

Microsoft Azure Ignite Recap meets Azure Meetups Germany

#AzureBonn - Sponsoren



Vielen Dank!

#Azure Bonn – Event Tipps

- 16.11.21 – AMS Germany
 - <https://ams.community/ams-germany-16-11-2021/>
- 25.11.21 Windows Server User Group – WS Container | Azure File Sync
 - [WSUG Meetup Q4 2021 | Meetup](#)
- 07.12. Azure Developer Days (Hybrid Event)
 - [Azure Developer Community Day 2021 – 07.12.2021 – Your Azure Developer community #azdevcom](#)

<https://www.microsoft.com/de-de/techwiese/events/default.aspx>



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Cloud Inspires Podcast

by Gregor Reimling
and Thomas Naunheim



www.cloudinspires.me

AzureBonn News

- Ihr möchtet gern selbst als Speaker teilnehmen?
 - [Azure Bonn Session Umfrage](#)
 - <https://bit.ly/2UPQPGj>



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Weihnachts Meetup (14.12.2021)

- Vorträge aus der Mottenkiste
- Suchen Sprecher, die etwa 10 bis 15 Minuten Auszüge aus Sessions zu Microsoft Technologien halten die min. 10 Jahre alt sind
- Wer von euch Bock hat, postet kurz euren Namen in den Chat
- Für jeden Sprecher gibt es ein kleines Weihnachtspräsent

Speaker und Themen



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



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



Marcel Meurer
AVD News
[Home | ITProCloud Blog](#)



Gregor Reimling
Azure IaaS News
<https://www.reimling.eu>



Agenda



18:30 Uhr – Begrüßung



18:45 – Thomas Naunheim – Azure AD



19:20 – Gregor Reimling – IaaS



20:00 – Eric Berg – PaaS and AI



20:30 – Marcel Meurer – AVD

Azure Identity News

Thomas Naunheim

Azure IaaS News


Gregor Reimling

Gregor Reimling

 Cloud Consultant @adesso SE

 Cloud and Datacenter, Governance

 Azure Infrastructure (Governance, IaaS, Security)

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www.AzureBonn.de

Azure Infa

- GA of Dv5 and Ev5 VMs
 - 15% more performance and up to 96 vCPUs
- GA of Dasv5 and Easv5 VMs
 - Based on 3rd generation of AMD Epyc 7763v
- Preview of Ebs v5 VMs
 - New memory optimized VM
 - 120000 IOPS and 4GB/sec of remote storage throughput
- Preview of DCsv3 and DCdsv3 (Confidential Computing)
 - Support for Intel Software Guard Extension and Total Memory Encryption

Azure VM Selector

Virtual machines selector

Find the right VMs for your needs and budget



Ready when you are—let's find your VMs

Find VMs by workload type

Select your workload and requirements.

[Start here >](#)

Find VMs by OS and software

Select the operating system and software that you'd like to run on the VM.

[Start here >](#)

Find VMs by deployment region

Select the region where you'd like to deploy the VM.

[Start here >](#)

<https://azure.microsoft.com/en-us/pricing/vm-selector/>

Updates and maintenance

- Automatic VM guest patching
 - Linux VMs | Windows VMs | Flexible scale sets
 - Critical and/or security patches are automatically downloaded and applied
 - Patches will installed on low workload periods
 - Work for ALL VM sizes | Will automatically restarted
- Hotpatch for new VMs (preview)
 - Only supported on Windows Server Azure edition
 - Do not require a reboot after patch installation
 - Support SMB over QUIC faster, reliabler TCP alternative



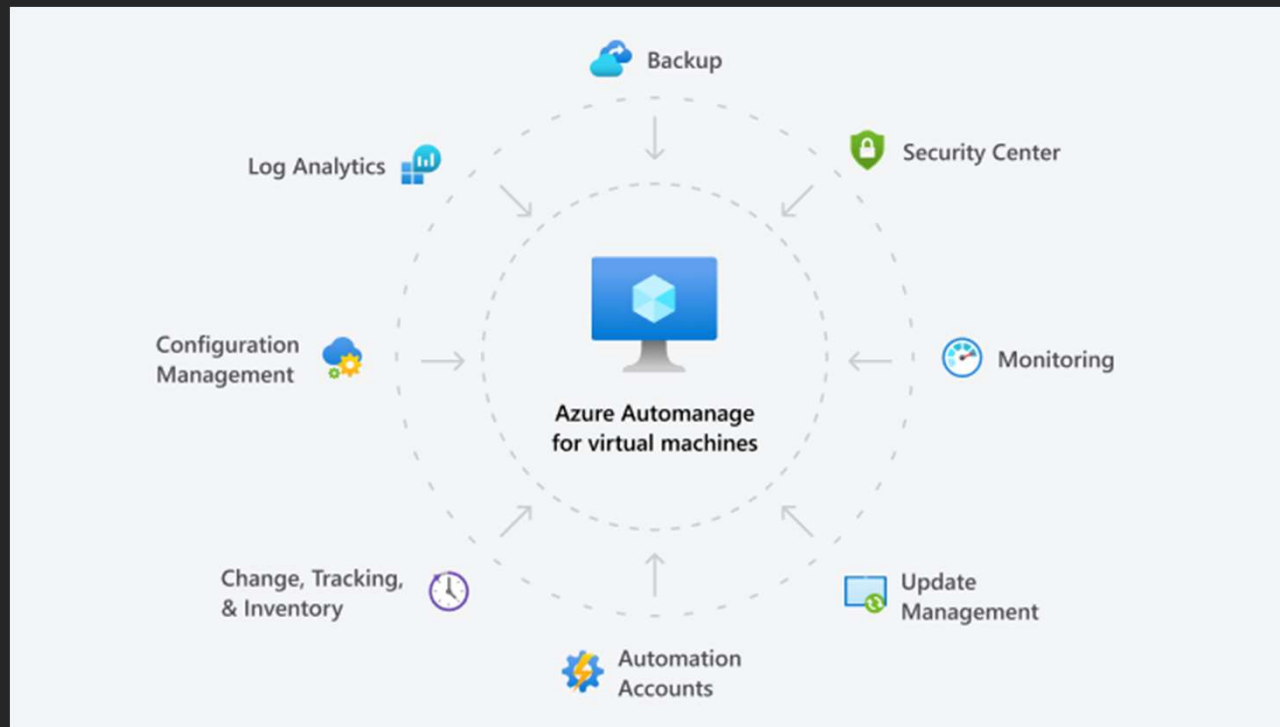
[smalldisk] Windows Server 2022 Datacenter:
Azure Edition - Gen 2

Windows Server 2022 Datacenter: Azure Edition -
Gen 2

Windows Server 2022 Datacenter: Azure Edition
Core - Gen 2

[smalldisk] Windows Server 2022 Datacenter:
Azure Edition Core - Gen 2

Azure Automanage



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

Azure Automanage



- Custom configuration profiles for Windows and Linux
 - Self service select of needed Azure services
- Support for Azure Arc enabled servers
 - Enable the Automanage for On-Prem and Multicloud VMs
- Hotpatch for Windows Servers
- SMB over QUIC (secure access remote filesystems without VPN)
- Extended Network for Azure: preserve IPs when migrating

Azure VMSS

- Change VM sizes without redeploying
- Mix Spot and PayG VMs in same VMSS
- Automatically scale based on metrics, schedule or AI predictions

Azure Storage

- Disk busting for Premium SSD is GA

Azure Networking

- Azure Virtual Network Manager in preview
 - Consistent Network experience accross subscriptions
- Azure Network function manager
- Express Route
 - IPv6 support for private peering GA
 - FastPath for improved data path performance
- Azure Bastion has now two SKUs (Standard SKU are GA)
- App Gateway WAF get a better engine

Azure Migration – New areas

- Security guidance with Microsoft Defender for Cloud
- Guidance for Arc enrollment
- Supports Red Hat OpenShift
- Supports SAP migration

Azure Monitor

- Open telemetry support in Application insights
- Enhanced troubleshooting for Azure Firewall and VPN Gateway
- EventHub integration for network isolation

Azure Data News

- SQL Server 2022 is GA
 - Deep Integration in Azure Services
 - SQL MI Disaster Recovery Options
 - Supports now direct connectivity with SQL Managed Instance
- SQL Managed Instance
 - New Hardware (Ice Lake support)
 - For disaster recovery and migration scenarios
 - More performance: Ice Lake support and up to 16TB RAM

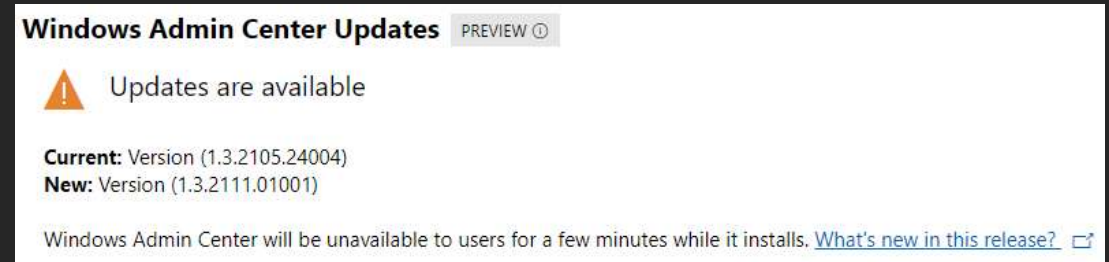


Microsoft Defender

- Microsoft Defender for Cloud
 - Formerly known as Azure Security Center
 - Now supports native support for Multicloud environments
- Microsoft Defender P1 now included in Microsoft 365 E3
- Microsoft Defender for Business
 - New endpoint solution for organizations up to 300 employees

Windows Admin Center

- New Version (2110) is GA
- Now available inside the Azure Portal
- Now support for
 - Windows Server 2022
 - Windows 11
 - Azure Stack HCI 21H2
- More Partner extensions available



<https://techcommunity.microsoft.com/t5/windows-admin-center-blog/windows-admin-center-version-2110-is-now-generally-available/ba-p/2911579#.YYFZh7a9CU.twitter>

Azure Hybrid

- New Azure Stack HCI features
 - GPU support for AI/ML
 - New sizing tool for IT Pros
 - AVD support in preview
- Azure Arc
 - Native integration in Azure Stack HCI
 - Enhanced integration with Vmware
 - VM management from the Azure Portal
 - Connects ML models in On-Prem and Multi Cloud environments

Azure PaaS News

Eric Berg

Eric Berg



Vice President Consulting Expert @CGI



Microsoft Azure | Cloud and Datacenter Management



Cloud Management, Cloud Governance



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Azure AI

- Azure Cognitive Search – Semantic Search
 - Introduced in march
 - Extracting semanti answers from search results
 - Contextual ranking of results
 - 50+ supported languages (many in preview)
- Text Analytics + QnA Maker + LUIS → Azure Cognitive Service for Language
 - Unified service
 - Including Language Studio

Azure AI - continued

- Commitment Tier pricing for Cognitive Services
 - Pre-pay and receive rebates
 - Not available for all customers – needs online form application:
<https://aka.ms/csgatecommitment>
- Azure OpenAI Service
 - Azure implementation of OpenAI GPT-3 service
 - GPT-3 language prediction and creation of human-like text
 - Benefits: security, compliance, scale
 - Invite only Service

Azure Data

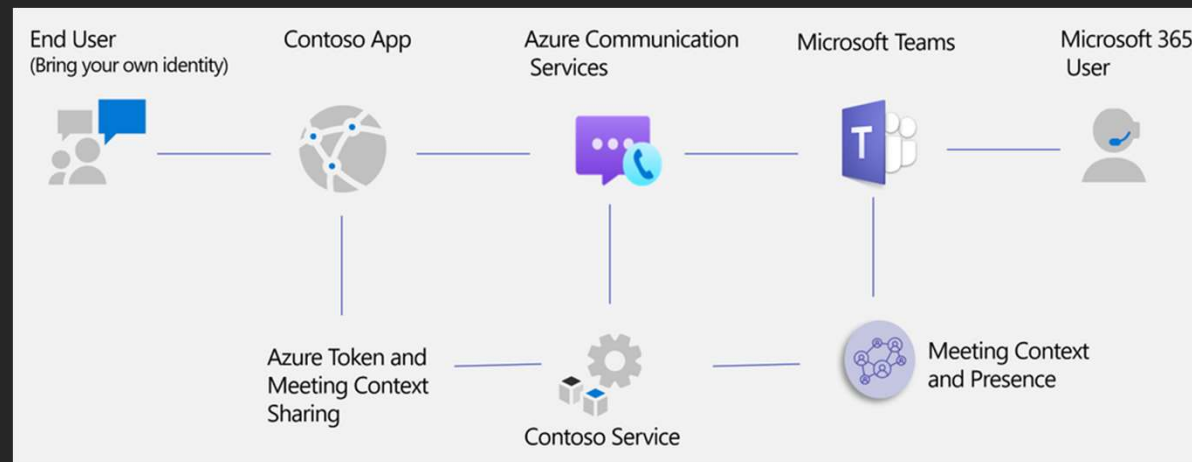
- Cosmos DB – Cost Control
 - Set throughput limit on cosmos DB account
 - Prevent over-usage
 - Cost-alerts in Azure Advisor
- Cosmos DB – Partial Document update
 - Path-level updates to fields / properties of a document
 - Prevent read-replace
 - Cost savings
- Azure Managed Instance for Apache Cassandra - GA

Azure Data - continued

- Flexible Server for MySQL and PostgreSQL – GA
 - Single Server and Flexible Server Deployment option
 - Same-zone or zone-redundant HA
 - More control about DB settings
 - Better scalability and cost control
 - VNET Integration option

Azure Dev & Ecosystem

- Azure Communication Services – SMS
 - Short code numbers (4-5 digit)
 - Up to 12k messages / minute
- Azure Communication Services – Teams (GA Dec)



Azure Dev & Ecosystem - continued

- Azure Container Apps – Preview
 - Fully managed container platform
 - For HTTP or event based Apps
 - No management of VMs and Management Infra
 - Background Technology:
 - AKS
 - Dapr
 - KEDA
 - Envoy

Azure Dev & Ecosystem - continued

- Azure Logic Apps (Previews)
 - Preview of disconnected Logic Apps running with Azure Arc enabled SQL
 - VNET enabled connectors like SFTP
 - Automation tasks for Event Hub and Service Bus BCDR
 - Managed Identity Support (GA)
- Logic App Resource Types
 - Logic App (Consumption) → Multi-Tenant or ISE
 - Logic App (Standard) → Single-Tenant or ASEv3 or Azure Arc enabled

Azure Dev & Ecosystem - continued

- DevOps Workflow Generator
 - <https://aka.ms/workflowgenerator>
 - Visualize DevOps toolchain
 - Get recommendations for optimization
- GitHub Actions

Habt ihr schon von Thomas gehört 😊

Azure Dev & Ecosystem - continued

- Azure API management
 - Integration with Event Grid is GA
 - GraphQL passthrough support in preview
 - Native Support for WebSocket APIs GA

Azure Resilience

- Azure Chaos Studio
 - Disrupt apps intentionally to identify gaps
 - Plan mitigations upfront
 - Experiment library of agent and service-based faults



Links

MS Ignite Recap - Links

- MS Ignite 2021 H2 – Book of News
 - <https://news.microsoft.com/ignite-november-2021-book-of-news//>
- Azure Automanage
 - <https://azure.microsoft.com/en-us/services/azure-automanage>
- Microsoft Defender for Cloud (formerly Azure Security Center | Azure Defender)
 - <https://docs.microsoft.com/en-us/azure/security-center/defender-for-cloud-introduction/>
- Azure Security Centers Community
 - <https://techcommunity.microsoft.com/t5/security-compliance-and-identity/join-our-security-community/ba-p/927847/>
- Azure DCsv3 and DCdsv3
 - <https://docs.microsoft.com/en-us/azure/virtual-machines/dcv3-series>
- Automatic VM guest patching for Azure VMs
 - <https://docs.microsoft.com/en-us/azure/virtual-machines/automatic-vm-guest-patching>
- 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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