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# Modernizing VMware Cloud on AWS workloads with native AWS services

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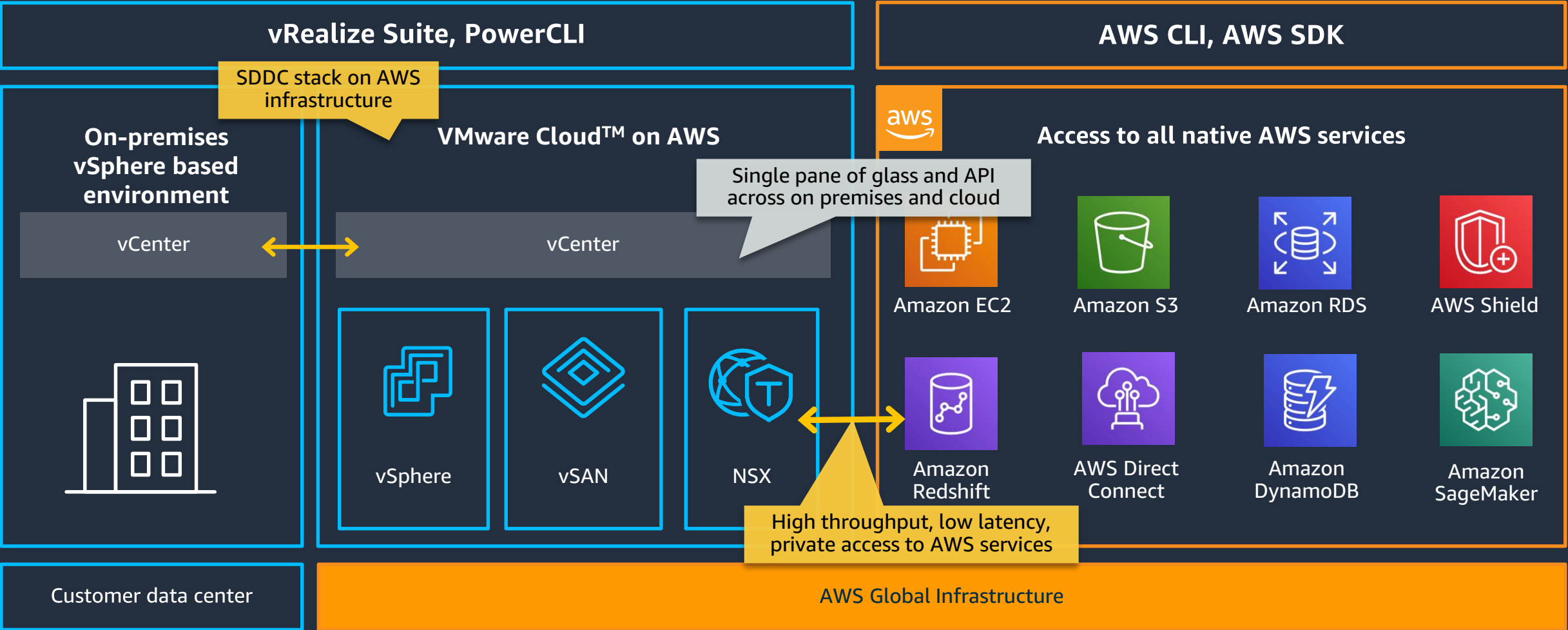
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# Agenda

1. Introduction to VMware Cloud on AWS
2. VPC Connectivity and Scalability
3. Integrating Application Load balancer with WAF
4. Integrating Amazon FSx for Windows File Server
5. Integrating Amazon EFS and Amazon S3
6. Integrating AWS Backup

# Introduction to VMware Cloud on AWS



# Access VMware Cloud on AWS



## VMware Cloud on AWS console

- ESXi host addition and removal
- Console user and role management
- Software-Defined Data Center (SDDC) networking and firewall management



## vSphere client (HTML 5)

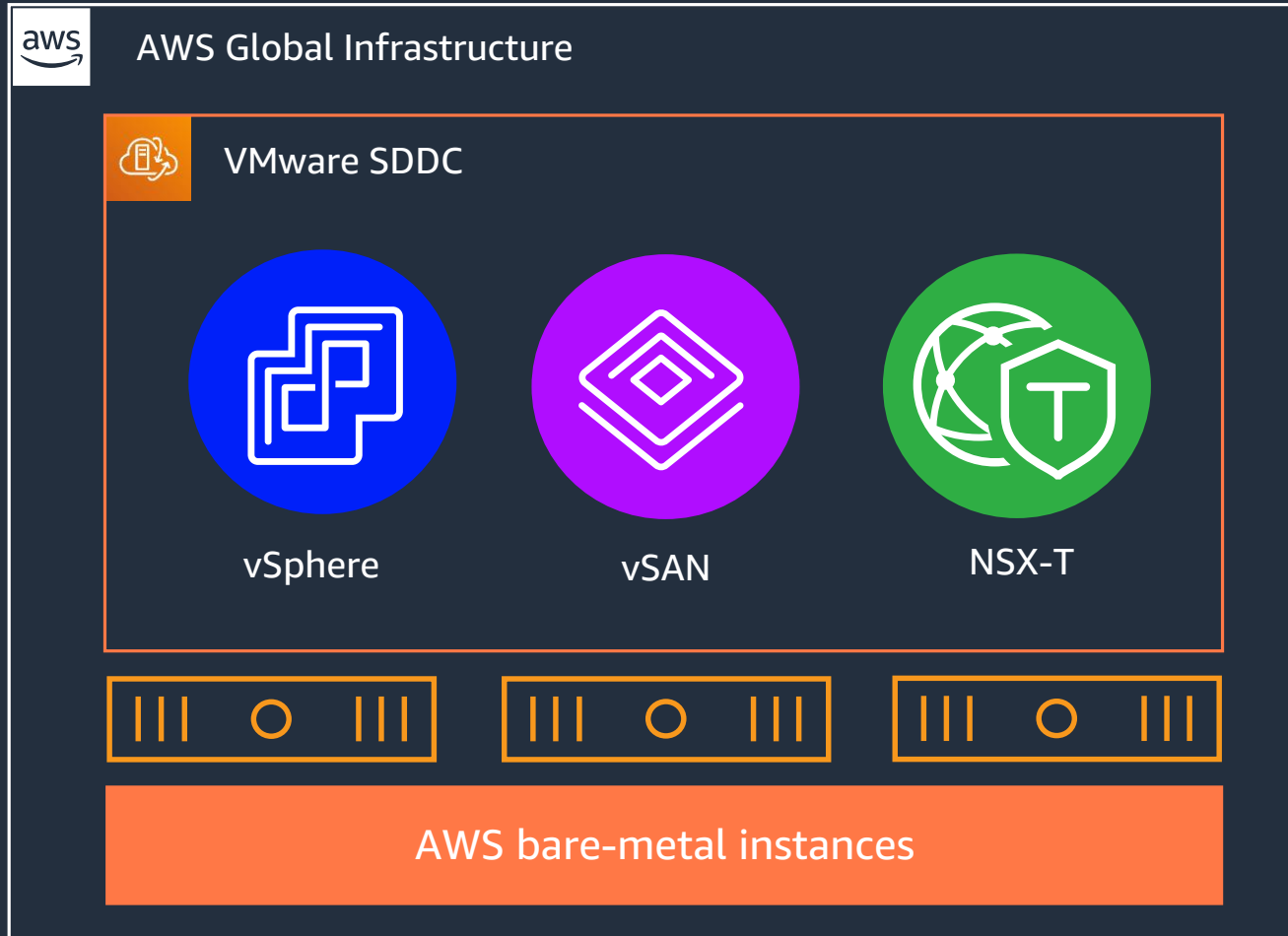
- Hybrid Linked Mode (HLM)
- Virtual Machine (VM) administration
- VM storage policies
- Migrations and vMotion



## AWS Management Console

- Amazon VPC configuration
- Network and security configuration to access AWS services
- Manage AWS services

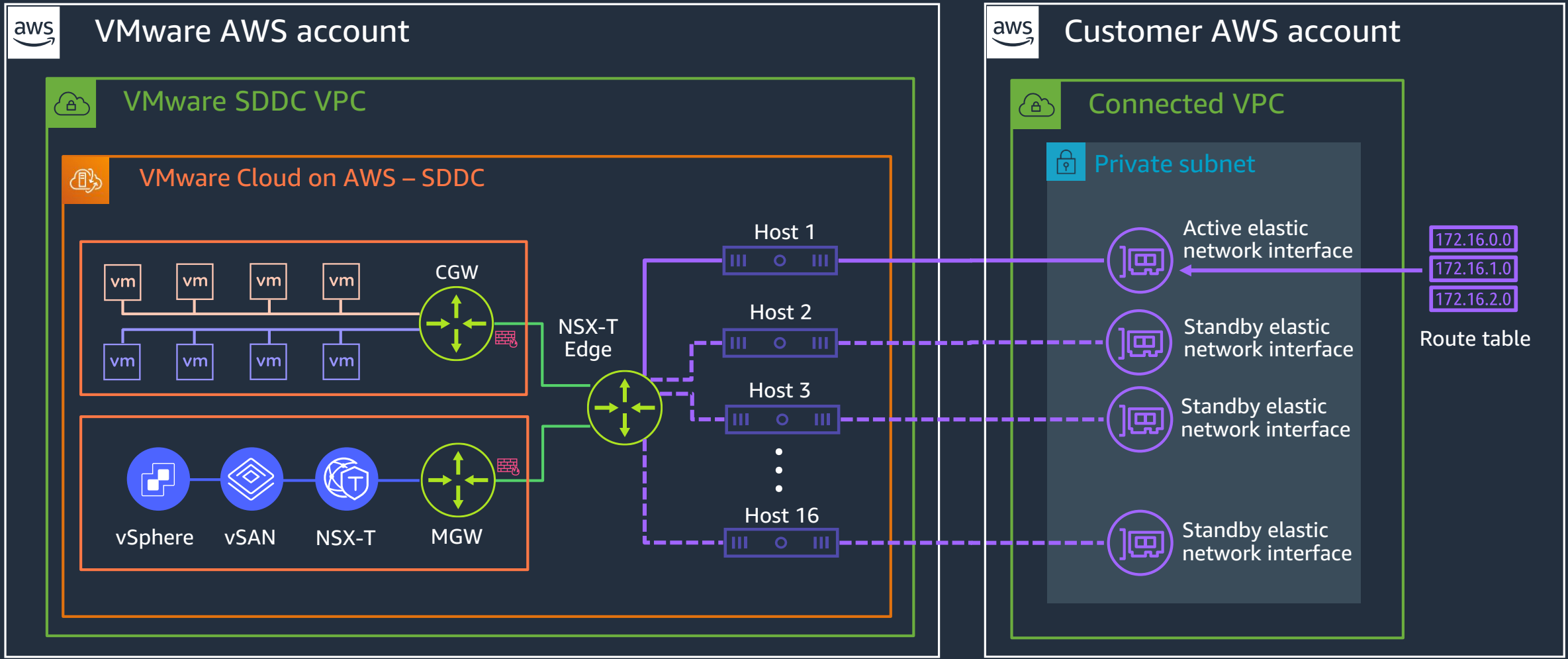
# SDDC components



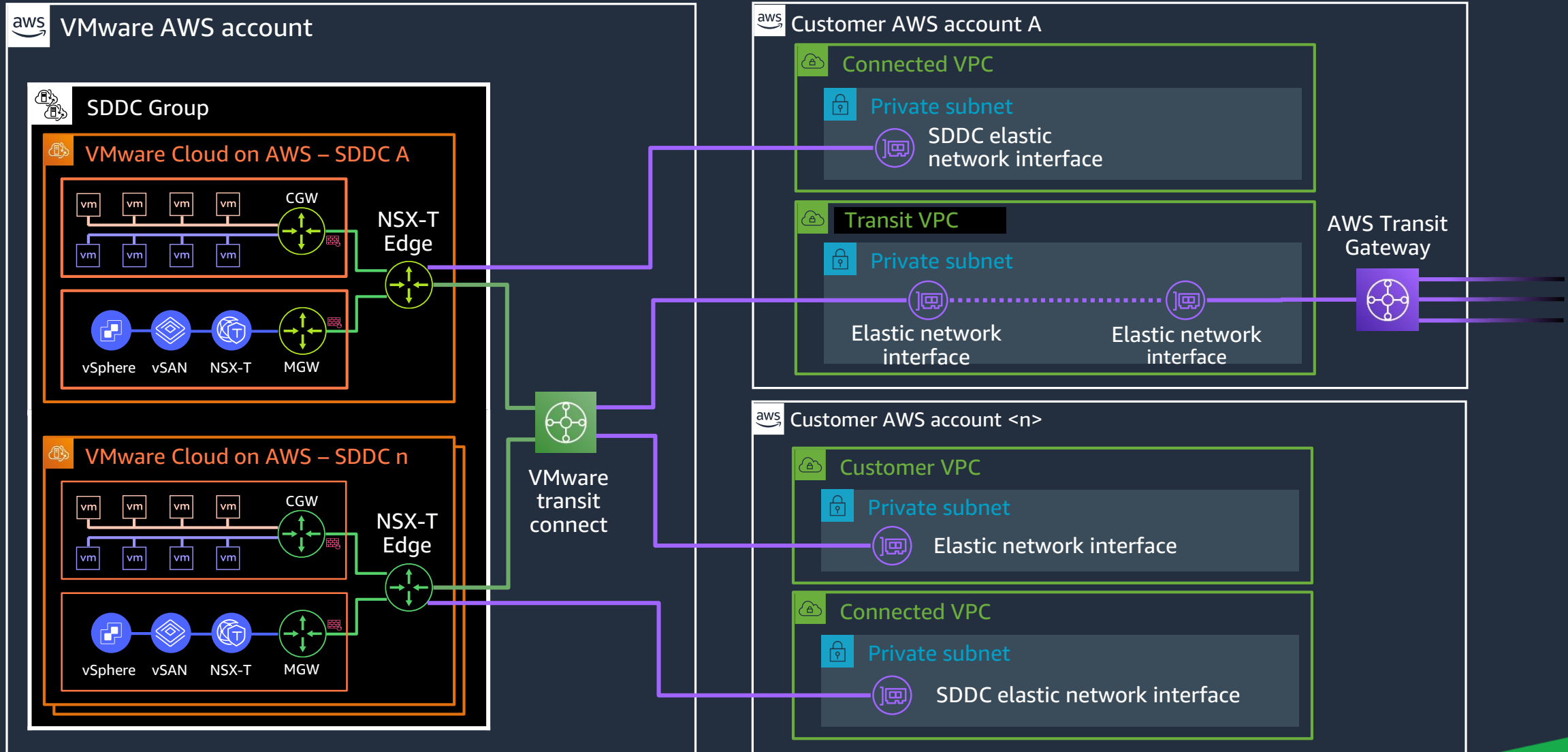
# VPC Networking



# AWS VPC Connectivity



# Scaling AWS customer VPC connectivity



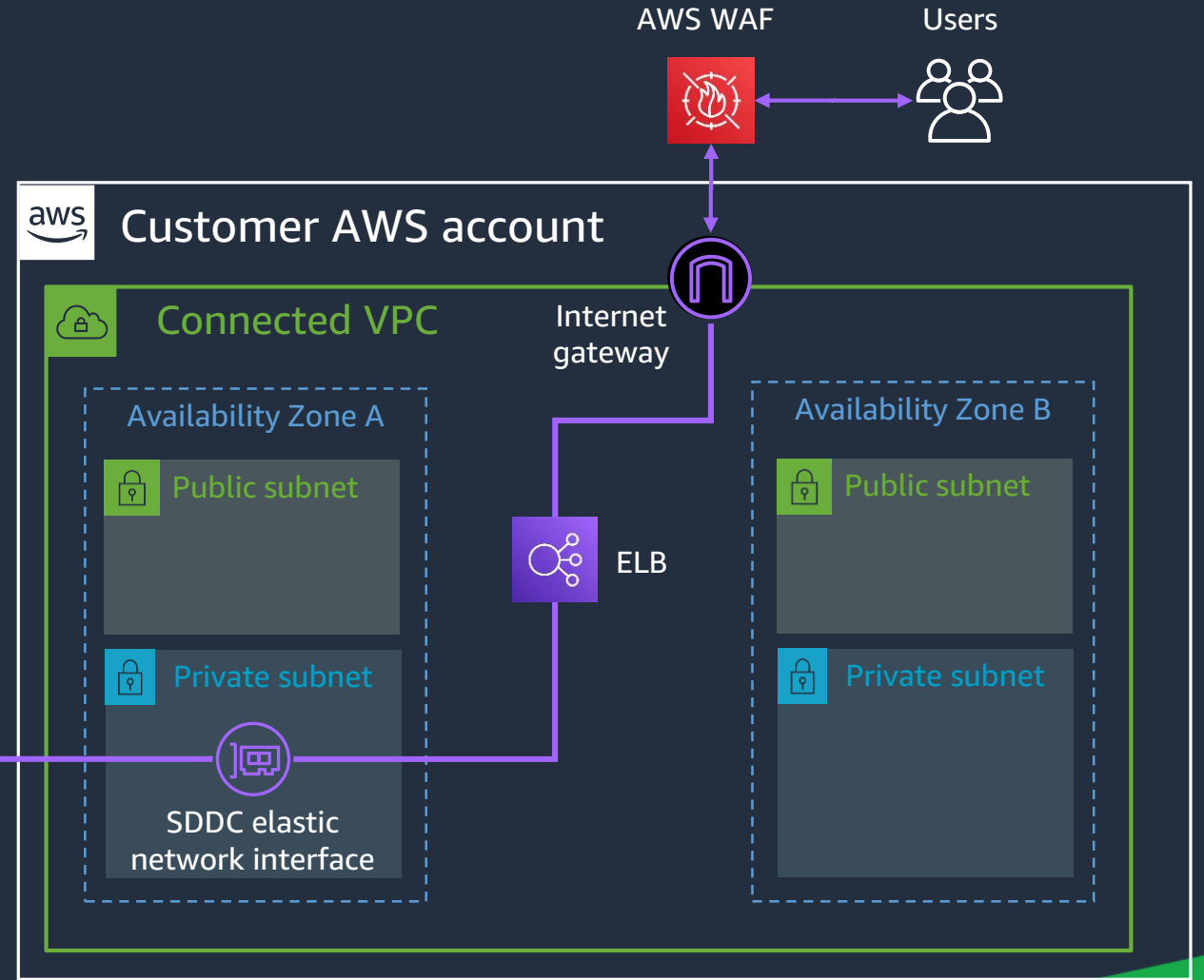
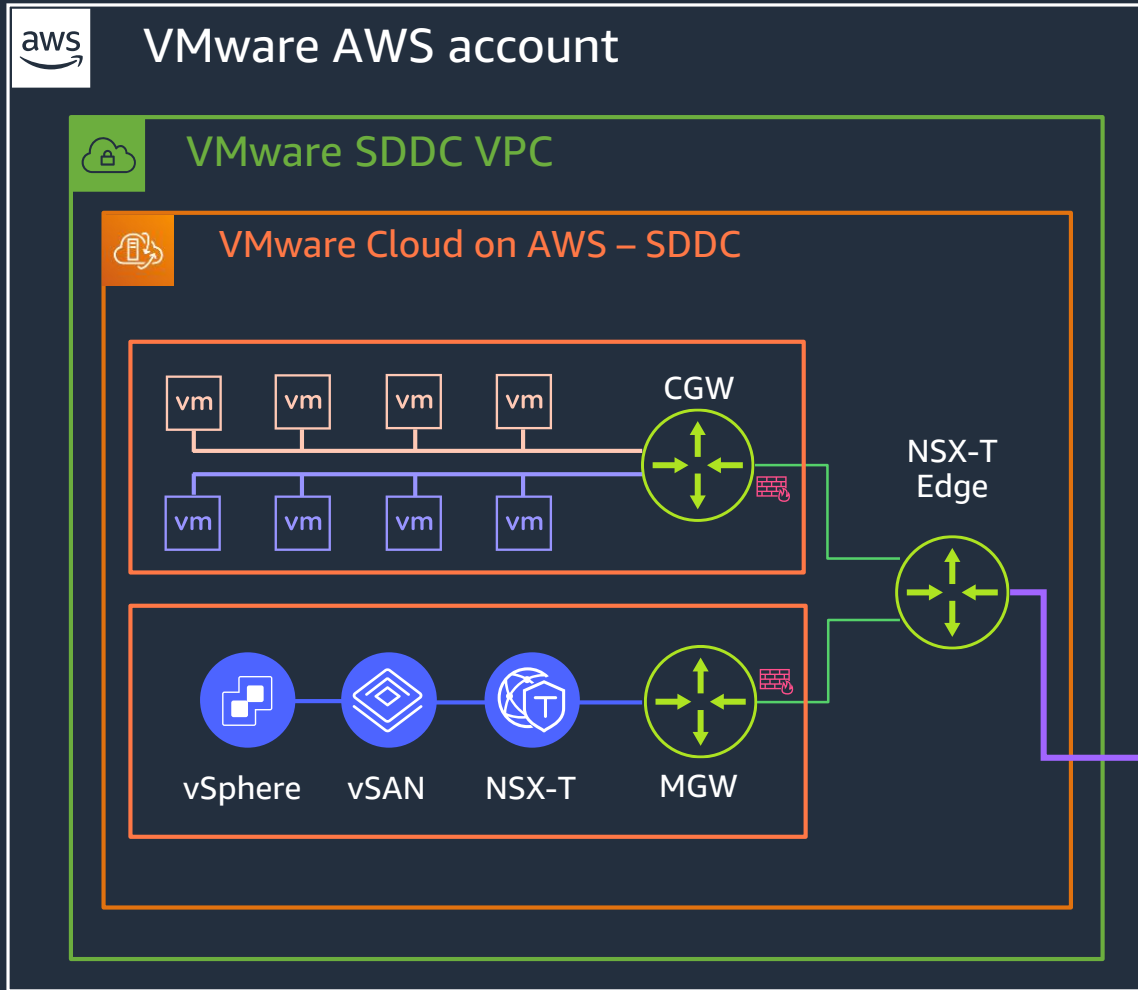


# Elastic Load Balancer

# with AWS Web Access Firewall (WAF)



# AWS Elastic Load Balancer with WAF



AWS WAF

Users



# Amazon FSx for Windows File Server



# Amazon FSx

## Fully managed file storage in the cloud by AWS



### Amazon FSx for Windows File Server



### Amazon FSx for NetApp ONTAP



## Hardware

- Capacity and facilities planning (storage, network, backup)
- Procurement
- Installation, configuration, upgrades, decommissioning
- Failure management



## Software

- Firmware and OS installation and upgrades
- Configuration
- Release compatibility
- License management
- Backup, Security

Amazon FSx offers popular commercial and open source file systems built on AWS's latest compute, disk, and networking technologies

# Amazon EFS and Amazon S3



# Amazon Elastic File System (Amazon EFS)

Simple, serverless, set-and-forget elastic file system for AWS compute

## Serverless shared storage



### Serverless and scalable

No provisioning, *fully managed*, scale capacity, connections, and IOPS



### Full AWS compute integration

Amazon EC2 instances, containers, and serverless

Supports tens of thousands of connections

## Simple and highly reliable



### Elastic

Pay only for capacity used  
Grow to petabyte scale



### Highly durable and available

Designed for 11 nines of durability  
99.99% availability SLA

## Performant and cost optimized



### Performant

Tens of GB/s of throughput and 500,000+ IOPS  
Built-in performance, and scales with capacity



### Four storage classes

Automatic lifecycle-based cost optimization



# The benefits of Amazon S3



Unmatched durability, resiliency, availability, and scalability



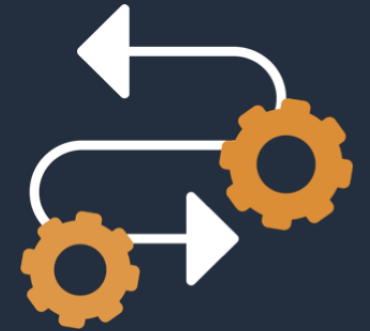
Best security, compliance, and audit capabilities



Object-level control and cost optimization

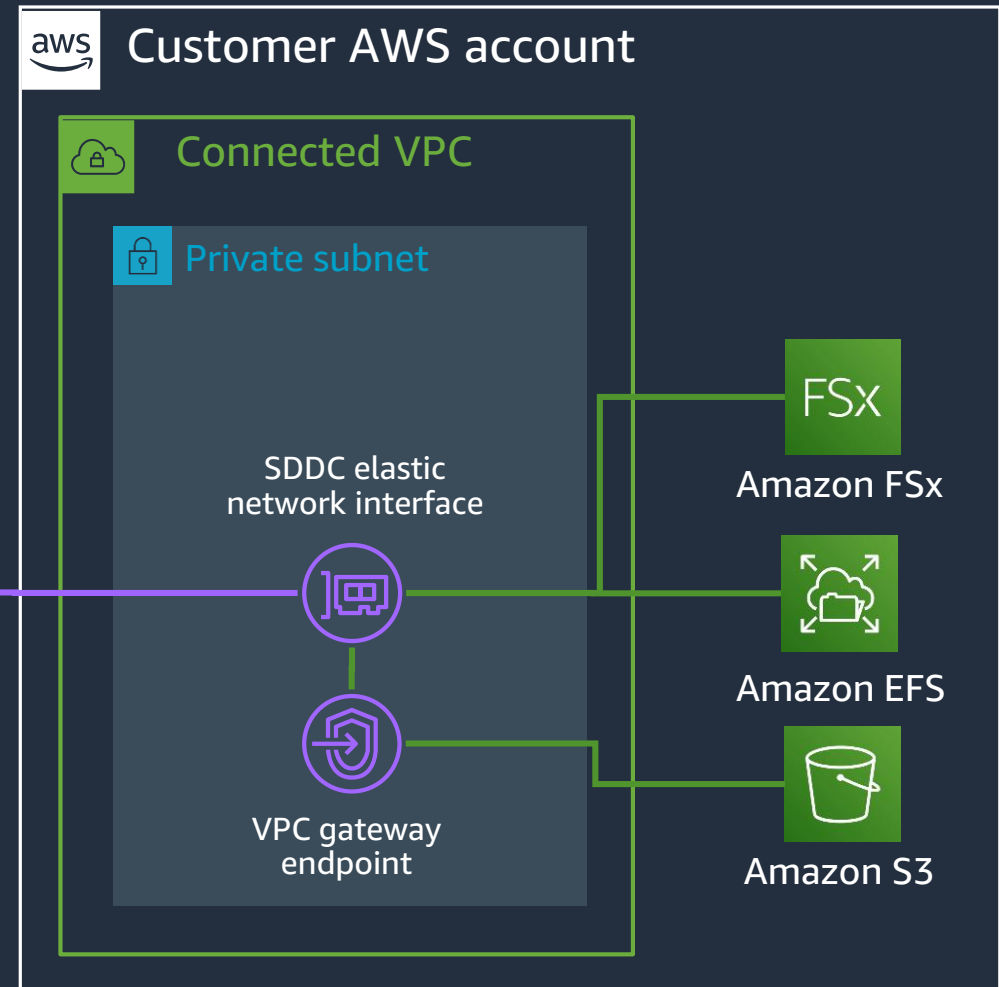
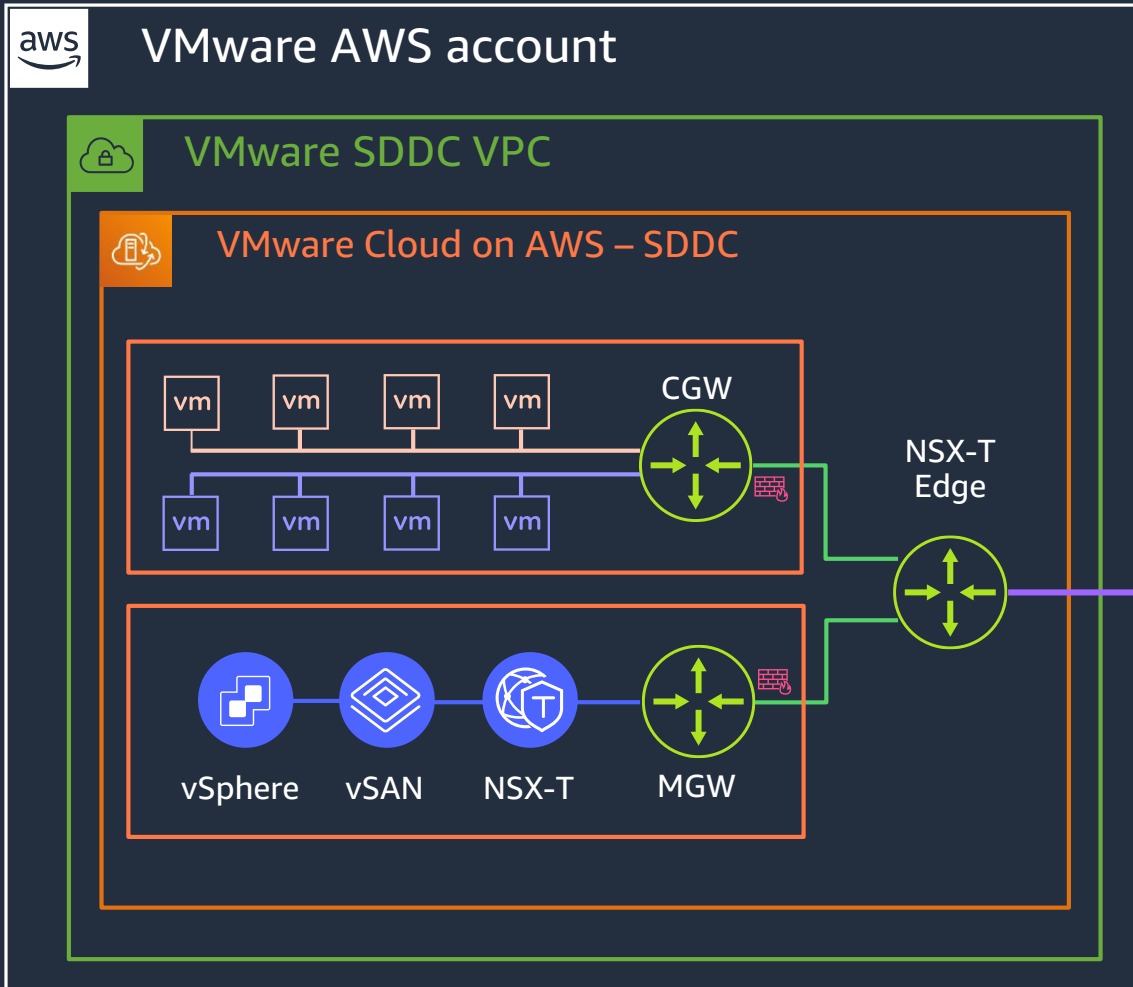


Business insights into your data



Most ways to bring data in

# Using Amazon EFS and S3 with virtual machines





# AWS Backup



# Introducing AWS Backup for VMware

Three main pillars of AWS Backup for VMware



Single, centralized data protection solution for hybrid VMware workloads

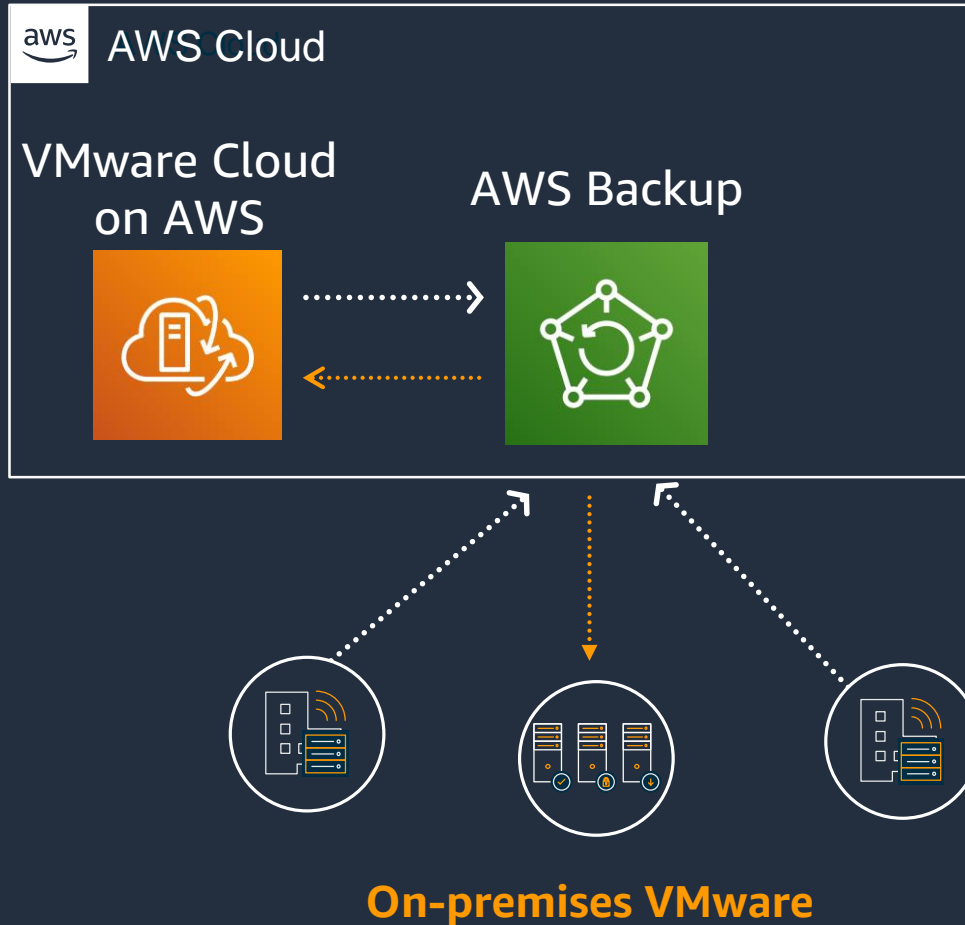


Flexible restore options – on premises and VMware Cloud on AWS



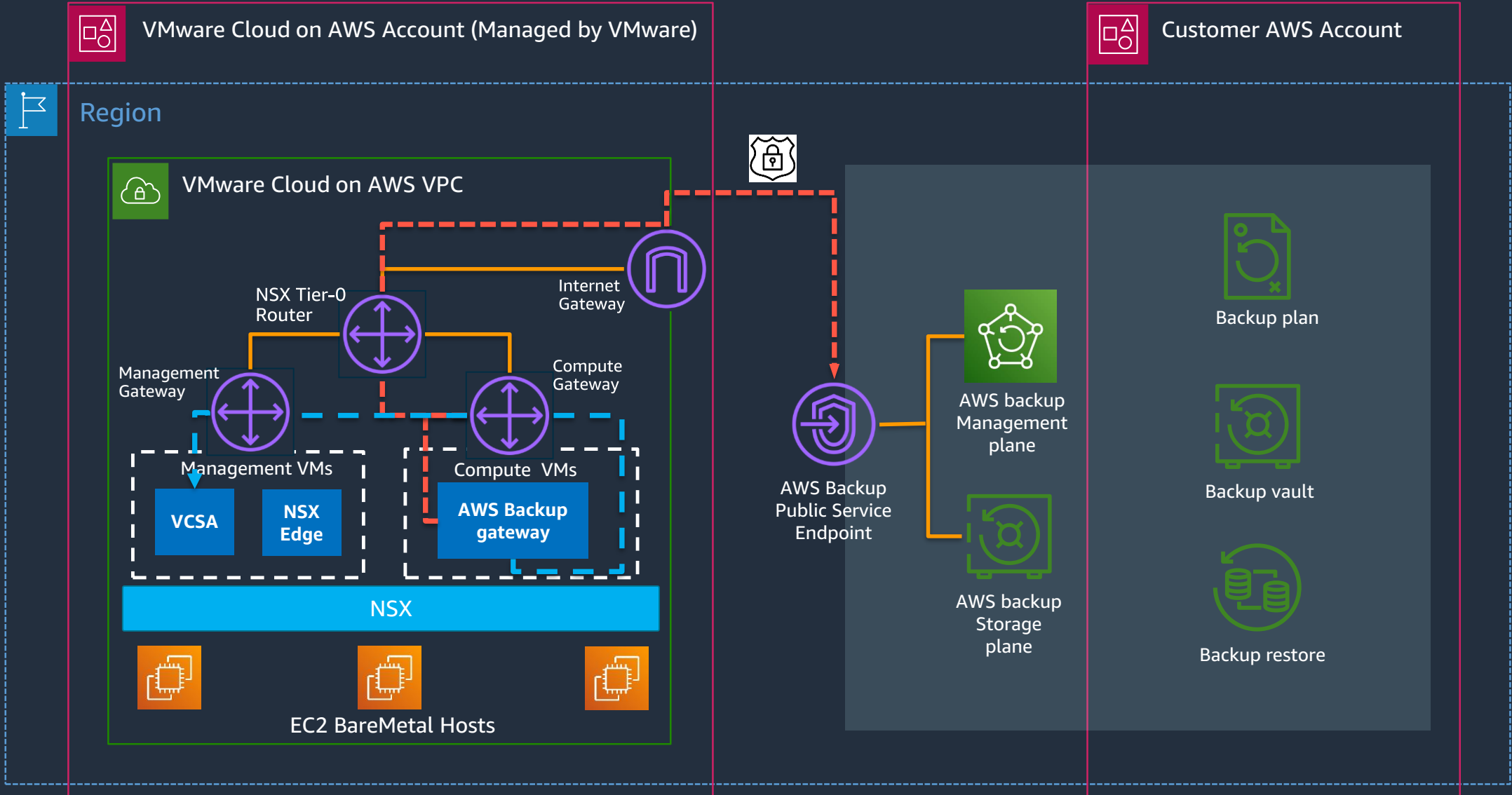
Ability to use same backup policy across AWS-native services and VMware

# AWS Backup for VMware Cloud on AWS: Capabilities



- Create immutable backups of virtual machines running on VMware Cloud on AWS
- Restore to VMware Cloud on AWS or on-premises.
- Use lifecycle policies to cold tier your backups
- Create separable, protected cross-account and cross-region backups to meet compliance needs
- Centrally manage data protection across AWS organizations accounts

# Protecting VMware workloads using AWS Backup





**Thank you!**

