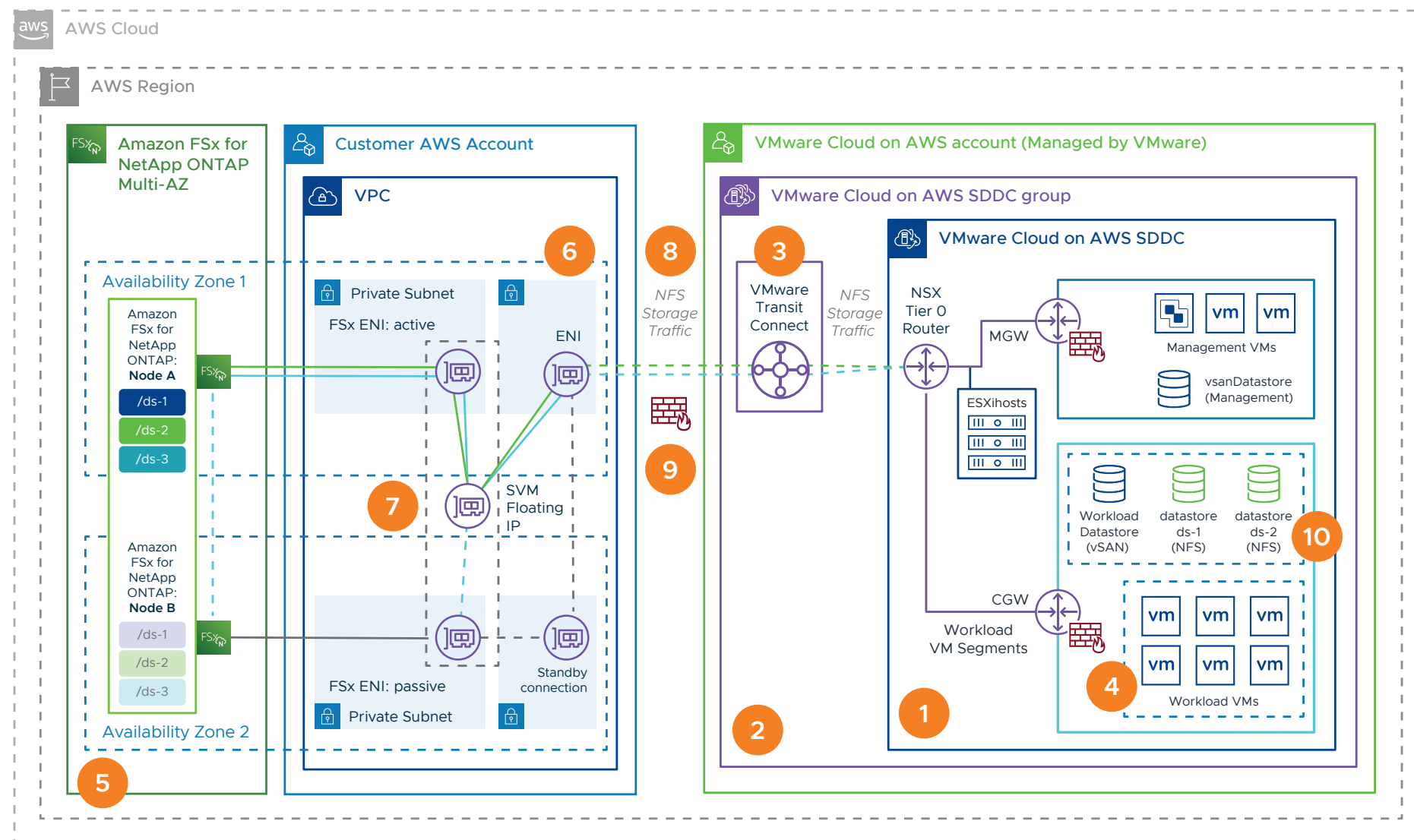


Amazon FSx for NetApp ONTAP integration with VMware Cloud on AWS

This architecture details how to connect Amazon FSx for NetApp ONTAP file systems to VMware Cloud on AWS as vSphere datastores.



1. **VMware Cloud on AWS Software Defined Datacenter (SDDC)** is deployed in a single AZ configuration with a single vSphere cluster.
2. The SDDC is added to an SDDC Group. While creating the SDDC Group, a VMware Managed Transit Gateway (vTGW) is automatically configured for you.
3. vTGW is a VMware-managed regional router powered by AWS Transit Gateway. The vTGW provides connectivity between the Amazon FSx for NetApp ONTAP (FSx for ONTAP) NFS volumes and ESXi hosts running in the SDDC.
4. Customer VMs require additional storage capacity to augmented default vSAN workload datastore.
5. A Multi-AZ file system powered by **Amazon FSx for NetApp ONTAP** is deployed across two AWS Availability Zones (AZs). The file system contains multiple volume. Ds-1 and ds-2 will be used as datastores to add storage capacity to the vSphere cluster.
6. **AWS Transit Gateway Elastic Network Interface** connects the customer VPC to the VMware Transit Connect. This is different to the cross account ENI and can be deployed in a dedicated 28-bit subnet or within the FSx subnet.
7. Storage Virtual Machine (SVM) is configured with a floating IP address. You will use this IP address to specify the NFS Server IP address when connecting FSx for ONTAP datastores to the SDDC vSphere cluster.
8. Storage traffic flows from the datastore mounted on the ESXi hosts to the VMware Transit Connect. From here the Transit Connect routes the storage traffic to the AWS Transit Connect attachment in the customer managed VPC where it is finally routed to the Active FSx for ONTAP ENI.
9. You need to configure Security Group in your AWS VPC to allow incoming NFS traffic from the ESXi host management subnet.
10. Two NFS datastores are attached to the vSphere cluster providing additional storage capacity.