Oracle RAC on VMware Cloud on AWS

Services Integration: AWS Elastic Beanstalk, Amazon Elastic File System (Amazon EFS), and Amazon Simple Storage Service (Amazon S3)
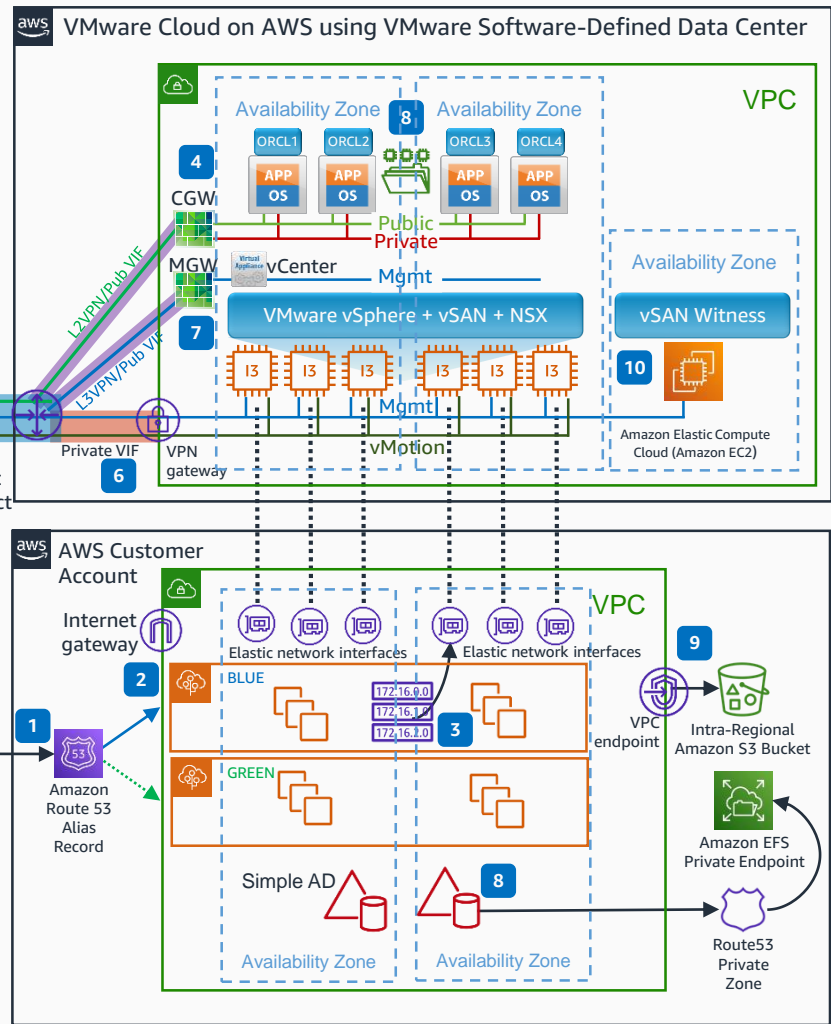
Move Live vMotion vSphere workloads to the Cloud without downtime and integrate them with AWS Cloud services.

AWS Reference Architecture

Description

1 DNS requests are handled by **Amazon Route 53**, a highly available domain name system (DNS) service.

2 An alias record resolves to an active **AWS Elastic Beanstalk** environment: BLUE or GREEN.

3 Application servers natively communicate with **VMware Cloud on AWS** via VMware Cloud ENI route table entries.

4 VMware Compute Edge Gateway (CGW) maintains route table for all NSX Logical Networks via Cross Account Identity and Access Management Role.

5 NSX Logical Networks extended on-premises via Layer 2 VPN (L2VPN) between CGW and an NSX Edge Appliance, routed over DX Public Virtual Interface providing support for Live vMotion.

6 VMware vmKernel Management + vMotion networks are routed over DX Private Virtual Interface.

7 Hybrid Linked Mode established between vCenter Servers via Layer 3 VPN (L3VPN), routed over DX Public Virtual Interface.

8 **Amazon Elastic File System (Amazon EFS)** is mounted in-guest for Archive Logs. The **Amazon EFS private endpoint** is resolved via Simple AD DNS recursion to **Amazon Route 53**.

9 Oracle Recovery Manager backups are securely written to **Amazon S3** via VPC Endpoint.

10 NSX Logical Networks span two **Availability Zones** with a vSAN Witness deployed into the third Availability Zone.