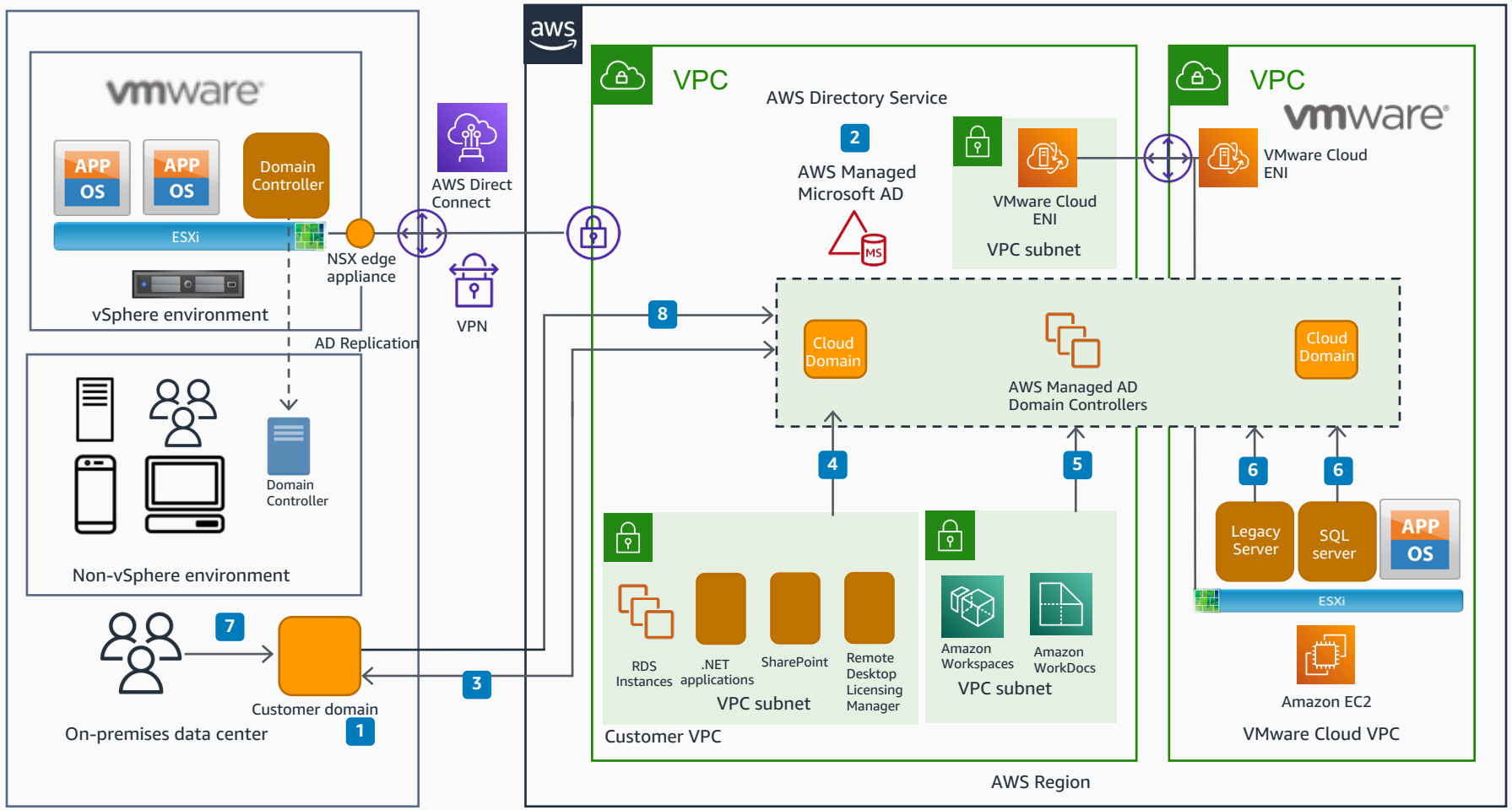
Hybrid Active Directory Trusted Domains

Using AWS Directory Service Managed Active Directory services

This architecture shows AD Trusted Domains in which a Customer Domain is configured in a 1-way or 2-way trust relationship with Cloud Domain, providing managed AD services for both **Amazon Elastic Compute Cloud (Amazon EC2)** instances and VMware Cloud on AWS virtual machines (VMs). It is provisioned using **AWS Directory Service for Microsoft Active Directory** to provide multiple domain controllers, high availability, automated patching, and automatic backups.



1. Customer Domain is deployed on-premises with Users, Computers, and Group Policy as the single source of identity.
2. Customer Domain is provisioned as a separate domain on AWS with the **AWS Managed Microsoft AD.**
3. Cloud Domain is configured in a 1-way or 2-way trust with Customer Domain enabling on-premises Users and AD Security Groups to access cloud instances and VMs.
4. AWS Instances are seamlessly domain-joined to the Cloud Domain at launch.
5. AWS enterprise apps users are domain-joined to Cloud Domain.
6. VMware Cloud VMs are domain-joined to Cloud Domain with access through VMC Compute Gateway Firewall Rules.
7. Users are authenticated to Customer Domain through on-premises domain controllers.
8. On-premises users access AWS or VMC resources through the 1-way or 2-way trust relationship and AD Global Security Group permissions.

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AWS Reference Architecture