session is a great opportunity to learn from others’ mistakes, and ensure you’re taking the right steps to protect your important data.

You will learn:
- Why traditional DR does not protect against Ransomware
- What procedures need to be in place when an attack occurs
- Step-by-Step remediation guide

**T14  Hardening Windows Server**
*Intermediate/Advanced*
ORIN THOMAS
Tuesday, August 6, 2:45 – 4:00pm
While Microsoft sets a balance with the default security settings for Windows Server, it’s possible to go a lot further when it comes to securing the environment. In this session you’ll learn how to locate and track suspicious activity, harden accounts and authentication, secure administration, and harden Windows Server from its default configuration.

**W10  Implementing Proactive Security in the Cloud—Part 1**
*Introductory*
SAMI LAIHO
Wednesday, August 7, 1:30 – 2:45pm
Security is quite simple and easy to configure with a traditional Active Directory and Group Policies. The same things are needed in the modern world but setting them with Azure AD and Intune is not that easy. Come and save yourself weeks of figuring out things yourself by joining one of the world’s leading Security and Windows experts, Sami Laiho, in this session where he will show you how to configure the proactive security in a modern way using modern tools!

You will learn:
- How to manage Windows security from the Cloud
- How to use Azure AD and Intune to manage security in the modern world
- How to move to proactive security in the Cloud

**W14  Implementing Proactive Security in the Cloud—Part 2**
*Introductory*
SAMI LAIHO
Wednesday, August 7, 3:00 – 4:15pm
Security is quite simple and easy to configure with a traditional Active Directory and Group Policies. The same things are needed in the modern world but setting them with Azure AD and Intune is not that easy. Come and save yourself weeks of figuring out things yourself by joining one of the world’s leading Security and Windows experts, Sami Laiho, in this session where he will show you how to configure the proactive security in a modern way using modern tools!

You will learn:
- How to manage Windows security from the Cloud
- How to use Azure AD and Intune to manage security in the modern world
- How to move to proactive security in the Cloud
TH01  Hackers Won’t Pass—Microsoft 365 Identity & Threat Protection—Part 1 Offensive
Intermediate/Advanced
SERGEY CHUBAROV
Thursday, August 8, 8:00 – 9:15am
Industry spends billions on cybersecurity, but it’s going worse every year. Crackers, ransomware attacks, international scandals are remind us dangerous world. But the biggest issue the matter of fact: there is a really low threshold of occurrence into “hacking.” Any scriptkiddie can download a bunch of tools and play with your websites, emails servers etc. In our time to be hacked or not is a matter of statistics. To beat hackers let’s think like hackers with Certified Ethical Hacker’s help.

In the first session you will see the complete kill chain from cutting the edge to domain admin privileges.

The kill chain includes:
• Getting inside the network with email attacks. Bypassing third-party email protection.
• Privilege Escalation
• Enumerating and Exploiting Active Directory domain
• Attacking Open Source software

You will learn:
• Office 365 ATP
• Windows Defender ATP
• Azure ATP

TH05  Hackers Won’t Pass—Microsoft 365 Identity & Threat Protection—Part 2 Defensive
Intermediate / Advanced
SERGEY CHUBAROV
Thursday, August 8, 9:30 – 10:45am
In the first session we walked in hacker’s shoes. How about we changes shoes and kick them out with Microsoft 365’s help.

In this session you will learn how:
• Stop email attacks with AI. Office 365 ATP insides.
• Don’t miss when Active Directory being attacked. Azure ATP user behavior analysis
• Protect your modern desktop from modern attacks. Bring AI power to any laptop with WD ATP

You will learn:
• Office 365 ATP
• Windows Defender ATP
• Azure ATP

TH08  “AaronLocker:” Robust and Practical Application Whitelisting for Windows
Intermediate
AARON MARGOSIS
Thursday, August 8, 9:30 – 10:45am
Security experts have long recommended application whitelisting to defend against malware, including ransomware. Windows has provided whitelisting technologies for years, but hasn’t provided a means to create useful rule sets - until now. “AaronLocker” simplifies the creation, management, and monitoring of robust, AppLocker-based whitelisting rules for Windows. And it’s free.
TH18  Malware Protection in Windows 10
Introductory/Intermediate
ÉMILE CABOT
Thursday, August 8, 3:30 – 4:45pm
This session will investigate a real ransomware attack, and how the built-in virtualization capabilities of Windows 10 can be configured to harden these types of vulnerabilities.
You will learn:
• Antimalware options available in Windows 10
• Anatomy of a Ransomware attack
• Pros and cons of products available in the Windows Defender Suite

TH20  Always On VPN: The Good, the Bad, and the Ugly!
Introductory/Intermediate
RICHARD HICKS
Thursday, August 8, 3:30 – 4:45pm
With Microsoft moving away from DirectAccess in favor of Windows 10 Always On VPN, it’s important for administrators to understand the similarities and differences between these two remote access technologies. Always On VPN is implemented and managed much differently than DirectAccess, which can present some unique challenges. It also offers many more features including support for non-domain joined devices and conditional access. In this session, I’ll compare and contrast DirectAccess and Always On VPN and tell you everything you need to know about it, including the good, the bad, and the ugly!
You will learn:
• Similarities and differences between DirectAccess and Always On VPN

T04  From IT Pro to Cloud Pro
Intermediate
PETER DE TENDER
Tuesday, August 6, 8:00 – 9:15am
The ITPro job as we know it is about dead. But the IT Pro skills can be cloud-enabled, so nothing to worry about (yet). Peter, a core IT Pro himself for over 20 years, will share his personal experiences on how he was forced to become a CloudPro for doing his day to day job in the Azure world. Learn concepts like Azure Automation, Azure Resource Management templates and Azure Policies and how to streamline your Azure platform deployments.
You will learn:
• Your IT Pro job is dead
• But there is a CloudPro after-live
• My personal story how I survived, and became successful with Cloud

T07  Backup, Disaster Recovery, and Business Continuity in Azure
Intermediate/Advanced
ORIN THOMAS
Tuesday, August 6, 9:30 – 10:45am
If your Azure subscription was accidentally or deliberately deleted tomorrow, would you be able to recover all of your workloads? Just because you are running a workload in the cloud doesn’t mean you still don’t need to have a backup and disaster recovery strategy. In this session, you’ll learn how you can backup and recover your PaaS and IaaS workloads, ensure those workload are highly available, and ensure that your organization meets its data retention and compliance responsibilities. You’ll learn the difference between the native backup functionality built into Azure services as well as how to use Azure Backup to protect and recover your Azure workloads.
You will learn:
• Hybrid and Azure Backup technologies
• Azure HA technologies
• Recover Azure Workloads

T15  Familiar and Future-Proof: Lift and Shift Your Cluster into Azure IaaS
Intermediate / Advanced
ROB HINDMAN
Tuesday, August 6, 2:45 – 4:00pm
Guest clustering in Azure is an increasingly popular lift & shift strategy to move on-premises workloads, including SQL Server (FCI and AG) and traditional line-of-business (LOB) apps, to the cloud. In this session, we’ll walk end-to-end through the steps to deploy a Windows Server Failover Cluster inside Azure IaaS virtual machines. We’ll cover known limitations, testing tools, and examples of successful deployments, all the important considerations for networking, storage, and quorum, and discussion Microsoft’s future direction for guest clustering.
W04 Azure is 100 % Highly Available or is it?

**Advanced**

**PETER DE TENDER**

Wednesday, August 7, 8:00 – 9:15am

While public cloud solutions like Azure are obviously built with a high availability in mind, it takes a bit more design effort to really get your workloads 100% high-available. And that’s exactly what this session is about: learning how to elevate the uptime of your Azure IAAS and PAAS workloads, to go from the out-of-the-box default SLA’s to an almost 100% SLA. Starting from Virtual Machines, Networking and Storage design best practices, Peter will jump over to Platform services and walk you through several architectural and services designs.

You will learn:
- What do you mean Azure is not 100% high available?
- If it is not 100%, what is it then?
- The architecting Azure blackbelt hour...

W06 Get Started with Azure MFA the Right Way

**Intermediate/Advanced**

**JAN KETIL SKANKE**

Wednesday, August 7, 9:30 – 10:45am

It should be no surprise that you should enable Multi factor to secure your identities today, but still there is a scaring low percentage that has enabled MFA on their users and admins. Why is that?

In this session, we will show you how to do it right so that you safely can enable Azure MFA without breaking the user experience on the way. It is not very complicated to do Azure MFA the right way by using MS Intune/ConfigMgr and Azure AD Conditional Access together.

W08 Become the World’s Greatest Azure-Bender

**Intermediate/Advanced**

**PETER DE TENDER**

Wednesday, August 7, 9:30 – 10:45am

Don’t we all want to tweak and tune Azure to our needs? And save money, ease asset management and optimize overall cloud governance as a benefit?

You will learn:
- How to organize your Azure subscriptions
- How to lock-down Azure admins from excessive cost spending
- Optimizing Azure Asset management

W11 Get the Best of Azure and Windows Server with Windows Admin Center

**Intermediate / Advanced**

**HALEY ROWLAND**

Wednesday, August 7, 1:30 – 2:45pm

Want to keep certain workloads on-premises yet still leverage the power of all Microsoft’s investments in Azure? Windows Admin Center is your answer! Windows Admin Center is the new face of Windows Server management—it’s a free, lightweight, browser-based app that’s ready to use in production. Windows Admin Center makes it easy to register on-premises servers or clusters with Azure and streamlines the set-up process for helpful Azure services like Backup, Site Recovery, Update Management, and Monitor.

TH03 Replicate Your Storage/ Data to Azure the Easy Way

**Intermediate**

**ARPITA DUPPALA**

Thursday, August 8, 8:00 – 9:15am

Azure Blob Storage on IoT Edge is a light-weight Azure consistent module which provides local block blob storage. It comes with configurable auto-tiering to Azure and auto-clean Edge devices functionalities. Storage Replica is Windows Server technology that enables replication of volumes between servers or clusters for disaster recovery.

You will learn:
- About different scenarios where “Azure Blob Storage on IoT Edge” is useful and how to auto-upload your data from your IoT edge device to Azure.
- How to use Storage Replica to replicate data between server-to-server or cluster-to-cluster
TH07  A Look into the Hybrid Cloud Lifestyle of an Azure Stack Operator
Intermediate/Advanced
THOMAS MAURER
Thursday, August 8, 9:30 – 10:45am
Microsoft released Azure Stack as an Azure appliance for your datacenter. Learn what Azure Stack is, what challenges it solves, how you deploy, manage and operate Azure Stack in your datacenter. Learn about the features and services you will get by offering Azure Stack to your customers and how you can build a true Hybrid Cloud experience.

In this presentation, Thomas Maurer (Microsoft MVP) will guide you through the highly anticipated innovations and experiences during the Azure Stack Early Adaption Program and Azure Stack Technology Adoption Program (TAP).

You will learn:
• How to integrate Azure Stack into your Datacenter
• How to operate Azure Stack and how it is managed
• How to trouble shoot Azure Stack installations

TH10  The Force Awakens—Azure SQL Server for the On-prem DBA
Introductory/Intermediate
ALEXANDER ARVIDSSON
Thursday, August 8, 11:00am – 12:15pm
Have you ever been asked what the cloud means for your database environment or wondered if Azure is a viable platform for a new system? If so, look no further!

This session begins with an overview of Azure and where SQL Server fits in among the other services of the cloud. It follows with key differences between SQL Server on-prem, SQL Server on a VM, Azure SQL Server and Azure SQL Server Managed Instance, as well as discusses some of the pros, cons, challenges and benefits of putting a database in the cloud in the first place.

If you are eager to explore the database offerings in Azure, gain a basic understanding of which toys to use when and develop a plan for harnessing the power of the cloud, then this session will provide the tools you need to step into a new world.

You will learn:
• An overview of available database options in Azure
• Insight into how to best leverage the options in Azure
• How cloud databases differ from classic on-prem implementations

TH14  Boring is Stable, Stable is Good—Best Practices in Practice for SQL Server
Intermediate/Advanced
ALEXANDER ARVIDSSON
Thursday, August 8, 2:00 – 3:15pm
Have you ever wondered why there are so many, sometimes contradictory, best practices for SQL Server on the internet? Have you considered creating your own but didn’t know where to begin? Then this is the session for you.

Everybody is talking about best practices, and like standards, most everybody has them. But why do they look like they do, and why would you use a specific set of “best practices” that someone has put together? This session goes through my set of best practices that I’ve accumulated over 20 years of DBA work, disassembles each and every one of them to see how they came about and discuss why I still use them - or don’t.

There are no such things as the “ultimate” best practices, but I aim to provide the attendee with as much food for thought as possible in order to let each and every one decide on their own path forward. The session covers primarily SQL Server 2012 to 2017, with SQL Server 2019 thrown in for good measure.

You will learn:
• Insight into what constitutes a best practice
• About what to change from defaults and why
• Ask unexpected questions

OFFICE 365 FOR THE IT PRO
Learn about Office 365 from the ground up at TechMentor Microsoft HQ. You will have an opportunity to gain key insights into Security and the all-new Microsoft Teams. Attend sessions in this track, and you will learn some amazing new skills for your job as an Office 365 admin.

T01  Microsoft 365 Explained
Introductory/Intermediate
STÅLE HANSEN & JAN KETIL SKANKE
Tuesday, August 6, 8:00 – 9:15am
Wondering what Microsoft 365 really is? You will leave this session understanding the different SKU’s and how you can easily add E5 level security options as add-ons. You will learn how to sell it internally in your organization, pitch it to customers or understand the technical requirements as a consultant. MVP’s Ståle Hansen and Jan Ketil Skanke will share their experience from more than 20 workshops, projects and as architects with deep knowledge on how the components fit together. This session is a great place to get started with Microsoft 365.

You will learn:
• Understand the different SKU’s and how you can easily add E5 level security options as add-ons
• Get all your questions answered about M365
• Get practical guidance based on experience from what people need to know and how we implement it
SESSION DESCRIPTIONS BY TRACK (continued)

**T13 OneNote LifeHack: 5 Steps for Succeeding with Personal Productivity**
*Intermediate/Advanced*

**STÅLE HANSEN**
Tuesday, August 6, 2:45 – 4:00pm

So you are using OneNote as your primary note taking tool? Without structure you might lose track of all your notes. This session is about how to get structured using OneNote to dump all your thoughts, ideas, emails and notes that are either actionable or something you want to find later and use it as the only task scheduling tool as well. MVP Ståle Hansen shows you five steps to get started with a robust framework from using sections correct, your mobile to take notes on the go, Microsoft Flow to send email to OneNote from any device and the Pomodoro Technique to prioritize and induce flow in a busy workday. The magic is to collect all information in one section regardless of platform, the collection section. Join this session on getting structured with OneNote.

**You will learn:**
- How to capture using OneNote mobile
- The 5 steps for personal productivity
- How the Pomodoro technique can be used to induce flowstate

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**W01 Ten Practical Tips to Secure Your Corporate Data with Microsoft 365**
*Intermediate*

**PETER DAALMANS**
Wednesday, August 7, 8:00 – 9:15am

Employees demand access to your corporate data and apps on their own devices so that they can be productive. This can be a challenge for you as the Administrator, IT Manager or security counterpart in your organization.

During this session you will learn, via 10 practical tips, how to allow users to bring their devices in your company and allow access to corporate data securely. You will learn when to use what product or what feature to comply to your own set of security rules.

Expect a demo heavy and fully up to date session based on real life experiences gained while working on many Microsoft 365 related projects! After this session you will be able to implement the tips in your own environment.

**You will learn:**
- New options that are available to protect your data with M365
- How to use the features straight after the conference at home/work
- When to use what product or what feature to comply to your own set of security rules

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**W05 Everything You Need to Know About Calling in Microsoft Teams**
*Intermediate*

**STÅLE HANSEN**
Wednesday, August 7, 9:30 – 10:45pm

Learn how to design for cloud voice when Microsoft is switching from Skype for Business to Microsoft Teams as the primary client for meetings and conversations. You will learn the current state of calling in Microsoft Teams and when you will still use the Skype for Business client. You will also learn how to connect your own siptrunk with Direct Routing.

**You will learn:**
- Understand how to move from Skype for Business to Teams
- About all calling features in Teams
- Understand how you can bring your own siptrunk to Teams

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— Jason Osman, TW Tumu Paeroa
CONFERENCE ADVISORY BOARD

Conference Co-Chairs:

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

Sami Laiho is one of the world’s leading professionals in the Windows OS. Sami has been working with and teaching OS troubleshooting, management and security for 20 years. Sami’s session was evaluated as the best session at TechEd Europe and TechEd North America 2014. @samilaiho

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

With over 18 years’ experience in the IT Industry Dave has run 2 other IT Services organizations before starting TriCon Elite Consulting. In April of 2012 he was honored with a special designation from Microsoft called Most Valuable Professional “MVP” in Hyper-V. This special designation sees him being part of an elite group of 75 others in the world. He also holds over 50 Microsoft Certifications in various technology areas.

Dave has successfully completed over 40 projects with his teams in the past 5 years alone. Many of these projects come as repeat business from the same clients over and over again. Dave is also an upstanding member of the community and believes in “Working Hard, Playing Hard and sharing success with others less fortunate.”  
@davekawula

Advisory Council:

Scott Bekker  
Editor, Redmond and Redmond Channel Partner

Scott Bekker has been a technology journalist for 20 years. In that time, he has primarily covered Microsoft, including its technologies, its business, its vendor ecosystems and its partners. His articles and columns have appeared in Redmond Channel Partner magazine, Redmond magazine and ENT.

Kurt Mackie  
Senior News Producer, Redmondmag.com

Kurt Mackie has been covering developer and IT fields for over a decade at 1105 Media, starting with Application Development Trends, although he currently writes about Microsoft technologies for IT pros at sister publication Redmondmag.com. In addition to this writing work, he served as managing editor at Broadband Wireless Business and America’s Network, which focused on the fixed wireless and telecom industries, respectively. He also did an eight-year stint providing editorial assistance on a medical journal, Critical Care Medicine.

Gladys Rama  
Senior Site Editor, AWSInsider

Gladys Rama has been writing and editing IT- and Microsoft-related articles for 1105 Media’s Enterprise Computing Group for over 10 years.

Wendy Hernandez  
Group Managing Editor

Wendy Hernandez has been editing technology magazines, Web sites and various custom content for the past 17 years, at one point managing seven print titles at once. Now she focuses on managing MSDN Magazine while also serving as the editor of the Virtualization & Cloud Review Web site. A graduate of UCLA, Hernandez played soccer for the Bruins while she earned her bachelor’s degree in English Literature.

“DIFFERENT SPEAKERS, DIFFERENT SUBJECT TOPICS. I REALLY LIKE THAT IT IS GEARED FOR DIFFERENT TECHNICAL LEVELS.”

— Casey Johnson, Poudre School District
CONFERENCE SPEAKERS

**Alexander Arvidsson**
Principal Solutions Architect, Atea

Alexander is principal solutions architect at Atea in Linköping, Sweden. Nobody really knows what it means to be a principal solutions architect, but he spends his days teaching courses or helping clients of all shapes and sizes to take better care of their data. He has spent the last 20 years toying with data, databases and related infrastructure services such as storage, networking and virtualization, occasionally emerging from the technical darkness to attend a Star Wars convention somewhere in the world.

Alexander is a frequent international speaker, Data Platform MVP, podcaster, Pluralsight author, blogger, and a Microsoft Certified Trainer focusing on SQL Server, Azure, and Power BI.

**Lesha Bhansali**
Program Manager, Microsoft

Lesha comes with a strong blend of technical and business skills gained over the last few years from academic and professional experiences. She enjoys understanding client problems, leveraging technology to find customized solutions, and working on complex problems.

**Émile Cabot**
Principal Consultant, TriCon Elite Consulting

Émile is a four-time Microsoft Most Valuable Professional (MVP) who started in the industry during the mid-90s working at an ISP and designing web sites for celebrities. He has a strong background specializing in datacenter and deployment solutions, and has spent many years performing infrastructure analyses and solution implementations for organizations ranging from 20 to over 200,000 employees.

Émile organizes the Calgary Microsoft User Group, blogs on CheckYourLogs.net, and has presented at several conferences, including Ignite, VeeamOn, TechReady, and MVPDays. He actively volunteers as a member of the Canadian Ski Patrol, providing over 250 hours each year for first aid services and public education at Castle Mountain Resort and in the community.

**Sergey Chubarov**
Ethical Hacker

Sergey Chubarov is an Infrastructure Team Lead at Microsoft SI Partner with 10+ years’ experience on Microsoft technologies, head of infrastructural projects, Microsoft MVP with different certifications: MCT, MCT Regional Lead, MCT Global Summit Speaker Idol 2018, MVP: Microsoft Azure, Certified Ethical Hacker, Certified Ethical Instructor.

**Kristina Cosgrave**
Program Manager, Identity Team, Microsoft

Kristina is a Program Manager in the Azure Identity Engineering Division at Microsoft. She works on the Customer Experience team helping some of the world’s largest enterprise customers with their Azure Active Directory Premium deployments. Previously she worked as a Program Manager in the Windows Devices Group, partnering closely with Surface teams, to design the OS and end user interfaces for new devices.

**Greg Cusanza**
Principal Program Manager Lead, Microsoft

Greg Cusanza is a Principal Program Manager on the Windows Server Datacenter Networking team. He has 20 years of experience in the software industry, starting out as a developer and moving into program management when joining Microsoft in 2009. As a member of the System Center team Greg worked on Virtual Machine Manager’s bare metal deployment feature, XenServer integration and network management before joining the Datacenter Networking team to focus on building the Software Defined Networking infrastructure in Windows Server.

**Peter Daalmans**
Principal Consultant and Trainer, Daalmans Consulting

Peter is a Principal Consultant and Trainer at Daalmans Consulting with a primary focus on the System Center Configuration Manager and Enterprise Mobility. Peter is awarded every year as a Microsoft Enterprise Mobility MVP (Configuration Manager/Microsoft Intune/Enterprise Mobility Suite) since 2012. Peter shares his knowledge on his blog ConfigMgrBlog.com. Peter is also one of the founders and leads of the Windows Management User Group Netherlands; author of books including Mastering System Center 2012 Configuration Manager, Mastering System Center 2012 R2 Configuration Manager, Mastering System Center Configuration Manager, and Microsoft Enterprise Mobility Suite: Planning and Implementation. Peter speaks at local and international group meetings, conferences like Microsoft Ignite, Microsoft TechEd (Australia / New Zealand), TechMentor, TechChorama Belgium, Midwest Management Summit (MMS), BriForum (London, Denver and Boston), TechDays Netherlands, and ExpertsLive Netherlands. For more information, visit: https://ref.ms/aboutme.

“MY 6TH TECHMENTOR AND DEFINITELY MY FAVORITE IT CONFERENCE. LOOKING FORWARD TO NEXT YEAR.”

— Joe Price, SBMA
CONFERENCE SPEAKERS (continued)

Cosmos Darwin  
Senior Program Manager, Core OS Engineering Team, Microsoft

Cosmos is a Senior Program Manager on the Core OS engineering team at Microsoft. He is directly responsible for the development of Microsoft’s hyper-converged storage platform in Windows Server 2016, 2019, and 202X, and its management experience in Windows Admin Center. He frequently writes and presents about Storage Spaces Direct. Before joining Microsoft, he was born and raised in Canada.

Peter De Tender  
Microsoft Cloud Solution Architect, PDTIT

Peter De Tender is a Microsoft Infrastructure Expert, Certified Trainer (MCT), Microsoft MVP (2013-2015), technical writer and passionate speaker. Starting his IT career in 1996, Peter has never looked back from Microsoft server technologies. At present, he’s an expert on Azure Infrastructure Services and overall Azure Platform architecture, coaching Microsoft Partners all over the world in doing more Azure business by providing training, readiness workshops and architect consulting on Azure and broader Microsoft cloud technologies.

Peter authored numerous Azure-related whitepapers and courses for Opsgility and Packt Publishing, and has recently published Learning Operations Management Suite with Apress in November 2016. @pdttit

Arpita Duppala  
Program Manager, Core OS Intelligent Cloud and Intelligent Edge, Microsoft

Arpita Duppala is a Program Manager on the “Core OS Intelligent Cloud and Intelligent Edge” team at Microsoft. She is feature PM of “Azure Blob Storage on IoT Edge” and “Storage Replica” feature in Windows Server 2016, 2019.

Roger Grimes  
Data-Driven Defense Evangelist, KnowBe4, Inc.

30-year computer security professional, author of 10 books and over 1000 magazine articles on computer security, former 12-year Microsoft employee.

Ståle Hansen  
CEO and Principal Cloud Architect, CloudWay AS

Ståle Hansen is the Founder and Principal Cloud Architect at CloudWay in Norway. He is an Office Apps and Services MVP with over a decade of experience with Skype for Business and is now focused on hybrid Office 365. His core competence is to explain complex scenarios and make them understandable by combining technical insight and business value. He loves to share his understanding as blogger since 2009 and as a highly rated trainer with the custom-made Microsoft 365 MasterClass. He is a co-author of the book “Office 365 for IT Pros” and you can follow his YouTube channel on OneNote LifeHacks. He is regularly invited to share his experience at international conferences such as TechEd, Microsoft Ignite, ExpertsLive, and TechMentor.

Richard Hicks  
Founder and Principal Consultant, Richard M. Hicks Consulting

Richard Hicks (MCP, MCSE, MCTS, and MCITP Enterprise Administrator) is a network and information security expert specializing in Microsoft technologies. As a five-time Microsoft MVP, he has traveled around the world speaking to network engineers, security administrators, and IT professionals about Microsoft security solutions. Richard has nearly 20 years of experience working in large scale corporate computing environments and has designed and deployed perimeter defense and secure remote access solutions for some of the largest companies in the world. richardhicks

Rob Hindman  
Senior Program Manager, Microsoft

Kevin Kaminski  
Windows and Devices for IT MVP

Kevin Kaminski is a seasoned consultant with over 20 years’ experience focusing mainly on Microsoft technologies that range from device management to the data center. Using his experiences from different organizations large and small he is able to draw upon practical knowledge that he incorporates into his speaking engagements, training materials, articles and consulting engagements. He currently is a Microsoft MVP for Windows and Devices for IT and has been a Microsoft MVP for Microsoft Application Virtualization (App-V) over the past nine years.

Cristal Kawula  
President, TriCon Elite Consulting

Cristal Kawula is the co-founder of MVPDays Community Roadshow and #MVPHour live Twitter Chat. She is the President of TriCon Elite Consulting where she manages the day to day operations of the field consulting and sales teams. Cristal is also only the 2nd Woman in the world to receive the prestigious Veeam Vanguard Community excellence award. In July of 2017 she was awarded the designation of Microsoft MVP. Early in her career Cristal worked as a consultant with Microsoft authoring content for internal SMSGR and GTR teams. This content was used to train internal support engineers and global escalation engineering teams. Cristal can be found speaking at Microsoft Ignite, MVPDays, and other local user groups. She is extremely active in the community and has recently helped publish a book for other Women MVP’s called "Voices from the Data Platform."
CONFERENCE SPEAKERS (continued)

Dave Kawula
Principal Consultant, TriCon Elite Consulting
With over 18 years' experience in the IT Industry Dave has run 2 other IT Services organizations before starting TriCon Elite Consulting. In April of 2012 he was honored with a special designation from Microsoft called Most Valuable Professional “MVP” in Hyper-V. This special designation sees him being part of an elite group of 75 others in the world. He also holds over 50 Microsoft Certifications in various technology areas.

Dave has successfully completed over 40 projects with his teams in the past 5 years alone. Many of these projects come as repeat business from the same clients over and over again. Dave is also an upstanding member of the community and believes in “Working Hard, Playing Hard over again. Dave is also an upstanding member of the community and believes in “Working Hard, Playing Hard

Sami Laiho
Senior Technical Fellow, Adminize.com
Sami Laiho is one of the world’s leading professionals in the Windows OS. Sami has been working with and teaching OS troubleshooting, management and security for 20 years. Sami’s session was evaluated as the best session at TechEd Europe and TechEd North America 2014.

Carl Luberti
Sr. Software/Firmware Engineer, Surface Team, Microsoft
Carl has more than 20 years’ experience working in the IT industry, supporting small business startups to Fortune 500+ environments. His current area of specialization includes working as a software and firmware engineer at Microsoft in the commercial section of the Surface organization, and previous experience at Microsoft (and before) include experience in Windows and application virtualization and deployment, Windows and application performance tuning and analysis on Windows, virtualization on Hyper-V and other platforms, Virtual Desktop Infrastructure configuration and testing, and datacenter and enterprise management with System Center products.

Bruce Mackenzie-Low
Master Consultant
Bruce Mackenzie-Low has worked in the IT industry for over 30 years—from Digital Equipment Corporation, to Compaq, to HP, and most recently Hewlett Packard Enterprise. He specializes in the Windows internals including crash dump analysis, performance monitoring and failover cluster troubleshooting. Throughout his career, Bruce has enjoyed teaching leaving his audience inspired and enthused about technology.

Aaron Margosis
Principal Consultant, Global Cybersecurity Practice, Microsoft
Aaron Margosis is a Windows nerd, focusing primarily on cybersecurity. A frequent presenter, he is co-author with Mark Russinovich of Troubleshooting with the Windows Sysinternals Tools (MS Press, 2016), co-author of Microsoft’s “Mitigating Pass-the-Hash (PtH) Attacks and Other Credential Theft Techniques,” and a primary member of the team that builds Microsoft’s security configuration guidance. He has published a number of useful tools over the years, including MakeMeAdmin, LUA Buglight, IE Zone Analyzer, LGPO (Local Group Policy Object utility), Policy Analyzer, and “AaronLocker.” Aaron joined Microsoft Services in 1999, where he works with security-conscious customers.

Thomas Maurer
Cloud Advocate, Microsoft
Thomas works as a Cloud Advocate at Microsoft. He engages with the community and customers around the world to share his knowledge and collect feedback to improve the Azure cloud platform. Prior joining the Azure engineering team, Thomas was a Lead Architect and Microsoft MVP, to help architect, implement and promote Microsoft cloud technology.

If you want to know more about Thomas, check out his blog: www.thomasmaurer.ch and Twitter: www.twitter.com/thomasmaurer

Mike Nelson
Cloud Architect, Microsoft MVP, Azure Advisor, Citrix CTP, VMware vExpert
Mike’s career in information technology spans over three decades, involving a vast array of technologies and solutions. I am very passionate about cutting edge technology, solutions, and knowledge sharing. Mike has been awarded prestigious community contribution awards such as a Microsoft MVP for Cloud and Datacenter Management, a Microsoft Azure Advisor, a Citrix Technology Professional, and a VMware vExpert and VMware User Group Leader. He is an international speaker at technical conferences, corporations, and at various user groups.

Michael Niehaus
Principal Program Manager, Microsoft
After a few years in product marketing talking about Windows deployment and Windows as a service topics, Michael Niehaus has moved back to the technical side of the house, working as a principal program manager on the modern deployment team, responsible for Windows AutoPilot and related technologies. Previously, Michael was a longtime program manager and developer for the Microsoft Deployment Toolkit, having joined Microsoft in 2004 after spending 14 years working in enterprise IT.
Aleksandar Nikolic
PowerShell Magazine

Aleksandar Nikolic is a Cloud and Datacenter Management MVP, a Microsoft Azure MVP, a co-founder of PowerShellMagazine.com, and a community manager of PowerShell.com. Aleksandar is also a Microsoft Azure Advisor with more than 18 years of experience as a system administrator. He also delivers Azure and PowerShell training courses around the world and is a frequent speaker at IT conferences such as Microsoft Ignite, MS TechDays, and PowerShell Conference Europe.

You can find him on Twitter (https://twitter.com/alexandair) and LinkedIn (http://www.linkedin.com/in/alexandair).

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

During his 20+ years in the IT industry, John has enjoyed the opportunity to work as a consultant, architect, executive, speaker, and author. He’s been involved in multi-national networking, messaging, and communications projects as well as finding solutions for small mom and pop shops allowing them to use technology to increase business opportunity and decrease operational complexity.

John is a contributing editor for the Petri.co.il online community. In addition, he has authored material for both Thomson-Reuters’ Aspatore Books and Exec Blueprints publications. He also develops exciting technology training courses for the leader in IT training, Pluralsight.

John often speaks at IT events around the nation. Recently he has been a featured presenter on innovative technology solutions for the enterprise at conferences such as TechMentor, Livel 360, the NEOSA CIO Summit, and the NorthEast Ohio Technology Summit. When he’s not presenting at a conference, John can often be found leading informative webinars.

Thomas Rayner
Sr Security Service Engineer, Microsoft

Thomas Rayner is a Senior Security Service Engineer at Microsoft with many years of experience in IT. He is a master technologist, specializing in DevOps, systems and process automation, public, private and hybrid cloud, security and .NET coding. Thomas is a former 4x Microsoft MVP, Honorary Scripting Guy, an international speaker, best-selling author, and instructor covering a vast array of IT topics.

Haley Rowland
Program Manager, Windows Server Management Experience Team, Microsoft

Haley Rowland is a Program Manager on the Windows Server Management Experience team. She brings her passion for creating delightful and intuitive user interfaces to her work on Windows Admin Center.

Jan Ketil Skanke
MVP Enterprise Mobility, COO and Principal Cloud Architect, CloudWay AS Norway

Jan Ketil is an Enterprise Mobility MVP since 2016 and is the COO and Principal Cloud Architect at CloudWay AS in Norway. He has been in the industry for about 20 years working for both Microsoft Partners and Microsoft. He loves to speak about anything around Enterprise Mobility and Secure Productivity. He is also the lead for the community conference Experts Live Norway. Jan Ketil has presented at large industry conferences like Microsoft Ignite, Microsoft Inspire, Experts Live Europe, IT/DevConnections and NIC Conference in Oslo. He has also previously spoken at several occasions locally in Scandinavia for years.

Orin Thomas
Principal Cloud Operations Advocate, Microsoft

Orin Thomas is Principal Cloud Operations Advocate at Microsoft, is an MCT, and has a string of Microsoft MCSE and MCITP certifications. He has written more than 3 dozen books for Microsoft Press on topics including Windows Server, Windows Client, Azure, System Center, Exchange Server, Security, and SQL Server. He is an author at PluralSight and is a candidate in the Doctor of Information Technology program at Charles Sturt University. You can follow him on twitter at http://twitter.com/orinthomas.

Jeff Woolsey
Principal Program Manager, Microsoft

Jeff Woolsey is a Principal Program Manager at Microsoft for Windows Server and a leading expert on Virtualization, Private and Hybrid Cloud. Jeff has worked on virtualization and server technology for over eighteen years. He plays a leading role in the Windows Server Engineering team, helping to shape the design requirements for Windows Server 2019, 2016, 2012 / R2, 2008 R2, Microsoft Hyper-V Server 2019, 2016, 2012/R2, 2008 R2, System Center 2012 / R2, and Windows Admin Center. Jeff is an authority on ways customers can benefit from virtualization, management, and cloud computing across public, private, and hybrid environments.

Jeff is a sought-after hybrid cloud expert presenting in numerous keynotes and conferences worldwide with Bill Gates, Steve Ballmer, & Satya Nadella.

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— Ronald Best, City of Johns Creek
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— Nathan Brown, Texas A&M University

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TRAVEL
The Hyatt Regency Bellevue is just over 17 miles from the Seattle-Tacoma International Airport (Airport Code: SEA), and ~22 miles from the Microsoft Conference Center. Avis Rent-a-Car is offering a discount on car rental for TechMentor attendees. To receive the discounted rates, call Avis at 800.331.1600 and use the Avis Worldwide Discount (AWD) number D005872, or click here to make your reservation online.

SHUTTLE SERVICE TO AND FROM THE MICROSOFT CAMPUS
TechMentor will be providing daily complimentary shuttle transportation between the Hyatt Regency Bellevue and the Microsoft Campus. This shuttle service will be available to all attendees with a valid conference badge.

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Area hotels do not provide airport transportation, but there are several options:

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<tr>
<td>4 DAY CONFERENCE PACKAGE</td>
<td>$1,995 $2,095 $2,395</td>
<td>$2,095 $2,195 $2,395</td>
<td>$2,395 $2,595 $2,795</td>
</tr>
<tr>
<td>+ Workshops</td>
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<tr>
<td>TUESDAY - FRIDAY</td>
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<tr>
<td>3 DAY CONFERENCE PACKAGE</td>
<td>$1,595 $1,695 $1,995</td>
<td>$1,695 $1,795 $2,095</td>
<td>$1,995 $2,095 $2,395</td>
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<tr>
<td>TUESDAY - THURSDAY</td>
<td></td>
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<tr>
<td>FULL DAY HANDS-ON LAB</td>
<td>$595 $645 $695</td>
<td>$645 $695 $745</td>
<td>$695 $745 $795</td>
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<tr>
<td>MONDAY ONLY</td>
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</tbody>
</table>

ADD THE HOTEL PACKAGE AT THE HYATT REGENCY BELLEVUE

<table>
<thead>
<tr>
<th>HOTEL PACKAGES</th>
<th>5 DAY HOTEL PACKAGE</th>
<th>4 DAY HOTEL PACKAGE</th>
<th>3 DAY HOTEL PACKAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$1,300</td>
<td>$1,050</td>
<td>$800</td>
</tr>
<tr>
<td>Check In: Sunday, August 4</td>
<td>Check Out: Friday, August 9</td>
<td>Check In: Monday, August 5</td>
<td>Check Out: Thursday, August 8</td>
</tr>
</tbody>
</table>

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TechMentor 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 Claire Segerson at csegerson@converge360.com or at 949.296.9840.

### TEAM PACKAGES

<table>
<thead>
<tr>
<th></th>
<th>SUPER EARLY BIRD</th>
<th>EARLY BIRD</th>
<th>STANDARD</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>5 DAY CONFERENCE PACKAGE</strong></td>
<td>Until June 7</td>
<td>Until July 12</td>
<td>Until August 5</td>
</tr>
<tr>
<td>+ Full Day Hands-On Lab and Workshops</td>
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<tr>
<td>MONDAY - FRIDAY</td>
<td>$2,195</td>
<td>$2,295</td>
<td>$2,595</td>
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<tr>
<td><strong>4 DAY CONFERENCE PACKAGE</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>+ Workshop</td>
<td>$1,695</td>
<td>$1,795</td>
<td>$2,095</td>
</tr>
<tr>
<td>TUESDAY - FRIDAY</td>
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</tbody>
</table>

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"THIS WAS MY FIRST TECHMENTOR AND IT EXCEEDED MY EXPECTATIONS. EXCELLENT SPEAKERS; GREAT FACILITY; GREAT HOTEL RATES AND TRANSPORTATION."

— Thien Nguyen, APEGA