Insight

Accelerate Migration and Modernization: VMware Cloud™ on AWS

EBOOK

aws partner network

Introduction

VMware Cloud™ on AWS brings VMware's enterprise-class Software-Defined Data Center software to the AWS Cloud, and enables customers to run production applications across vSphere®-based private, public, and hybrid cloud environments, with optimized access to all AWS services and robust disaster protection. Jointly engineered by VMware and AWS, this on-demand service enables IT teams to seamlessly extend, migrate, and manage their cloud-based resources with familiar VMware tools. With the same architecture and operational experience on-premises and in the cloud, IT teams can now quickly derive instant business value from the VMware Cloud on AWS service. In this eBook, we will detail how VMware Cloud on AWS can help your organization expand what is possible, and discover new opportunities, while using the same architectural and operational experience—both on-premises and in the cloud.

Why adopt VMware Cloud on AWS?

Deploying VMware Cloud on AWS enables you to efficiently match your applications to the best environment, quickly migrate hundreds of apps with no refactoring and zero downtime, and modernize those applications or build new ones with optimized access to over 175+ native AWS services. With familiar, consistent tools, APIs, management, security, and operations policies for both on-premises and cloud environments, you can rapidly realize unparalleled cost optimization through consistent infrastructure and operations.

Increased innovation

Gain access to a broad, rich set of compute, database, analytics, IoT, AI/ML, security, and other services, and enable latency-sensitive applications direct access to databases on Amazon Aurora, Amazon DynamoDB, and Amazon Redshift for data analysis.

Simplified operations

Keep the same VMware provisioning, storage, and lifecycle policies you use on premises to simplify hybrid IT operations and continue using existing VMware vSphere, VMware vSAN, NSX, and VMware vCenter technologies.

Reduced costs

Optimize the costs of operating a consistent and seamless hybrid IT environment. There is no custom hardware to deploy in your on-premises environment, and no need to modify applications to shift to a hybrid cloud model.

Enhanced availability

Run VMware-based workloads directly on the next-generation Nitro System-based Amazon EC2 bare metal infrastructure, bare metal infrastructure, provisioned in a single-tenant, isolated Amazon VPC. This approach allows you to take advantage of the scalability, availability, security, and global reach of AWS.

Increase flexibility in all environments

VMware Cloud on AWS provides dedicated support for up to 16 host vSphere clusters, delivered on the next-generation bare metal AWS infrastructure based on the latest Amazon EC2 Storage Optimized, high I/O instances and featuring low-latency Non-Volatile Memory Express (NVMe) based SSDs. You can start from as few as 2 hosts per VMware Software-Defined Data Center (SDDC) then scale the capacity in your clusters up to 16 hosts. VMware Cloud on AWS runs the SDDC software stack directly on host servers without nested virtualization. You can move existing workloads between your existing VMware environment and VMware Cloud on AWS through cold migration, VM template migration, or even while workloads are running through live migration (VMware vMotion).

Embrace modernization to fuel business growth

Build next-generation applications and modernize existing enterprise applications by leveraging the enterprise capabilities of VMware SDDC coupled with the elastic infrastructure of the AWS Cloud, and the breadth and depth of AWS services. For example:

- Extend the value of enterprise applications running on VMware Cloud on AWS by providing enterprises with a simple and consistent way for applications to access native AWS services.
- Achieve high bandwidth, low latency connectivity to 175+ AWS services by running VMware Cloud on AWS SDDC directly on AWS elastic bare metal infrastructure.
- Drive cloud migration projects with storage capabilities for use cases such as backup and restore, disaster recovery and data protection, archiving, and hybrid cloud storage. For example, once you lift and shift your workloads to VMware Cloud on AWS, you can then adopt AWS services such as Amazon S3, Amazon EFS, Amazon FSx, or AWS Storage Gateway. Also leverage capabilities of Amazon RDS to offload the undifferentiated heavy lifting of database provisioning, patching, upgrades, backup and restore, or ensuring high availability.
- Work with your data post-migration by putting it into a database or data lake, then performing analytics for deeper insights. Begin by ingesting data from your VMware Cloud on AWS environment into your AWS environment. You can use AWS Lake Formation to build data lake architecture. Then, run real-time, interactive analytics using services such as Amazon Kinesis, Amazon Elasticsearch Service, and Amazon Athena.
- Containerize your workloads to put you on the path to a full transformation. If you are already using native AWS services, go further by using Amazon ECS featuring AWS Fargate; these services enable container deployment without provisioning servers to reduce management overhead. If you are running Kubernetes on premises, you can leverage Amazon Elastic Kubernetes Service (Amazon EKS) to easily deploy, manage, and scale containerized applications using Kubernetes on AWS.

Deploy, protect, migrate, and modernize your enterprise workloads with VMware Cloud on AWS

Accelerate cloud migration

- Simplify and accelerate the migration of mission-critical production workloads
- Avoid converting or re-architecting workloads
- Use vSphere vMotion across both on-premises and AWS Cloud

Disaster recovery

- Gain DR audit protection
- Replace legacy DR solution
- Develop a new DIY solution
- Protect against ransomware

Data center extension

- Gain rapid access to short-term, regional, or seasonal capacity
- Consolidate/exit data centers
- More quickly integrate data centers post M&A
- Refresh aging infrastructure (capex to opex)

Next-generation applications

- Modernize existing applications
- Build new composite (custom and packaged) applications
- Implement a strategy to design hybrid applications

Accelerate your modernization journey with AWS Partners

Work with AWS Partners to develop and execute a successful migration plan.

After you migrate to VMware Cloud on AWS, you can start modernizing by leveraging the optimized access to the breadth and depth of AWS services to develop new functionality in response to customer feedback, and stay competitive by adopting a versatile hybrid environment with the help of AWS Partners. AWS Partners can support development of solutions that align with your business goals, AWS best practices, and modern technologies, and help you implement the right hybrid cloud environment to expand your capabilities and realize the full value of the VMware Cloud on AWS service.

Insight and AWS

Insight and AWS work closely with businesses at every stage of the migration journey. Many organisations struggle implementing a cloud strategy due to lack of IT skills, high consumption costs and fear of downtime caused by IT issues. Wherever you are in your cloud journey, Insight has the depth and breadth of experience to ensure your migration is successful.

Insight's cloud specialists will help you select the AWS solutions that best fit your business goals. Insight and AWS can assist with all aspects of your cloud journey so you can achieve multiple organisational benefits.

Insight case study: [Customer Name]

Challenge

[AWS Partner - use this space to briefly describe the customer's challenge]

Solution

[AWS Partner - use this space to briefly describe how your solution addressed the customer's challenge]

Outcomes

[AWS Partner - use this space to briefly describe the benefits your customer saw after leveraging your solution]

[Customer Quote]

[Speaker Name]
[Speaker Title]
[Customer Name]