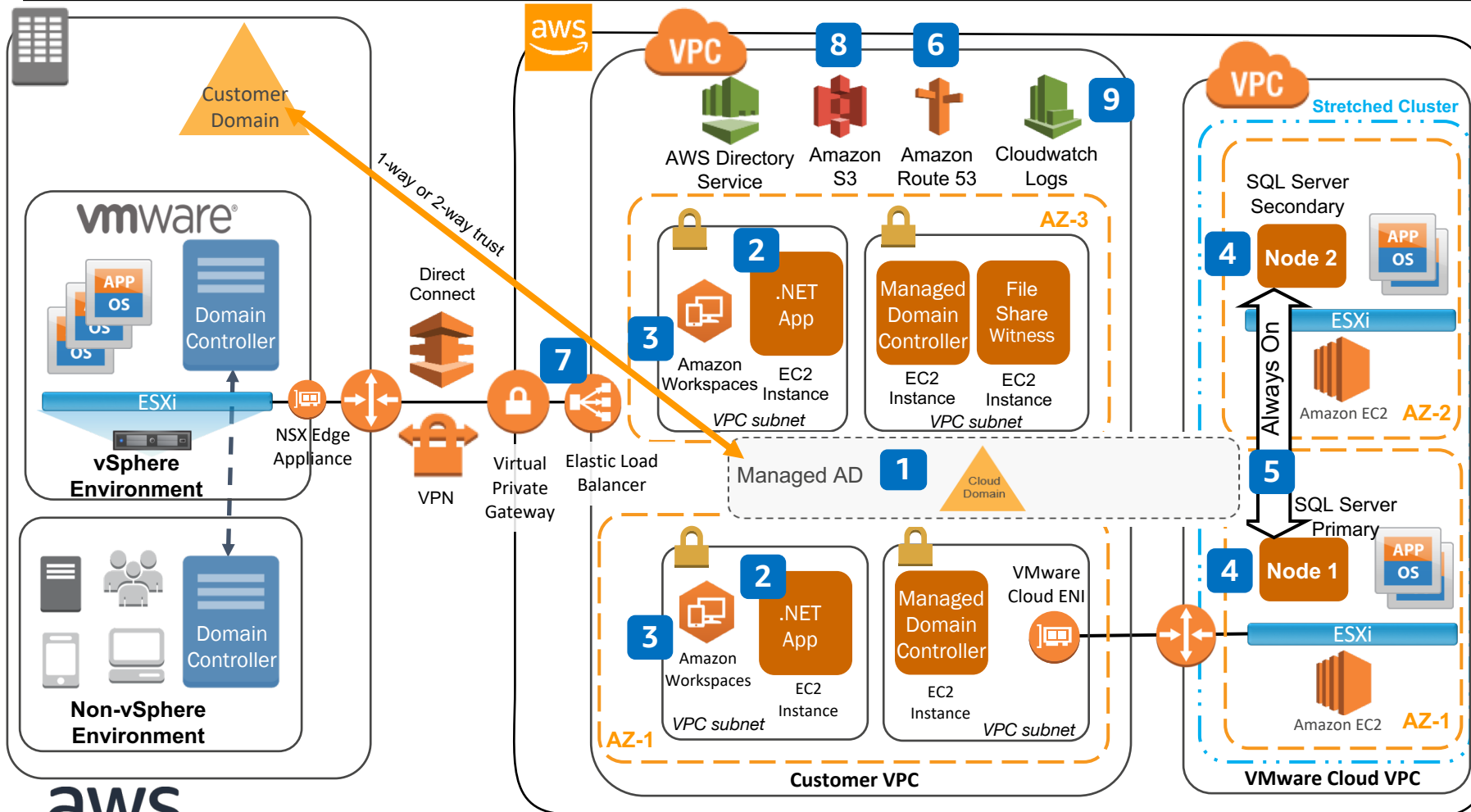


# Microsoft SQL Server Reference Architecture

## AWS and VMware Cloud Environment

Provides high performance and availability in a hybrid environment with the SQL Server Always On Availability Group feature.



- | # | Description   |
|---|---|
| 1 | AWS Directory Service for Microsoft Active Directory (AWS Microsoft AD) provides a managed AD for the <b>Customer VPC</b> and the <b>VMware Cloud VPC</b> . |
| 2 | .NET applications are seamlessly domain-joined and multi-AZ.  |
| 3 | Users of Amazon Workspaces have their cloud desktops seamlessly domain-joined.  |
| 4 | Microsoft SQL Server is deployed on <b>VMware Cloud VPC</b> with local NVMe SSDs.   |
| 5 | The SQL Server Always On Availability Group feature is deployed on a stretched cluster in an availability group.  |
| 6 | Route 53 updates the DNS A record of the listener from Primary to Secondary (or vice versa) in the event of a failover.                                     |
| 7 | An Elastic Load Balancer distributes traffic across multi-AZ .NET applications.   |
| 8 | Amazon S3 is used to back up SQL Server.  |
| 9 | Cloudwatch is used to monitor and provide metrics on instances, the load balancer, and network devices.   |

