Ignite 2019 Recap
Azure News

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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 Satelite
- Azure Firewall Manager
- Cost Management for CSP GA
- Azure File Sync supported AD DS is coming

New Azure features

Proximity placement groups

Low latency among compute resources

New VMSS capabilities

Deploy VMs belonging to different VM series in same VMSS

Ephermeral 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

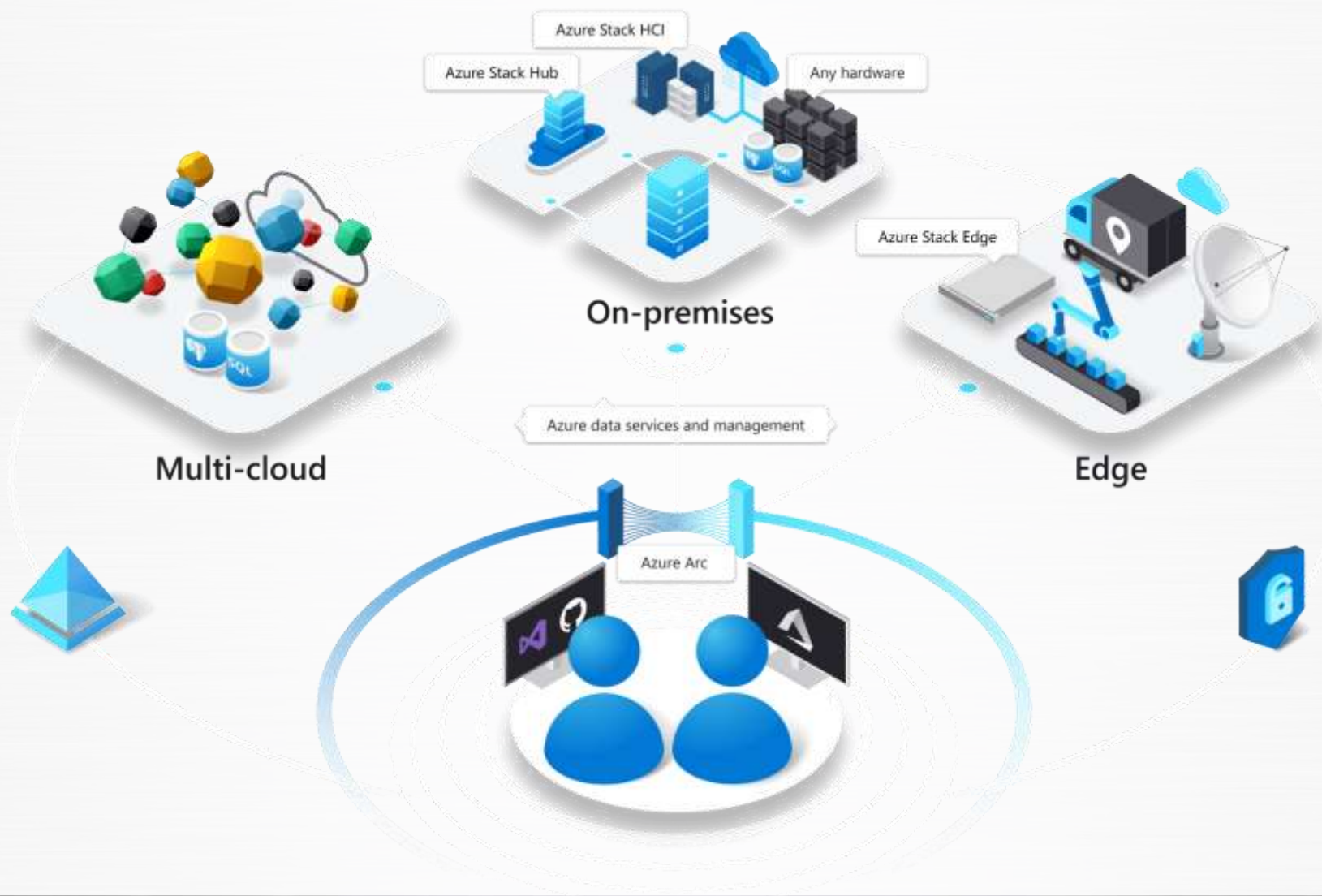**NEW UEFI-BASED BOOT ARCHITECTURE**
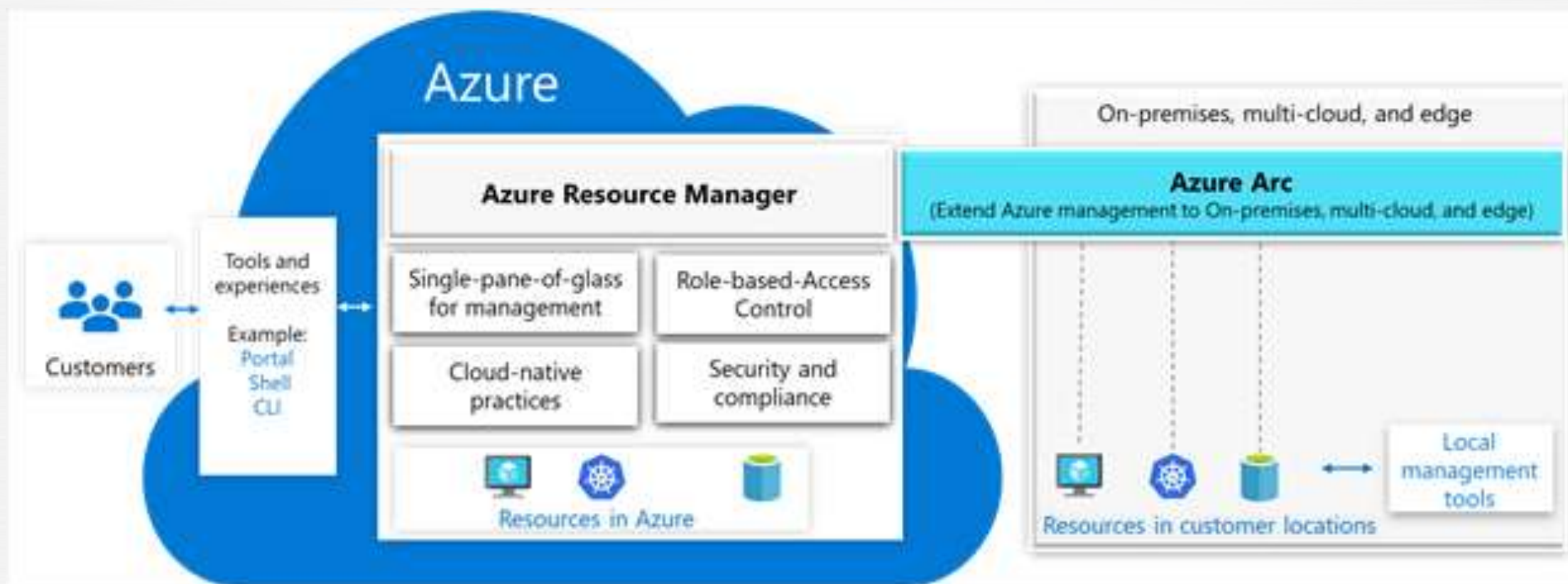
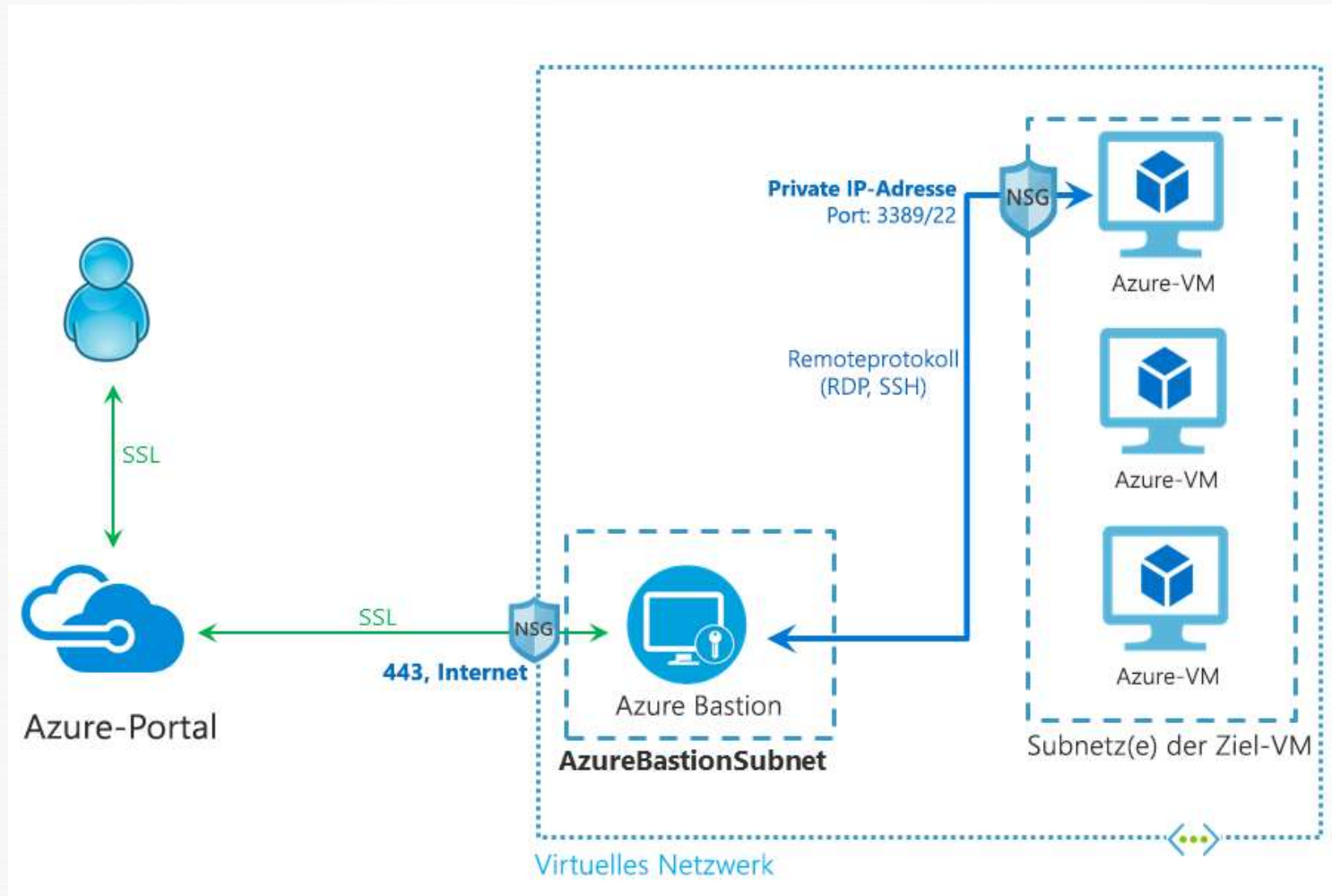**BUILD LARGE VMS**

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

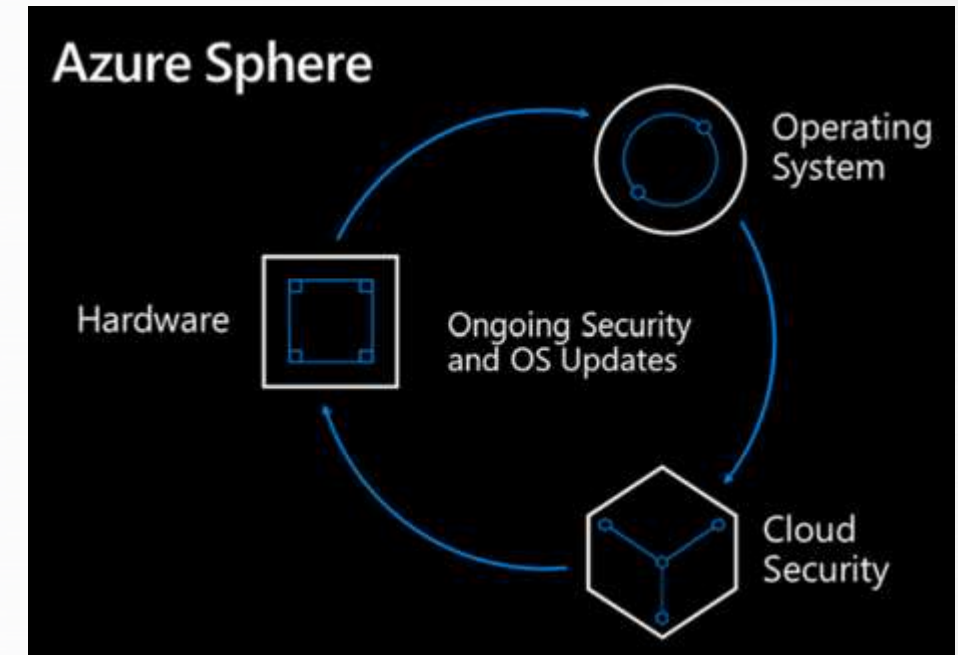# Azure Apps

- OAM

- Rudr

- Microsoft loves Alibaba

- Dapr

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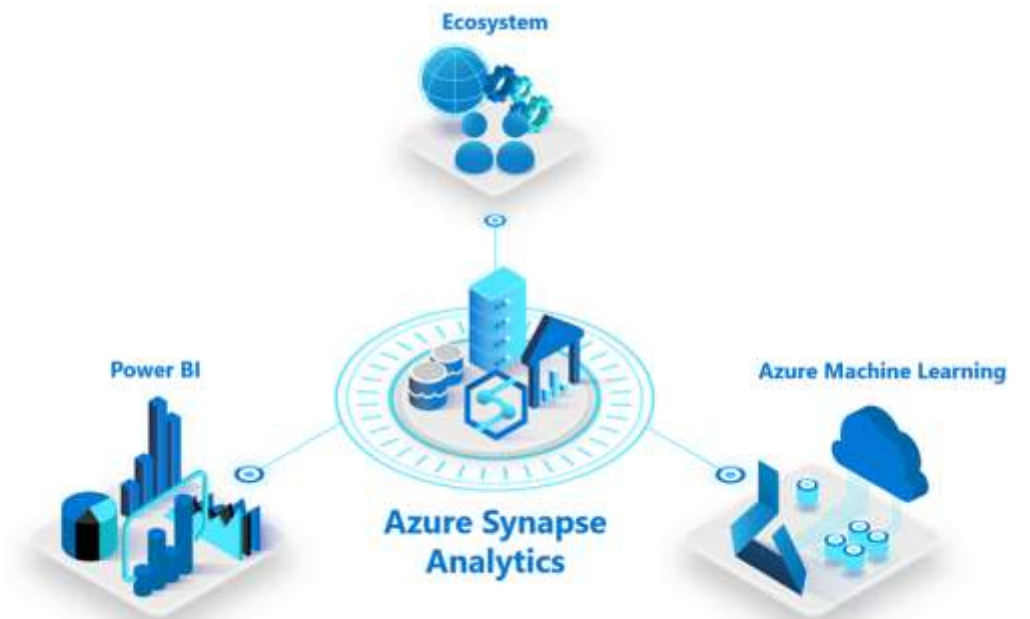- Azure Data & AI News
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Azure Data & AI

- New Azure Maching learning capabilities

  - ML designer, ML enhancements, built-in notebooks

- Azure SQL Database serverless

  - Pay only for used compute ressources

- Azure Sphere will be GA on Feb 2020 (v. 19.10 released)

- 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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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

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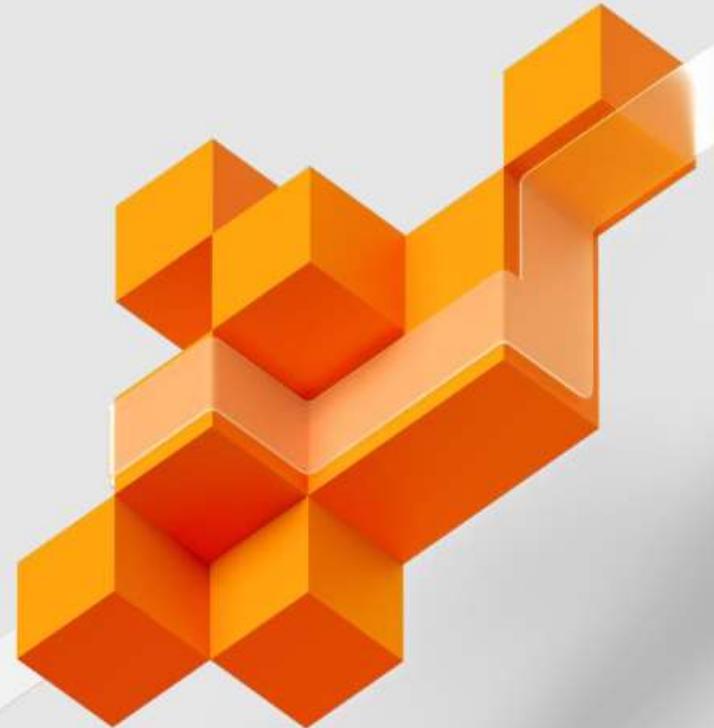- Azure Data & AI News
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Microsoft Ignite 2019 Book of News

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Vielen Dank!

MS Ignite Recap - Azure Meetup Köln / Bonn