VMware Cloud on AWS

Accelerate and simplify your data center migration journey

VMware Cloud on AWS solution overview

- VMware SDDC running on dedicated Amazon EC2 elastic, bare metal infrastructure

- Delivered, operated and supported by VMware and its partners

- On-demand capacity and flexible consumption

- Complete operational consistency with on-premises SDDC

- Fast and simple bi-directional workload migration

- Seamless large-scale workload portability and hybrid operations with VMware HCX

- Global AWS footprint, reach, availability

- Direct access and integration with native AWS services

- Spin up the entire SDDC in under 2 hours and scale host capacity in minutes

- Fully managed Kubernetes services with no additional cost

VMware Cloud on AWS makes moving mission-critical workloads to the public cloud easier than ever. Discover how this powerful partnership between VMware and AWS helps accelerate your digital first strategy.

Migrating existing on-premises workloads and applications to the cloud can be daunting. Applications running within your portfolio have their unique set of requirements — infrastructure interoperability, availability, compatibility and security are important considerations when evaluating your move. During this transition, several migration and post-migration challenges emerge due to differences in every component of the infrastructure stack and every aspect of IT operations between on-premises and public cloud environments that eventually increase time, risk and costs associated with the successful completion of such projects.

VMware Cloud on AWS: A push button start to faster and risk-free migration

VMware Cloud on AWS brings VMware's enterprise-class Software-Defined Data Center software to the AWS Cloud's dedicated, elastic, bare-metal infrastructure and enables customers to run business-critical applications across vSphere®-based private, public and hybrid cloud environments, with optimized access to AWS services. Jointly engineered by VMware and AWS, this on-demand service enables IT teams to rapidly extend, migrate, protect and modernize vSphere applications in AWS cloud with familiar VMware tools. VMware Cloud on AWS is delivered and supported by VMware and its partner community. This service is sold by VMware, AWS and their respective partner networks. With the same architecture and operational experience on-premises and in the cloud, IT teams can now quickly derive instant business value from use of the AWS and VMware capabilities designed to support enterprise applications.

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Case studies

KEM ONE

"Our migration to the AWS public cloud was completed in a matter of months. We save 26% on our infrastructure costs… without penalizing our 900 users for a single moment."

Jean-Yves Pottier
Head of IT Infrastructure
Kem One

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QUALITY BICYCLE PRODUCTS

"VMware Cloud on AWS was the perfect way to accelerate our move to the cloud. We could move existing applications without refactoring or rearchitecting them and have native cloud services live on the same infrastructure. Being able to offer our developers those cutting-edge tools and keep our traditional apps was a huge win for us."

Joe Van Ert
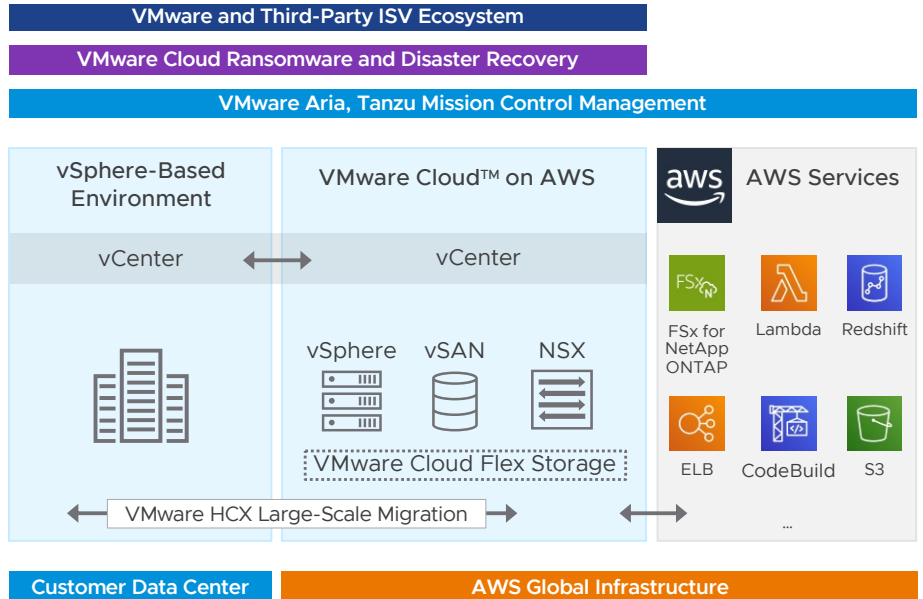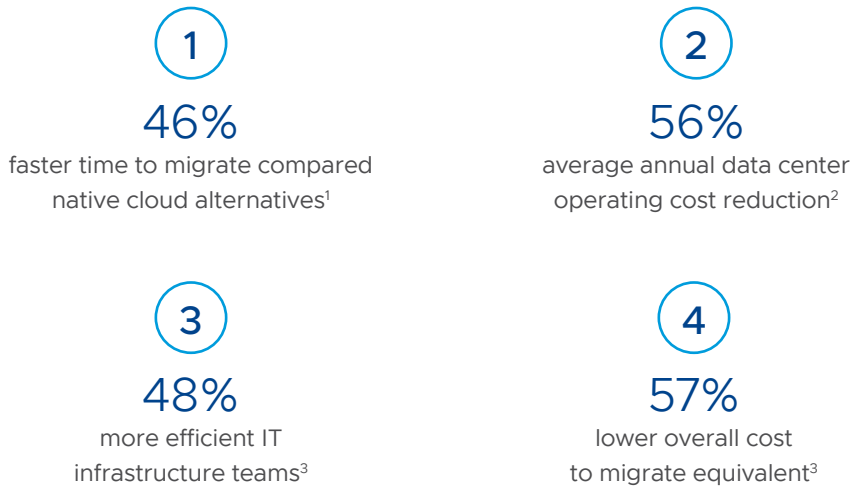Systems Architect
Quality Bicycle Products

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Figure 1: VMware Cloud on AWS.

1

46%
faster time to migrate compared native cloud alternatives[1]

2

56%
average annual data center operating cost reduction[2]

3

48%
more efficient IT infrastructure teams[3]

4

57%
lower overall cost to migrate equivalent[3]

1. The Business Value of Running Applications on VMware Cloud on AWS in VMware Hybrid Cloud Environments
2. Forrester TEI: The Total Economic Impact™ Of VMware Cloud On AWS, October 2022.
3. IDC, The Business Value of Running Applications on VMware Cloud on AWS in VMware Hybrid Cloud Environments, Sponsored by VMware, October 2020.

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Schibsted

"We have a public cloud strategy and traditional workloads are now running on VMware Cloud on AWS. It is a scalable platform that we are taking full advantage of to become cloud-native. We were one of the first customers in the Nordics who started using it."

Ken Sivertsen
Cloud Infrastructure Architect
Schibsted Enterprise Technology

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Key scenarios: data center migration use case

With VMware Cloud on AWS, you can reduce the data center footprint by migrating all workloads to the cloud quickly, safely, and cost-effectively, leveraging the large-scale migration capabilities included in the service.

Key scenarios in this use case include:

• **Data center outsourcing:**

– Consolidate the data centers in response to cost or operational challenges. Exit an on-premises data center due to organizational cloud mandates or changes in the outsourcing provider

– Retire the data center and move from a managed service provider option to a public cloud due to DC/co-lo facility lease expiration or unsatisfactory SLAs

• **Infrastructure modernization:**

– Engage in a partial or phased infrastructure reduction triggered by aging hardware, hardware end of life or software upgrades between major versions (such as pre-vSphere 6.0)

– Migrate the entire data center to the cloud in order to modernize the IT infrastructure by automating operations using the latest and most comprehensive automation tools

• **Data center right-sizing:**

– With a data center split post-divestiture, migrate to the cloud for rapid infrastructure provisioning for the newly formed business entity

– Right-size the data center and move to the cloud in order to take advantage of improved operational efficiencies, the latest technology or for switching to SaaS applications

Key capabilities for fast, non-disruptive cloud migration

• Seamlessly move workloads bi-directionally between vSphere-based infrastructure and the AWS Cloud

• Accelerate migration and minimize downtime with live migration from on-premises to AWS Cloud

• Extend on-premises layer 2 network to AWS Cloud for seamless workload mobility without changing IP addresses

• Use VMware vMotion from vCenter to migrate live VMs from on-premises to AWS Cloud without any downtime

• Select from a large variety of migration methods including cold, warm with or without replication, or live with or without replication

• Rapid, large-scale live application migration with secure multisite interconnects between any vSphere version on-premises and VMware Cloud on AWS with VMware HCX

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Resources

- VMware Cloud on AWS website
- VMware Cloud on AWS Techzone
- VMware Cloud on AWS Hands on Labs
- VMware Cloud on AWS blogs
- VMware Cloud on AWS Unplugged Podcast
- VMware Cloud on AWS on YouTube
- VMware Cloud on AWS release notes

• Use high-speed, reliable and private network connectivity between on-premises and VMware Cloud on AWS with AWS Direct Connect supporting faster cold and live application migration (vMotion)

• Move applications from on-premises without any application changes. Zero reconfiguration, conversion, refactoring or rearchitecting existing applications.

• Leverage compatible infrastructure and consistent operations with familiar skills, tools and processes, as well as consistent governance and security policies and reduce the risk of mission impacting post-migration issues.

Get started with VMware Cloud on AWS

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