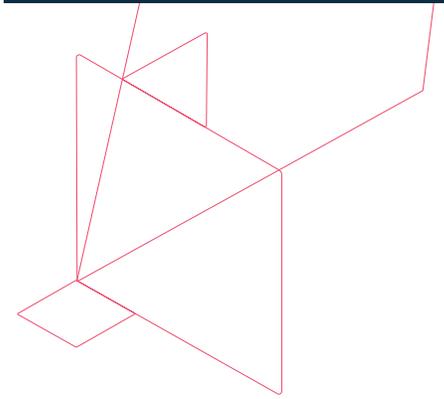**COMMVAULT®**

Commvault® for VMware® Cloud on Amazon Web Services

Overview

Amazon Web Services (AWS) is a secure cloud services platform that offers compute power, database storage, content delivery and other functionality to help businesses scale and grow. Millions of customers are currently leveraging AWS cloud solutions to build sophisticated applications with increased flexibility, resilience, and scalability. As a complement to AWS, VMware Cloud on AWS comprises three core VMware products:

- vSphere – an infrastructure virtualization platform
- vSAN – software-defined storage that aggregates local or direct-attached data storage devices, to create a single shared storage pool
- NSX – a software-based network virtualization and security platform, all running in AWS regions

In the past, linking components of the VMware on-premises stack to AWS was difficult because the networks are "incongruent," or incompatible with each other. To address that challenge, VMC for AWS was jointly engineered to allow the components to operate within an "gated" community in Amazon data centers. Instead of using nested virtualization, they chose to utilize bare-metal AWS servers running VMware's ESX hypervisor natively. The result? VMware Cloud on AWS delivers an innovative, secure, and highly-scalable service that allows organizations to seamlessly migrate and extend their on-prem vSphere-based environments and management tools to the AWS Cloud, running on next-generation, easily resizable Amazon Elastic Compute Cloud (Amazon EC2) bare metal infrastructure, while retaining all the cost and flexibility advantages of the public cloud. But how can you protect your data in both your virtual data center and in the AWS cloud? Commvault for VMware Cloud (VMC) on AWS helps you get the most out of your investments in VMware and the AWS cloud. Comprised of Commvault's industry-leading data protection solution combined with AWS allows you to protect your AWS instance with agentless protection, application awareness, and vSAN snapshots. Our deep experience with both VMware and AWS makes it easy to ensure that your data, applications, and workloads are protected and recoverable.

Highlights

- Enables you to seamlessly leverage Amazon Web Services (AWS) offerings – including Amazon Simple Storage Service (S3) and Amazon Elastic Compute Cloud (EC2) – for backup, as Disaster Recovery targets, and for migration of workloads to AWS
- Extends your Commvault on-premises infrastructure to protect your VMWare Cloud on AWS workloads with minimal cost and infrastructure in cloud
- Allows you to protect your VMware Cloud on AWS instances, using agentless protection, automatic application awareness, and using Virtual Storage Area Network (vSAN) snapshots
- Accommodates multiple Virtual Machine (VM) formats and minimizes the need to learn new tools and skillsets
- Commvault's deep experience with both VMware Cloud (VMC) and Amazon Web Services (AWS) helps ensure that your data, applications, and workloads are protected and recoverable

Data protection challenges in the public cloud

Protecting public and hybrid workloads using native tools can be complex. To protect VMware Cloud on AWS workloads and datasets, many organizations resort to creating scripts that allow them to orchestrate the different snapshot and replication methods available with the various VMware services, and couple them with AWS services. As your organization begins to take more advantage of the flexibility and elasticity of VMware Cloud on AWS, these scripts can be difficult to maintain, audit, and scale. And if your organization has regulatory or business process requirements to create secondary copies of backups in other cloud providers or back in your on-premises datacenter, this complexity can increase exponentially.

When it comes to protecting virtualized cloud environments, Commvault believes that the simplicity, security, and auditability you've come to expect from your on-prem data protection solution should work equally well in the AWS cloud. That's why our solution offers extensive support for VMware Cloud on AWS. Using the Commvault Command Center™, an intuitive, web-based management console – capable of delivering a complete suite of vital data protection features – we help reduce the administrative burden on your IT team for any environment: on-premises, in the public or private cloud, and in hybrid environments.

## Commvault for VMware Cloud on Amazon Web Services

Agentless data protection for VMware Cloud on AWS using the Commvault Virtual Server Agent (VSA) proxy

- Full integration with APIs for VMware Cloud on AWS Software Defined Data Centers (SDDC)
  - Enables efficient, agentless VM backups via native hypervisors (VADP, VSS, CBT, etc.)
  - Provides flexible recovery options for both granular and full VM recovery, using vSAN snapshots and Live Browse
  - DR replication with failover and failback to/from on-premises VMWare, VMware Cloud on AWS, and native AWS EC2, in any combination
- Leverages the Commvault platform to provide to access to:
  - 4D Indexing, to help supercharge your compliance search and case manager initiatives, along with helping to control specific processes and policies
  - Commvault Complete™ Backup & Recovery includes Artificial Intelligence (AI) that analyzes patterns and performance, and can even modify or reprioritize processes to improve outcomes
  - Commvault's Automated Policy Engine enables AI-driven auto-tuning, to help improve Recovery Point Objectives (RPOs) and Recovery Time Objectives (RTOs) for all workloads

Enables a variety of use cases

Commvault's single, unified platform takes a holistic approach to data management, utilizing a flexible and extensible architecture that helps you reduce risk, improve operational efficiencies, cut costs, and helps you derive more value from your data. It enables mainstream use cases such as disaster recovery, test and development, and archiving, as well as specific use cases, including:
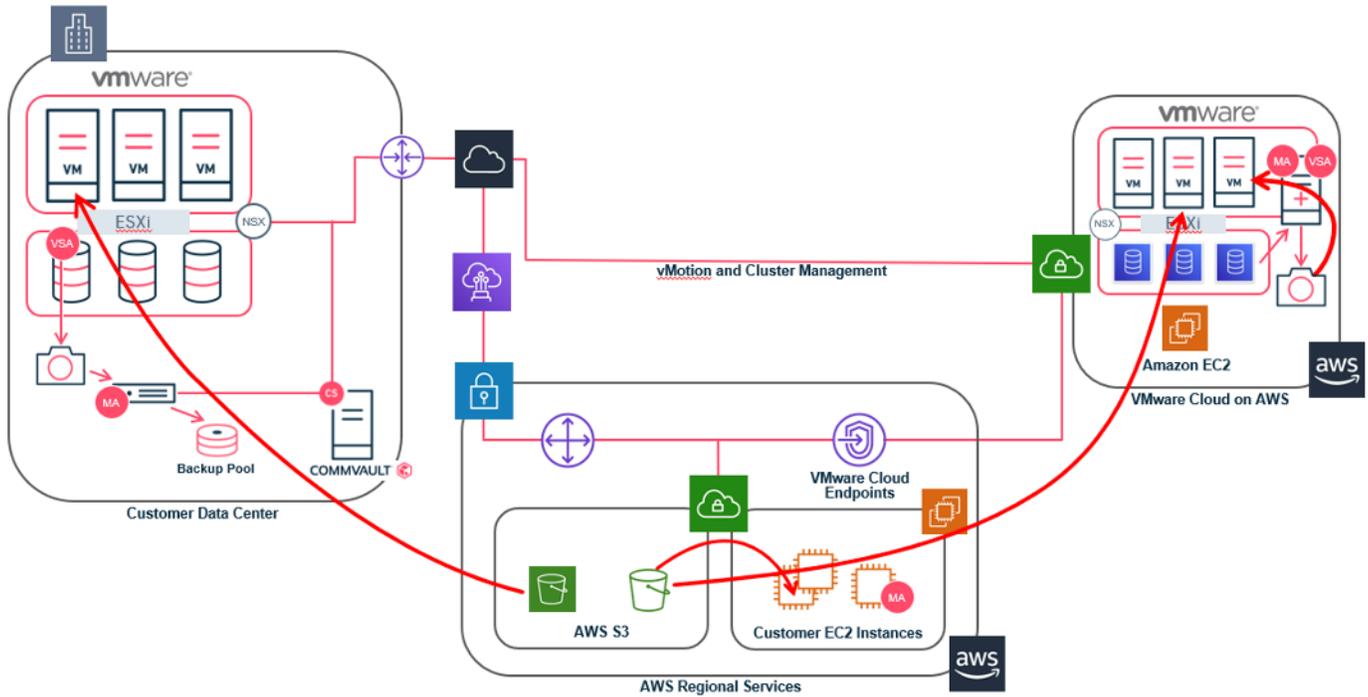
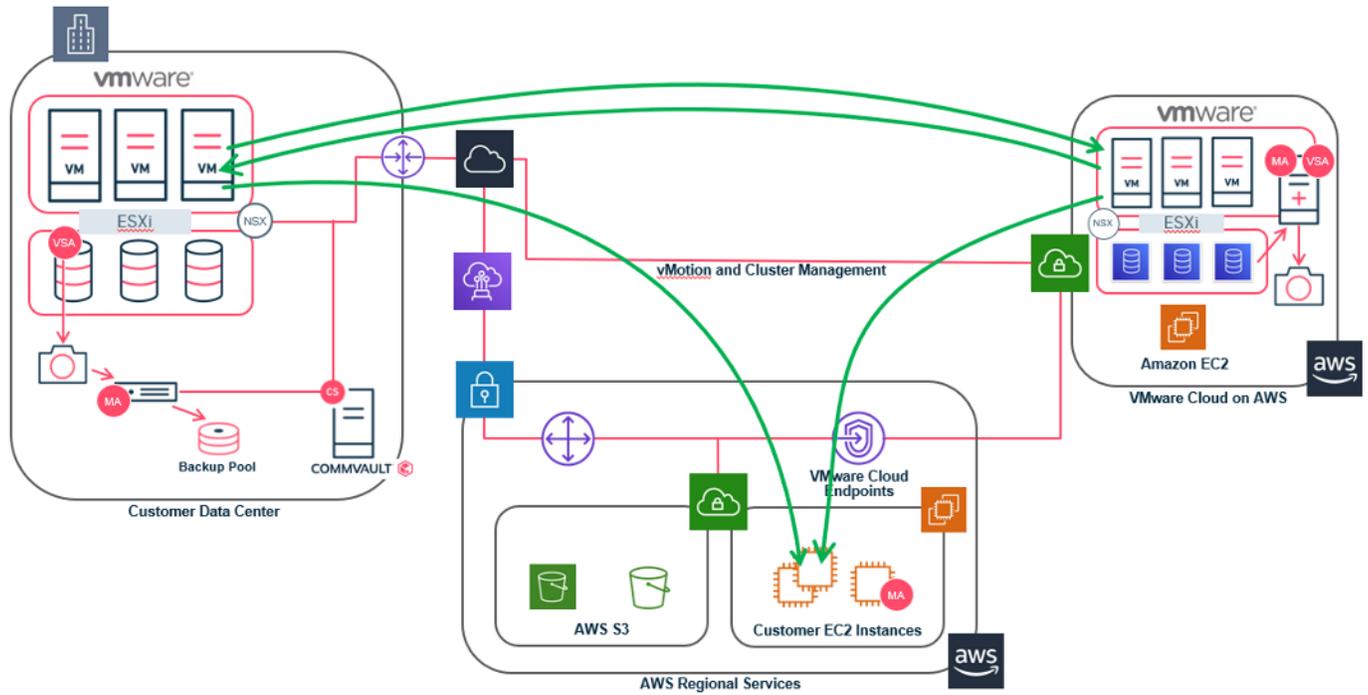1   Backup of VMware Cloud on AWS to Amazon S3
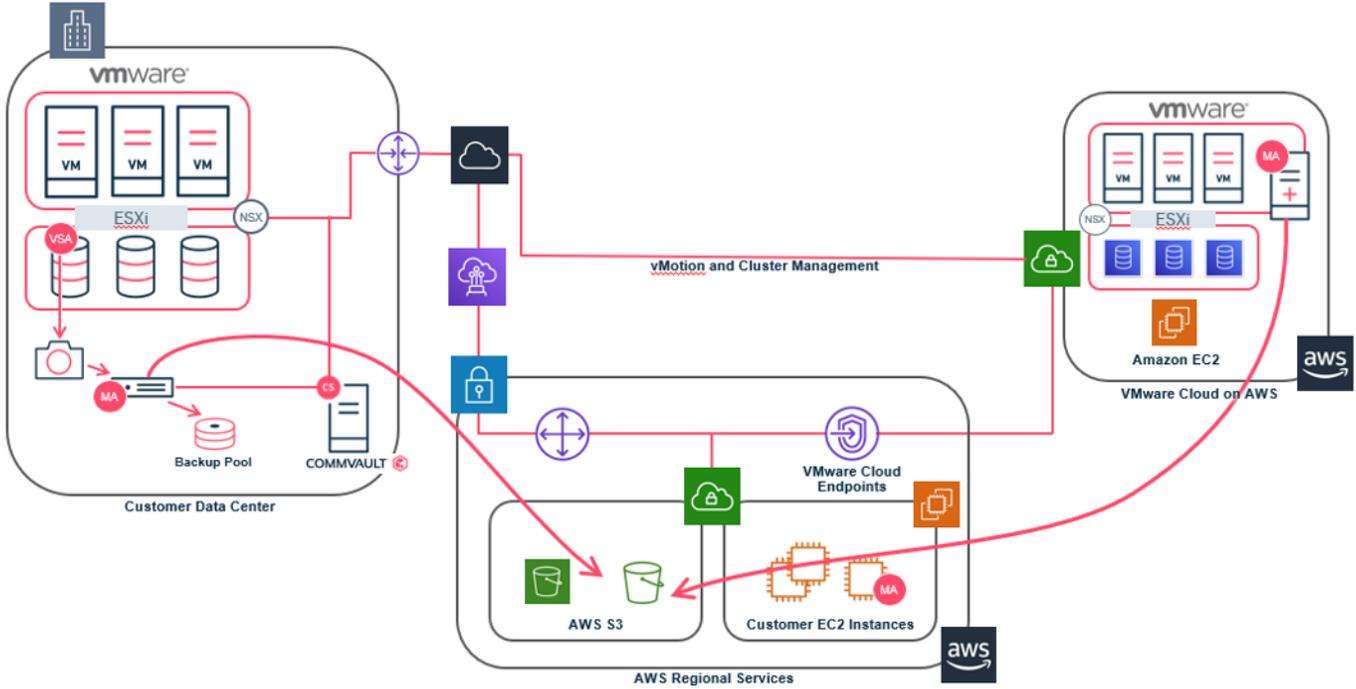
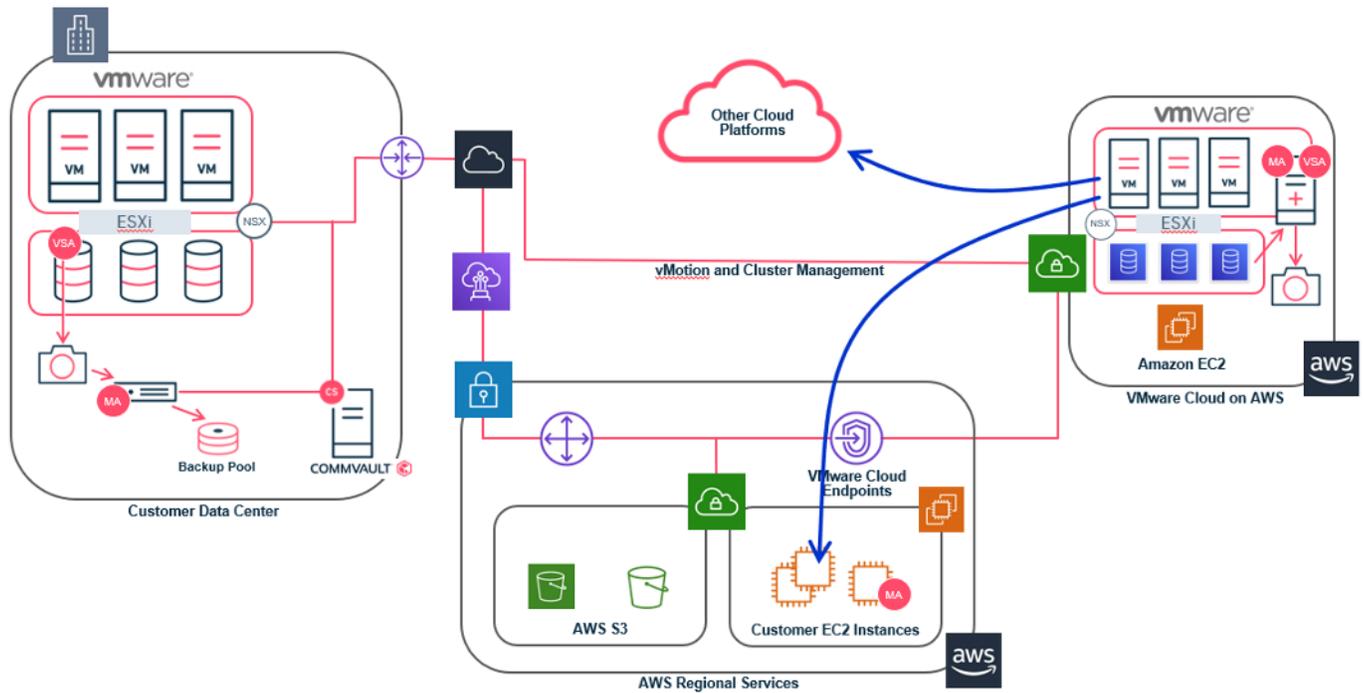2   Snapshot of vSAN and backup of VMware Cloud on AWS to Amazon S3
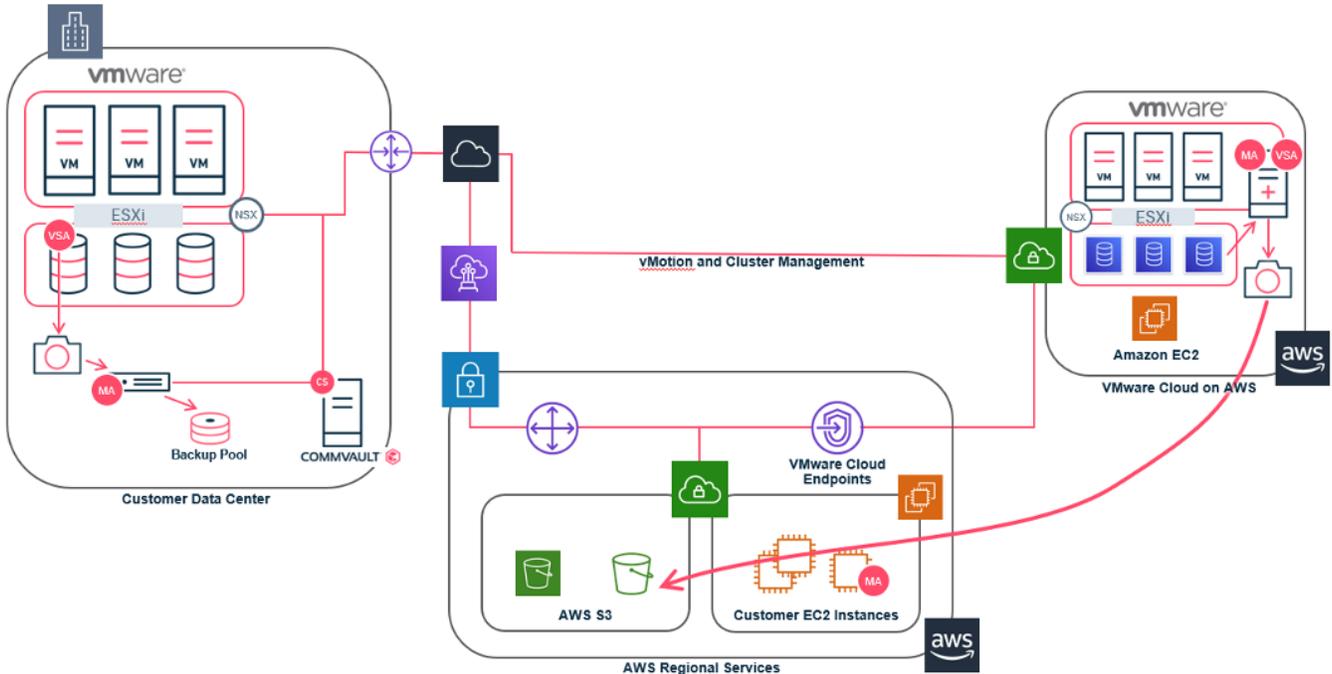
3 Restore from Amazon S3 to anywhere, including on-premises

4 Live Sync Disaster Recovery and to/from on-premises to VMware Cloud on AWS and/or AWS

5 Simplified migration from VMware Cloud to AWS to AWS and other public cloud platforms

Global management and proactive monitoring

- Protect, manage, monitor, and report on all your workloads across on-prem, multiple VMware Cloud on AWS accounts and regions from a single, consolidated view
- Recover data from a single interface to any AWS region, to an on-premises datacenter, or to other cloud providers
- Automatic power management of Commvault AWS cloud components when not in use

AWS storage integration

- Supports all tiers of AWS storage: Amazon S3 Standard, Amazon S3-IA, One-Zone-IA; Z-IA, Amazon Glacier, and Amazon Glacier Deep Archive
- Directly integrates with all tiers of AWS storage without the need for gateways
- Helps reduce AWS S3 storage costs by leveraging Commvault compression and deduplication for backups
- Supports Amazon Glacier Vault Lock for WORM and compliance storage

Simplified deployment and administration

- Software-based solution offers flexible deployment options
- Commvault HyperScale™ Technology can simplify deployment of your data protection platform
- Intuitive management interface reduces learning curve and deployment complexity
- Automatic power management of cloud components helps to minimize costs
- Single licensing model can cover all AWS workloads in an enterprise

Data protection highlights

- "Incremental Forever" data protection using Changed Block Tracking (CBT)
- Automatic discovery of guests
- Snapshot integration through Commvault IntelliSnap® Technology
- Live file recovery of VMs and guest files
- Enables self-service recovery for end users
- Automatic, application-aware consistency
- Comprehensive alerting and reporting through an easy-to-use, centralized management console

Flexible and easy-to-use

As a software-based solution, Commvault provides extreme flexibility in deployment options. Commvault HyperScale™ Technology is also available as an integrated solution that combines all aspects of the data protection solution in a scale-out system. Commvault can also be deployed as a completely virtual or cloud-based data protection platform, to meet the unique needs of your business. The Commvault Command Center™ – an intuitive, role-based management interface – consolidates all configuration, management, and reporting tools into a browser-based portal. This simplifies ongoing management, reduces your administrative burden, and increases both speed and responsiveness.

Be ready...with Commvault

You rely on VMware Cloud on AWS to provide a flexible environment for your workloads. Commvault lets you extend that simplicity to data protection, management, and recovery with a fully-integrated backup solution that can help you meet your unique data protection needs, both now and in the future. Learn more **here >**

Learn more about **data virtualization solutions from Commvault >**

COMMVAULT®
Be ready™

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