aws migrations

VMware Cloud™ on AWS

Modernizing Your Migrated Workloads

Brian Graf
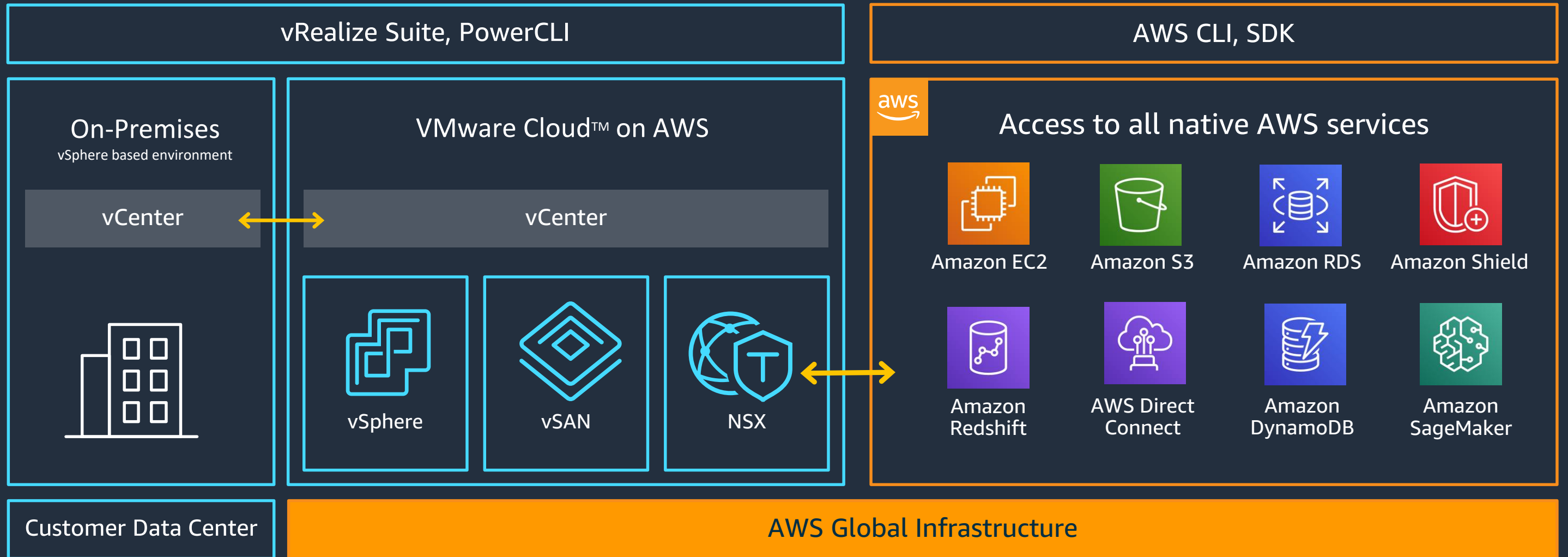
Sr. Partner Solutions Architect

Learning Objectives

In this session you will learn:

- How the networking and connectivity works between VMC and AWS
- How to enhance current applications easily with native AWS services

VMware Cloud on AWS

Innovation Jointly Engineered by VMware and AWS

vRealize Suite, PowerCLI

AWS CLI, SDK

On-Premises
vSphere based environment

vCenter

VMware Cloud™ on AWS

vCenter

vSphere

vSAN

NSX

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Access to all native AWS services

Amazon EC2

Amazon S3

Amazon RDS

Amazon Shield

Amazon Redshift

AWS Direct Connect

Amazon DynamoDB

Amazon SageMaker

Customer Data Center

AWS Global Infrastructure

VMC Networking & Connectivity

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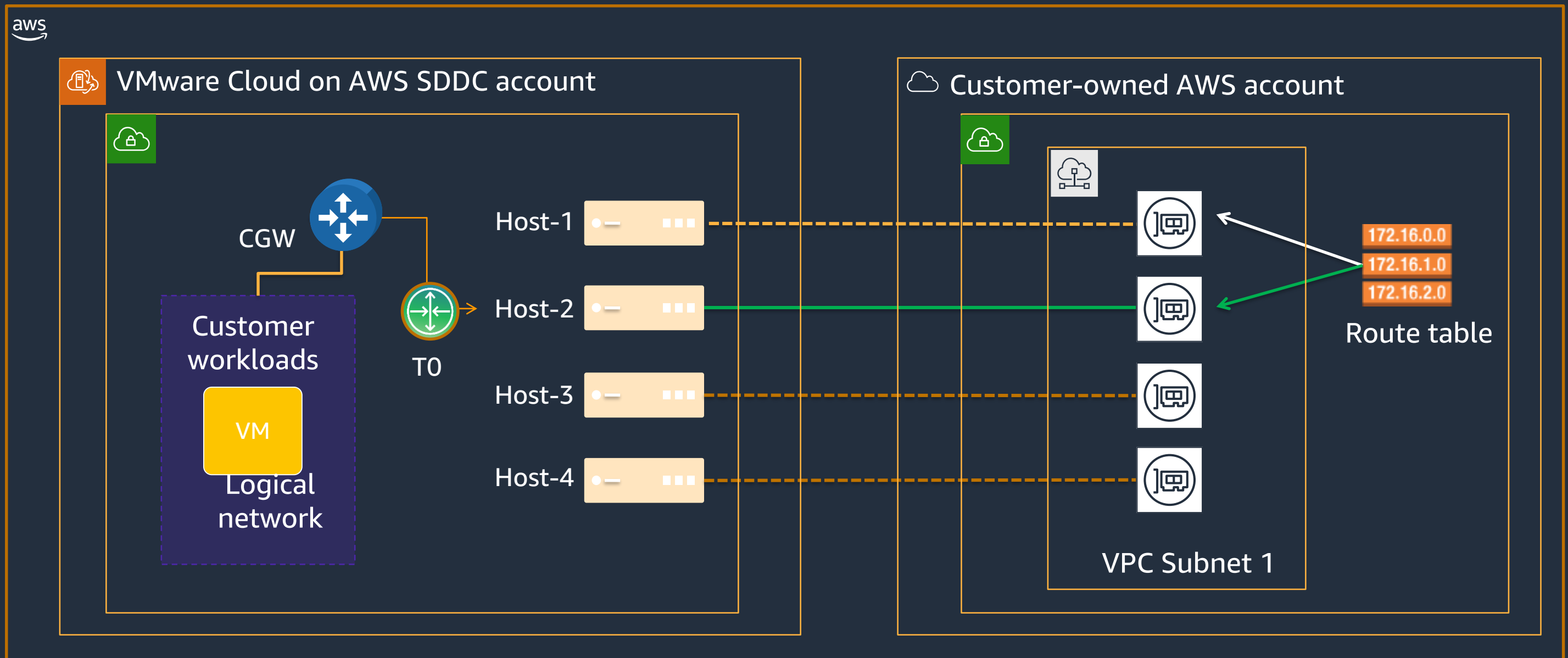# Elastic Network Interfaces (ENI)

- Virtual networking card

- Has a private IP in the address range of your subnet

- Can be *owned* by you or *managed* by an AWS service

- Apply security groups to an elastic network interface

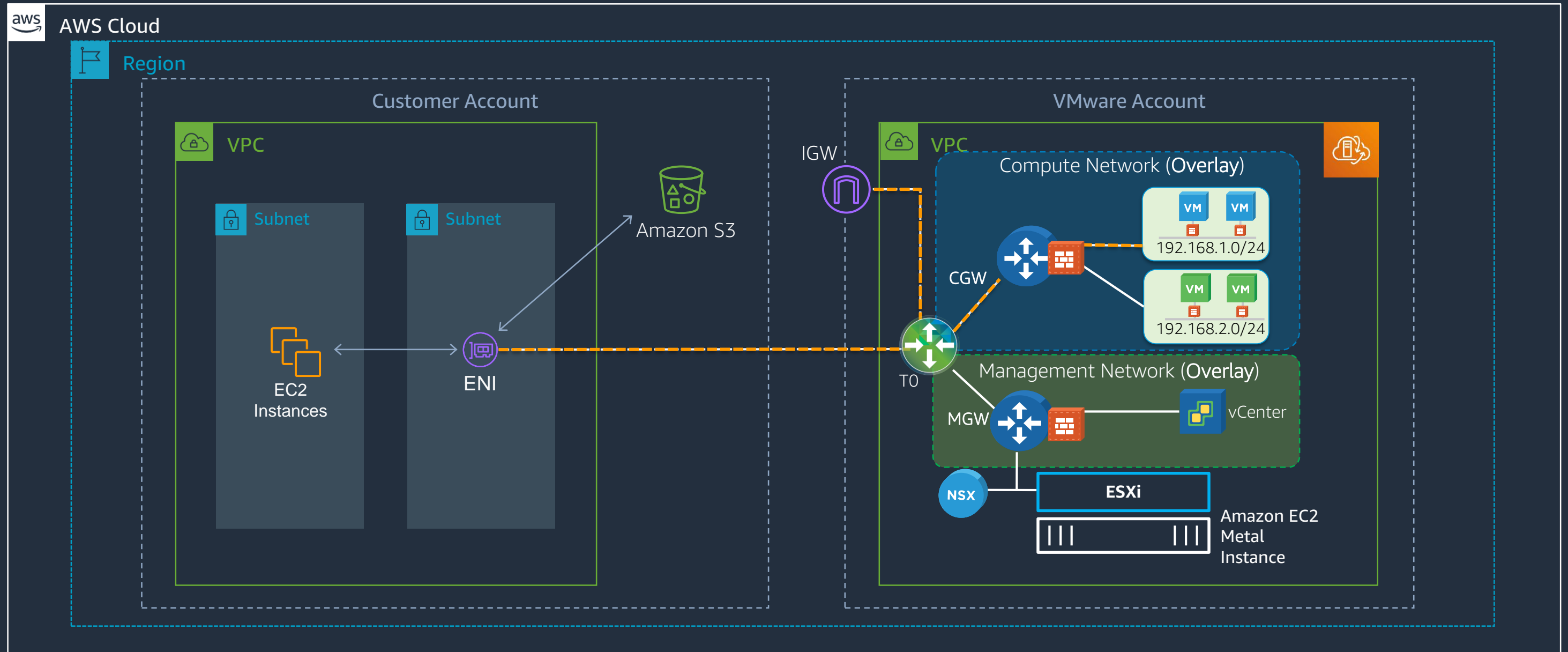# Connections to Customer VPCs
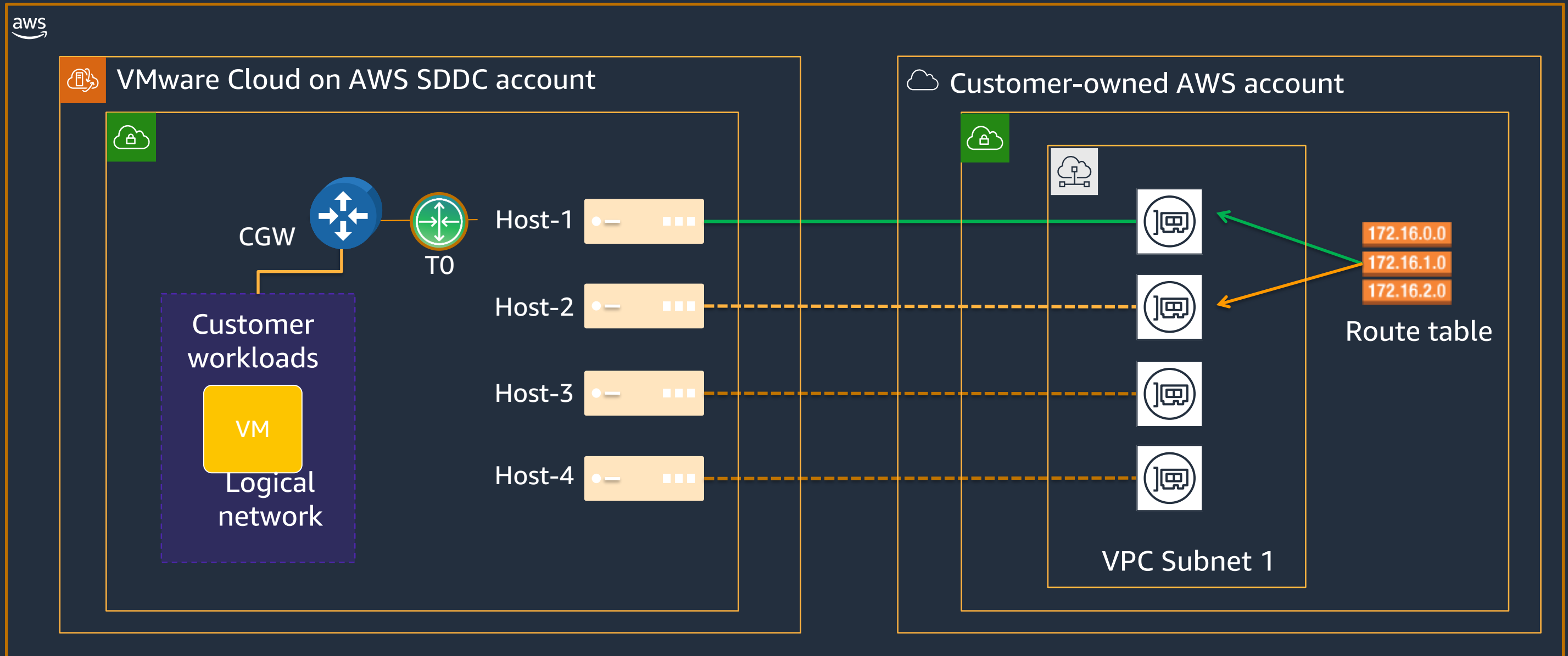
Recovered Connections to Customer VPCs

Connectivity Between VMC and AWS Services

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Considerations When Building Hybrid Applications

Things to Consider:

- Deploying AWS services into the same Availability Zone as the SDDC will keep you from incurring cross-AZ data charges

- Using PrivateLink keeps the connectivity private and secure

- Additional AWS services are billed to the account of the connected VPC

- Both the AWS security group and the NSX firewall need to allow traffic for connectivity

# Enhancing Current Applications With AWS Services

Finding the 'Quick Wins' and Low-Hanging Fruit

- "What AWS services can I easily attach to an existing application with very little re-configuration that will enhance the end-user's experience?"

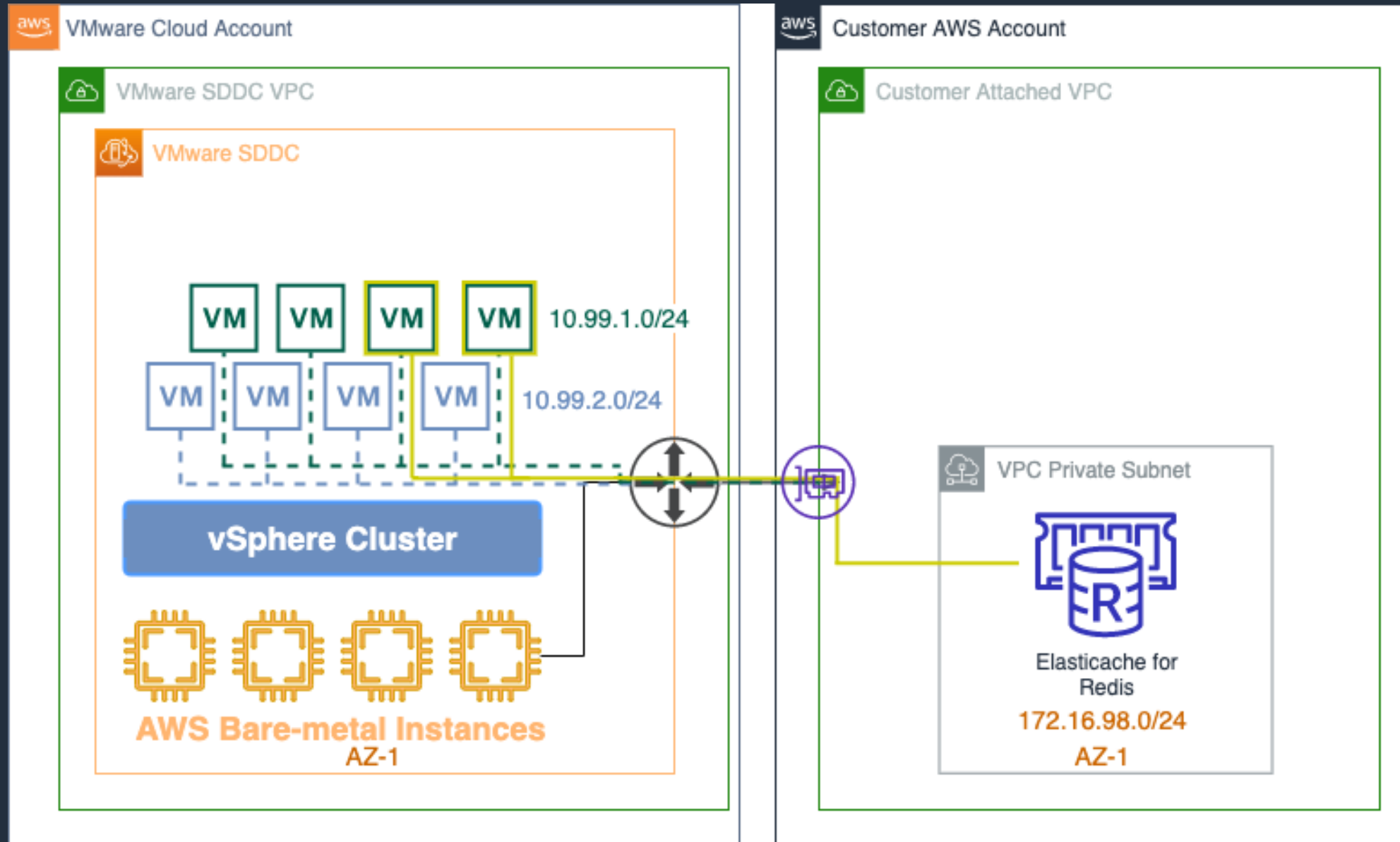- "What additional business requirements can be met with native AWS services?"

Adding an Application Load Balancer
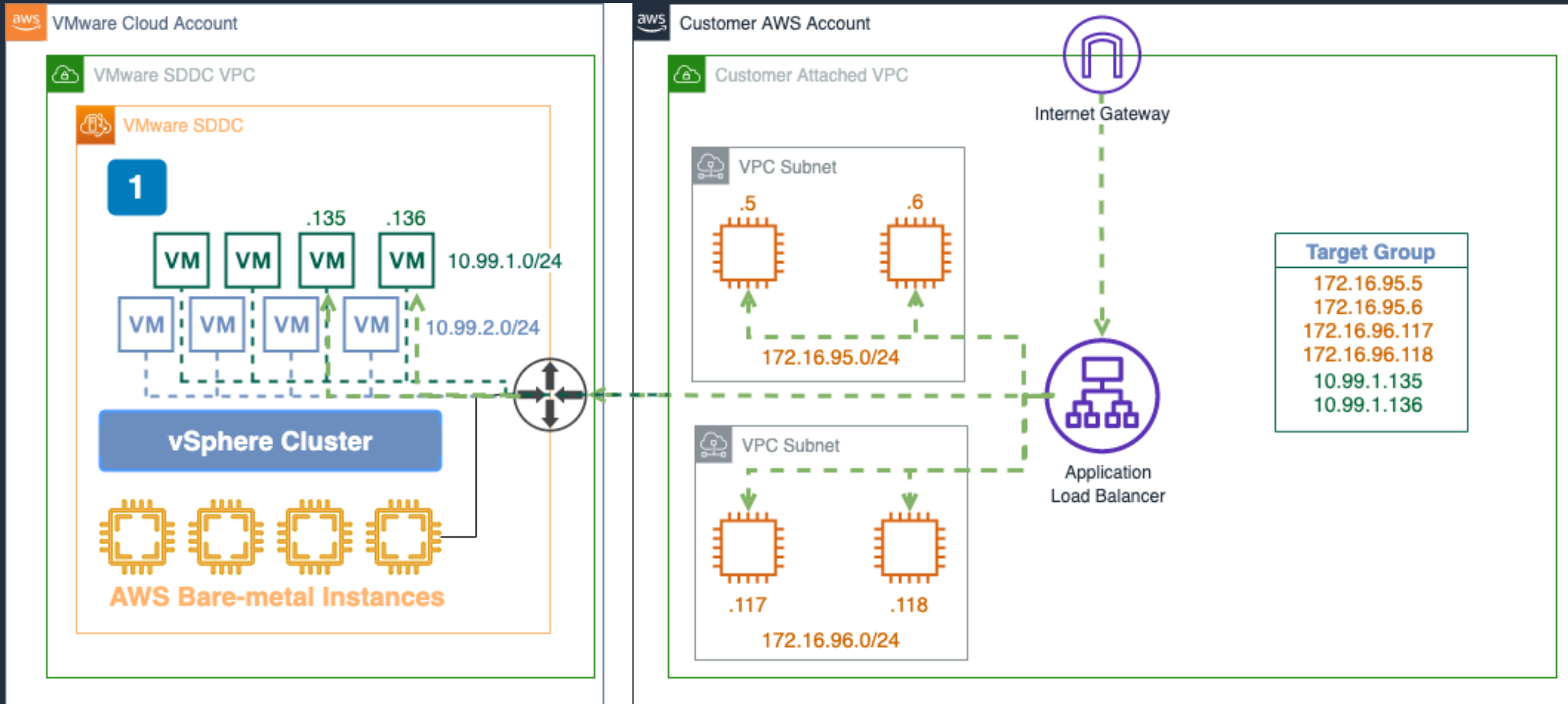
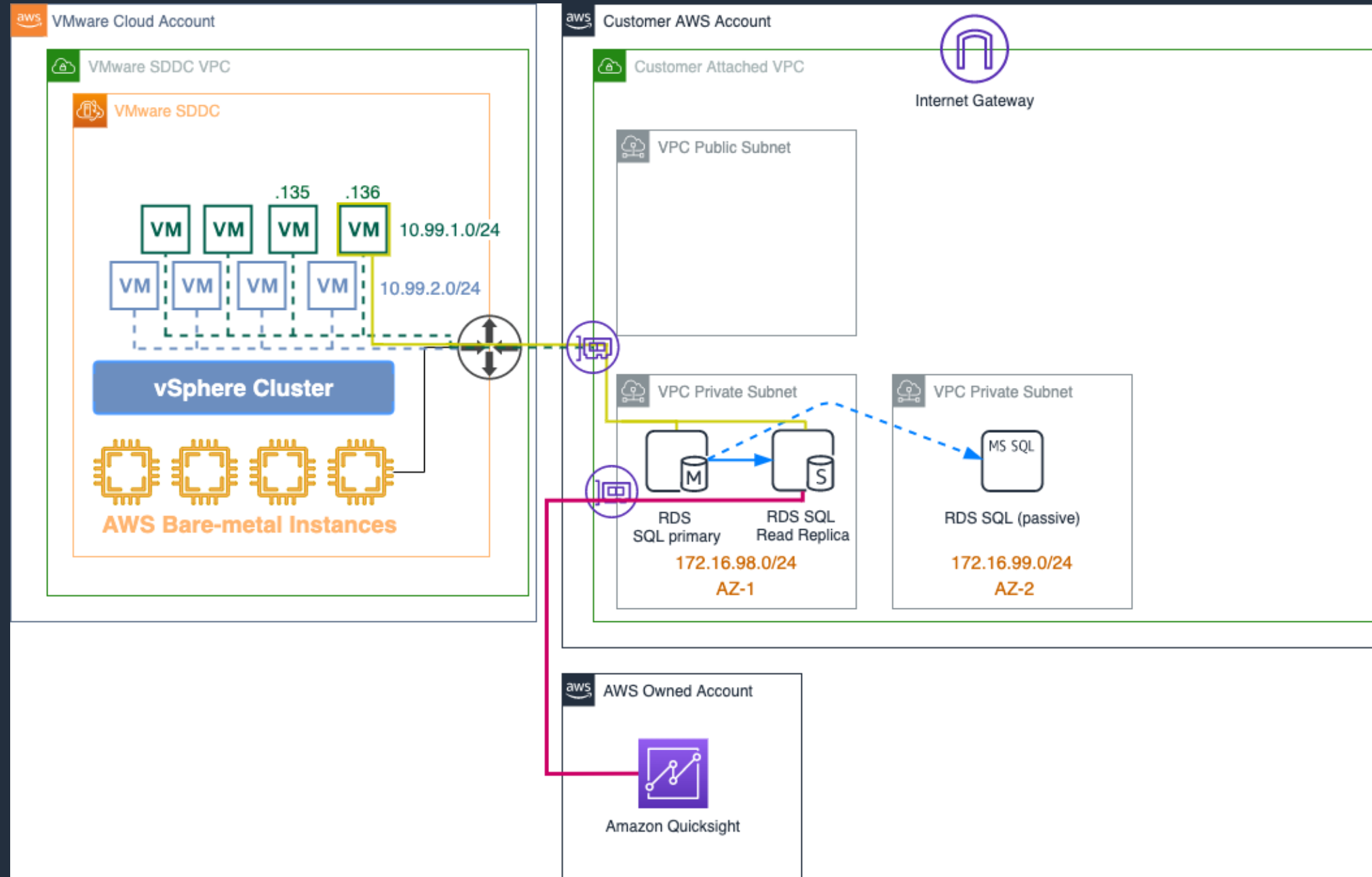# Adding an Application Load Balancer + More!
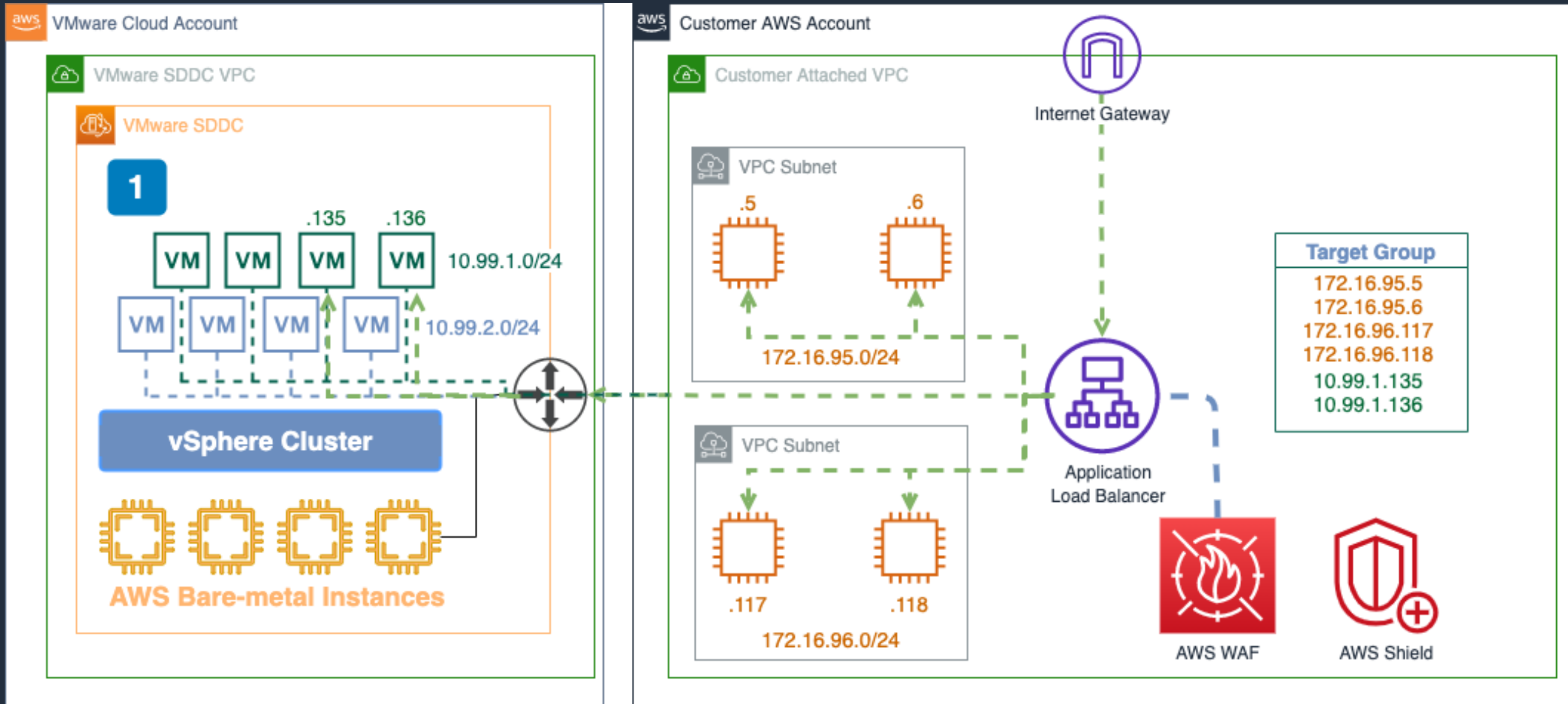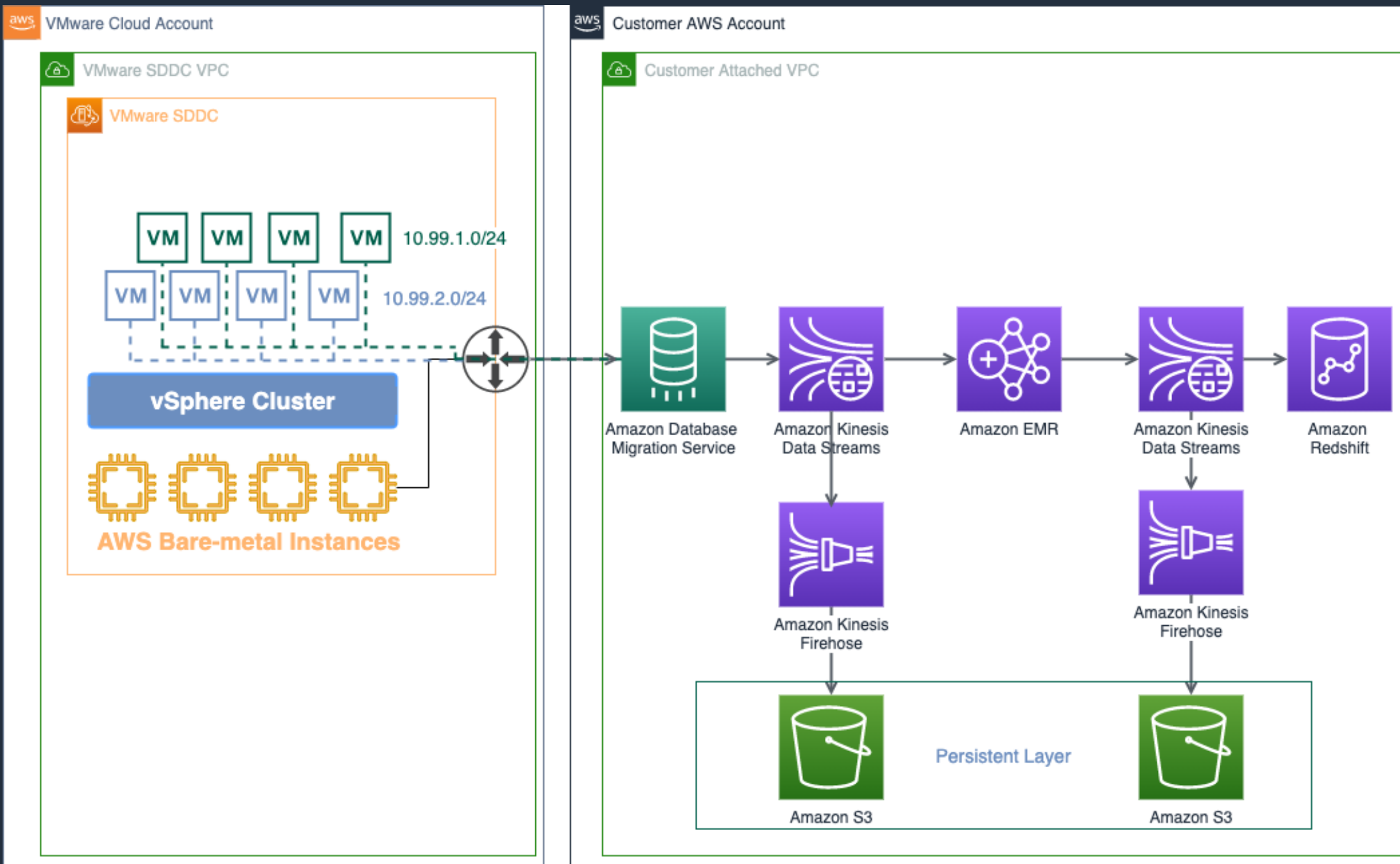
Add ElastiCache for Redis

- Add the ElastiCache Cluster

- Enable network traffic

- Point application to cluster

Using Multi-AZ Databases With Read Replicas

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Big Data and Data Warehouse

Thank You!

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