

Ignite 2019 Recap

Azure News

Gregor Reimling



Cloud Consultant @Sepago



Cloud and Datacenter, Governance



Azure, Windows Server and Azure File Sync



info@reimling.eu



@GregorReimling | @AzureBonn



www.reimling.eu | www.neutralien.com



Eric Berg



Global Subject Lead - Cloud Compute



Cloud, Datacenter and Management



Azure, AWS, VMware Cloud



info@ericberg.de



@ericberg_de | @GeekZeugs



www.ericberg.de | www.geekzeugs.de



Agenda

- „What happens in Orlando stays in Orlando“ – Behind the Scenes...
- Azure Infrastructure News
- Azure Apps News
- Azure Data & AI News
- Azure Security News
- More...
- Q&A

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Windows Admin Center 1910



Core management tools

1. Performance monitoring
2. Packet monitoring
3. Server Core management with Edge
4. Add Connections – Unified cluster connection, Add Azure VM
5. Improvements based on your feedback
 - BMC IP address, Azure VM portal link
 - Files – Editable paths, File share support
 - Connectivity setting
 - Pending reboot banner
 - [WinRM](#) over HTTPS
 - Updates – Individual updates
 - Power profile settings



Server role management

1. Hyper-V VM management
 - VM live migration
 - Import/export VM
 - VM tagging
2. Cluster management
 - Cluster deployment
 - Unified cluster connection
3. Azure Stack HCI management
 - S2D and cluster settings
 - HCI diagnostics tool
 - SDN – [FlowLog](#) Audit, Load balancer, Public IP tools
4. IIS, DNS, DHCP management
5. AD Users and Groups management



Built for hybrid

1. Azure Security Center integration
2. Azure Monitor – Alerting for servers and clusters
3. Azure Extended Networking
4. Storage Migration Service – Migrate file servers to Azure VMs
5. Azure File Sync – Sync a folder
6. Storage Replica – Create and use Azure VMs as secondary SR site
7. Azure Arc for Servers – Centralized governance via Azure Policy
8. Cloud witness – Use Azure as your quorum witness for 2-node clusters



Partner ecosystem

1. New server and Azure Stack HCI hardware management extensions from Dell EMC, HPE, NEC, [Thomas-Krenn](#)
2. Updated hardware management extensions from Lenovo, Fujitsu, [DataON](#), QCT, Pure Storage (flash array)
3. Software solution extensions from [BiitOps](#) (configuration change tracking) and Squared Up (monitoring)
4. Easy discovery + installation of extensions

Azure Compute News

- 48vCPUs for D-, E-, F-series
- AMD EPYC based 7452
- Da(s) v4 series
 - 2 to 96vCPUs, up to 384GB RAM,
 - Ultra Disk support coming
 - General purpose
- Ea(s) v4 series
 - 2 to 96vCPUs, up to 672GB RAM
 - Ultra Disk support coming
 - Memory intensive workloads
- Dedicated physical Host per customer (Compliance regulation)
- Native VMware infrastructure on Azure

Azure Compute News

- Azure HBv2 coming (36.000 Cores)
- Azure NDv2 public preview (feature 8 Nvidia Tesla V100)
- New supported, smaller Disk sizes in Azure (4, 8 and 16 GB) on Premium and Standard SSD

Azure Monitor

- Network insights and Traffic analytics
- For Containers – Hybrid Monitoring and GA for Prometheus
- Capacity-based pricing

Azure Stack

- Azure Stack → Azure Stack Hub
- S2D / HV → Azure Stack HCI
- Databox Edge → Azure Stack Edge
- Kubernetes support is coming
- WVD on Azure Stack Hub announced

More News

- IPv6 for Azure VNET GA
- ExpressRoute via Satellite
- Azure Firewall Manager
- Cost Management for CSP GA – Yeah

New Azure features



Proximity placement groups

Low latency among compute resources



New VMSS capabilities

Deploy VMs belonging to different VM series in same VMSS



Ephemeral OS Disks

Not persisted to Azure Storage
Manage thousands of VMs at scale with Shared Image Gallery
Ds-, Es-, Fs-, GS- and M- Series VM



Spot VMs

Capped prices (Pay up to the price you agree in advance)

Generation 2 Azure VMs GA



INTEL SOFTWARE
GUARD EXTENSIONS



NEW UEFI-BASED
BOOT
ARCHITECTURE



BUILD LARGE VMS

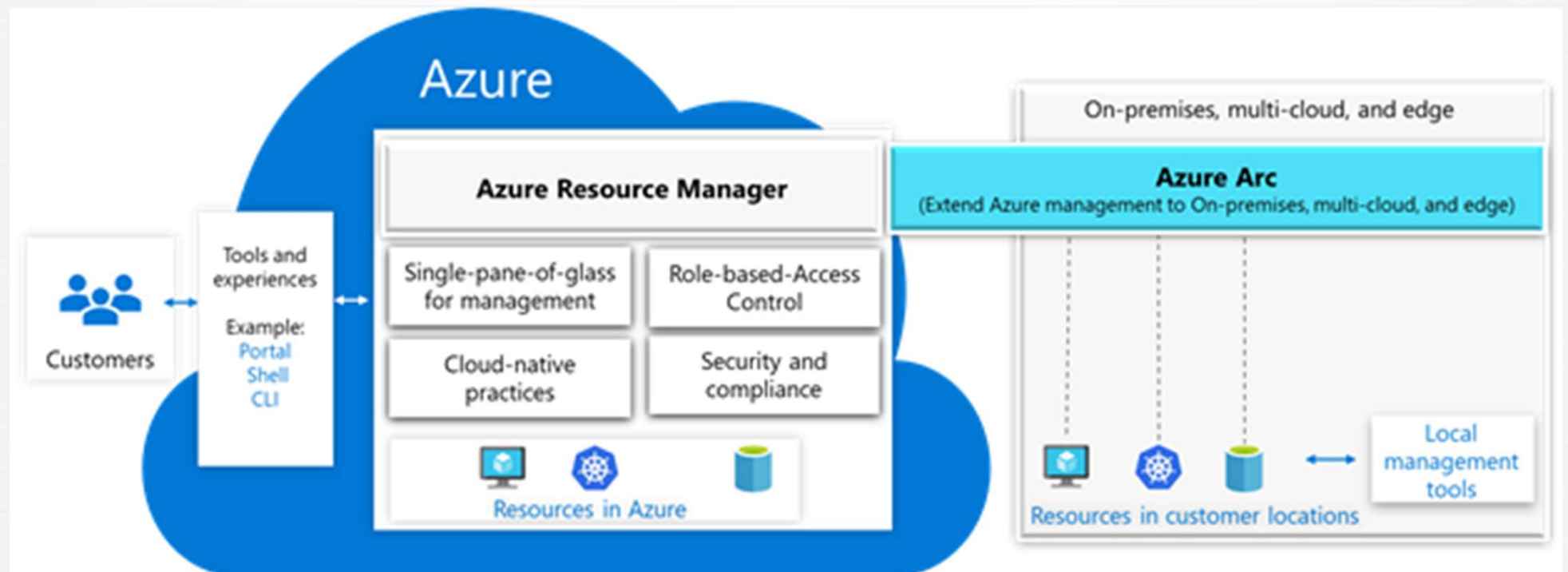


PROVISION OS DISKS
WITH MORE THAN
2TB

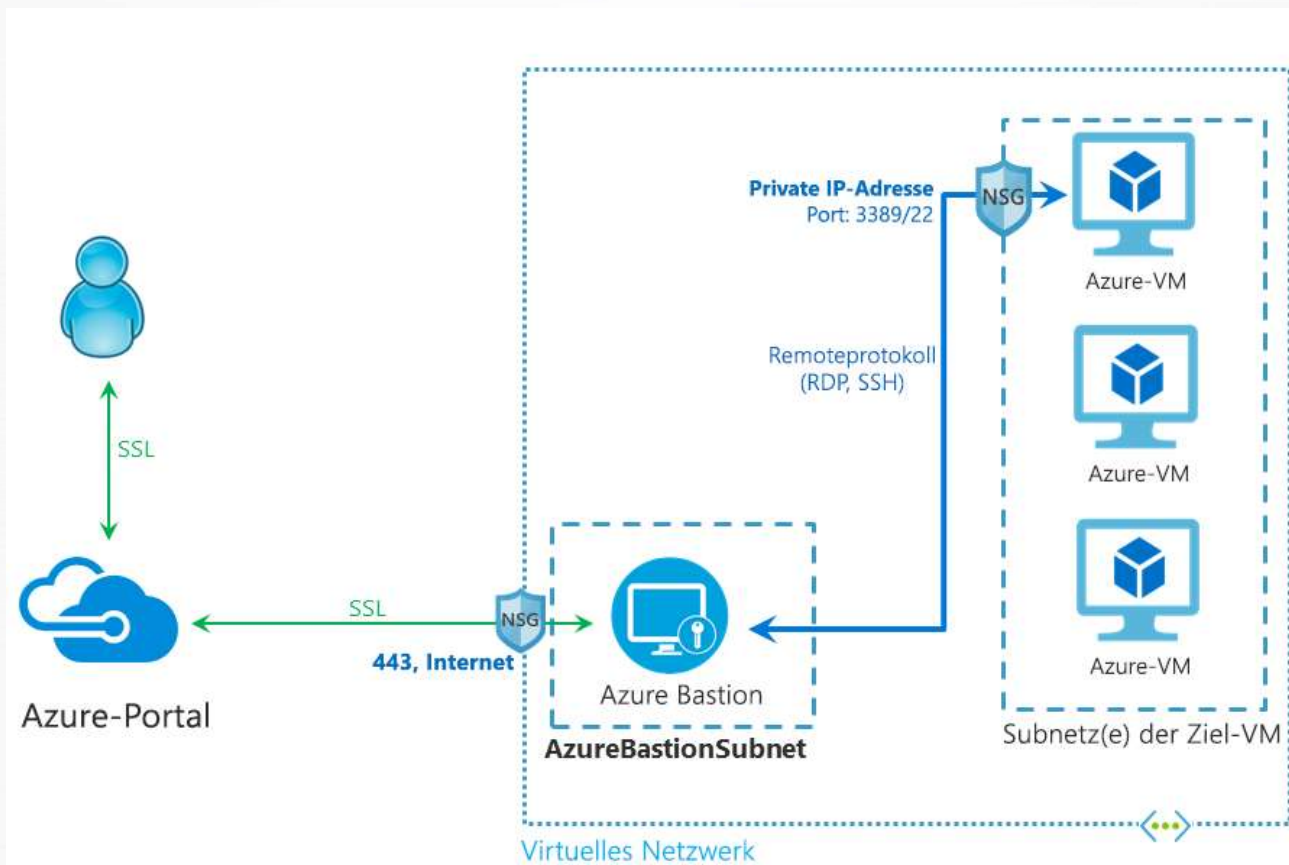
Azure Arc



Azure Arc



Azure Bastion GA



<https://azure.microsoft.com/en-us/updates/azure-bastion-is-now-generally-available/>

PAUSE

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Azure Apps

- Azure App service managed certificates
- Web Apps now support for Azure Migrate
- Azure Functions eliminates cold-start
- Durable Azure Functions
- Visual Studio 2019 v16.4 preview 3

Azure Apps

- OAM
- Rudr
- Microsoft loves Alibaba

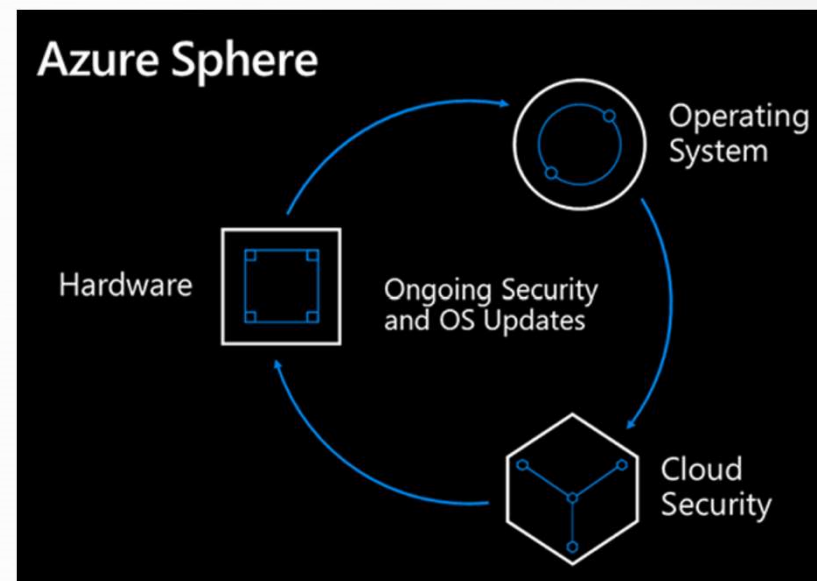


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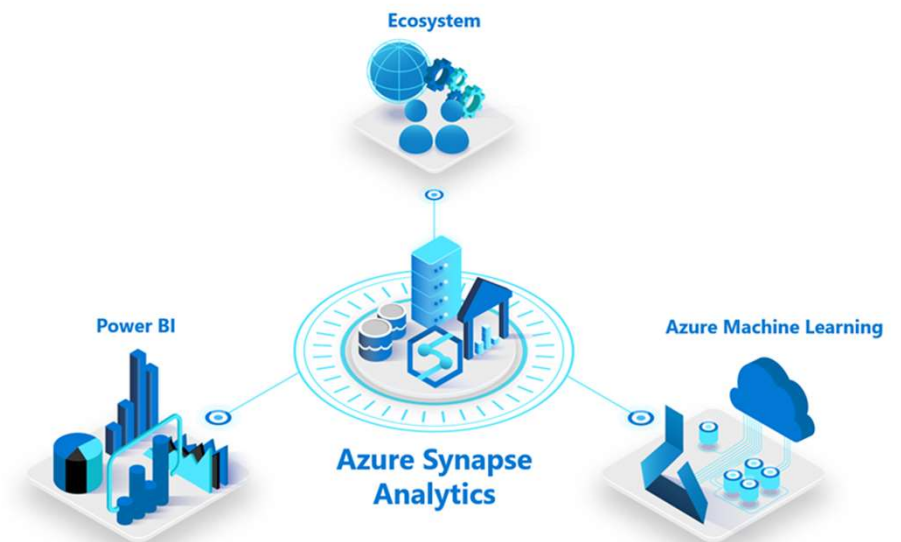
Azure Data & AI

- New Azure Machine learning capabilities
 - ML designer, ML enhancements, built-in notebooks
- Azure SQL Database serverless
 - Pay only for used compute resources
- Azure Sphere will be GA on Feb 2020
- SQL Server 2019 is GA
- Cognitive Services enhancements
 - New Speech capabilities, Search,



Azure Synapse Analytics (public preview)

- Formerly known as SQL Data Warehouse
- Data Warehouse and Business Analytics combined in one product
- Query for relational and non-relational data
- Petabyte scale



<https://azure.microsoft.com/en-us/blog/azure-sql-data-warehouse-is-now-azure-synapse-analytics/>

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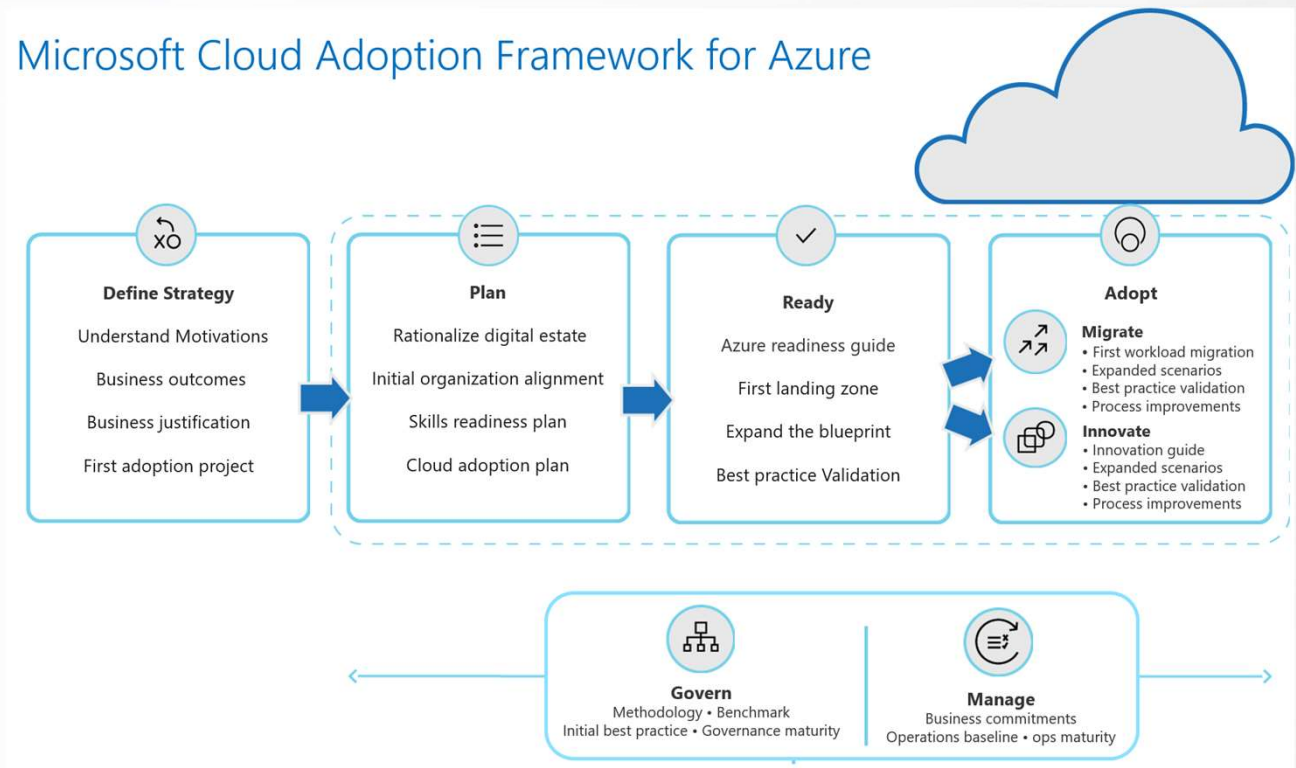
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Security News

- Threat protection for AKS
- On-board on-premises Server to ASC with WAC
- New Features for Azure Sentinel
- Azure Security Center Updates
 - Secure Score improvements - CISO Score
 - Integration Teams, Planner, ServiceNow
 - Container Registry Vulnerability Assessments
- Custom Policy in Azure Policy and ASC
- Subscription Tags
- Key Vault Policies

Microsoft Cloud Adoption Framework

- One central place for learning and best practices for the Cloud journey
- Tools, documentation, guidelines, templates and more
- Really helpful for concepts and to start with Azure



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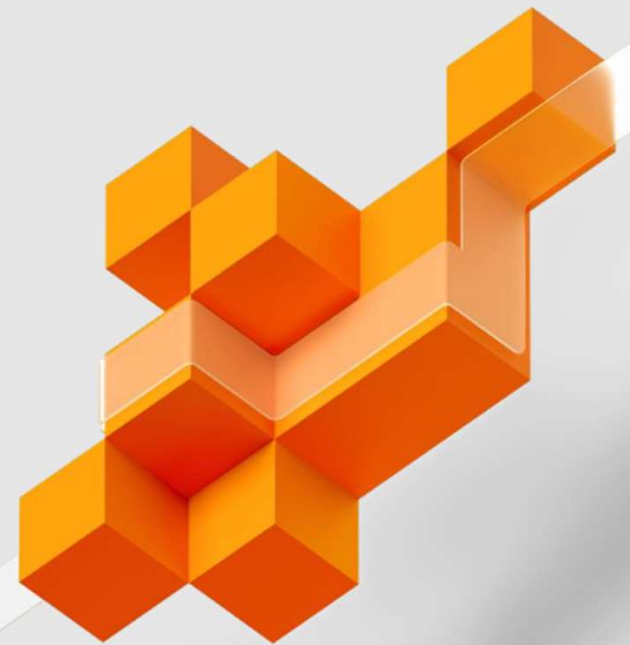
Microsoft Ignite 2019 Book of News



BOOK OF NEWS

Microsoft Ignite 2019

Orlando, November 4 – 8, 2019



<https://news.microsoft.com/wp-content/uploads/prod/sites/563/2019/11/ignite-2019-Book-of-News.pdf>

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Vielen Dank!



MS Ignite Recap - Azure Thüringen Meetup