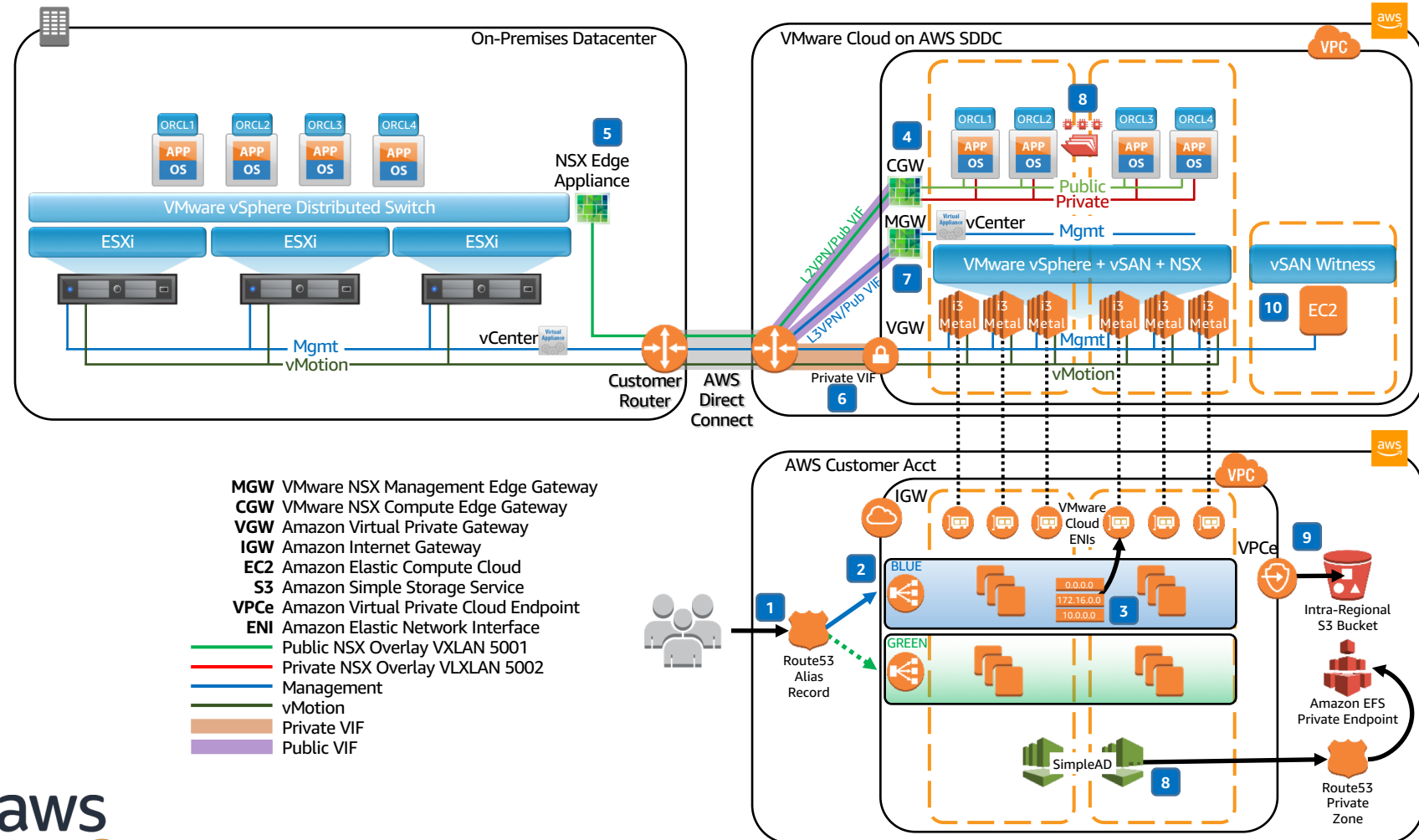


Oracle RAC on VMware Cloud on AWS

Native Services Integration: Elastic Beanstalk, Elastic File System, and S3

Live vMotion vSphere workloads to the Cloud without downtime and integrate them with Cloud Native Services.



- MGW** VMware NSX Management Edge Gateway
- CGW** VMware NSX Compute Edge Gateway
- VGW** Amazon Virtual Private Gateway
- IGW** Amazon Internet Gateway
- EC2** Amazon Elastic Compute Cloud
- S3** Amazon Simple Storage Service
- VPCe** Amazon Virtual Private Cloud Endpoint
- ENI** Amazon Elastic Network Interface
- Public NSX Overlay VXLAN 5001
- Private NSX Overlay VXLAN 5002
- Management
- vMotion
- Private VIF
- Public VIF

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** maintains route table for all **NSX Logical Networks** via **Cross Account Identity and Access Management Role**.
- 5** NSX Logical Networks extended on-premises via **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 **L3VPN**, routed over **DX Public Virtual Interface**.
- 8** **Amazon Elastic File System** is mounted in-guest for **Archive Logs**. The **EFS private endpoint** is resolved via **SimpleAD DNS recursion** to 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 AZ.

