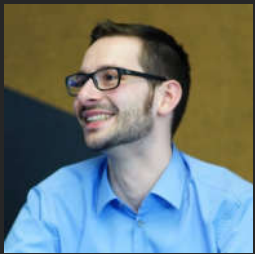


Microsoft Azure Ignite Recap meets Azure Meetups Germany

Speaker und Themen



Thomas Naunheim
Azure Identity News
<https://www.cloud-architekt.net/>



Eric Berg
Azure I/PaaS News
<https://ericberg.de/>



Daniel Neumann
Azure Container News
<https://www.danielstechblog.io/>





Gregor Reimling
Azure IaaS News
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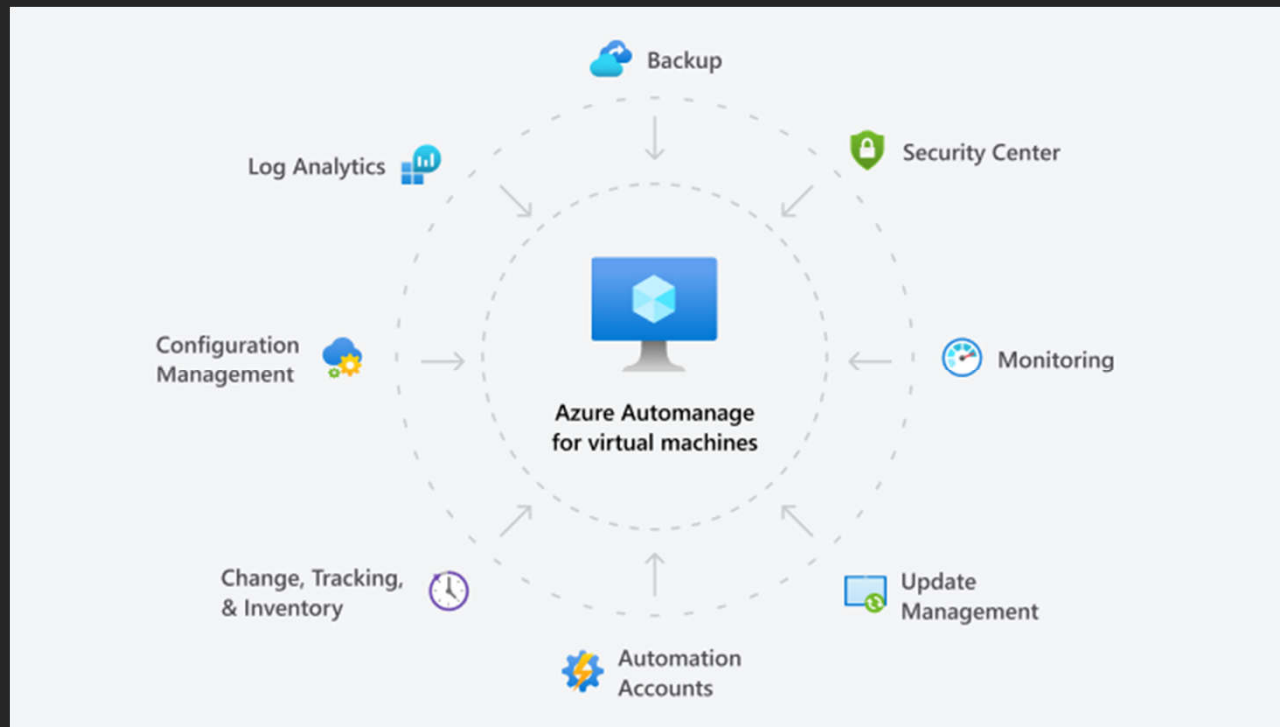
Thomas Naunheim

Azure Identity News

New Azure VMs / features

- Intel Cascade Lake CPUs GA
 - Available in M-series and SAP HANA-series
 - Available in Dv4, Dsv4, Ev4, Esv4 and Fsv2-series
- Azure Spot VMs
 - Price history for 28 days
 - Estimate eviction probability
 - Estimate cost better

Azure Automanage

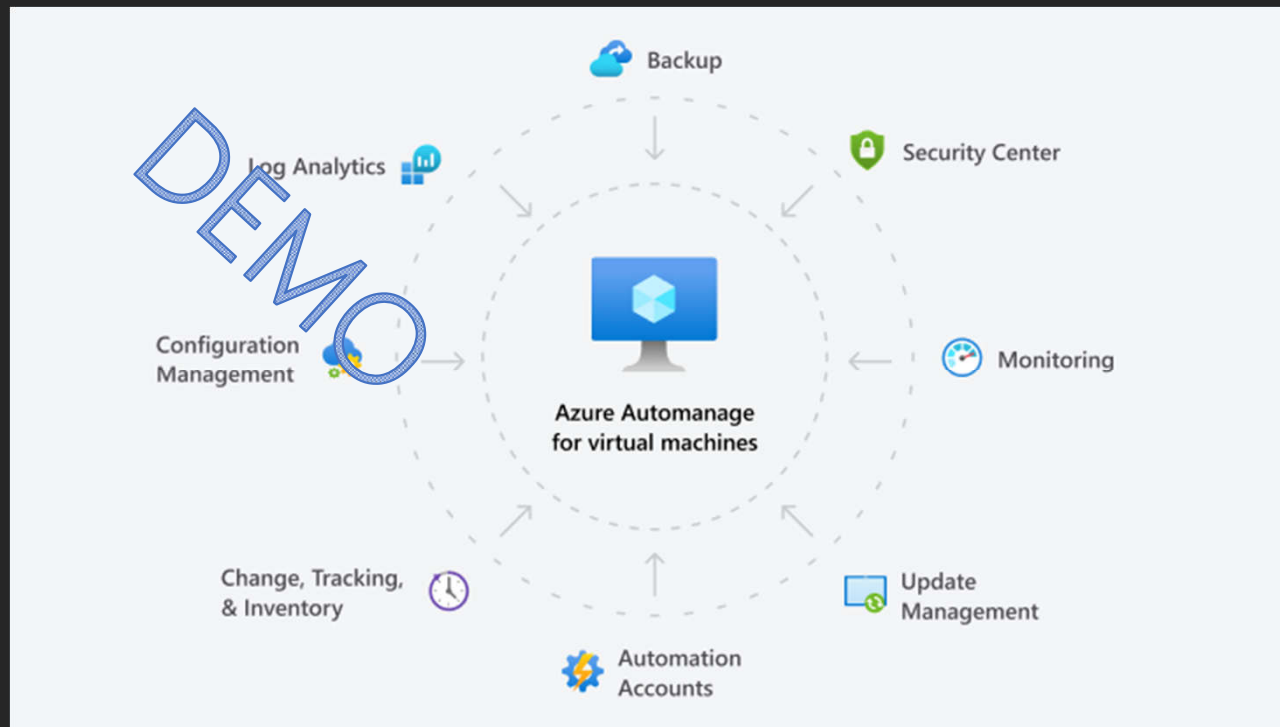


<https://azure.microsoft.com/en-us/services/azure-automanage/>

Azure Automanage

- Currently available for Windows VMs
- In Public Preview (free of charge)
- Automating Azure VMs tasks
 - Enabling and Configure Azure Backup
 - Enable Azure Monitor
 - Enable Security Center
- Preview only available in some regions
- Enabling via Azure Policy

Azure Automanage



<https://azure.microsoft.com/en-us/services/azure-automanage/>

Azure Advisor Score

- New Measurement option of Azure Advisor
- Based on Best Practice recommendation from Microsoft
- Recommendations for five categories
 - Reliability
 - Security
 - Performance
 - Cost
 - Operational Excellence
- Allow notifications for new recommendations

<https://azure.microsoft.com/de-de/updates/azure-advisor-score-is-now-in-preview/>

Azure Arc going GA

- Extend Azure Management to any infrastructure
- GA for Servers since Ignite
 - Pricing free for Server integrating
 - Monthly fee when use the Azure Policy Guest configuration (6\$ per Server)
- For Kubernetes and Data service still in preview

<https://azure.microsoft.com/en-us/services/azure-arc/>

Azure Backup

- New Backup Vault not the same as Recovery Service Vault
 - Only for new Azure Backup capabilities (for example: Postgre SQL)
- Backup Center
 - Central view about Backups Tenant wide
 - Can integrate Light-house for Multi- Tenant management

Azure Communication Service in Public Preview

- Easy way to add Voice capabilities to existing Apps
- APIs for Phone, SMS, Voice and Video and Group meetings and Chat
- Based on the Azure infrastructure

<https://azure.microsoft.com/en-us/services/communication-services/>

New Azure Stack Edge Devices



Azure Stack Edge Pro with GPU

- 1U rack-mountable appliance, optimized for conditions inside a data center or branch location. Now available with 1 or 2 NVIDIA Tensor Core T4 GPUs.

Azure Stack Edge Pro R

- Ruggedized datacenter-grade appliance with an included NVIDIA Tensor Core T4 GPU, enclosed in a portable transit case designed for operation in harsh environments and remote locations. Optional Uninterruptable Power Supply (UPS) also available.

Azure Stack Edge Mini R

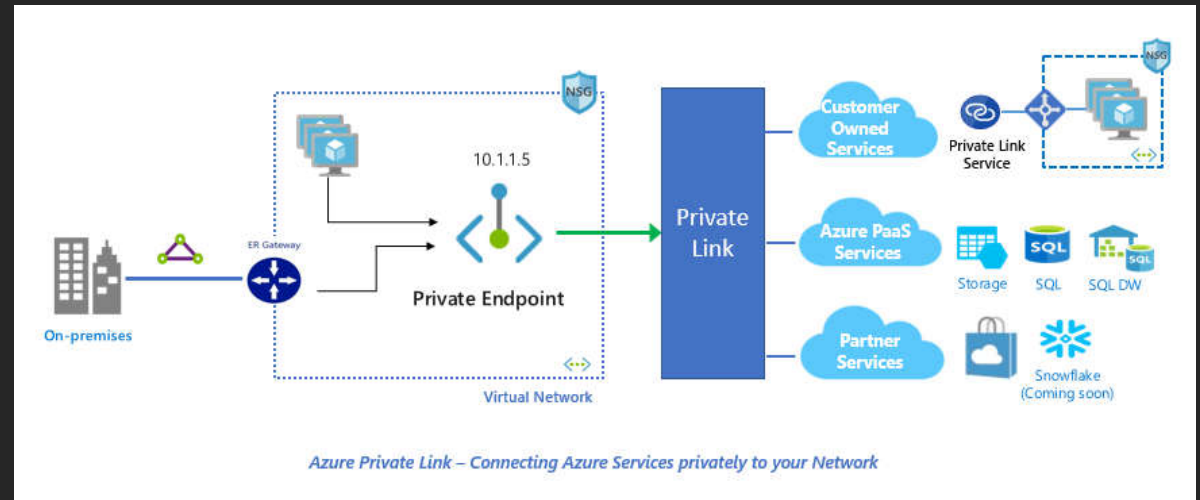
- Ultra-portable, ruggedized, battery-powered appliance that packs enterprise-class capabilities a device that can be carried in a backpack. Includes a built-in Intel VPU for accelerated machine learning.

Windows Admin Center

- New Version (2009) available
- Now available inside the Azure Portal (Public preview)
- New look
- Supports more services on Azure Stack
- More Partner extensions available

<https://techcommunity.microsoft.com/t5/windows-admin-center-blog/windows-admin-center-version-2009-is-now-generally-available/ba-p/1696665>

Azure Private Link



- GA since June 2020
- Securing PaaS solutions in Azure by
- Enable a private IP Address for each PaaS Service
- Can be combined with internal DNS solutions

Azure SQL Edge

- SQL Edge is GA
- Running on Edge for IoT devices
- Can run on ARM or x64 based devices
- Can analyze Time Series, JSON, Graph and Relational data

<https://azure.microsoft.com/en-us/services/sql-edge/#features>

Azure Security Center Updates

- ASC get's a new look
- Azure Defender released
 - Azure defender is a new name for Azure Security Center Standard
 - ASC preview for integrating AWS and GCP
 - Supports On-Prem services such as SQL Server

Microsoft Security Rebranding

- Microsoft Threat Protection is now Microsoft 365 Defender
 - Microsoft Defender Advanced Threat Protection is now Microsoft Defender for Endpoint
 - Office 365 Advanced Threat Protection is now Microsoft Defender for Office 365
 - Azure Advanced Threat Protection is now Microsoft Defender for Identity
 - Azure Security Center's cloud workload protection features are now Azure Defender

More Azure announcements

- Azure Cosmos DB now offers a serverless option
- Azure Migrate has new features for easier Migration
- Microsoft Cloud for healthcare GA at the End of October
- VNET Peering for Azure Bastion coming (again)

and more from Eric...

Eric Berg

Azure Resource Mover

- Central service to move Azure resources between regions
- Available in any public region
- Identify dependencies across resources
- Currently available for
 - VMs, Availability Sets, VNETs, NSGs, Load Balancer, SQL DBs, Elastic Pools & RGs
- Automatic cleanup of resources in source region
- Test available

Azure VMware

- New Azure VMware solution now GA
- Extend existing VMware solution to Azure or migrate them
- Fully integrated in the Azure Portal
- vSphere, HCX, NSX-T und vSAN and more fully available
- Integrate Azure Security Center and more into existing VMware environments

Azure Dedicated Host

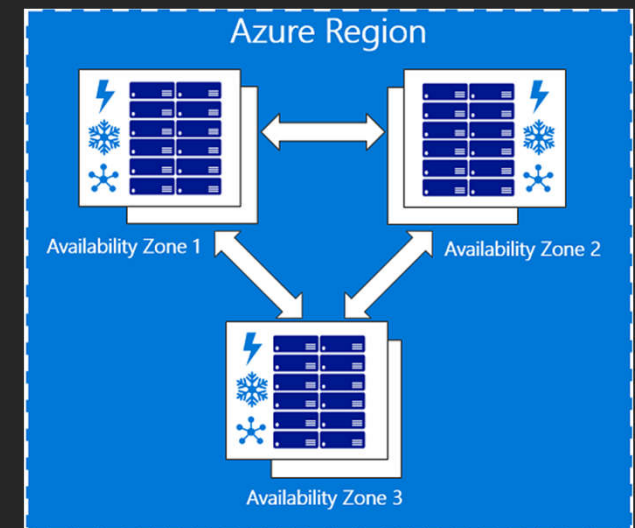
- Physical Servers in Azure to host Azure VMs
- New features
 - Schedule host maintenance
 - Schedule guest OS updates
 - Support for VMSS

Zone to Zone DR

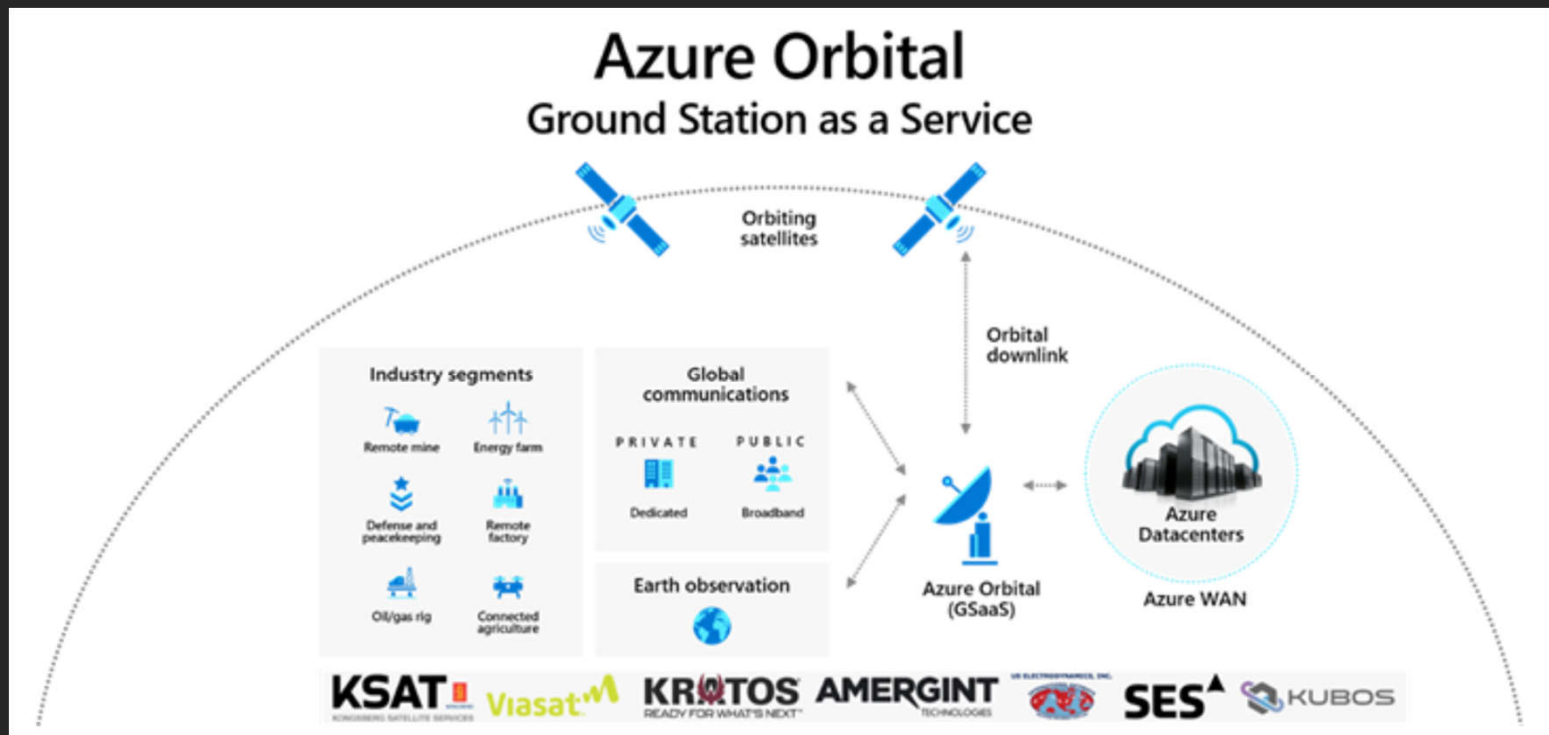
- Azure Site Recovery in Region
- Cross-Zone Replikation
- Currently only Southeast Asia and UK South
- Solution to overcome
 - Regulatory issues (leaving country ...)
 - Complex network designs (same region - same network)
 - RPO issues ... lower distance = lower latency = lower RPO

More Azure announcements

- Availability Zones is a HA solution that protects your applications from datacenter failures
- Now also enabled in Canada Central and Australia East
- Goal to have AZs in all countries in next 24 months



Azure Orbital (Preview)



Azure AI News

- Metrics Advisor (Preview)
 - proactively monitors metrics and diagnoses issues
 - Plugs into time-series
 - Root-cause analysis
 - Uses anomaly detector
- Anomaly Detector (GA)
 - Finds anomaly in time-series
 - Auto-select algorithms
 - REST API based

Azure AI News

- Spatial Analysis
 - Count people in room
 - Measure distance
 - Determine wait times
- Voice
 - Text to speech customizations
 - New voice models
 - Narration capabilities

Azure AI News

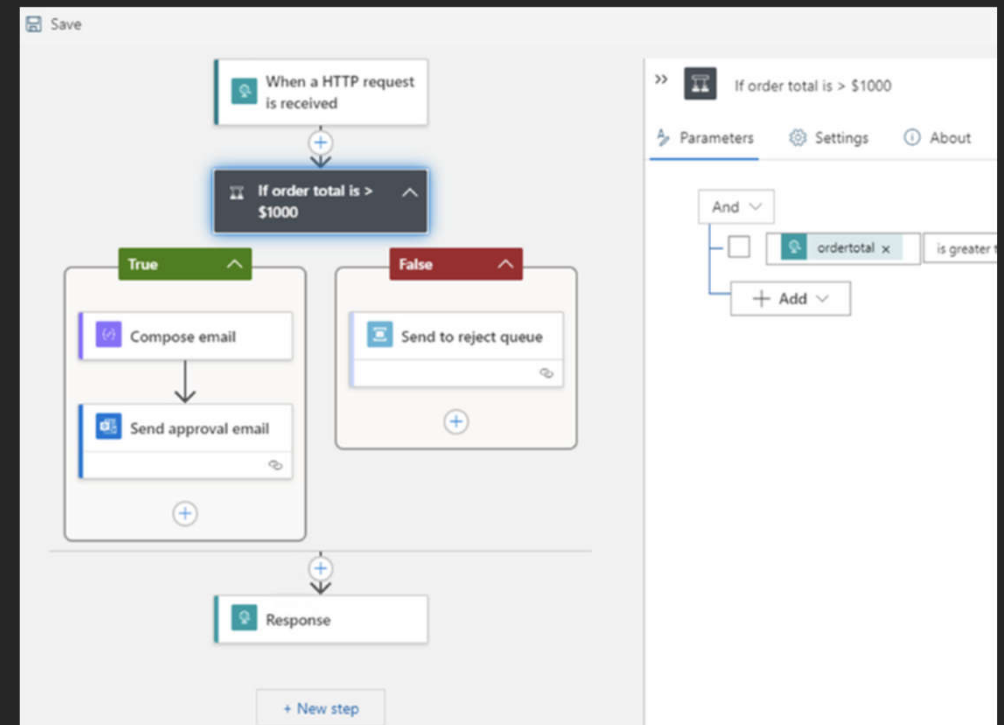
- Bot Framework Composer
- Azure Bot Service Alexa-Channel

Azure App Service News

- App Service Reserved Instance is available
- Dev/Test pricing for App Service Premium
- App Service Premium V3 – 20% off compared to V2
- Windows Containers GA in V3
- Isolated V2 – simplified, secured, no per-instance stamp fee

Azure Logic Apps News

- VSCode Integration with local dev feature
- Logic App runs where Azure Function runs
 - Container / Kubernetes
 - AKS, WebApp
- New UI



Azure Datadog integration

- Datadog = Cloud Monitoring Solution
- Datadog SaaS on Azure expected in Oct
- Available in Azure Marketplace
- Azure = 1st with integrated offer
- Fully managed setup – no infra requirement

<https://docs.microsoft.com/en-us/azure/azure-monitor/platform/partners#datadog>



Daniel Neumann

Azure Container News

Azure Kubernetes Service GA features

- Azure Policy for AKS
- Support for new base image Ubuntu 18.04
- Mutate default storage class feature
- Node auto-repair for Windows Server containers

Azure Kubernetes Service preview features

- Support for Kubernetes 1.19
- Azure RBAC for Kubernetes authorization
- AKS start/stop cluster feature
- VS Code AKS extension diagnostics and periscope

Azure Kubernetes Service preview features

- AKS Diagnostics support for Windows Server containers
- Confidential computing nodes (DCSv2) support
- Azure Kubernetes Service on Azure Stack HCI

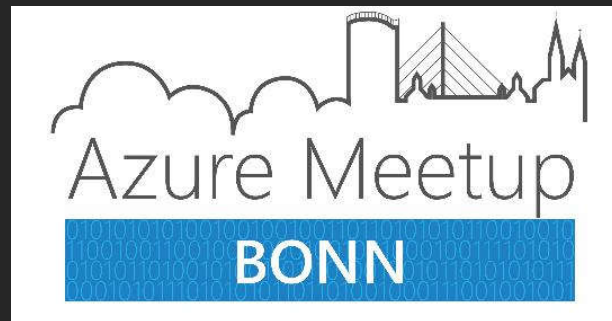
Azure Container Registry – new regions

- US Gov Texas
- Germany West Central
- Brazil Southeast

MS Ignite Recap - Links

- MS Ignite 2020 – Book of News
 - <https://news.microsoft.com/ignite-2020-book-of-news/>
- What is Azure Private Link
 - <https://docs.microsoft.com/en-us/azure/private-link/private-link-overview>
- Azure Automanage
 - <https://azure.microsoft.com/en-us/services/azure-automanage>
- Azure Advisore Score
 - <https://azure.microsoft.com/de-de/updates/azure-advisor-score-is-now-in-preview/>
- Azure Security Centers News (Sep. 2020)
 - <https://azure.microsoft.com/en-us/updates/asc-september2020/>
- Azure Backup News
 - <https://azure.microsoft.com/en-us/blog/whats-new-in-azure-backup/>
- Azure Backup Center
 - <https://docs.microsoft.com/en-us/azure/backup/backup-center-overview>
- Azure Private Link
 - <https://www.reimling.eu/2020/06/connect-and-secure-azure-paas-services-to-virtual-networks-with-private-link/#Links>
- Azure Communication Services
 - <https://azure.microsoft.com/en-us/blog/build-rich-communication-experiences-at-scale-with-azure-communication-services/>

Q&A



Thank you



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