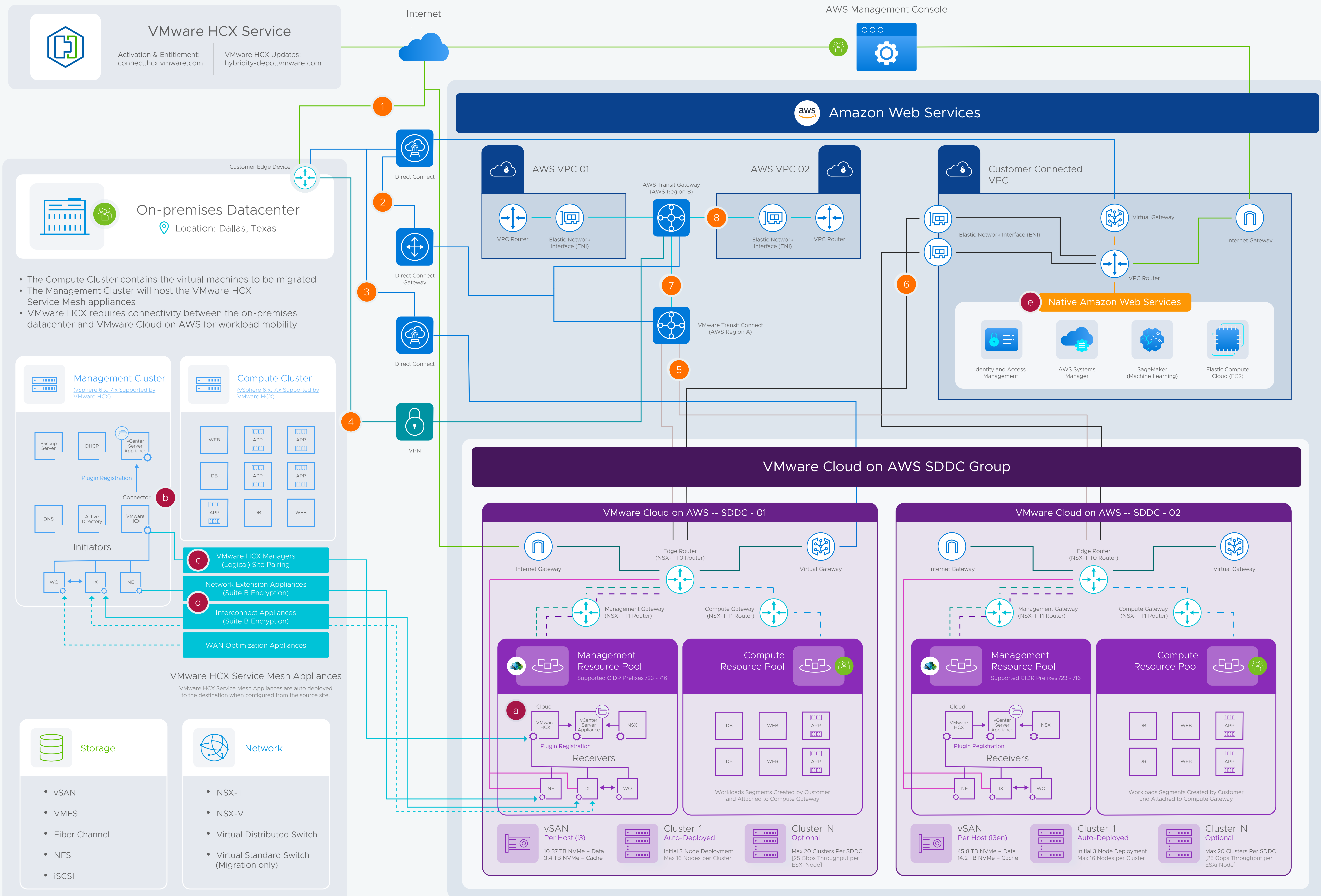


VMware Cloud on AWS Logical Design

for Workload Mobility



Try VMware Cloud on AWS with VMware Hands-On-Labs

Network Connectivity Options

- On-Prem <--> VMware Cloud on AWS SDDC**
 - 1 Use the public Internet
 - 2 Use VMware Transit Connect through a Direct Connect Gateway
 - 3 Use Direct Connect that connects directly to the virtual gateway in the VMware Cloud on AWS SDDC
 - 4 Use VPN (Note: For HCX services, the VPN must not terminate on the NSX Edge in the VMware Cloud on AWS SDDC)
- VMware Cloud on AWS SDDC <--> VMware Cloud on AWS SDDC**
 - 5 Use VMware Transit Connect
- VMware Cloud on AWS SDDC <--> Connected VPC**
 - 6 Use direct connection through ENI
- VMware Cloud on AWS SDDC <--> Native AWS VPC**
 - 7 Use AWS Transit Gateway through the VMware Transit Connect (Note: only for inter-region connectivity)
 - 8 Use AWS Transit Gateway

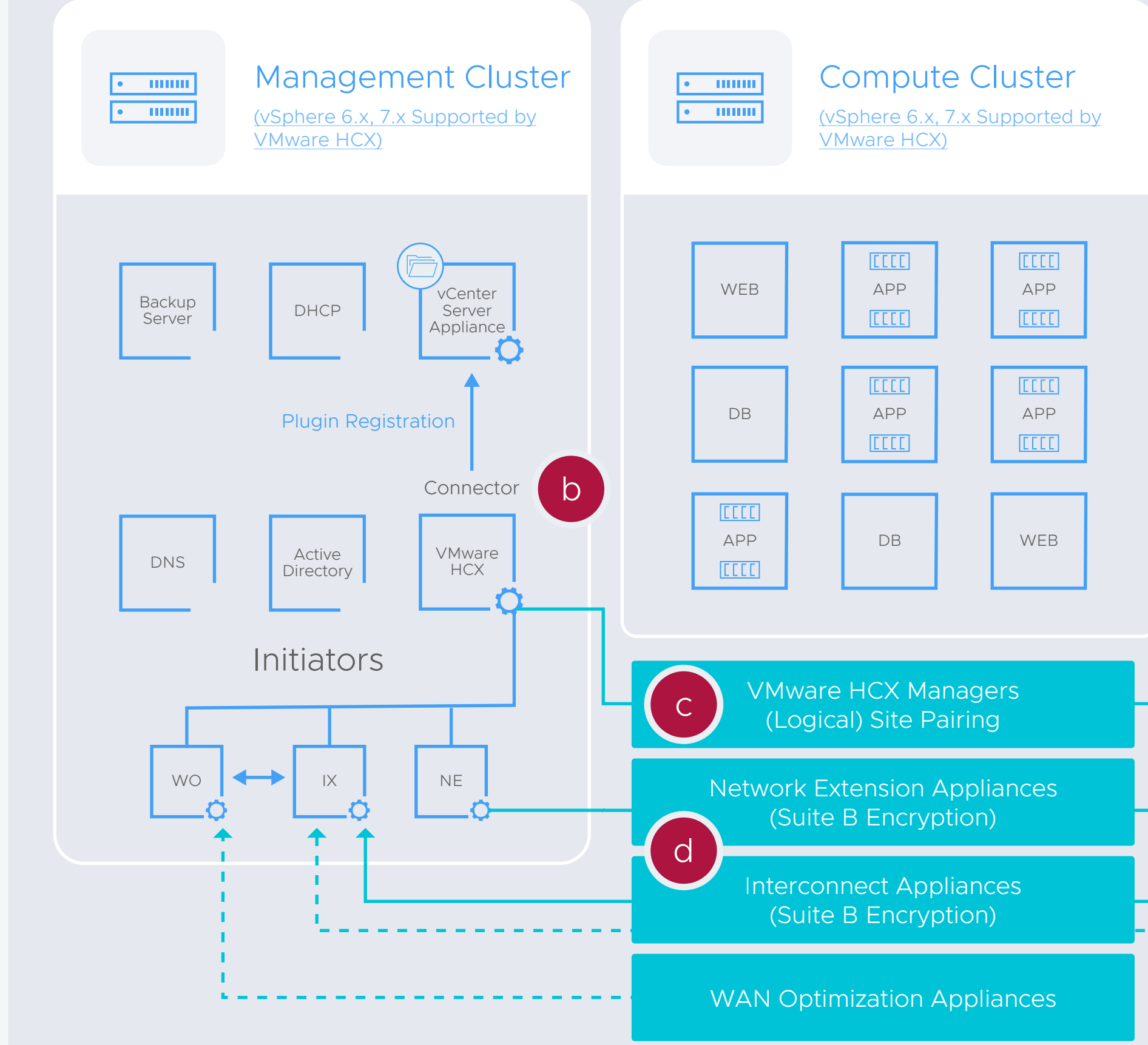
Workload Migration Steps Using VMware HCX

- a Enable the VMware HCX service in VMware Cloud on AWS.
 - Decide on using public or private IP for VMware HCX in VMware Cloud on AWS.
 - Configure appropriate firewall rules according to the [VMware HCX Networking and Port requirements](#).
- b Deploy and configure an HCX Connector in the on-premises vSphere environment.
- c From the on-premises HCX Connector, create an HCX site-pair with HCX Cloud deployed in the VMware Cloud on AWS SDDC.
 - Configure HCX Network and Compute profiles to provide details for the HCX appliances.
 - Create an HCX Service Mesh. This will automatically deploy the corresponding appliances in both on-premises and VMware Cloud on AWS SDDC.
- d Extend virtual machine networks with VMware HCX and use [Bulk, vMotion, Cold Migration](#) to migrate workloads from on-premises to VMware Cloud on AWS.
- e With VMware workloads migrated to the cloud, customer has direct access to other native AWS services.

Legend

- AWS Direct Connect
- Internet Connection
- Workload Traffic
- vSAN Network
- Management & vMotion Network
- Customer Managed
- Content Library
- VMware Managed
- VMware Managed VMware HCX Service

- The Compute Cluster contains the virtual machines to be migrated
- The Management Cluster will host the VMware HCX Service Mesh appliances
- VMware HCX requires connectivity between the on-premises datacenter and VMware Cloud on AWS for workload mobility



- #### VMware HCX Service Mesh Appliances
- VMware HCX Service Mesh Appliances are auto deployed to the destination when configured from the source site.
- Storage**
 - vSAN
 - VMFS
 - Fiber Channel
 - NFS
 - iSCSI
 - Network**
 - NSX-T
 - NSX-V
 - Virtual Distributed Switch
 - Virtual Standard Switch (Migration only)