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~15 year experience in IT

Windows Server, System Center, Hyper-V, Azure Pack, PowerShell

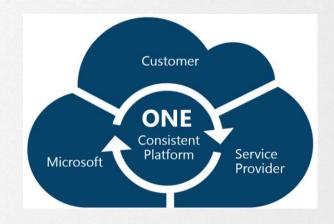






## Remember "Cloud OS"?

- Fall 2013 2012 R2 Wave
- Cloud in your Datacenter
- Azure Pack & System Center
- Consistent with Azure
- Really? -> Not quite...







## So, try it again... But different!

Azure Stack IS	Azure Stack is NOT
A true Hybrid <b>Cloud Platform</b> (new product category!)	Virtualization / Azure Pack / pure laaS Replacement
Cloud Infra as <b>Appliance</b> (SAN equivalent) for Cloud Solutions (PaaS & IaaS)	DIY infrastructure where you define everything how you like it
<b>Must go forward</b> with Azure (Updates are not optional)	A system which you deploy and run for the next 4-5 years as it is
Part of your Azure / (public)  Cloud strategy to run modern cloud ready applications	For you if you don't want do any thing with public cloud at all (on-premises legacy apps)





## Why MS builds Azure Stack



- To help customers to accelerate digital transformation
- To help to adopt the cloud model
  - Provide a platform which helps the customers to focus on their core activities

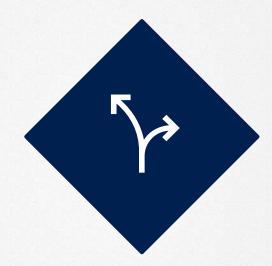




## Azure Stack Promises



One Azure ecosystem



Azure services in your datacenters



Integrated delivery experience





34 Azure regions

100s of service providers

1,000s of enterprises



## Integrated delivery experience



Appliance-like infrastructure with automated deployment (no DIY)



You focus on service and application development (not Infrastructure)



Extension of Azure = Pay-as-you-use

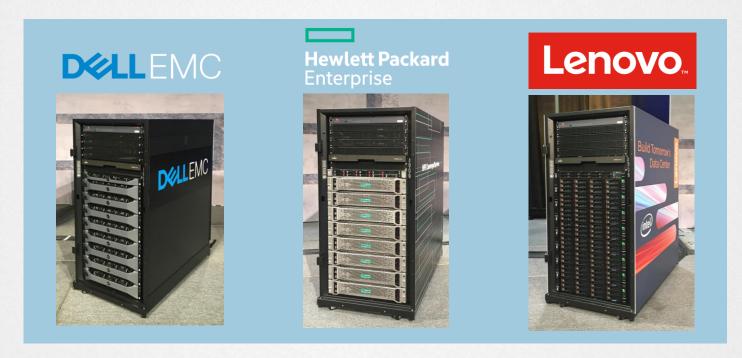


One Support contact





## Choose your OEM

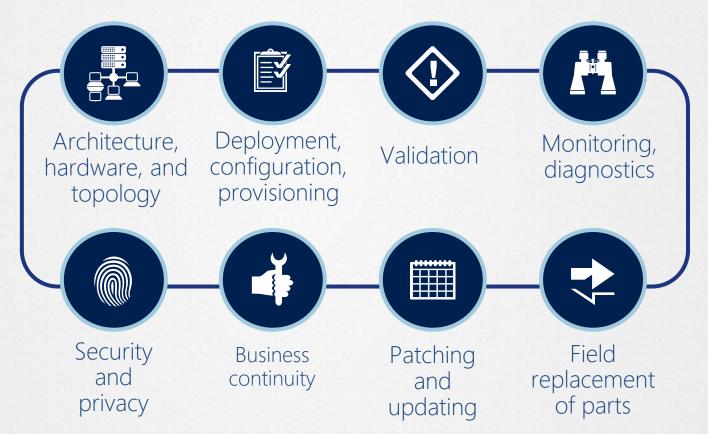




Cisco and Huawei will follow after GA



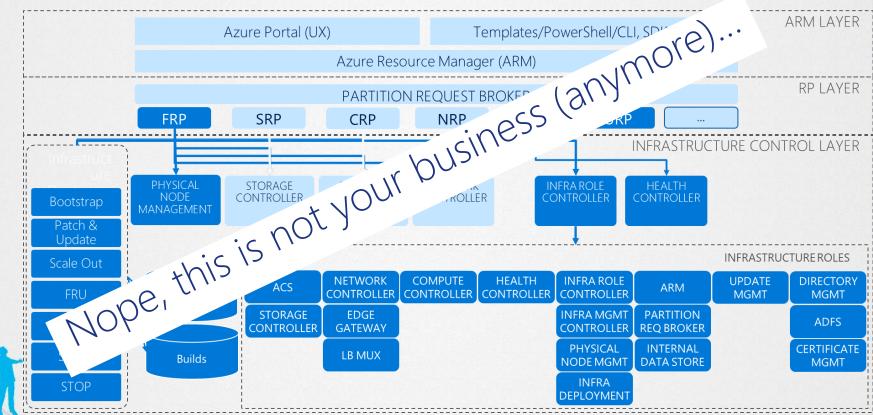
# Integrated System Live Cycle





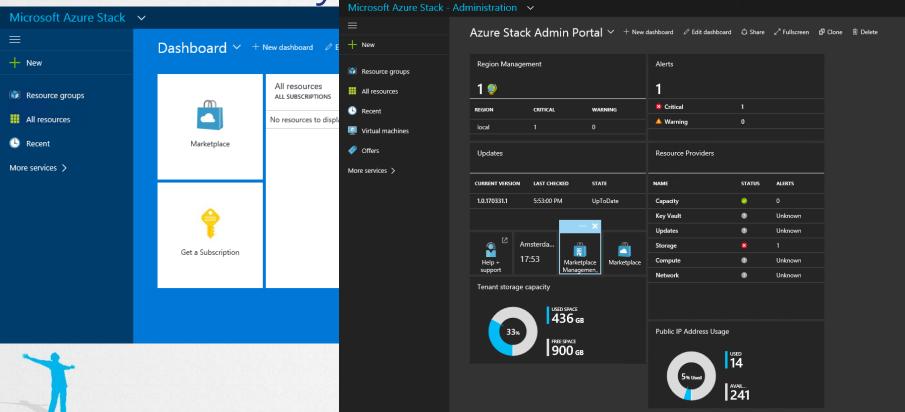


## Operating Azure Stack



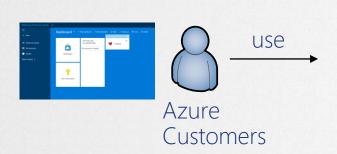
EXPERTS LIVE CAFÉ

## This is your business...

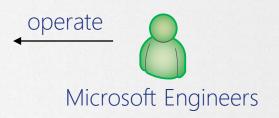




## Cloud Operating Roles













**UPDATES** - Seattle

A Update available

23

Your Engineers / IT
Cloud Architect – Design
Cloud Administrator –

Cloud Administrator – Operates Azure Stack



#### What does that mean for Admins

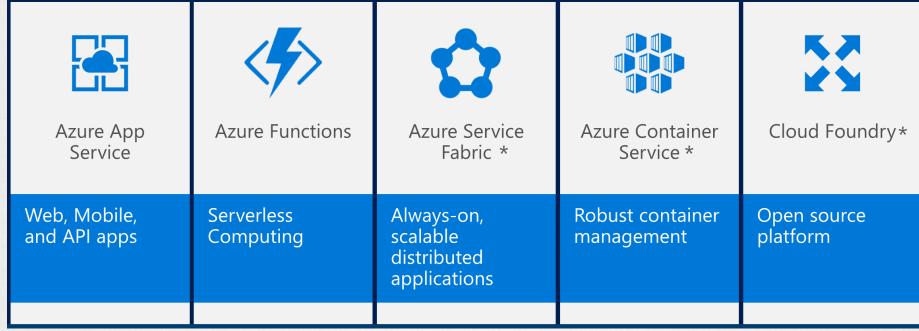


- Don't think about design and installing infrastructure
- Focus on integration in your Datacenter
  - Networking, Monitoring, Identity
- Focus on what you can build on top
- Get familiar with Azure & ARM
- Focus on DevOps processes and culture





## Azure (Stack) PaaS

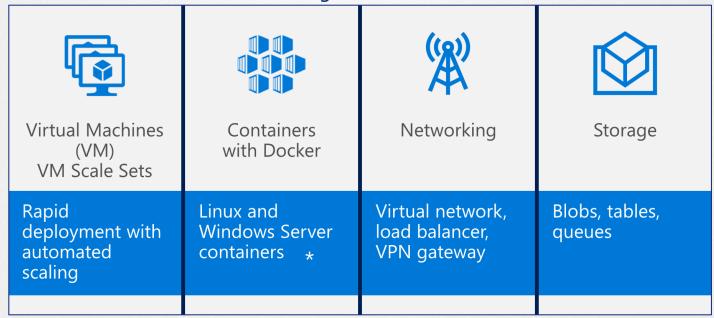






## Azure (Stack) laaS

#### More than just virtualization







## Use Cases – Microsoft's way



#### Edge and discounted scenarios

Low latency needed, no or bad connection, local data collections with big data analytics in Azure



Cloud Applications that meet every regulation Governments, Health Care, Financial Industry, ...



Modern applications across cloud and on-premises



Move to Azure without code changes, Serverless computing, Microservices, Container



## The true Idea behind?

- Azure Stack is just an intermediate step in the transition to Azure (and not an Azure alternative)
- Makes it a bit easier and less scary (data still local, you can see where everything is running)
- But push customers gently to migrate their applications slowly to a modern cloud design



 When everything is running on Azure Stack (and compatible to Azure), customers may ask himself why not move to Azure?
 no local infrastructure, no extra hardware, no power costs...

But, maybe just my estimation... ©



#### No one fits all

#### Optimize with virtualization

Operational efficiency

Resource pooling and abstraction

IT sponsored

Flexible hardware

Mission-critical workload optimization
Datacenter/Branch office consolidation
Hyper-converged storage
Secure VMs

#### Transform with Cloud

Agile development

Self-service, on-demand services

Business/ App dev / IT sponsored

Purpose-built hardware

Cloud-native apps
Hybrid app patterns
Seamless app mobility
DevOps



Core characteristics

cases

Use

Windows Server Hyper-V Microsoft System Center

Microsoft Azure Stack
Microsoft Azure



#### Azure Stack makes sense





- You want to focus on delivering services but not building and operating infrastructures
- You are running or developing modern cloud-native applications







## Azure Stack makes no sense



- You care looking for traditional virtualization solution to run a bunch of VMs
- You are running a lot of legacy apps or old Windows versions (2003, 2008...)
- You have highly specialized system maybe with specialized hardware (Broadcast Production Systems, Factory Control Systems)
- Remember: Azure Pack & System Center is and will be still available, updated and supported





## Roadmap





3. Fundamentals

New HW, expansion and scaling, increase scope of monitoring / self-healing, BC & DR, ...







## Key Takeaways



- Azure Stack follows still the cloud consistency idea of the "Cloud OS" vision
- But it is not the successor or a replacement of Azure Pack and System Center
- Azure Stack is a new product category. Like a SAN which provides a cloud platform (instead of storage)
- It is not intended run your "legacy" virtualization workload (VMs) but modern cloud-native apps
- Azure Stack is part of your Azure strategy. It is not a alternative or an option if you don't want use public cloud or Azure at all







Next session 17:15 Uhr>

# Office 365 Identity und Authentication

MVP Samuel Zürcher, ExpertsInside

