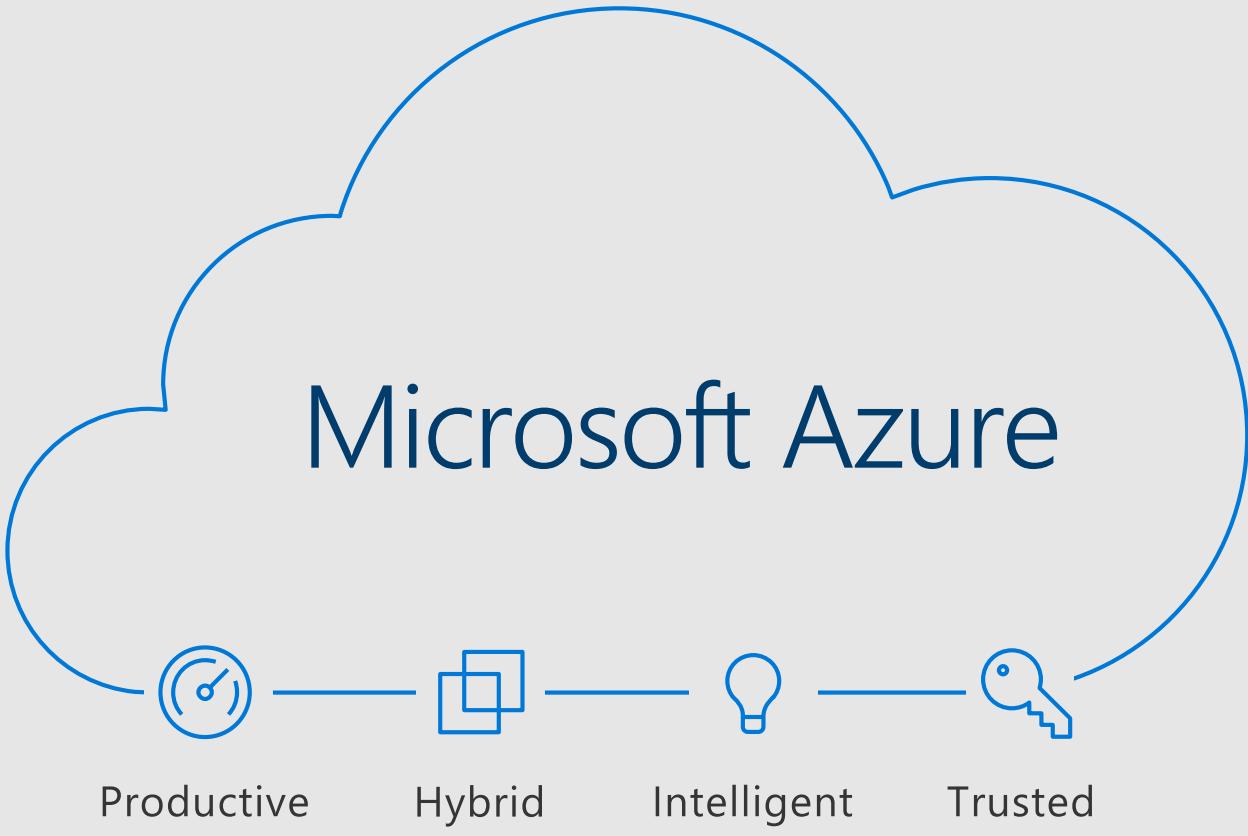


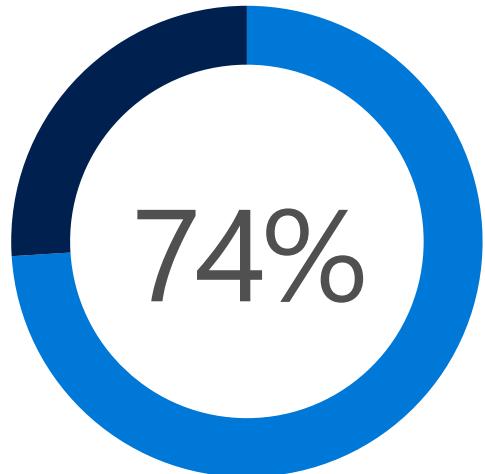
# Azure Stack

Cenk Ersoy  
[cenker@microsoft.com](mailto:cenker@microsoft.com)  
GBB TSP, MEA

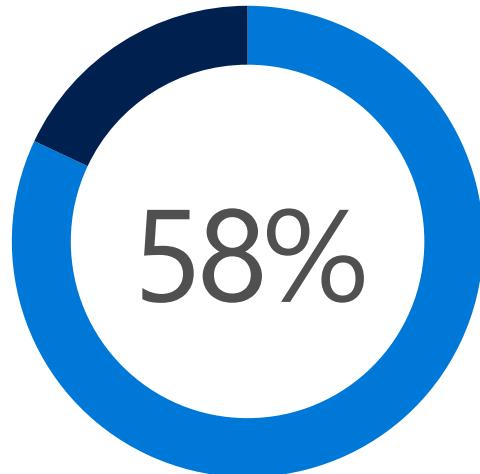




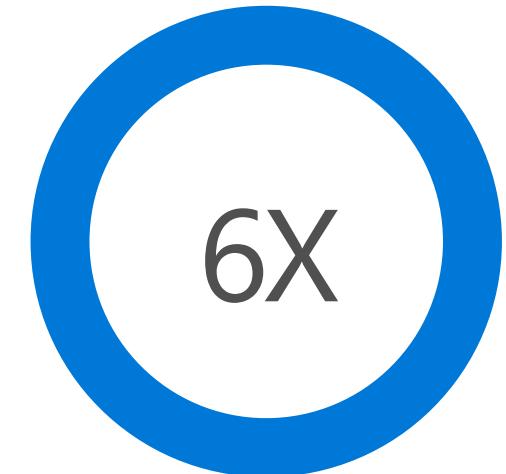
# Hybrid Cloud presents great opportunity



ENTERPRISES BELIEVE A  
HYBRID CLOUD WILL  
ENABLE  
BUSINESS GROWTH



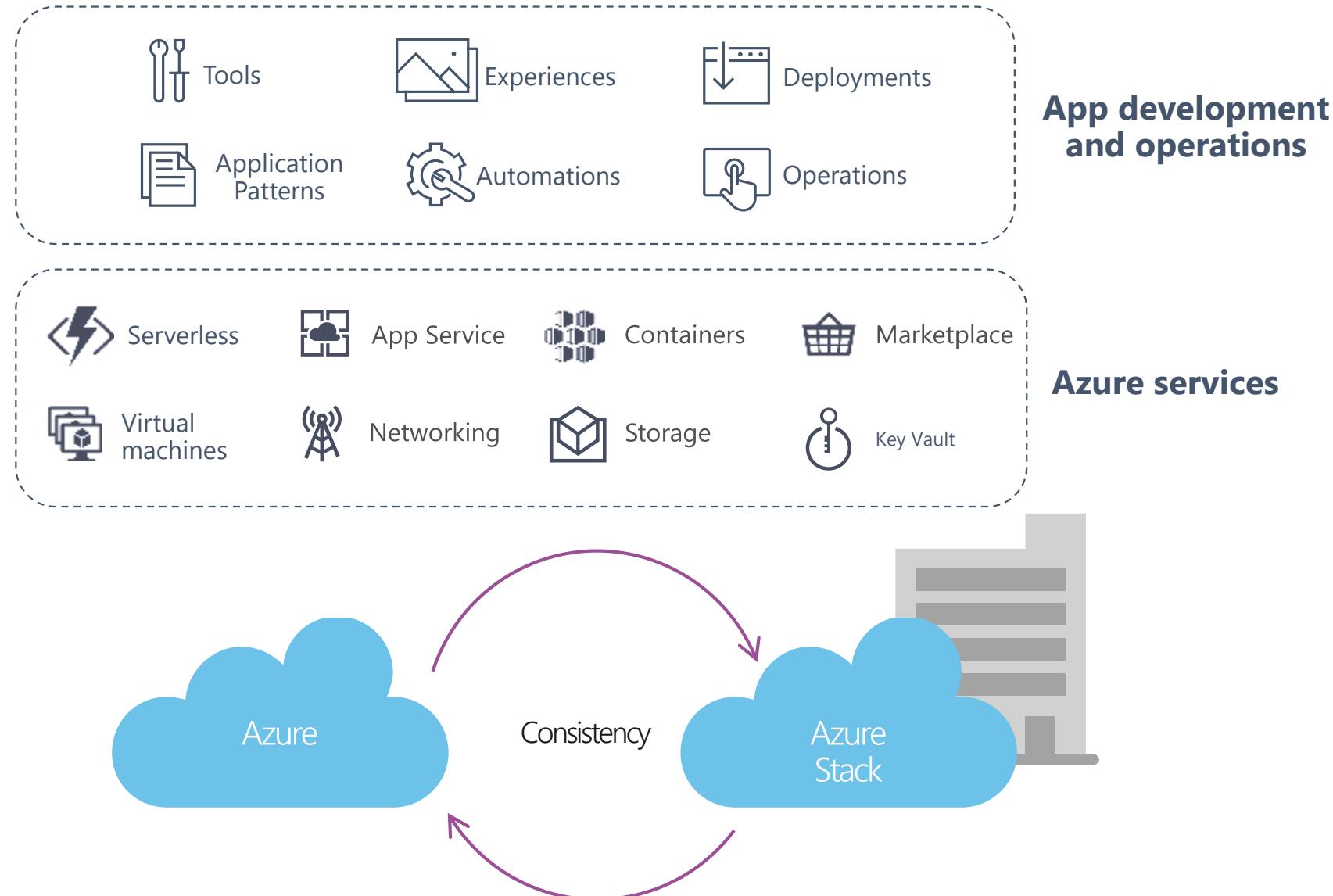
ENTERPRISES HAVE A  
HYBRID CLOUD  
STRATEGY, UP FROM 55  
PERCENT A YEAR AGO



GROWTH OF IT SPENDING  
ON PUBLIC CLOUD  
SERVICES IS 6X OF  
OVERALL IT MARKET

45% organizations will go through service providers

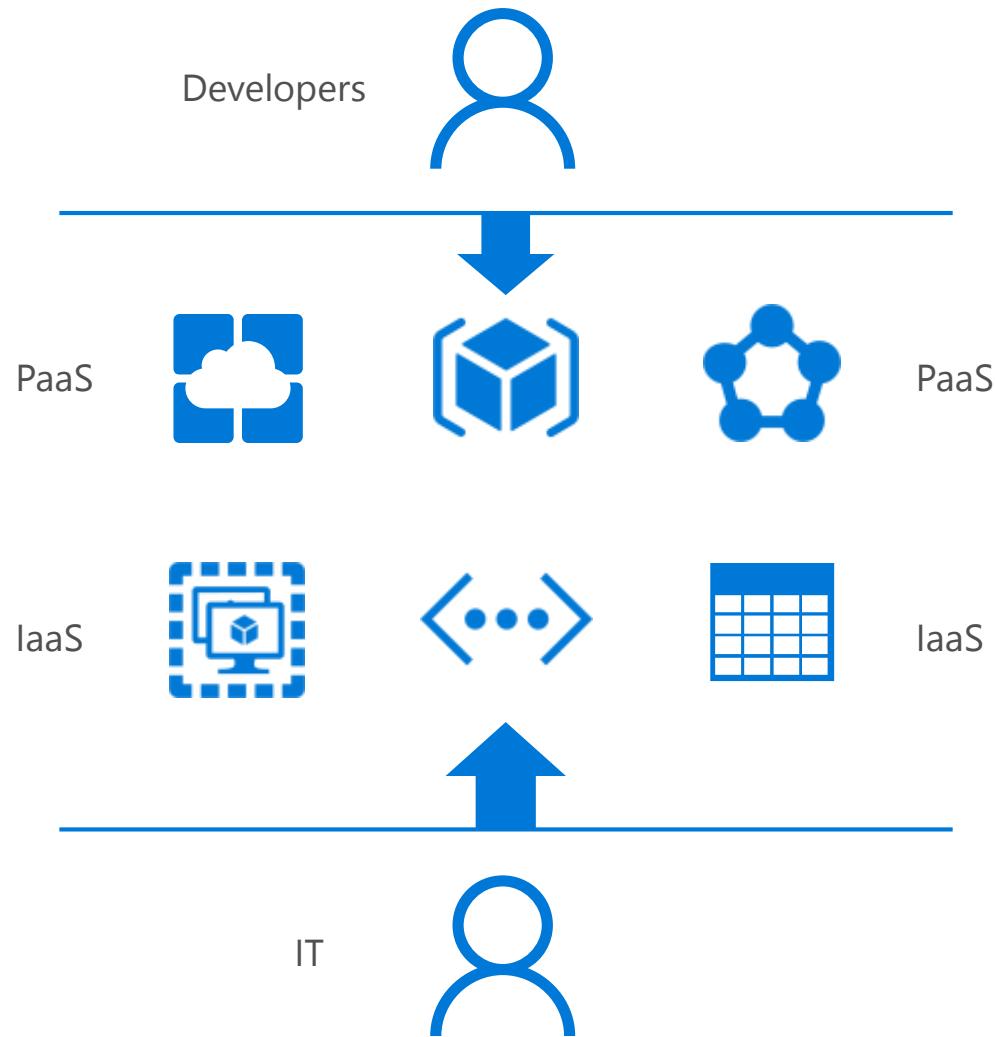
# Consistent Cloud Platform



# Azure Stack brings services in your datacenter

Adopt hybrid cloud computing  
on your terms.

Meet business and technical  
requirements, with the flexibility  
to choose the right combination  
of cloud and on-premises  
deployment models.



# End-to-end hybrid cloud infrastructure for your applications

Microsoft Azure

Consistent  
Server Platforms



Windows Server/SQL Server

Consistent  
Cloud Platform



On-premises

Azure Stack



**Jeffrey Snover**

@jsnover

[Follow](#)



Azure Stack is for people that want to  
USE a cloud in their data center not  
BUILD a cloud in their data center.

<https://twitter.com/jsnover/status/985779143211212800>

# Azure and Azure Stack

Truly consistent hybrid cloud platform

Portal | PowerShell | DevOps tools

Azure Resource Manager

Azure IaaS | Azure PaaS  
Compute | Network | Storage | App Service | Service Fabric\*

Cloud-inspired infrastructure

Microsoft Azure Stack  
Private | Hosted

Sealed hosts  
Integrated Systems Hardware



Developers

CONSISTENCY



IT

Portal | PowerShell | DevOps tools

Azure Resource Manager

IaaS | PaaS | SaaS

Cloud infrastructure

Microsoft Azure  
Public

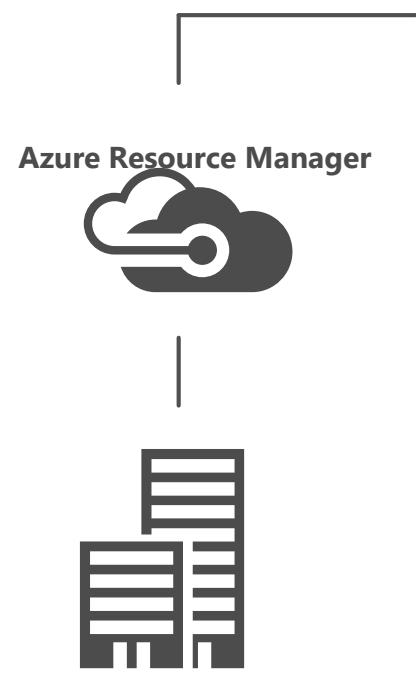
Sealed hosts  
Azure-designed Hardware



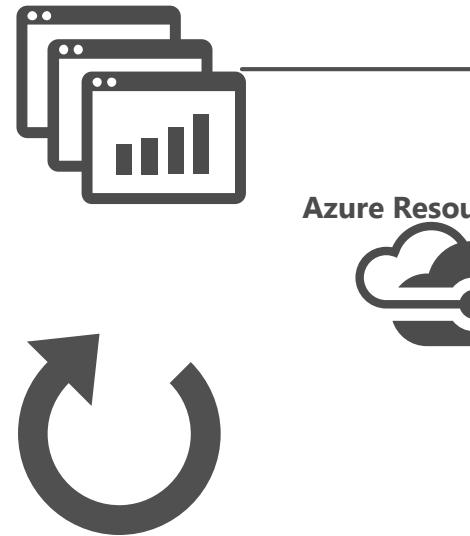
# Azure Resource Manager



Describe



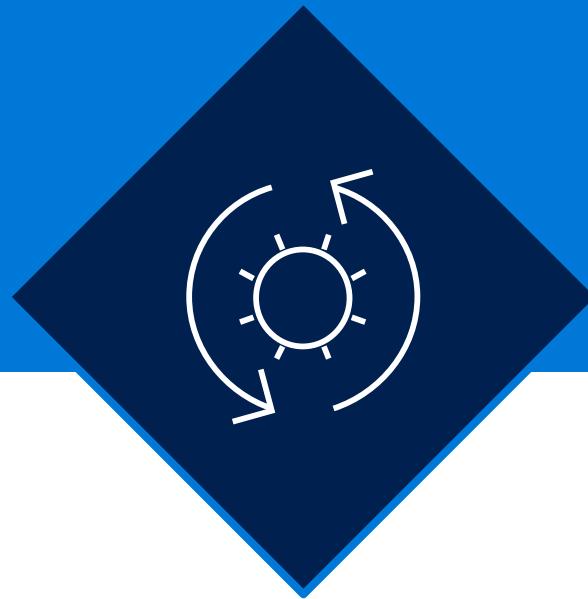
Deploy



Control

© Microsoft

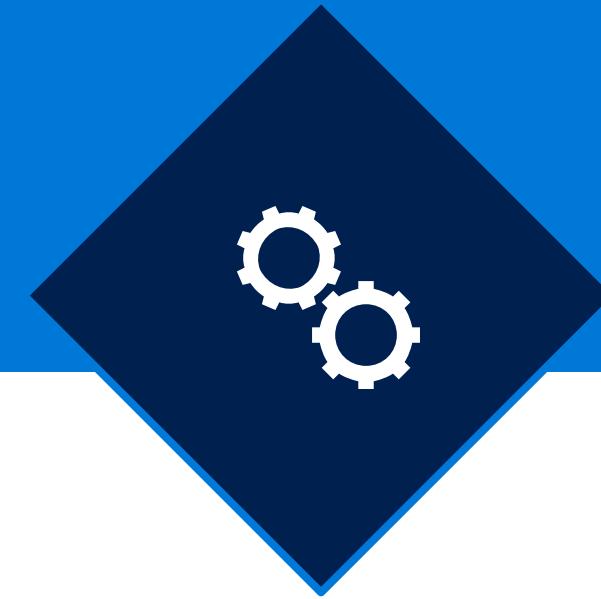
# Azure Stack promise



Consistent  
application development



Azure services  
available on-premises



Integrated  
delivery experience

# Azure Capabilities on Azure Stack



Virtual  
machines  
(VM),  
VM scale

Rapid  
deployment  
with scaling  
on demand



Containers

Linux and  
Windows  
Server  
containers



Networking

Virtual  
network,  
load  
balancer,  
VPN  
gateway



Storage

Blobs, tables,  
queues



Key Vault

Securely  
protect  
application  
keys and  
secrets



Azure App  
Service

Web  
and API  
apps



Azure  
Functions



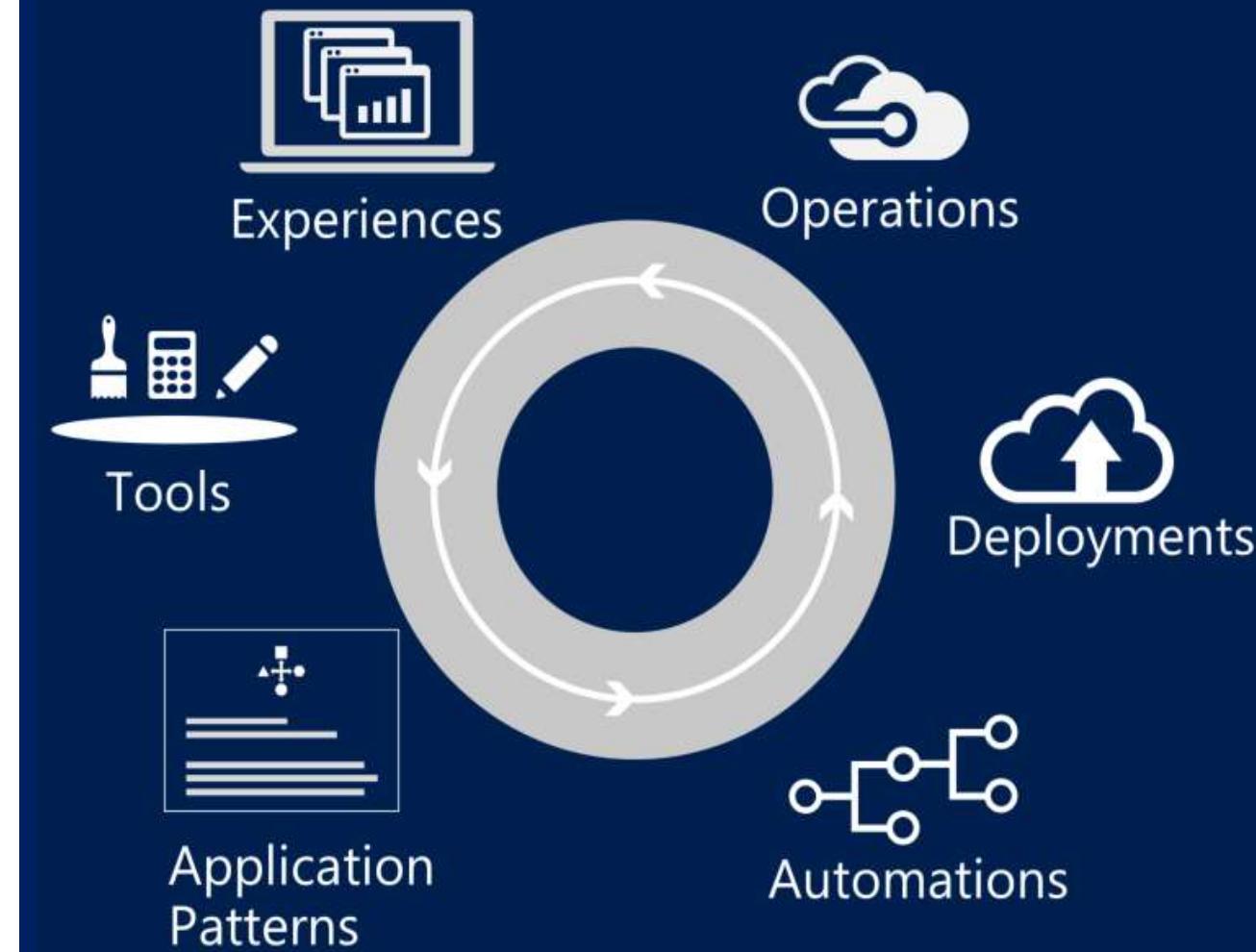
Azure  
Marketplace

Ready to go  
Apps from the  
Azure  
Marketplace

# Consistent application development

Build and deploy apps the same way whether they run on-premises or in the cloud.

Implement common DevOps practices across hybrid cloud environments.



# One Azure ecosystem

---

Work with the tools and technologies you want across Azure and Azure Stack

Goal: Applications and services that are certified for Azure work on Azure Stack



[Azure Stack marketplace](#)

[QuickStart Templates on GitHub](#)

Azure services  
everywhere



# Geo Availability – 92 countries worldwide



[Check this link for Azure Stack availability](#)

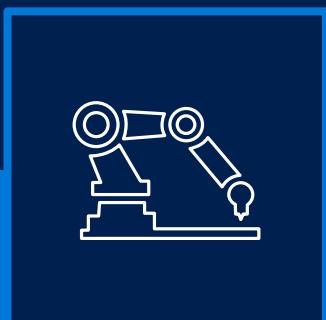


Deploy Azure Stack for:

- Real-time latency requirements
- Connectivity issues
- Local data processing

Use Azure for aggregate analytics  
and big data modelling

Common application logic across  
both, connected or disconnected



Edge and disconnected solutions



→ Check out Edge  
and disconnected  
solutions demo  
from //build



<https://azure.microsoft.com/en-us/resources/videos/azure-and-azure-stack-working-together-build-2017/>



Develop and deploy global application  
in Azure

Optionally deploy to Azure Stack to  
handle customer preferences for  
regulations:

- Government
- Industry
- Region

No changes to application



Cloud applications that meet every regulation

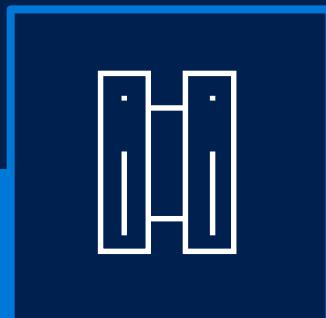


Apply modern architectures to on-premises apps not yet ready for cloud

- PaaS
- Serverless Computing
- Microservices & Containers

Move to Azure without code changes

Consistent programming model, skills, and processes



Modern applications across cloud and on-premises

# Hybrid Cloud Solutions

Hybrid DevOps

Cross Cloud Scaling

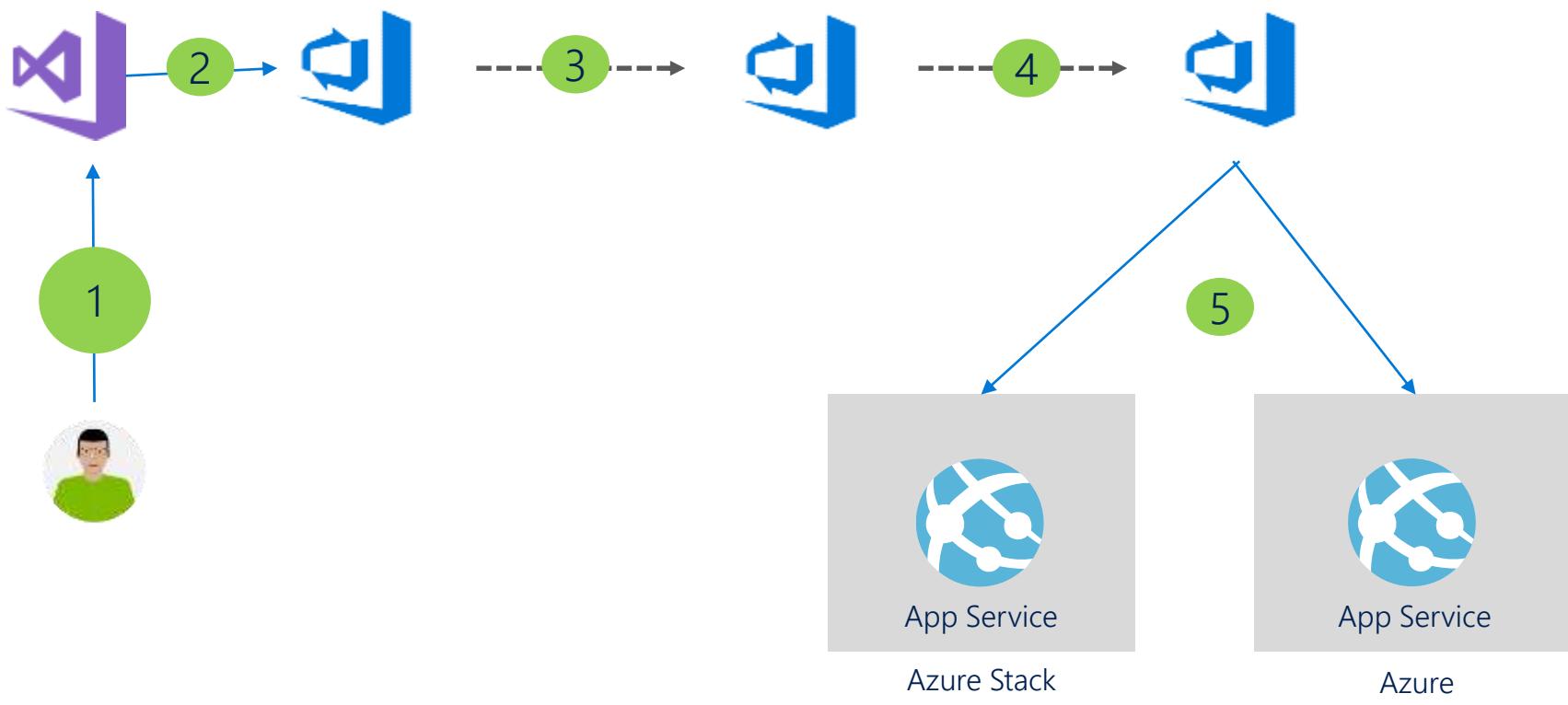
Data Sovereignty and Gravity

AI at the edge

Geo-distributed applications

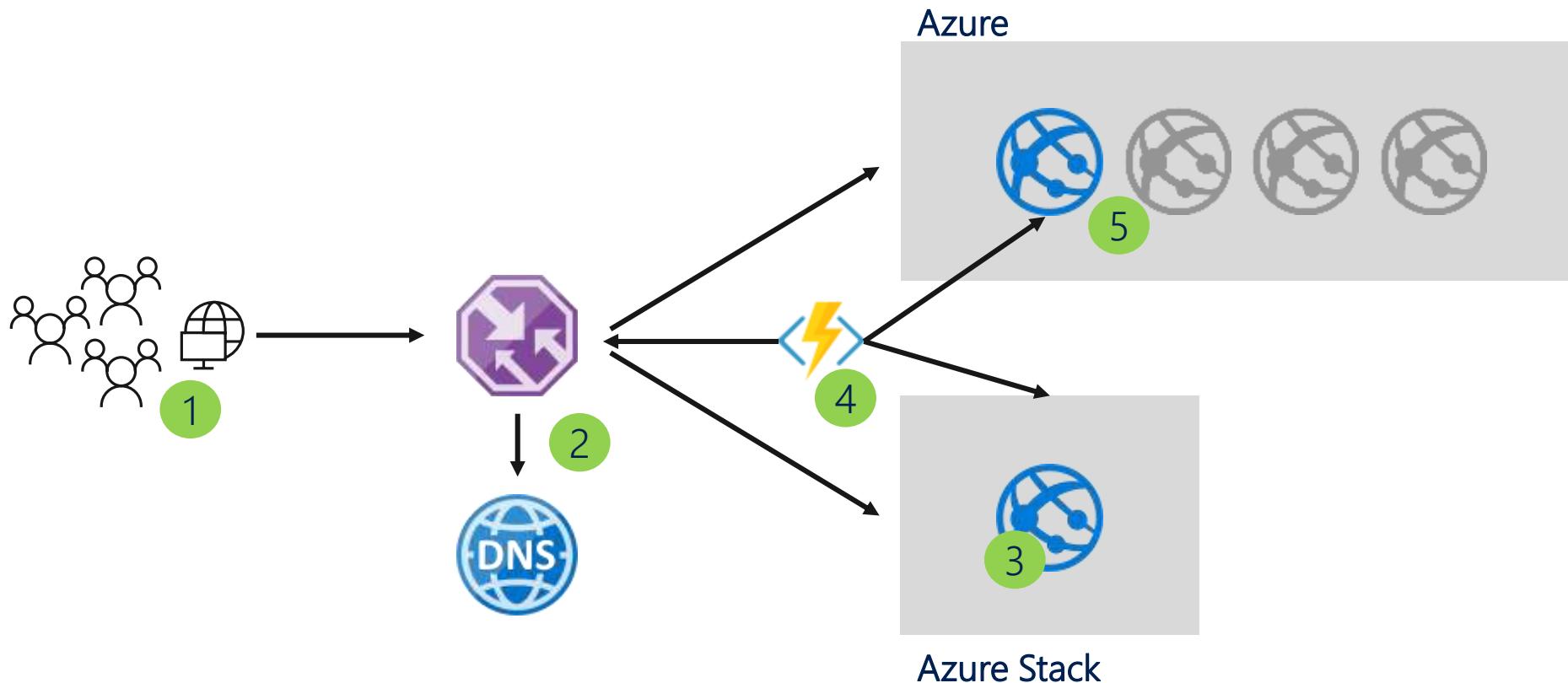
Tiered data for analytics

# Hybrid DevOps



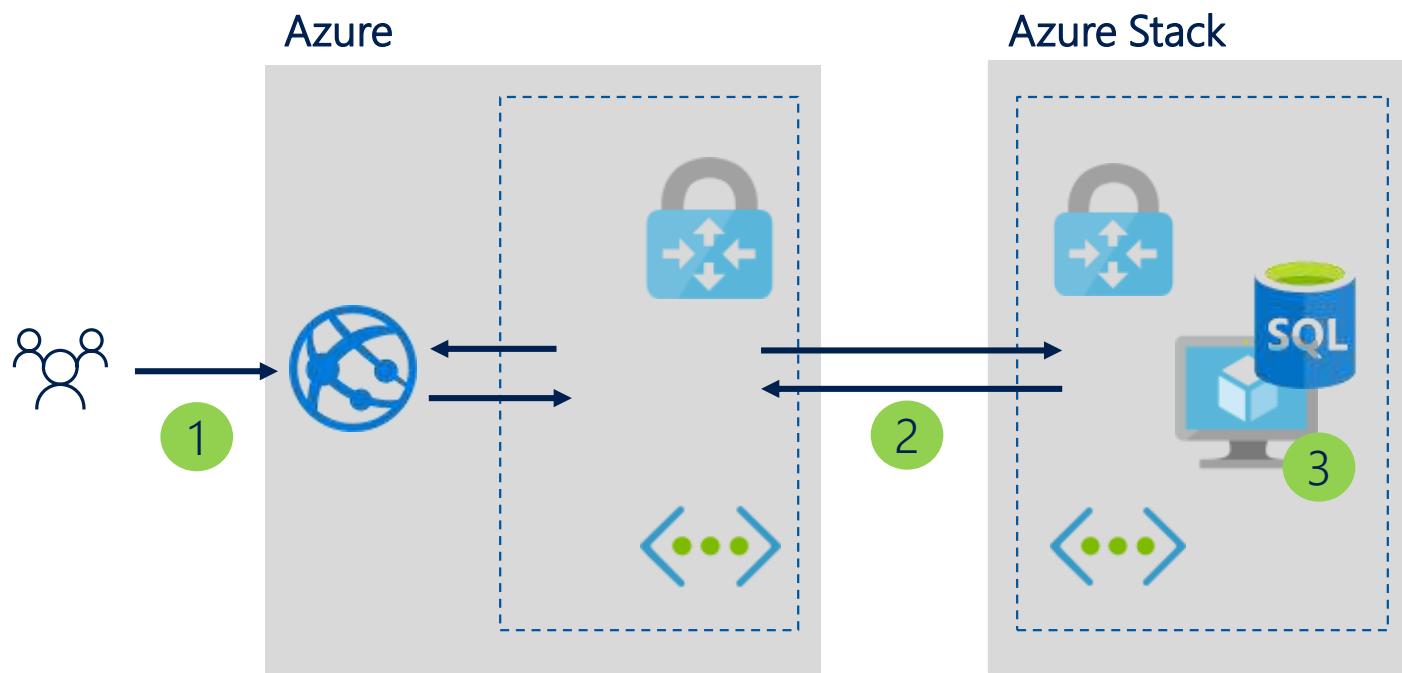
1. Changes to application code and ARM template.
2. Code and ARM template checked into VSTS Git.
3. Automatic application build and unit tests.
4. Orchestrated deployment of application artifacts with environment-specific parameters.
5. Application runs on App Service on both Azure and Azure Stack

# Cross Cloud Scaling



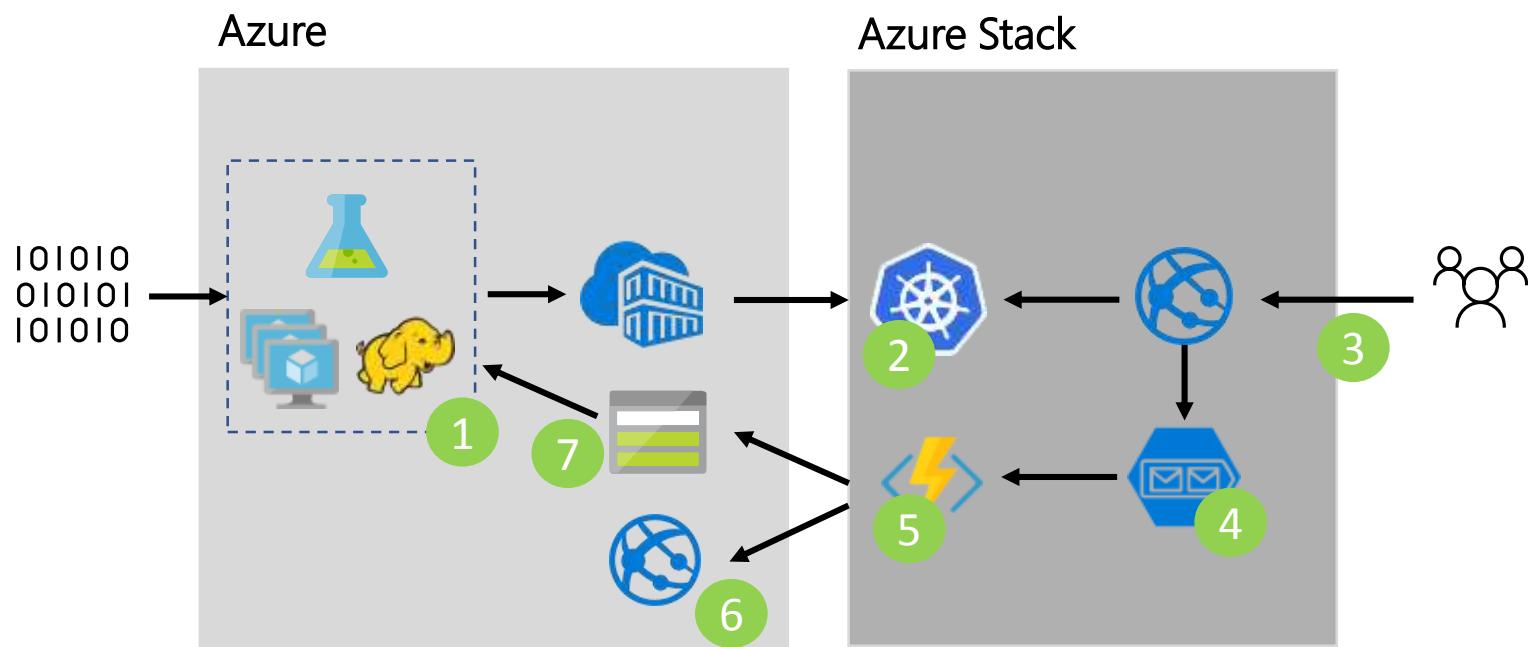
1. Users attempt to access the web app.
2. Traffic manager returns the Azure Stack DNS name.
3. Users load the Azure Stack web app.
4. Once a threshold is reached, a Function starts the Azure Web App and enabled the Azure Traffic Manager Route.
5. Traffic is routed to Azure.

# Data Sovereignty and Data Gravity



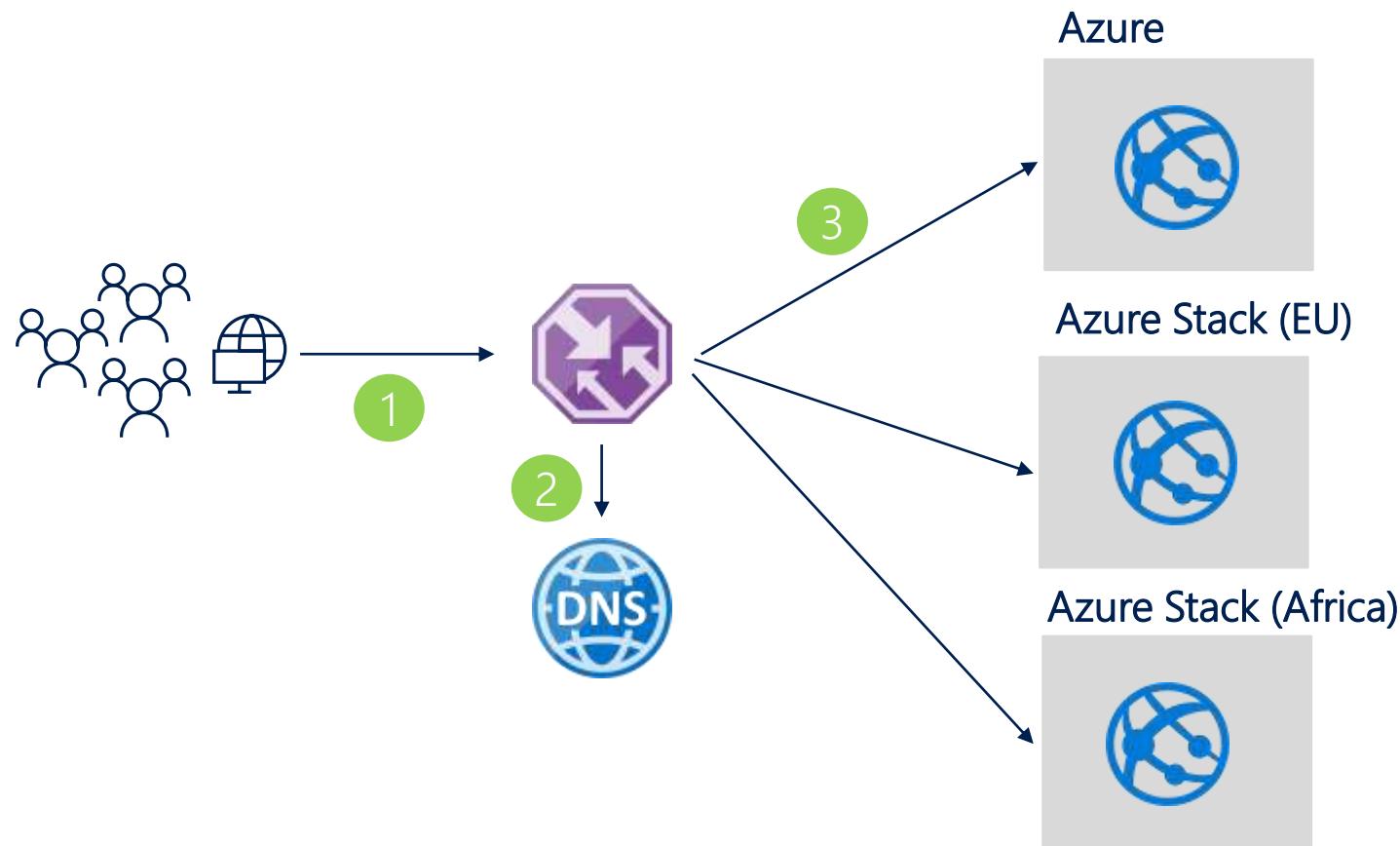
1. User enters data into Azure-based web app.
2. Application commits data to database over VNet to VNet VPN connection to Azure Stack.
3. Data is stored in SQL database on VM in Azure Stack.

# AI at the Edge



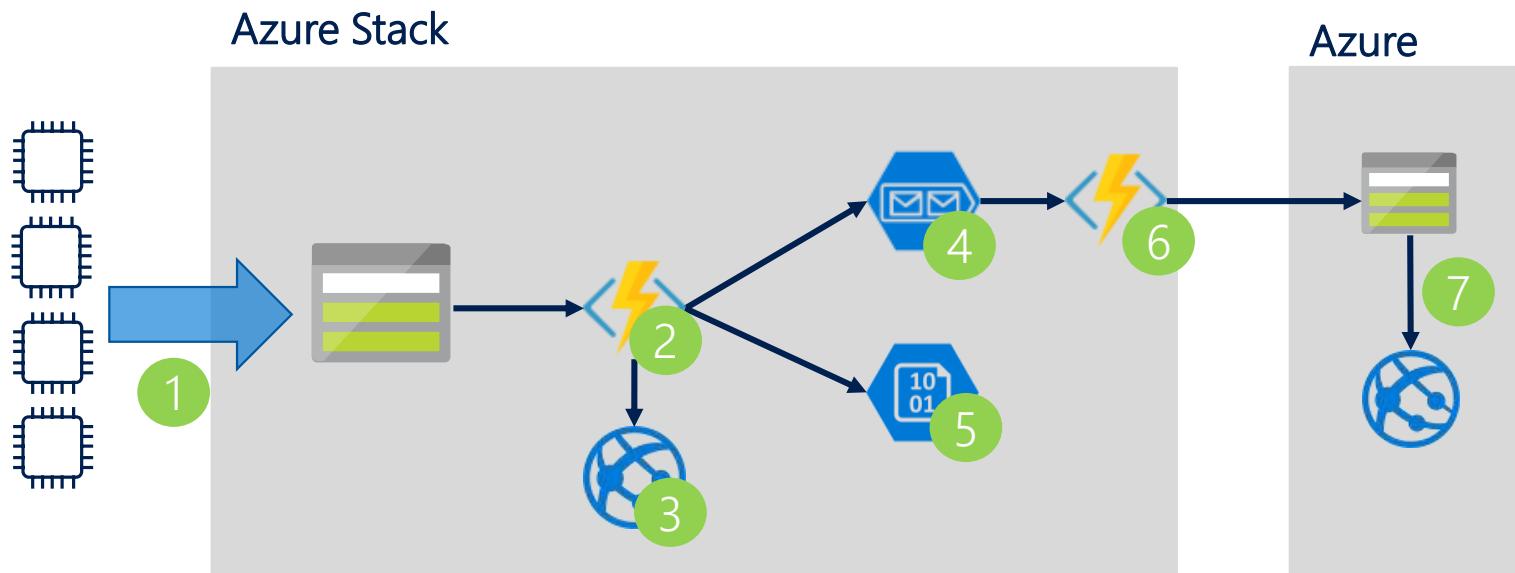
1. A model is trained in the cloud using Azure ML tools and containerized.
2. The model is deployed to a Kubernetes cluster on Azure Stack.
3. Input is scored against the model.
4. Insights from scoring are placed into a queue.
5. Compliant data and insights are sent to Azure.
6. Global insights are available in the global app.
7. Data from edge scoring is used to improve the model.

# Geo-distributed applications



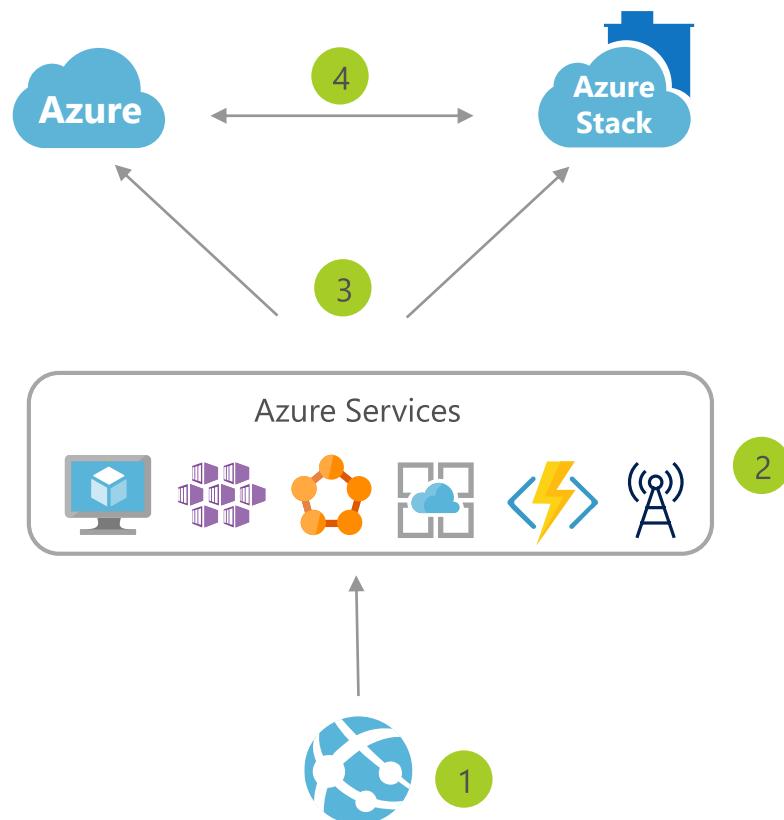
1. Users attempt to access application.
2. DNS queries Traffic Manager.
3. Traffic Manager returns the application (Azure or Azure Stack) that's closest to the user.

# Tiered Data for Analytics



1. Data flows into a storage account.
2. Function on Azure Stack analyzes the data for anomalies or compliance.
3. Locally-relevant insights are shown.
4. Insights and anomalies are placed into a queue.
5. Bulk of data is placed into an archive.
6. Function sends data from queue to Azure storage.
7. Global insights are available in the global app.

# Solution: Application Modernization



- 1 A legacy application is identified to be modernized, or a new application is developed
- 2 Azure Services are leveraged by the developer to support the required functionality of the app
- 3 Organization decides to deploy the app to Azure or to Azure Stack
- 4 A new DevOps model for hybrid cloud is established that paves the way for hybrid cloud deployments

# Integrated delivery experience



Integrated  
systems



Lenovo



Fast to deploy  
Easy to grow

Deploy quickly

Start with 4 servers

Scale as needed



Pay-as-you-use

Pay only for Azure services

Receive one bill

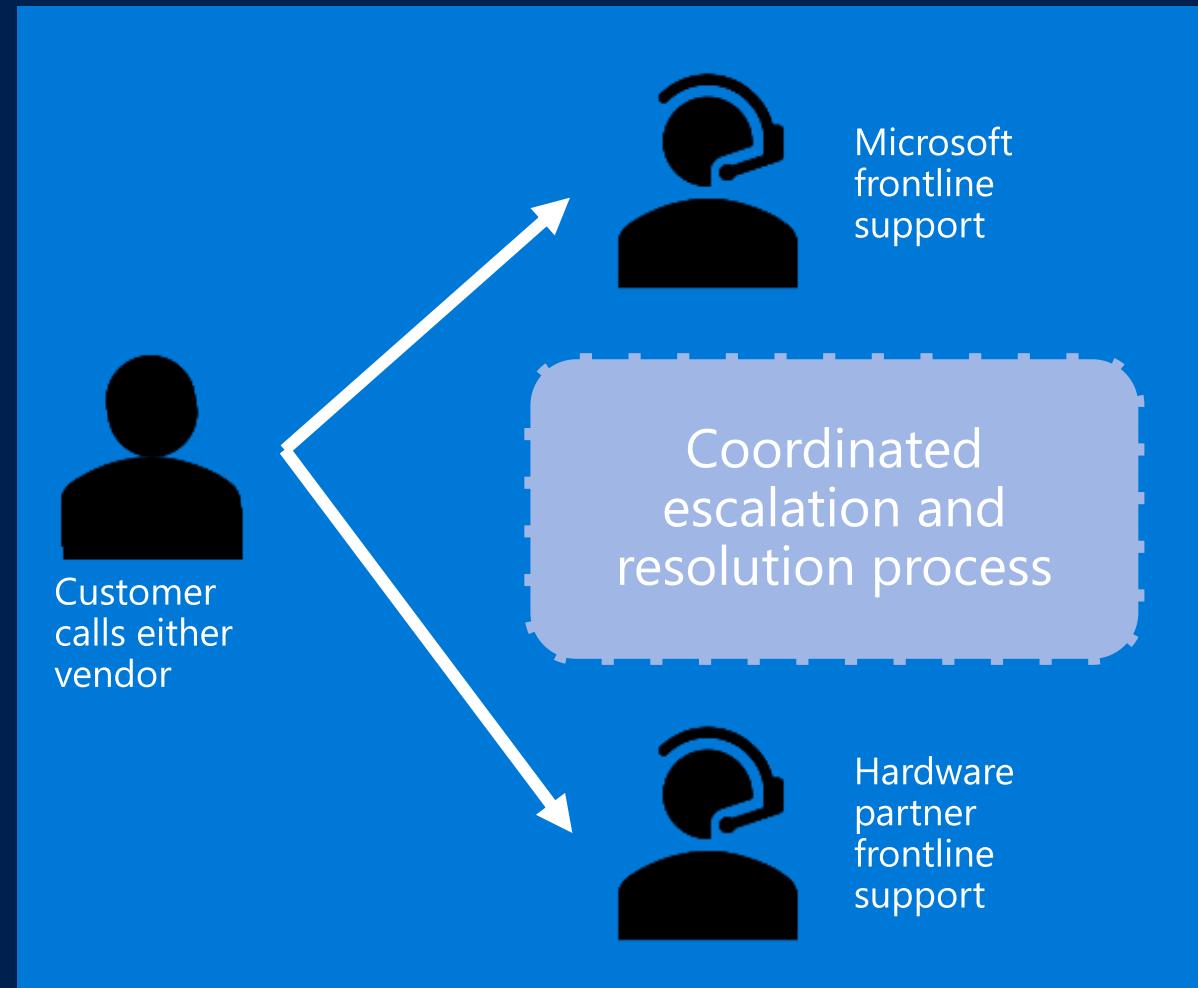


End-to-end  
Support

Get consistent  
support, no matter  
who you call

# Integrated support experience

- Consistent support experience no matter who you contact for support
- Coordinated escalation and resolution process
- Cloud services support delivered by Microsoft
- System support delivered by hardware partners



# Azure Stack integrated systems



Hewlett Packard  
Enterprise



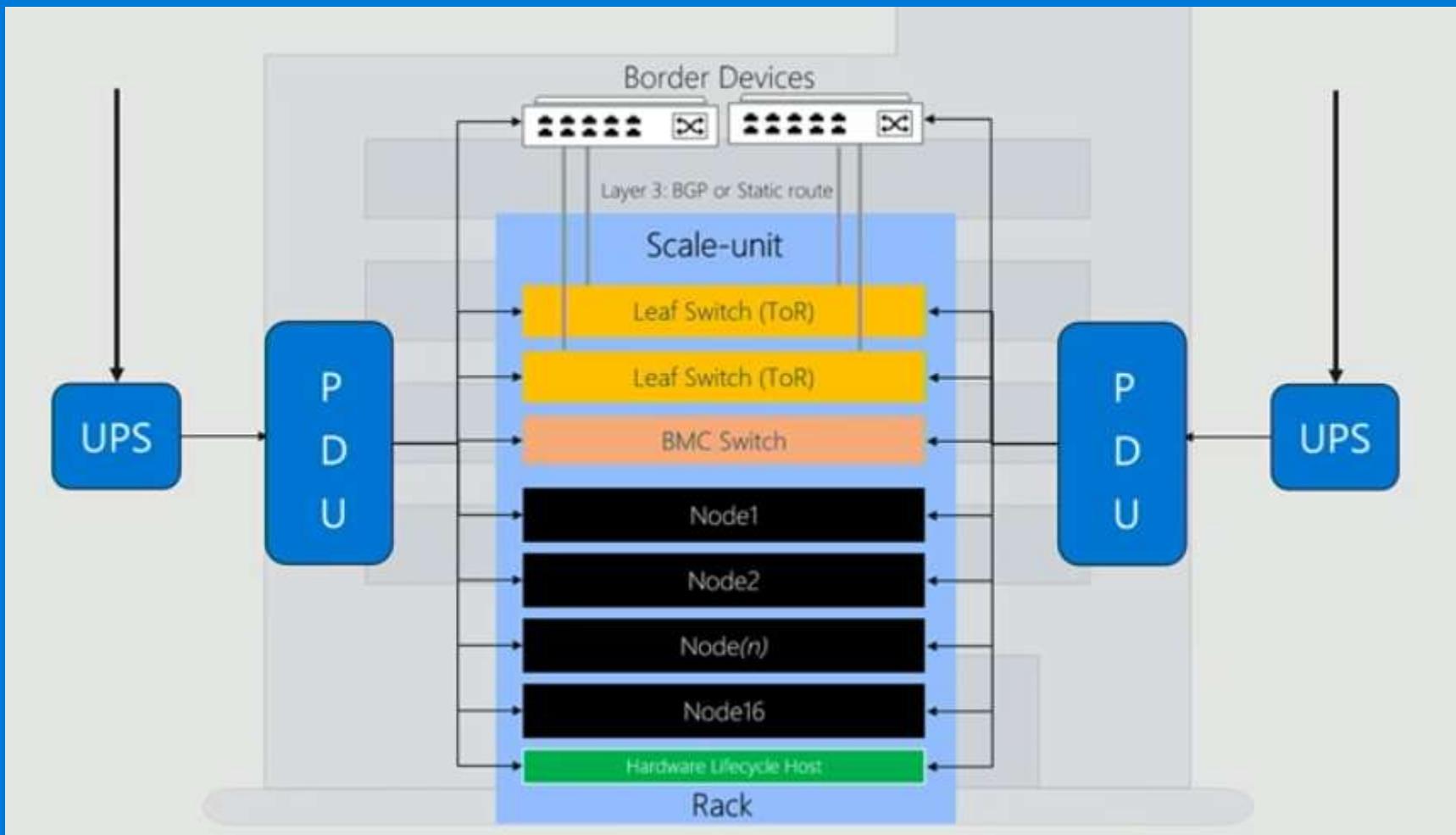
Lenovo



WORTMANN AG

Joint design, continuous co-validation



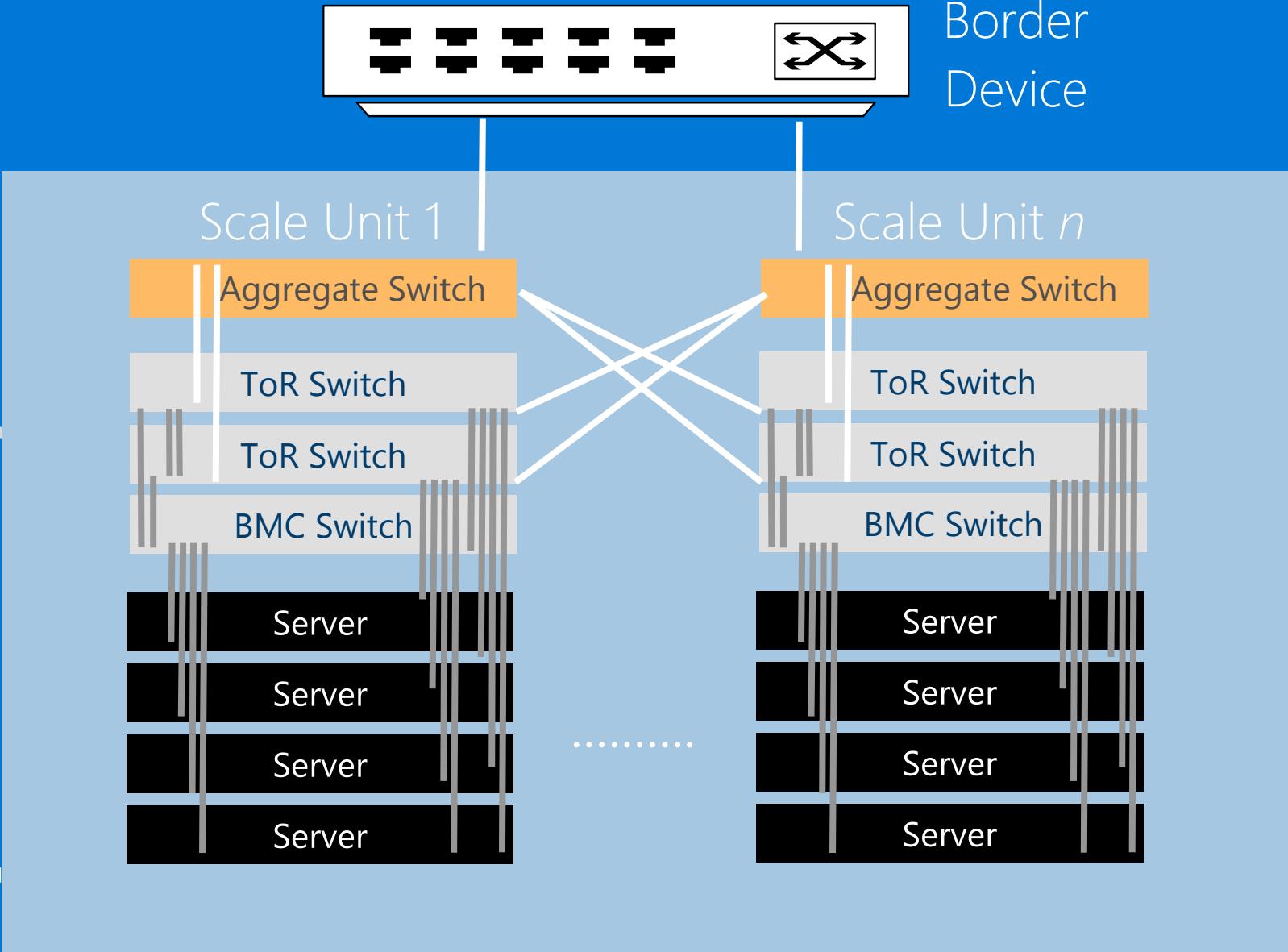


# Integration in your datacenter (CY19)

Datacenter  
monitoring/ticketing/  
hardware monitoring  
SCOM MP

Identity Integration  
(Tenant & Cloud  
Admin)

Space, Power  
& Cooling



# Azure Stack VM sizes (initial release)

Direct alignment with Azure VMs

More sizes added over time

## Azure VM Name vCPU cores Memory: GiB Local-Temp

Standard_A0	1	0.75	10
Standard_A1	1	1.75	10
Standard_A2	2	3.5	20
Standard_A3	4	7	40
Standard_A4	8	14	80
Standard_A5	2	14	80
Standard_A6	4	28	100
Standard_A7	8	56	200

Supported VM Sizes: <https://docs.microsoft.com/en-us/azure/azure-stack/user/azure-stack-vm-sizes>

Supported OS Details:  
<https://docs.microsoft.com/en-us/azure/azure-stack/azure-stack-supported-os>

## Azure VM Name vCPU cores Memory: GiB Local-Temp

Standard_D1	1	3.5	50
Standard_D2	2	7	100
Standard_D3	4	14	200
Standard_D4	8	28	400
Standard_D11	2	14	100
Standard_D12	4	28	200
Standard_D13	8	56	400
Standard_D14	16	112	800

## Azure VM Name CPU cores Memory: GiB Local-Temp

Standard_D1_v2	1	3.5	50
Standard_D2_v2	2	7	100
Standard_D3_v2	4	14	200
Standard_D4_v2	8	28	400
Standard_D5_v2	16	56	800
Standard_D11_v2	2	14	100
Standard_D12_v2	4	28	200
Standard_D13_v2	8	56	400
Standard_D14_v2	16	112	800

# Azure Stack VM sizes (1804 Update)

Azure VM Name	vCPU cores	Memory: GiB	Local-Temp
Standard_A1_v2	1	2	10
Standard_A2_v2	2	4	20
Standard_A4_v2	4	8	40
Standard_A8_v2	8	16	80
Standard_A2m_v2	2	16	20
Standard_A4m_v2	4	32	40
Standard_A8m_v2	8	64	80

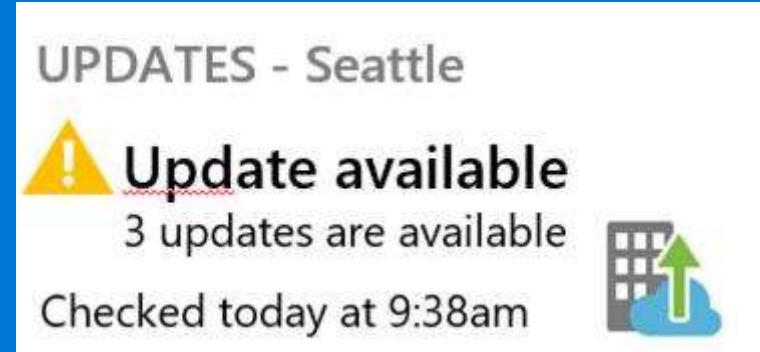
Supported VM Sizes: <https://docs.microsoft.com/en-us/azure/azure-stack/user/azure-stack-vm-sizes>

Supported OS Details:  
<https://docs.microsoft.com/en-us/azure/azure-stack/azure-stack-supported-os>

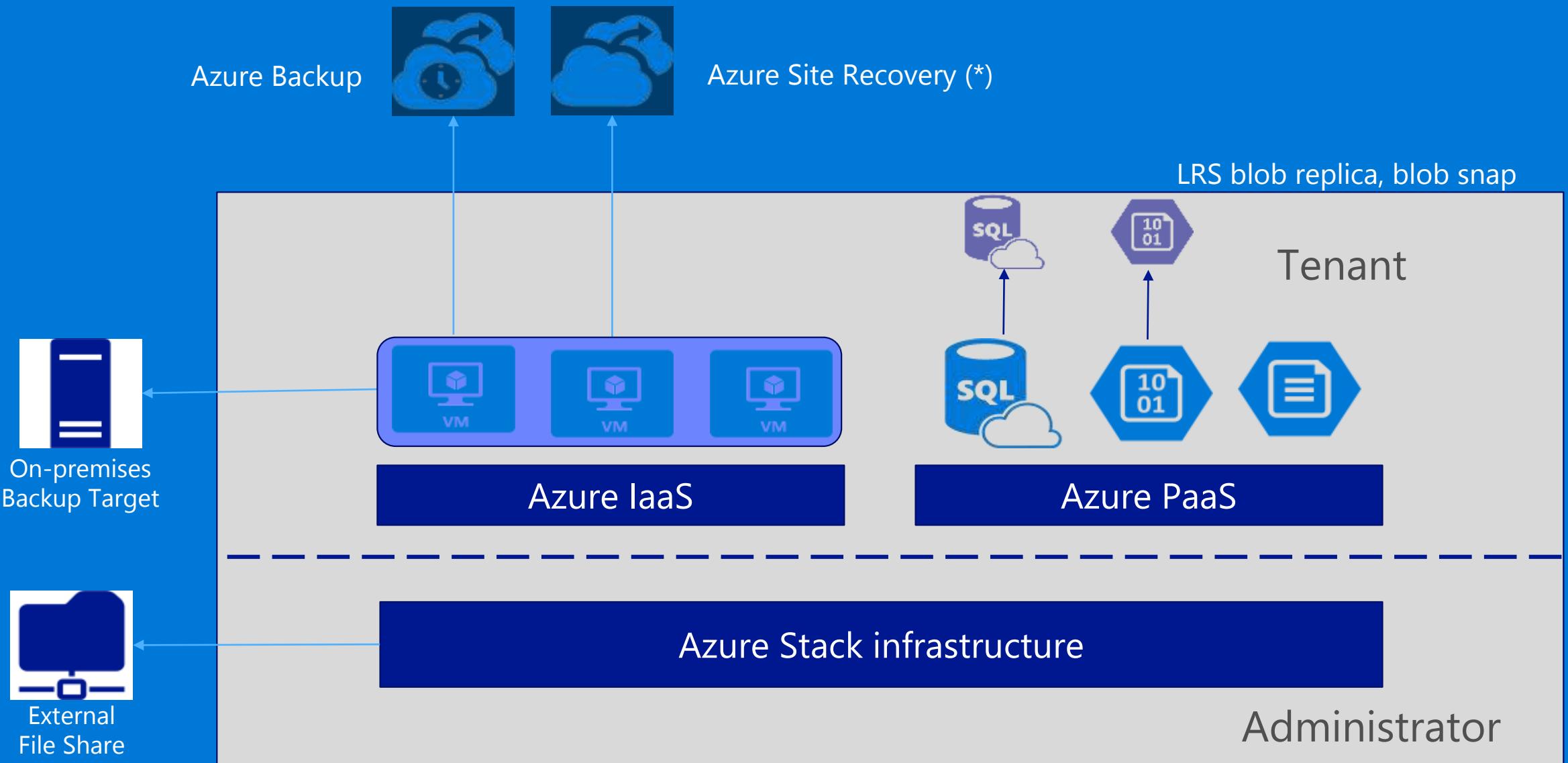
Azure VM Name	vCPU cores	Memory: GiB	Local-Temp
Standard_F1	1	2	16
Standard_F2	2	4	32
Standard_F4	4	8	64
Standard_F8	8	16	128
Standard_F16	16	32	256
Azure VM Name	vCPU cores	Memory: GiB	Local-Temp
Standard_F1s	1	2	4
Standard_F2s	2	4	8
Standard_F4s	4	8	16
Standard_F8s	8	16	32
Standard_F16s	16	32	64
Azure VM Name	vCPU cores	Memory: GiB	Local-Temp
Standard_F2s_v2	2	4	16
Standard_F4s_v2	4	8	32
Standard_F8s_v2	8	16	64
Standard_F16s_v2	16	32	128
Standard_F32s_v2	32	64	256
Standard_F64s_v2	64	128	512

# Azure Stack: Patching & Update

- Pre-validated updates for software (features and security), firmware, and drivers by Microsoft and partners
- Frequent updates delivered to a known cadence, customer chooses when to take them; policy dictates maximum deferral window
- Automated application of updates across entire infrastructure, designed to minimize disruption of customer workloads

A screenshot of the Azure Stack Update Details interface. At the top, it says 'Update Details'. Below that, it shows 'VERSION 1601', 'DATE AVAILABLE 2016-01-02', 'DATE STARTED 2016-01-11', 'STARTED BY MAS\_ADMIN', 'DURATION (HH:MM) 01:03 (in progress)', and 'PACKAGE SIZE 5.2 MB'. At the bottom, it says 'DETAILS For more info see <HTTP://support.MAS.com/kb/3014412>'. Below this, there is a table with columns 'NAME', 'PROGRESS', 'STATUS', and 'DURATION'. The rows show: NC (50% completed, In progress, 00:49), SLB (12% completed, In progress, 00:12), Gateway (5% completed, In progress, 00:08), Console (Not started), WOSS (Not started), and WSUS (Not started).

# Azure Stack: Backup and Disaster Recovery



(\*) No failback with ASR is available at this time.

# Azure Stack BC/DR partners

**Acronis**

**actifio**

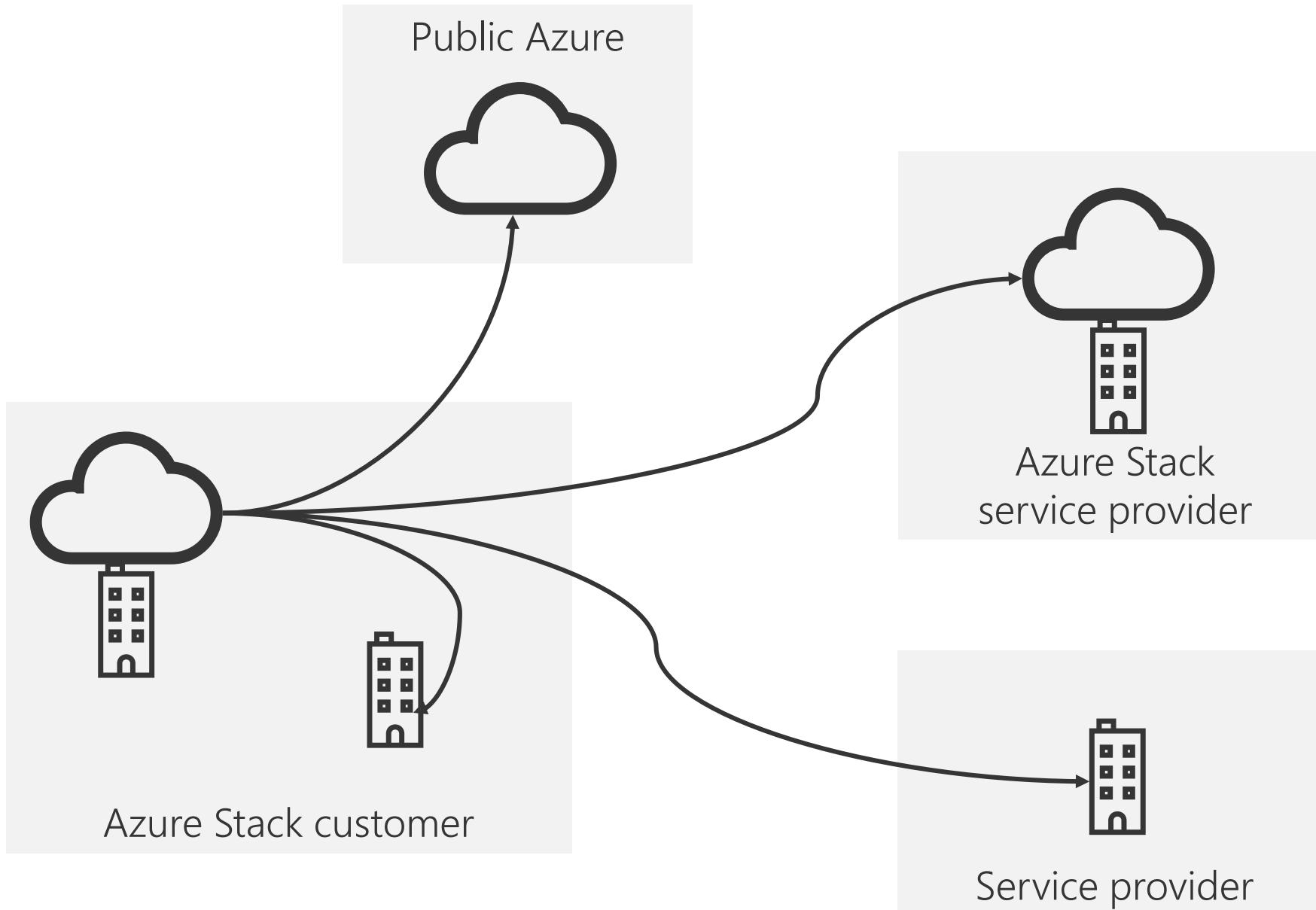
**CARBONITE**

**COMMVAULT**

<https://azure.microsoft.com/en-us/blog/protecting-applications-and-data-on-azure-stack/>

Partner - product name	Validation complete	More information
Azure Backup Server	Complete	<a href="https://azure.microsoft.com/en-us/blog/backup-your-applications-on-azure-stack-with-azure-backup/">https://azure.microsoft.com/en-us/blog/backup-your-applications-on-azure-stack-with-azure-backup/</a>
Azure Site Recovery	Complete	<a href="https://docs.microsoft.com/en-us/azure/site-recovery/azure-stack-site-recovery/">https://docs.microsoft.com/en-us/azure/site-recovery/azure-stack-site-recovery/</a>
Acronis	Complete	<a href="https://acronis.com/business/backup">https://acronis.com/business/backup</a>
Actifio	Complete	<a href="https://www.actifio.com/azure-stack-data-protection">https://www.actifio.com/azure-stack-data-protection</a>
Carbonite	Complete	<a href="https://www.carbonite.com/data-protection/high-availability/">https://www.carbonite.com/data-protection/high-availability/</a>
Commvault	Complete	<a href="https://www.commvault.com/solutions/by-technology/virtual-machine-and-cloud/microsoft-azure">https://www.commvault.com/solutions/by-technology/virtual-machine-and-cloud/microsoft-azure</a>
Dell EMC	Complete	<a href="https://www.dellemc.com/en-us/solutions/cloud/microsoft-azure-stack.htm">https://www.dellemc.com/en-us/solutions/cloud/microsoft-azure-stack.htm</a>
Micro Focus	Complete	<a href="#">Press Release</a>
Quest	Complete	<a href="#">Blog post</a>
Rubrik	Complete	<a href="https://www.rubrik.com/solutions/azure-stack/">https://www.rubrik.com/solutions/azure-stack/</a>
Veritas	Complete	<a href="https://www.veritas.com/solution/microsoft-cloud">https://www.veritas.com/solution/microsoft-cloud</a>
Zerodown	Complete	<a href="http://www.zerodownsoftware.com/azure-stack/">http://www.zerodownsoftware.com/azure-stack/</a>

# Protecting applications and data on Azure Stack



- Secure connections using S2S VPN and ExpressRoute
- Protect workloads across your datacenters, to a service provider, or directly to Azure
- User-driven experience
- Flexibility to enable protection at multiple levels – application, OS, volume
- Flexibility to use the products you trust

# Two ways to purchase Azure Stack

## A system you manage

Typically on your premises

You control management and ops

Buy hardware from the vendor

Buy Azure Stack from Microsoft or OEM

Call Microsoft for support

## A managed service

Typically at service provider premises

Managed for you

Buy service from service provider  
(inclusive of hardware and software)

You call Service Provider for support

# Azure Stack licensing models

Consumption

- No upfront licensing fees: don't pay until you use the service
- Same subscriptions, monetary commitment, invoice as Azure
- EA and CSP channels

Capacity

- Fixed fee, annual subscription, based on number of physical cores
- No usage metering or connection to commerce
- EA channel only (no CSP)

# Pay-as-you-use model

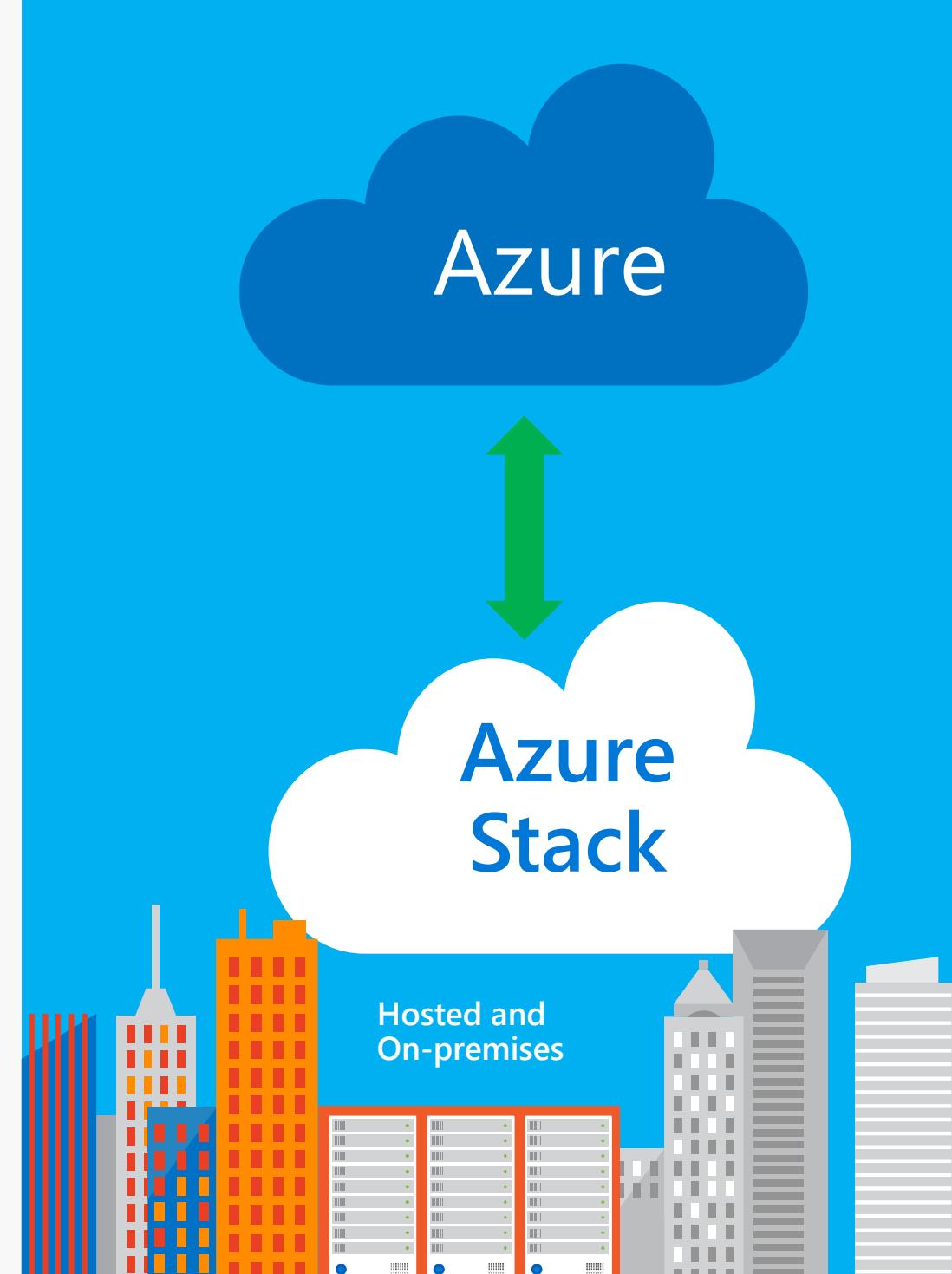
Extension of Azure business model

Fee for consumption: only pay for services running on Azure Stack

No upfront licensing fees: don't pay until you use the service

Compatible with Azure: same subscriptions, monetary commitment, invoice

EA and CSP channels



# Pay-as-you-use pricing

## Pay-as-you-use Pricing

Service	Price
Up-Front Licensing	Azure Stack initial deployment <i>\$0 – no upfront licensing fees</i>
Consumption-Based Fees	Cloud Infrastructure; Management, Security, & Identity; Networking; Service Fabric  Virtual Machines: Base VM  Virtual Machines: with Windows Server  Azure Blob Storage Service  Azure Tables & Queues Storage Service  Azure App Service (including Azure Functions)
	\$0  <i>\$0.008/vCPU/hour (\$6/vCPU/month)</i>  <i>\$0.046/vCPU/hour (\$34/vCPU/month)</i>  <i>\$0.006/GB/month</i>  <i>\$0.018/GB/month</i>  <i>\$0.056/vCPU/hour (\$42/vCPU/month)</i>

- *Customers can bring their own Windows Server and SQL Server licenses to run on Base VM images*
- *Windows Server BYOL – must license the entire region*

# Capacity model

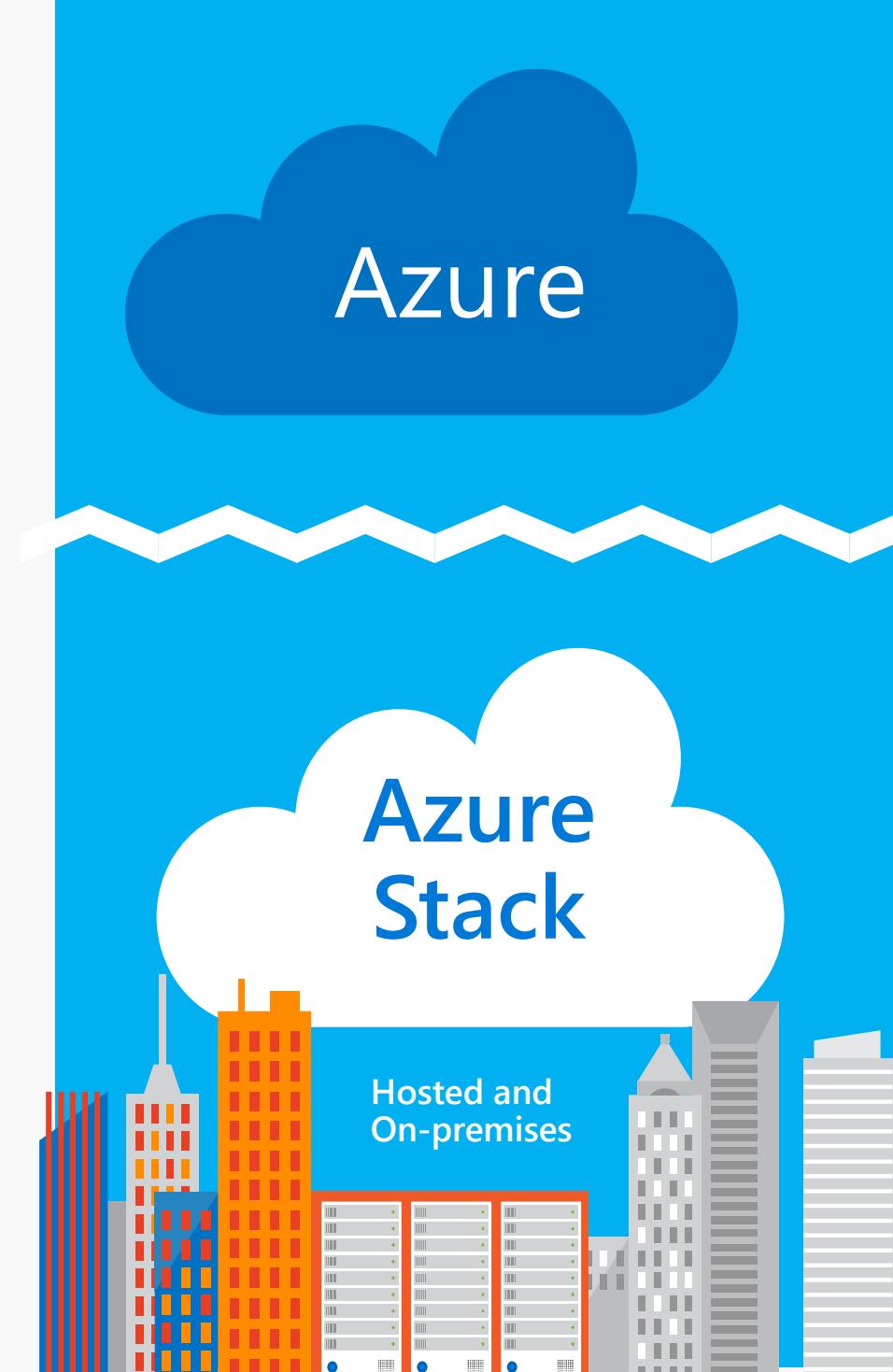
For disconnected scenarios: no usage metering or connection to commerce

Fixed fee, annual subscription: based on number of physical cores

License **all physical cores** on a stamp, with unlimited IaaS rights

Separate transaction from Azure: cannot use monetary commit, different billing

EA channel only



# Capacity model pricing

## App Service Package

\$400/**physical core/year**

- Includes: App Service, Base VM, Azure Storage
- Must license all **physical cores** on the deployment
- Windows Server and SQL Server are BYOL (on-premises license)

## IaaS Package

\$144/**physical core/year**

- Base VM, Azure Storage only
- Must license all **physical cores** on the deployment
- Windows Server and SQL Server are BYOL (on-premises license)

# Using Existing Licenses on Azure Stack

Windows Server  
SQL Server

- Use existing licenses, pay only base VM price
- Alternative to Windows Server hourly prices on Azure Stack
- Azure Hybrid Use Benefit and License Mobility not required for dedicated deployments
- Must comply with all existing product terms

# On-premises licenses with Azure Stack

- Windows Server VMs deployed using either native Windows Server VM image in Azure Stack (hourly meter) or on-premises Windows Server licenses in conjunction with Azure Stack base VMs
- Deploy SQL Server with on-premises SQL Server licenses in conjunction with Windows VMs
- AHUB/ License mobility not needed for dedicated environments
- On-premises software use should comply with on-premises licensing terms

## Pay-as-you-go Azure Stack with On-Prem Windows Server and SQL Server

Azure Stack Services <i>(excl. Windows VMs)</i>	Windows Server				SQL Server			
	Native Azure Stack WS VM Meter	or	On-Prem Service Provider License	or	On-Prem End Customer License	On-Prem Service Provider License	or	On-Prem End Customer License
<b>Dedicated Hosting</b> <i>Single customer per Azure Stack region</i>	CSP	CSP	SPLA + base VM		EA + base VM	SPLA + Windows VM		EA + Windows VM
<b>Multi-tenant Hosting</b> <i>Multiple different customers per Azure Stack region</i>	CSP	CSP	SPLA + base VM		n/a – AHUB not enabled	SPLA + Windows VM		EA w/ license mobility + Windows VM

# Azure Stack key concepts

## What it is

Application focused hybrid cloud platform

Integrated system offering Azure-consistent IaaS & PaaS

Regularly updated for Azure consistency

Dependent on organizational change and transformation

## What it isn't

Virtualization-replacement play

DIY infrastructure

Static system you deploy & forget

"Same ol' way" of doing the business of IT

## Why it matters

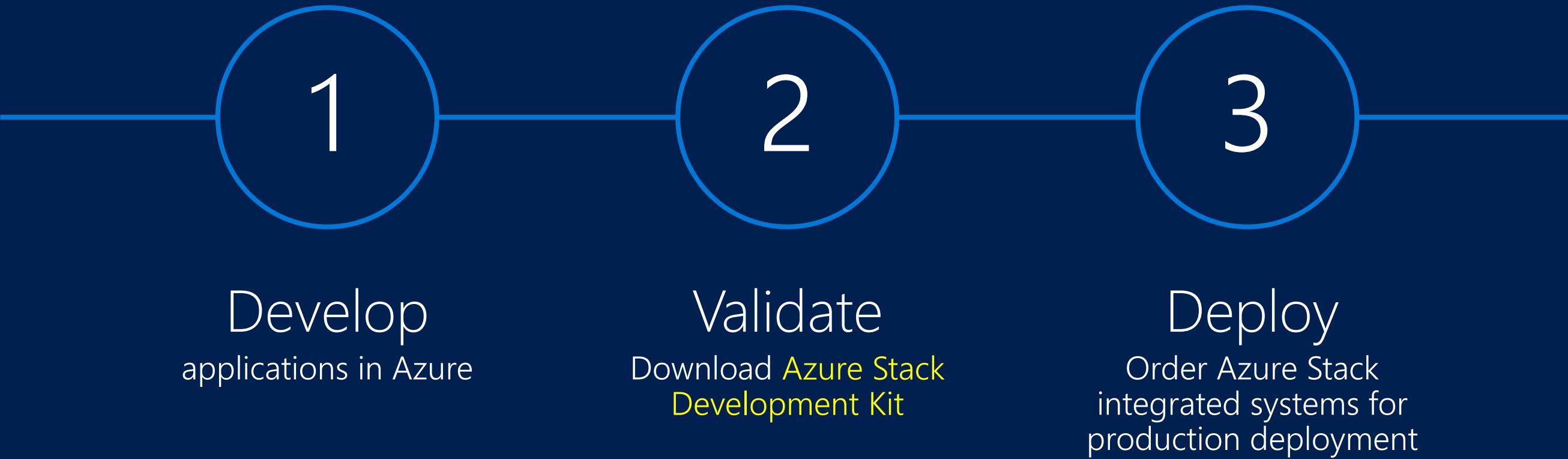
Intended for cloud-native applications

Only way to run Azure-consistent services in the data center

Cloud cadence must be maintained

Focus shifts from being the IT provider to service delivery

# Get going with Azure Stack



# Resource Links - 1

Public Site

Public Documentation

FAQ

Whitepaper

What's New in Azure Stack

Use cases

How to Buy

Azure Stack Pricing

Channel9 videos

<https://channel9.msdn.com/Blogs/azurestack>

<https://channel9.msdn.com/blogs/Get-Started-with-Azure-Stack>

Technical videos on YouTube “Ignite Channel” [Azure Stack videos](#)

Youtube “Azure Stack” Channel [here](#)

More Azure Stack videos on Youtube

aka.ms/azurestack

aka.ms/azurestackdocs

aka.ms/as\_faq

aka.ms/Azurestackwhitepaper

aka.ms/azurestackwhatsnew

aka.ms/as\_usecase

aka.ms/as\_how\_to\_buy

aka.ms/as\_pricing

aka.ms/AzureStack/Youtube

# Resource Links - 2

Capacity Planner/Sizing

aka.ms/azstackplanner

Datasheet

aka.ms/as\_product\_datasheet

Roadmap

<https://azure.microsoft.com/en-us/updates/?product=azure-stack>

eBook

[Azure Stack: Building an end-to-end validation environment](#)

Customer Licensing Guide aka.ms/as\_licensing\_guide\_customer

MSP Licensing Guide aka.ms/as\_licensing\_guide\_serviceprovider

Field licensing Guide aka.ms/as\_field\_licensing\_guide

Field Guide (INTERNAL) aka.ms/as\_field\_guide

Infopedia (INTERNAL) aka.ms/infopediaazurestack

Geo Guidance aka.ms/as\_geo\_msg\_guidance\_doc

Azure Stack Forum aka.ms/azurestackforum

# Resource Links - 3

OEMs/Hardware Partners

aka.ms/as\_integrated\_system

Cisco Blog

<https://blogs.cisco.com/tag/azure-stack>

Dell Blog

aka.ms/as\_dell EMC\_launch\_blog

HPE Blog

aka.ms/as\_hpe\_launch\_blog

Lenovo Blog

aka.ms/as\_lenovo\_launch\_blog

Azure Stack EcoSystem

aka.ms/as\_ecosystem

Syndication Partners

aka.ms/azurestacksyndication

Partner Whitepaper

aka.ms/as\_whitepaper\_eco

Early Adaptor Initiative (EAI) Program for Service Providers

[www.azurestackaccelerator.com](http://www.azurestackaccelerator.com) – requires MPN membership

Register for EAI webinars

[here](#)

Recordings of previous webinars and PPTs

[here](#) and [video gallery](#)

# Resource Links - 4

## [Free eBook \(Building Hybrid Clouds with Azure Stack\)](#)

Launch Blog

[aka.ms/as\\_launch\\_blog](http://aka.ms/as_launch_blog)

Forums

[aka.ms/as\\_support\\_forum](http://aka.ms/as_support_forum)

Yammer

[Yammer](#)

Links to other resources

[aka.ms/azurestackkaguide](http://aka.ms/azurestackkaguide)

App Services Overview

[aka.ms/as\\_azure\\_app\\_services](http://aka.ms/as_azure_app_services)

Twitter

[#AzureStack on Twitter](#)

YouTube

[aka.ms/AzureStack/YouTube](#)

# Resource Links (ASDK etc)- 5

Azure Stack Tools

[aka.ms/as\\_azurestack\\_tools](http://aka.ms/as_azurestack_tools)

Download ASDK

[aka.ms/as\\_azurestack\\_try](http://aka.ms/as_azurestack_try)

Deployment Checker

[aka.ms/as\\_deploy\\_checker](http://aka.ms/as_deploy_checker)

Prereq Checker

[aka.ms/as\\_deploy\\_prereq](http://aka.ms/as_deploy_prereq)

ASDK Guide

[aka.ms/as\\_deploy\\_quickstart\\_overview](http://aka.ms/as_deploy_quickstart_overview)

Deployment

[aka.ms/azurestackdeployment](http://aka.ms/azurestackdeployment)

Post Install Script (PaaS)

[aka.ms/configasdk](http://aka.ms/configasdk)

Templates

[aka.ms/as\\_quickstart\\_templates](http://aka.ms/as_quickstart_templates)

# Customer Ready Trainings - 1

Learning Resources	Where to find them?	Available When?	Cost	What are they?
Azure Stack Documentation	<a href="http://aka.ms/AzureStackDocs">aka.ms/AzureStackDocs</a>	Now	Free	Updated continuously
Azure Learning Path for Azure Stack Operator	<a href="http://aka.ms/AzSOoperatorLearningPath">aka.ms/AzSOoperatorLearningPath</a>	Now	Free	Short videos (1 hour) to bring you basic knowledge on Azure Stack
Azure Stack Operator training Microsoft Official Course	<a href="http://www.microsoft.com/en-us/learning/course.aspx?cid=20537">www.microsoft.com/en-us/learning/course.aspx?cid=20537</a>	Now	Fee-based	Offered as either on-demand or 5-day instructor-led classroom-based training course with hands-on labs.
Azure Stack Mooc (OpenEdx online) course	<a href="http://aka.ms/AzureStackMOOC">aka.ms/AzureStackMOOC</a>	Oct 2018	Free	Self-paced online course with hands-on labs and interactive multi-media enabled contents. Approximate 35-40 hours study time.
Azure Stack Operator Certification Exam	<a href="http://aka.ms/exam537">aka.ms/exam537</a>	May 2018	Fee-based	Microsoft Certification for Azure Stack Operator

# Customer Ready Trainings - 2

Learning Resources	Where to find them?	Available When?	Cost	What are they?
Skill Me Up Training	<a href="https://skillmeup.com/courses/player/implementing-azure-stack">https://skillmeup.com/courses/player/implementing-azure-stack</a>	Now	Fee-based (\$10)	“Implementing Azure Stack” A 7-hour video series on Azure Stack
Skill Me Up Training	<a href="https://skillmeup.com/courses/player/architecting-hybrid-solutions-with-azure-stack">https://skillmeup.com/courses/player/architecting-hybrid-solutions-with-azure-stack</a>	Now	Fee-based (\$10)	“Architecting Hybrid Solutions with Azure Stack” A 1-hour video series on Azure Stack hybrid model overview
Skill Me Up Training	<a href="https://www.skillmeup.com/courses/player/mcw-azure-stack-hol">https://www.skillmeup.com/courses/player/mcw-azure-stack-hol</a>	Now	Fee based	“Lab: Azure Stack Cloud Workshop” A 15-hour video series on implementing Azure Stack Development Kit
PluralSight Training	<a href="https://www.pluralsight.com/courses/microsoft-azure-stack-development-getting-started">https://www.pluralsight.com/courses/microsoft-azure-stack-development-getting-started</a>	Now	Fee based	“Microsoft Azure Stack Development: Getting Started” A 1-hour video series

Also check [full listing of courses from Skillmeup](#)

# Start in Azure

Will your Azure solution work on Azure Stack?

2 tools you can get from the Azure Stack Tool repository on GitHub

- Azure Resource Manager **Template Validator** for Azure Stack
- Azure Resource Manager **Policy** for Azure Stack

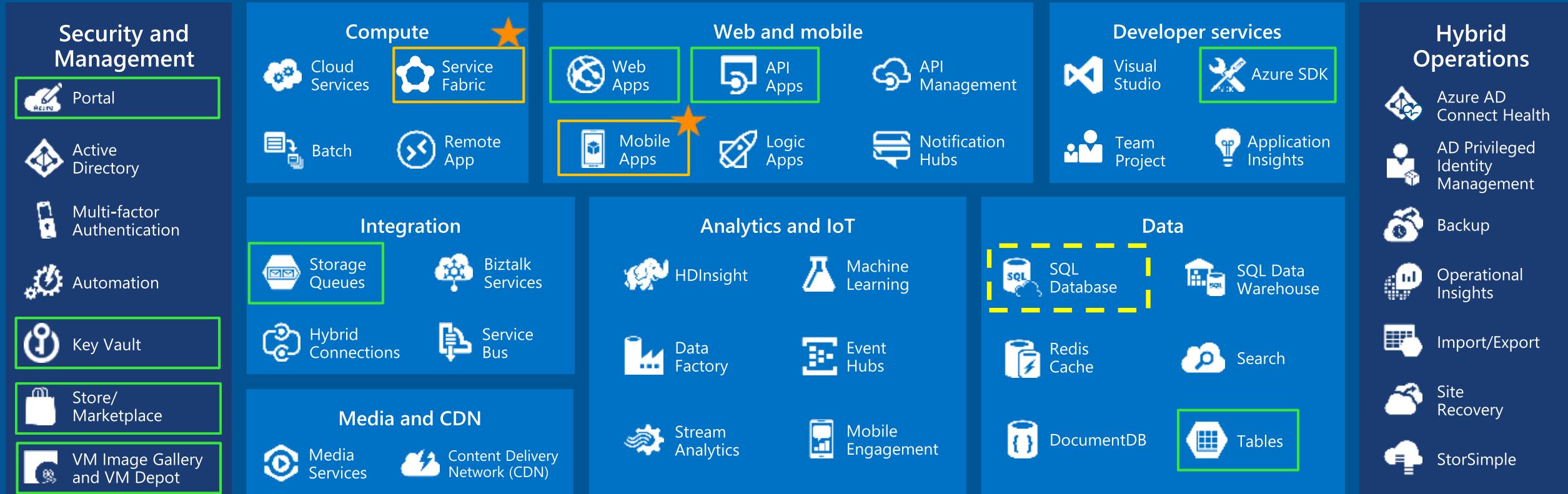
Guardrails to check your ARM template for resource dependencies that may not be available on Azure Stack



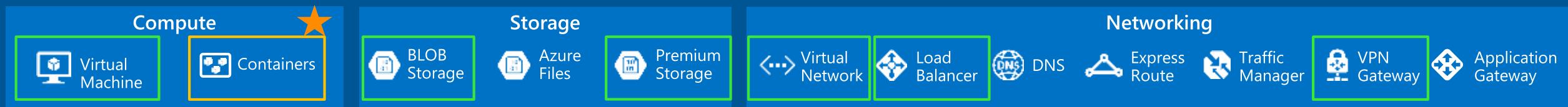
Download the tool:  
<https://github.com/Azure/AzureStack-Tools>

Thank You.

## Platform Services



## Infrastructure Services



★ - Coming soon

# Customers

Edge and disconnected solutions



Schlumberger

Cloud applications to meet varied regulations



ABSA

Cloud application model on-premises



ANZ



AVI

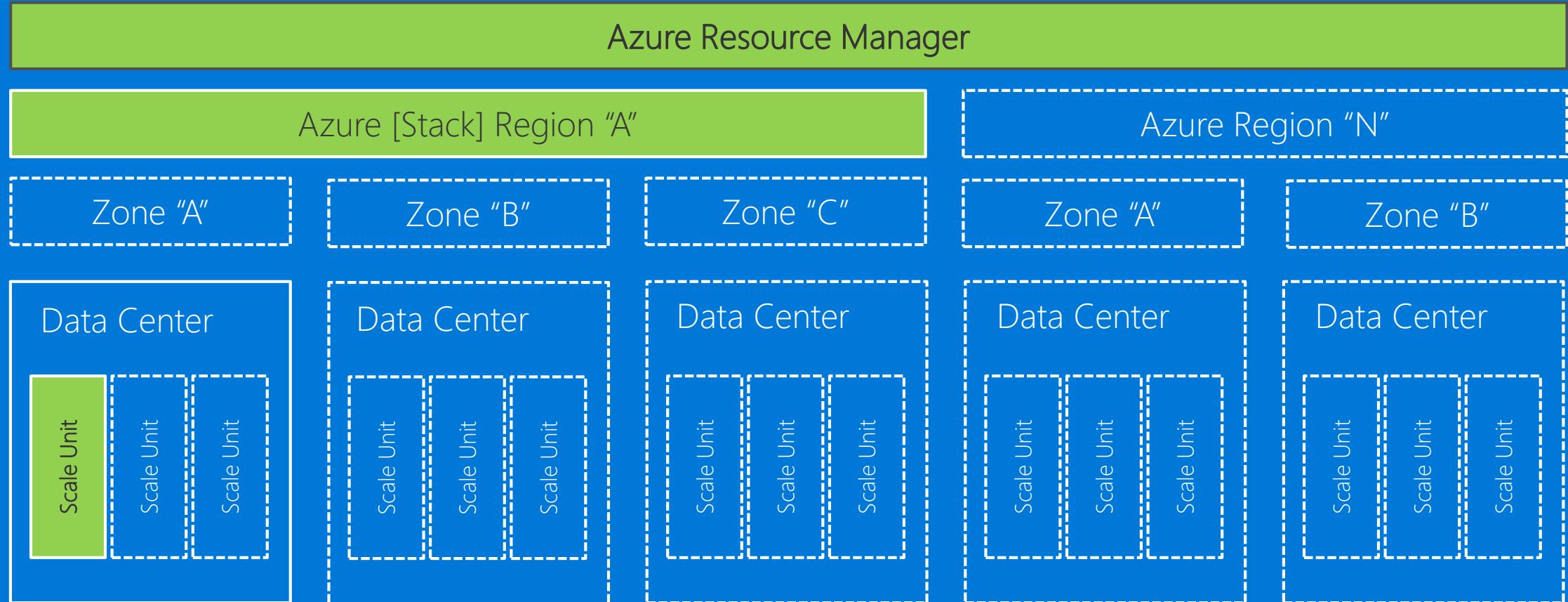


SAXO  
BANK



MKI

# Azure Stack: Thinking about scale over time



\*\* Multiple fault domains are within a single Scale Unit

\*\*\* Shaded items are delivered for Azure Stack Initial Release



Runs solutions globally using Azure

Deploys as necessary in Azure Stack to meet local data regulations

Zero changes to the application

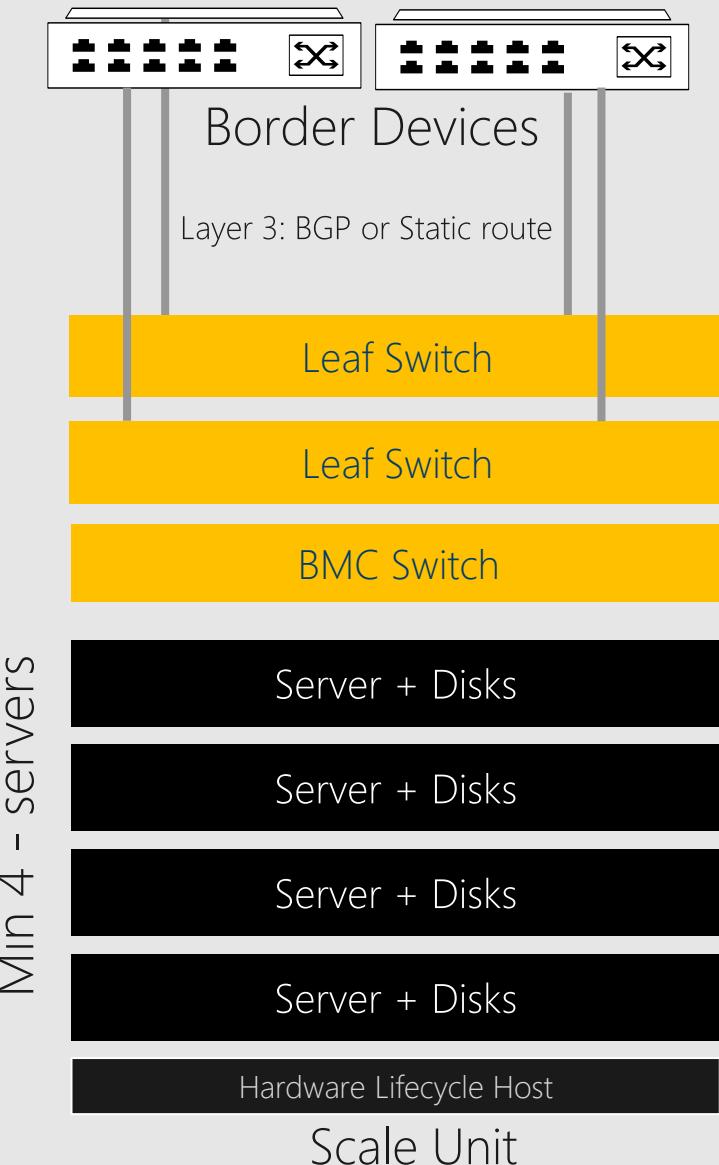


# Azure Stack integration considerations

<https://docs.microsoft.com/en-us/azure/azure-stack/azure-stack-datacenter-integration>

<https://www.youtube.com/watch?v=8YHqtDmqW1M>

- Business model
  - Pay as use OR Capacity model
- Connected or disconnected
- AAD or ADFS
- Certificates
- Network integration
  - Layer 3 to border (BGP or Static routing), DNS integration, Firewall
- Central monitoring integration



# Deployment Process and Responsibilities

## Roles

- OEM
  - IT Operations
  - Data Center
  - Security
  - Microsoft
- 
- Security
  - IT Operations
  - Support
  - Business/  
Application  
Owners
  - Microsoft

**Capacity Planning**

**Deployment Worksheet**

**Data Center Integration**

**Azure Stack Deployment**

**Post Installation Tasks**

**Support and  
Operations**

**Tenant Design and  
Planning**

**Tenant Support and  
Operations**