

# Azure VMware Solution

Capitalize on existing VMware investments, skills, and tools while leveraging the power of the cloud

“Azure VMware Solution gave us the opportunity to branch out beyond web-facing workloads in the cloud, to more of our critical infrastructure components, in a way that bolsters our environment’s resiliency.”

MARI LOVO  
DIRECTOR OF CLOUD  
INFRASTRUCTURE SERVICES  
UNIVERSITY OF MIAMI

## AT A GLANCE

- VMware SDDC running on Azure bare-metal infrastructure
- Sold, delivered, operated, and supported by Microsoft
- Operational consistency with on-premises infrastructure
- Integrated with Azure Console and Resource Manager
- Large-scale workload portability
- Access to native Azure services
- Extend with VMware attached services and partner solutions
- End-to-end customer support by Microsoft

## Challenges transitioning to the cloud

The growth and maturity of cloud computing, along with advancements in application development, have significantly contributed to the rapid transition of on-premises workloads to the cloud for organizations around the world.

However, despite all these advancements, enterprises still have difficulty quickly and effectively moving existing workloads to the cloud.

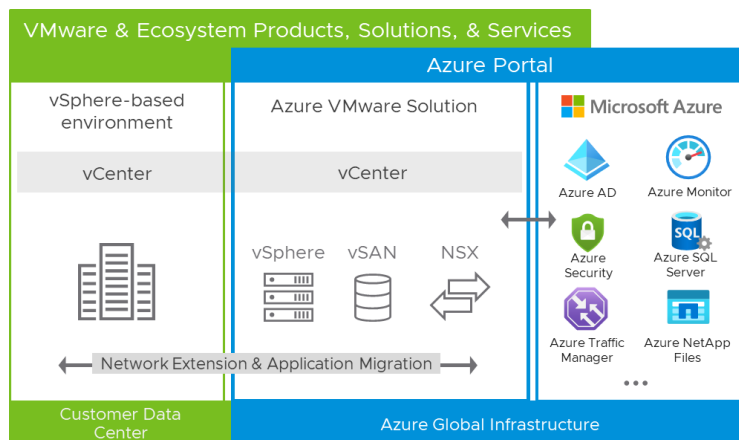
The challenges typically faced when pursuing a cloud strategy include:

- Inconsistent operations between on-premises and the cloud
- Lack of required skills and the need for new processes
- Disparate management tools and security controls
- Inconsistent application SLAs
- Incompatible machine formats
- High upfront costs for refactoring and revalidation
- Reduced agility from delays refactoring and migrating workloads

## Rising to the occasion with Azure VMware Solution

Azure VMware Solution provides a unified VMware Software-Defined Data Center (SDDC) integrating VMware vSphere®, VMware vSAN™ and VMware NSX-T™ virtualization technologies. Also included is VMware HCX®, a workload mobility platform designed to simplify migrations to the cloud.

Customers run the Azure VMware Solution SDDC natively on dedicated bare-metal Azure infrastructure and capitalize on existing VMware investments, skills, and tools. This also allows for operational consistency that leverages the scale, performance, and innovation of Azure.



#### Extend Azure VMware Solution with VMware Attached Services

A growing set of VMware services enhance Azure VMware Solution and provide increased functional and operational parity between your on-premises data center and infrastructure in the Azure cloud

- **VMware vRealize Cloud Management** - deploy, operate, and automate infrastructure and applications using vRealize components running on-premises or in the cloud
- **VMware Tanzu** - quickly deploy and operate enterprise-grade Kubernetes
- **VMware Site Recovery Manager** - automate and orchestrate disaster recovery to the cloud
- **VMware NSX Advanced Load Balancer (Avi)** - deploy local and global load balancing and Web Application Firewalls for workloads in Azure VMware Solution
- **VMware SD-WAN** - provide secure, reliable, and efficient connections to Azure VMware Solution workloads for users and application migrations

#### The value of the VMware SDDC on the Azure Cloud

The organizational benefits of extending on-premises workloads to the cloud go beyond the technological advancements. Enabling enterprises to unlock significant cost savings is another key motivation. Azure VMware Solution provides customers with the ability to reduce costs, increase efficiency, and modernize applications.

##### Best of both worlds

- VMware's enterprise software combined with the flexibility and speed of Azure

##### Zero refactoring

- 69% lower migration cost<sup>1</sup> and time reduced from years to months

##### Existing skills

- Reduce time and cost of additional training by leveraging expertise already in place

##### Cloud economics

- Lower TCO vs. traditional on-premises and native cloud environments from infrastructure and operational savings

#### The compelling economics of Azure VMware Solution

While there are other offerings that can also provide organizations with a path to the cloud, Azure VMware Solution sets itself apart with a unique set of features. It also provides additional value to organizations looking to make the jump to the cloud while addressing the needs of different stakeholders in the organization.

##### Lower cost for Microsoft applications for business owners

- Free extended security updates for Windows and SQL Server 2008 & 2012
- Support for Microsoft 365 in Horizon® virtual desktop environments
- Bring and use existing on-premises Windows and SQL Server licenses with Azure Hybrid Benefit

##### Simplify multi-environment operations for IT administration teams

- Unified consumption, licensing, and billing with other Azure services
- Support for Azure Resource Manager automation templates
- Events, alerts, and logs exposed in both environments

##### Deliver modern applications in optimized environments for developers

- Seamless access to Azure's market leading PaaS services
- Integration of VMware SDDC management into Azure portal
- Unified permissions and access control across both environments
- Deploy cloud-native applications on the VMware Tanzu enterprise-grade Kubernetes platform on Azure VMware Solution

1. IDC White Paper, sponsored by VMware, The Business Value of Hybrid Cloud with VMware, 2019

### KEY BENEFITS

- Gain continuity, scale and fast provisioning for your VMware workloads on global Azure infrastructure
- Leverage existing VMware investments, skills and tools while maintaining operational consistency with familiar technology including vSphere, HCX, NSX-T and vSAN
- Take advantage of Azure as the best cloud for your Microsoft workloads and leverage unmatched price benefits for Windows Server and SQL Server
- Modernize applications running on VMware at your pace through integration with Azure native management, security, and services

### Use cases



#### Datacenter footprint reduction and migration

Organizations can reduce their on-premises infrastructure footprint via “one-time re-deployment” of their vSphere-based workloads to Azure in a non-disruptive, automated, and scalable fashion.



#### Datacenter expansion

With flexible payment plans, organizations can quickly scale out data center capacity on-demand for seasonal, temporary, or regional needs.



#### Cloud desktop virtualization

Leverage high-performance infrastructure and fast networking for virtual desktop infrastructure (VDI) to burst on-premises virtual desktops to the cloud or protect them against disaster.



#### Application modernization

Developers can tap into Azure’s service and partner ecosystem and modernize applications as needed without having to rewrite them from scratch.



#### Disaster recovery to the cloud

Use the VMware stack deployed in Azure as a fully-consistent on-demand disaster recovery site for on-premises data center infrastructure with VMware Site Recovery Manager or partner solutions.

### Summary

As more organizations shift to the cloud, Azure VMware Solution, a jointly engineered offering from Microsoft and VMware, can simplify the process and speed up the transition, all while reducing long-term costs for customers.

For more information on Azure VMware Solution, please visit <https://www.vmware.com/cloud-solutions/azure> or contact your VMware representative.