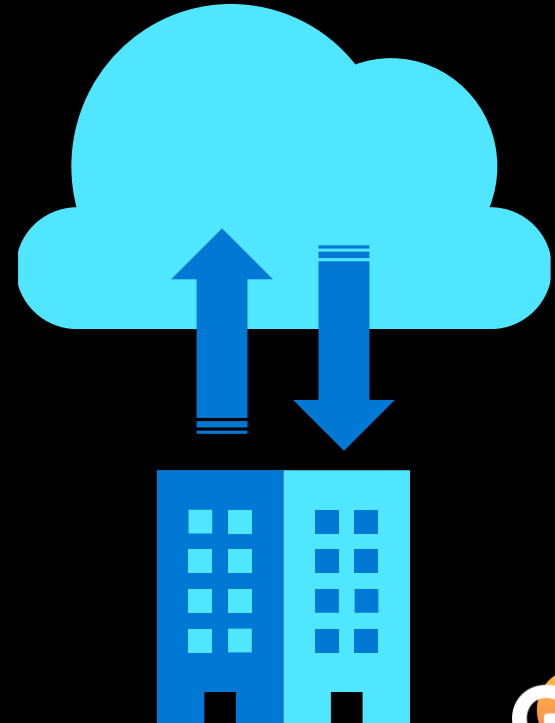# Azure VMware Solution

**Run VMware natively on Azure
and accelerate cloud migration**

Azure VMware Solution Topics and Agenda

- Microsoft 1st party Azure service, VMware Cloud Verified

- Cloud Approach and Strategy

- Service Components, billing and licensing

- Support

- Deploy and Manage

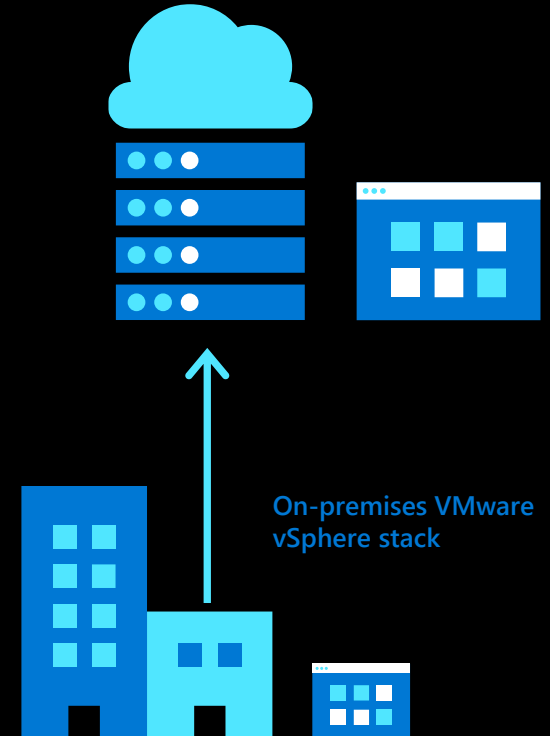- Migration

- Partnership

What is Azure VMware Solution?

It is a comprehensive VMware environment on dedicated Azure infrastructure. Built by Microsoft and VMware.

It runs your VMware workloads natively on Azure, supported and operated by Microsoft.

It allows you to manage, and secure applications across VMware environments and Microsoft Azure with a consistent operating framework.

On-premises VMware vSphere stack

Cloud migration considerations

Need for speed

Software & Hardware End of lifecycle

Urgent capacity needs
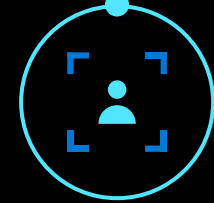
Datacenter contract expiry

Cost and complexity

Project costs, resourcing & timeline

Application refactoring or rearchitecting

Business continuity/downtime

People and processes

Impact of change management

Need for operational consistency

Need to grow cloud competency

Microsoft Azure: Infra designed for every workload

Azure

Azure-native IaaS and PaaS offerings

Modern Apps

Dynamic and Scalable

Business Critical

Seamless integration with additional Azure Services

Backup & Disaster Recovery

Management & Operations

Security & Identity

Purpose-built Azure for platform continuity

SAP

vmware

Skytap for IBM Power

NetApp

NUTANIX

Customer Transformation Journey:
Operational Efficiency

On-Prem	Migration & Modernization			Cloud-native	SaaS
App	Rehost	Refactor	Rearchitect	Rebuild/new	Replace
Data					
Infra					
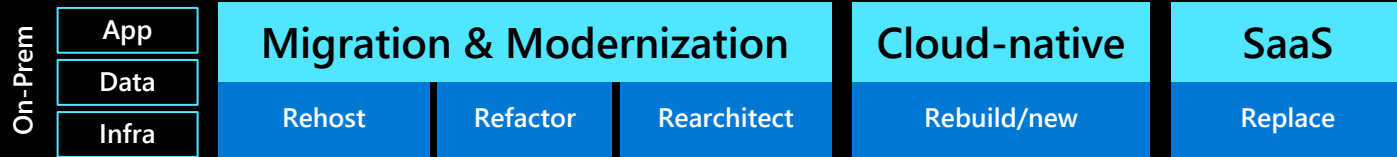
IT-oriented migration triggers
(driven by timelines)

⌄

Rehost ('lift-shift')
(use reliable Azure infrastructure, save $$ with hybrid
/EOS offers & rightsizing, stay secure/compliant)

App-oriented modernization triggers
(driven by app prioritization – decouple components)

⌄

Refactor | Rearchitect | Rebuild
(innovative operations, business continuity
and applications with Azure technologies)

Define migration projects with deadlines to address urgency; Create project migration wave plans; Avoid lengthy assessments

Cloud Migration Strategies:

Leveraging a TOGETHER strategy

Rehost

Redeploy as-is to cloud

- Reduce Capex
- Free up datacenter space
- Quick cloud ROI

IaaS and
Azure VMware Solutions
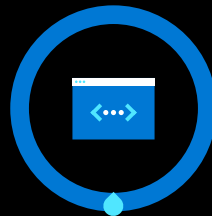**(Azure Dedicated)**

Refactor

Minimally alter to take better advantage of cloud

- Faster, shorter, updates
- Code portability
- Greater cloud efficiency (resources, speed, cost)
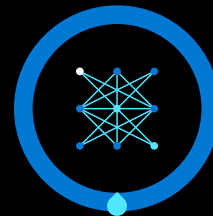
Containers
PaaS

Rearchitect

Materially alter/decompose application to services

- App scale and agility
- Easier adoption of new cloud capabilities
- Mix technology stacks

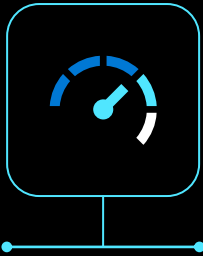**PaaS**
Serverless
Microservices

Rebuild

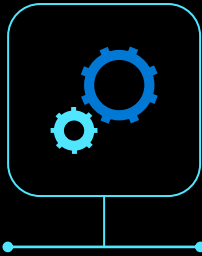**New code written with cloud native approach**

- Accelerate innovation
- Build apps faster
- Reduce operational cost

Migrate and Extend VMware workloads to the cloud

Azure VMware Solution

Built-in continuity, speed and scale with modern infra

Leverage existing VMware skills, and tools

Seamlessly modernize apps overtime with Azure

Unmatched pricing for Windows and SQL Server

Accelerate, Modernize, Simplify

Azure VMware Solution common use cases

Disaster recovery and
business continuity

Speed and simplification of
migration/hybrid cloud

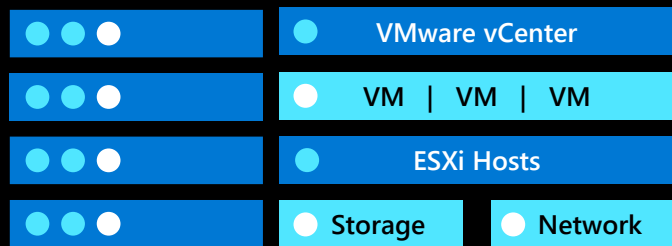Datacenter expansion,
reduction, or retirement

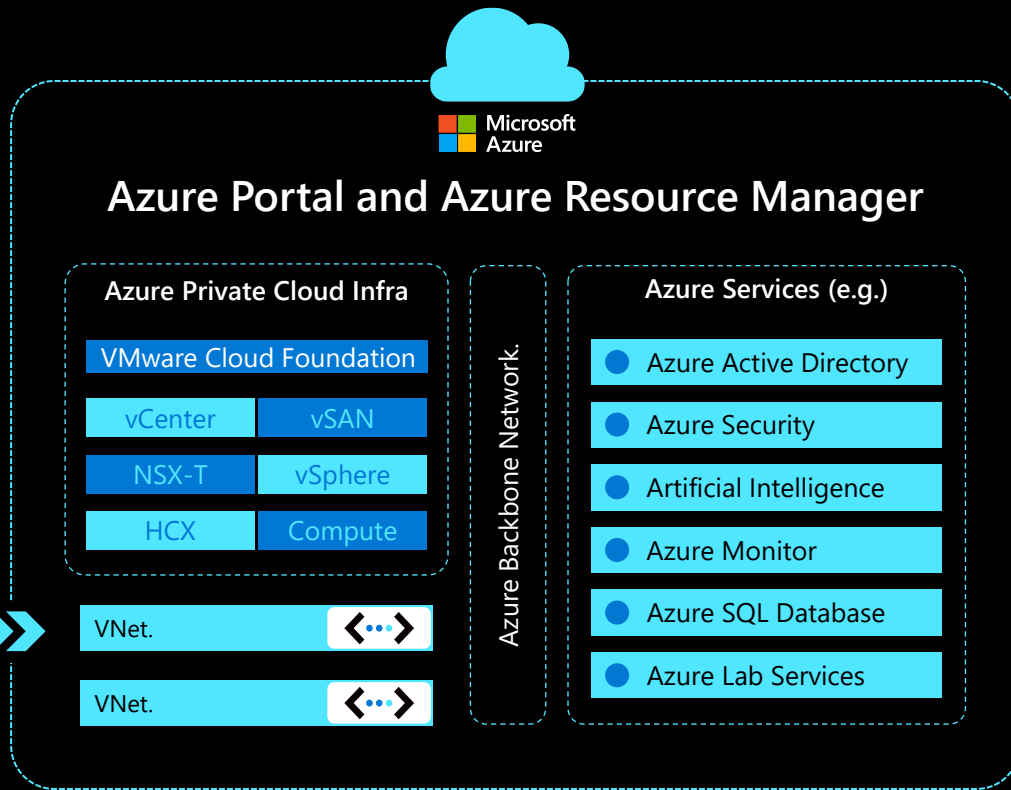Application modernization,
development and testing

Running VMware natively on Azure

VMware Technology Stack

- VMware vCenter
- VM | VM | VM
- ESXi Hosts
- Storage
- Network

ExpressRoute

Azure Portal and Azure Resource Manager

Microsoft Azure

Azure Private Cloud Infra

- VMware Cloud Foundation
- vCenter
- vSAN
- NSX-T
- vSphere
- HCX
- Compute

VNet.

VNet.

Azure Backbone Network.

Azure Services (e.g.)

- Azure Active Directory
- Azure Security
- Artificial Intelligence
- Azure Monitor
- Azure SQL Database
- Azure Lab Services

Azure VMware Solution Features
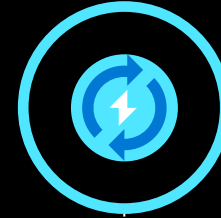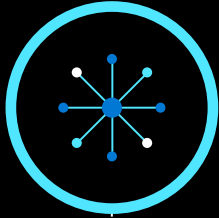
Familiar VMware technology

- Native vSphere support
- Fully featured networking stack
- vSphere management, vSAN, and NSX-T
- HCX Enterprise now available to support migration

Integration with Azure

- Management and governance
- Security
- Low-latency connectivity to Azure
- Leverage Azure ecosystem
- Single point of support
- DevOps toolchain

High performance cloud infra

- Optimized elastic infrastructure
- Automated self-service provisioning
- Dedicated, isolated, bare metal infrastructure
- Redundancy and placement control
- Security and encryption

Service components Billing and Licensing

Azure VMware Solution Software and Hardware Package

Software Specifications

ESXi - 6.7U3 Enterprise Plus

vCenter - 6.7U3 Standard

vSAN - 6.7 Enterprise

NSX-T - 2.5 Advanced

HCX - R139 Advanced

*HCX Enterprise (public preview) monthly

+

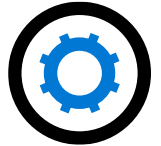## Hardware Specifications

Model – AV36 (36 cores)

CPU - Intel Xeon Gold 6140 2.3 GHz

Memory - 576 GB

Storage vSAN Caching - 2 × 1.6 TB NVMe

Storage vSAN Capacity - 8 × 1.92 TB SSD

Network - 2 - Dual Port 25 GbE

*Minimum 3 nodes per vSphere cluster
*Maximum 16 nodes per vSphere cluster
Maximum 64 nodes to an Azure Private Cloud instance

Azure pricing benefits for Azure VMware Solution

Hourly Pay as You Go (PAYG) billing

Reserved Instances	Azure Hybrid Benefit	Free Extended Security Updates
1 year or 3 years Reserved Instance discounts for Azure VMware Solution.	Bring Windows Server and SQL Server on-premises licenses with Software Assurance to Azure	3 years free security updates for Windows Server 2008 R2 SQL Server 2008 R2
Available on Azure	**Only on Azure**	**Only on Azure**
Save 30-50% on the cost of dedicated nodes with RIs		75% of the license cost to purchase standalone support

Migrate

Leverage VMware HCX to Migrate to Azure

71%
Less Staff Time
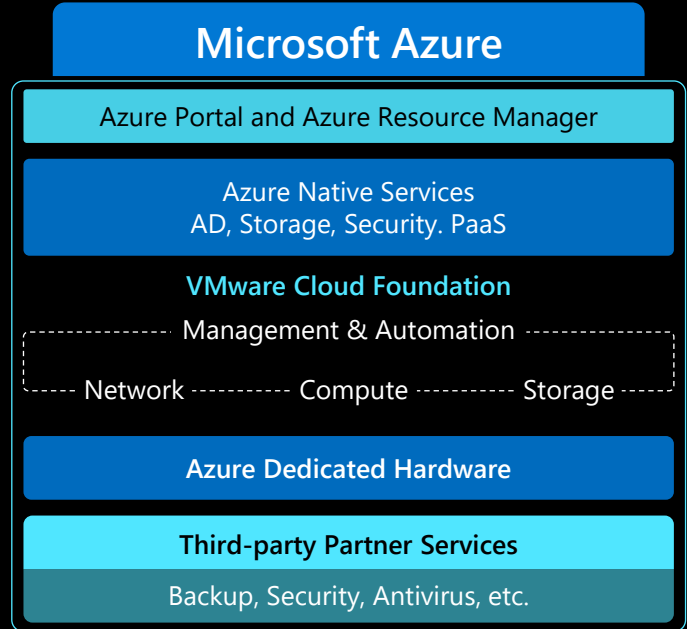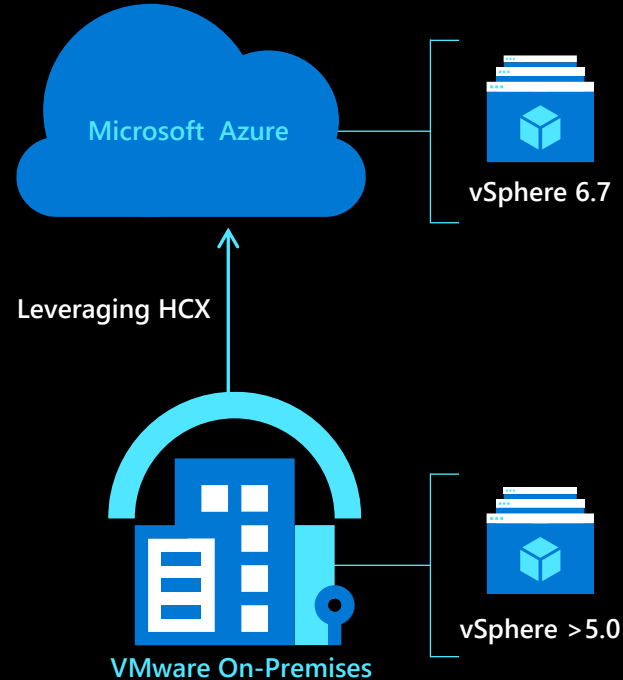
Simple   Fast   Economical

- Live migration without the cost, complexity or risk of refactoring

- Minimal downtime

- Extend proven tools, skills, policies

- Eliminate need and cost of reskilling

HCX

Microsoft Azure

Azure Portal and Azure Resource Manager

Azure Native Services
AD, Storage, Security. PaaS

VMware Cloud Foundation

Management & Automation

Network ---------- Compute ---------- Storage

Azure Dedicated Hardware

Third-party Partner Services

Backup, Security, Antivirus, etc.

Using VMware HCX for Migration to Azure VMware Solution

- Large scale **bulk migration** using HCX

- **Replication Assisted vMotion**

- Any **vSphere to vSphere** migration

- **vSphere version upgrade:** vSphere 5.0+ to any current vSphere version

- **HCX for site pairing** and DR

- **Parallel VM migration** threads

- **No change in IP,** no NAT

- **Secure proxy** for vMotion and replication traffic

Microsoft Azure

vSphere 6.7

Leveraging HCX

VMware On-Premises

vSphere >5.0

G2 CLOUD

VMware - GoToCloud

Thank you

Product Demo (Video embedded)