AWS and VMware

Increase Versatility: Migrate Virtual Desktop and Infrastructure to VMware CloudTM on AWS

Leverage the power of integrated desktops and applications

Organizations need to make an increasing number of devices and applications compatible

As many businesses around the world modernize their workplaces and leverage a greater number of disparate devices than before, many are now able to simultaneously access Windows or Linux applications along with iOS and Android applications. Yet the emergence, and increase, of cloud adoption and mobile applications has made the delivery of necessary services through traditional PC-centric tools more difficult. Security and compliance concerns, such as data loss, image drift, and escalating costs have led many companies to seek new solutions that offer a streamlined approach to manage and protect their applications.

Simplified virtual desktop and application management

Deploying a Virtual Desktop Infrastructure (VDI) solution on VMware Cloud on AWS can help your organization rapidly deliver hybrid capabilities. This offering delivers a seamlessly integrated hybrid cloud for virtual desktops and applications. The simplicity of the solution makes it possible to extend the same virtual desktops and applications you use on-premises to the cloud. This empowers end users to easily transform the desktop images for desktop applications. This accelerates the process of moving them between your on-premises environment and VMware Cloud on AWS.

When running VDI on VMware Cloud on AWS, there is no need to export or make changes to the on-premises format when using it on the cloud, which helps simplify the hybrid deployment management process. This ease of hybrid use is often a compelling reason for many organizations to transition to VDI on VMware Cloud on AWS, using Cloud Pod Architecture (CPA) configurations to help accelerate the adoption process and streamline administrative tasks. CPA links cloud deployments in different Amazon Web Services (AWS) Regions and makes it easy to add and extend desktop services without having to invest in additional data center resources.

Moving your on-premises VDI to VMware Cloud on AWS enables you to more rapidly gain access to more than 160 native AWS services. As an example, you can simplify the migration process using AWS Direct Connect to set up a dedicated, secure network connection between your environments to help smooth the transition to a hybrid model. You can leverage Amazon Elastic File Service (Amazon EFS) for elastic storage of your VDI workloads either on-premises or on AWS, and more effectively manage these workloads by using AWS Directory Service with Microsoft Active Directory. You can also take control database virtual desktop and virtual application management by employing Amazon Relational Database Service (Amazon RDS) to accelerate the storage and retrieval of data.

In addition, this solution can help optimize infrastructure costs with flexible consumption-based billing. This enables you to rapidly realize time to value, in part based on the ability to scale host capacity up or down in a few minutes, and because you can more quickly spin up an entire VMware Software-Defined Data Center (SDDC). Most importantly, you can protect your existing on-premises investments in virtual desktops and applications by extending them to AWS.

Effectively manage VDI desktops and applications using VMware Cloud on AWS

Adaptive user experience

Deliver consistent connections across devices, locations, and media to help ensure uninterrupted productivity throughout your organization.

Smart policies, streamlined access

Simplify authentication across all desktop and application services to help your organization improve security and performance while protecting user resources.

Unified digital workspace

Support real-time validation, consolidated control, and streamlined identity management across a wide range of sources, including Microsoft Active Directory.

VMware Cloud on AWS

The hybrid cloud environment, VMware Cloud on AWS, is a joint offering which is now sold by both VMware and AWS. Deploying this solution enables your organization to benefit from automated account creation and environment provisioning using APIs, as well as integration between VMware and AWS accounts. VMware will directly support operations and ongoing infrastructure monitoring, while also managing the necessary maintenance.

Key benefits

Simplify the cloud adoption process

- Centralize support of your entire virtual desktop infrastructure using VMware Cloud on AWS
- Extend your on-premises VDI environment to the cloud to help smooth the overall cloud adoption process for your entire organization
- Use the same desktops on-premises and on the cloud, meaning no further changes have to be made once they have been migrated to VMware Cloud on AWS

Modernize your VDI environment

- Accelerate adoption of current and future technologies and solutions using the high-performance, open architecture
- Increase automation and reduce the need for administrators to tend to manual tasks by updating your VDI workloads on VMware Cloud on AWS
- Quickly update the familiar components in the existing VMware Software-Defined Data Center

Migrate to the cloud on your terms

- Rapidly migrate to VMware Cloud on AWS by employing VMware HCX to deliver secure desktop and application mobility across all your environments, if your organization already uses VMware vSphere
- Run HCX on AWS Direct Connect to directly migrate your workloads using the advanced connectivity that is provided by AWS
- Easily add or remove contract or contingent employees—as well as those working remotely—depending on need

Seamless transition

- Use the same local tool stack and the same images as your on-premises environment—so there is no need to convert to a new image technology once you migrate to VMware Cloud on AWS
- Immediately gain access to native AWS services (such as Amazon Relational Database Service), and reduce your on-premises infrastructure needs since you will no longer have to build those in-house
- Move workloads to the innovative VMware Cloud on AWS platform to better suit both your current and future technology needs

Flexible deployment options

- Rapidly scale your VDI environment up or down on demand across multiple pods and sites
- Stretch Cloud Pod Architecture across both your on-premises data centers and VMware Cloud on AWS
- Eliminate the need to purchase new hardware to support growing or changing virtual desktop needs

Cloud-scale agility

- Continue to leverage the enterprise capabilities of the VMware SDDC, including compute, storage, and networking, delivered as a service on AWS
- Easily add and extend desktop services without having to invest in additional data center resources
- Optimize latency-sensitive applications with on-demand capacity and business continuity between your on-premises and VMware Cloud on AWS environments

Get started

Engage with AWS, VMware, or an AWS Partner Network (APN) Partner for a face-to-face workshop to map out a vision, assessment, strategy, and plan for deploying a virtual desktop infrastructure solution on VMware Cloud on AWS. To get the process started, work with an APN Partner or business partner and develop a Proof-of-Concept to explore what is possible.

Contact VMware Sales | Contact an AWS Sales Representative