

# Cloud Migrations with VMware Cloud™ on AWS

## SOLUTION OVERVIEW

Consistent infrastructure delivered by the same vSphere-based SDDC stack that you use on-premises

WAN-optimized, encrypted live migration of thousands of virtual machines without downtime or infrastructure retrofit

Ad-hoc migrations enabled with VMware vSphere® vMotion® for live migration, or customers can power off their virtual machines and perform a cold migration

Familiar vCenter-based management based on vSphere and vCenter APIs

Enterprise-grade infrastructure, delivered as a service with platform level capabilities to meet the needs of mission-critical applications





The need for greater agility and access to latest innovations have driven cloud infrastructures to become increasingly attractive to organizations.

Organizations migrate to the cloud to support business growth, drive digital transformations, improve development cycles and to optimize costs. During this transition, several migration and post-migration challenges emerge that increase time, risk and costs associated with successful completion of such projects:

1. **Need for re-architecting or re-factoring applications** to suit public cloud infrastructure
2. **Service disruptions** due to downtime associated while migrating mission-critical applications
3. **Learning curves and investments** associated with skillset, tools, process and governance changes needed to manage disparate cloud infrastructures
4. **Post-migration:** ensuring application performance, resiliency and scale requirements are met while optimizing resource management

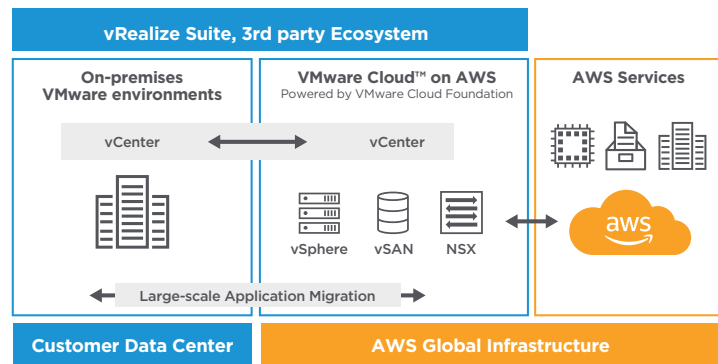
VMware Cloud on AWS solves these migration challenges by delivering a hybrid cloud service that integrates familiar VMware's flagship Software-Defined Data Center (SDDC) technologies compute, storage and network virtualization products (VMware vSphere®, VMware vSAN™ and VMware NSX®) along with VMware vCenter® management as well as robust disaster protection, and optimizes it to run on dedicated, elastic, Amazon EC2 bare-metal infrastructure.

## Why VMware Cloud on AWS

 <b>Fast</b> Reduce migration effort from multiple months to weeks	 <b>Simple and Consistent</b> No staff retraining or revamping of operational processes
 <b>Cost-effective</b> No re-factoring of applications needed	 <b>Low risk</b> Migrate live without retrofit, run your applications on familiar and proven VMware environments combined with global AWS footprint, reach and scale



Playtika, one of the world's largest global online gaming companies, seamlessly live **migrated over 650+ workloads to the cloud in just 5 days** with VMware Cloud on AWS.



## Key Capabilities

1. **Consistent infrastructure** delivered by the same vSphere-based SDDC stack that you use on-premises, with no need to re-architect or re-factor applications.
2. **WAN-optimized, encrypted live migration** of thousands of virtual machines without downtime or infrastructure retrofit delivered by VMware HCX:
  - No infrastructure retrofit. Leverage seamless, secure, bi-directional migration between vSphere 5.0+ environments and VMware Cloud on AWS – no necessity to update application, OS, Network IP or MAC
  - Customize migrations depending on workload needs. VMware HCX supports large-scale live migration with zero downtime with proactive replication seeding. It also supports warm/cold migrations at scale
  - Built-in intelligence for accelerating migrations with WAN optimization and intelligent routing
  - Advanced migration scheduling with post migration workflows to ensure the VM is running the latest VM tools and VM HW
3. **For ad-hoc migrations**, customers can also use VMware vSphere® vMotion® for live migration or power off their virtual machines and perform a cold migration.
  - Enhanced vMotion capability: Simplifies compatibility issues across CPU generations, on per VM basis and performs per VM level migration instead of cluster level
4. **Familiar vCenter-based management**, based on vSphere and vCenter APIs so your existing VMware and third-party tools continue to work without the need for re-training
5. **Enterprise-grade infrastructure**, delivered as a service with platform level capabilities that deliver the needs of mission-critical applications
  - Entire SDDC provisioned in under 2 hours and hosts added in minutes
  - Predictable, high-performance compute with vSphere, the industry's leading virtualization platform, running on elastically scalable AWS bare-metal infrastructure
  - Flexible policy-driven resource management with compute policies, reservations/limits/shares, memory ballooning, VMware vSphere® Distributed Resource Scheduler™ (DRS) and automated cluster scaling with Elastic DRS
  - Built-in resiliency with failure protection at VM, host and AWS Availability Zone level with vSphere High Availability, automated host remediation and Stretched Clusters. For region level protection, VMware Site Recovery offers flexible topologies for site protection
  - Zero-click, enterprise-class storage with vSAN, with encryption, deduplication and compression
  - Advanced networking & security services with NSX-T, including micro-segmentation

### EXPERIENCE IT TODAY

[Get a feature walkthrough](#)

[Try a Hands On Lab: VMware Cloud on AWS Getting Started](#)

### RESOURCES

Learn more about our VMware Cloud on AWS service at the [VMware Cloud on AWS website](#)

Review the [VMware Cloud on AWS Solution Brief](#) and [VMware Cloud on AWS Total Cost of Ownership](#)

Watch informative demos, overview videos, webinars and hear from our customers: [VMware Cloud on AWS on YouTube](#)

Read our latest [VMware Cloud on AWS blogs](#)

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Get started now with VMware Cloud on AWS: <https://cloud.vmware.com/vmc-aws/get-started>

[Read VMware Cloud on AWS technical documentation](#)

