VMware Cloud Director Availability is a powerful solution built to offer simple, secure, and cost-effective onboarding, migration, and disaster recovery services "to" or "between" multi-tenant VMware clouds.

For production deployments between an on-premises vSphere environment and a Cloud Director service with Oracle Cloud VMware Solution environment, you need to deploy the following set of appliances at the source and destination sites.

For additional instructions on how to use VMware Cloud Director Availability please visit the documentation.

For production deployments, you need to deploy and configure dedicated VMware Cloud Director Availability Replicator appliance or appliances, it exposes the low-level data replication engine primitives as REST APIs.

A single appliance that contains the following services:
- VMware Cloud Director Availability Replicator Manager - a management service that operates on the vCenter Server level and understands its concepts for starting the replication workflow of the virtual machines. It must have TCP access to the Lookup Service and all the Replicator appliances.
- VMware Cloud Director Availability Replication Manager - a management service with embedded VMware Cloud Director Availability Portal - provides the primary interface for the cloud or on-prem replication operations. It understands the VMware Cloud Director service (VMware Cloud Director) level concepts and communicates with its API through VMware Cloud Director LB.

Simplifies provider networking setup by channeling all incoming and outgoing traffic for a site through a single point - the VMware Cloud Director Availability Tunnel appliance. The traffic is both management and monitoring for the replication data (L/W/D traffic).

You must set an IP and port in the local site that is reachable for remote sites and forward it to the private address of the VMware Cloud Director Availability Tunnel appliance, port 8048 by using destination network address translation (DNAT).

By using a public IP on the tunnel, you can migrate into the environment with any internet connectivity. VMware Cloud Director Availability Appliance for Tenants (On-prem Sites), which contains the binaries for the VMware VMware Cloud Director Availability appliance.

For VCPP Partners, an existing vCloud Usage Meter agent hosted at an on-premises cloud can be used. There are two options for collecting the VMware Cloud Director Availability usage data:
- Use the VMware Cloud Director Availability Endpoint Tunnel public IP address, read credentials and the Allow admin access from anywhere option set.
- Use another public address for directly accessing the VMware Cloud Director Availability Replication Management appliance, read credentials and Do not allow admin sessions from the internet option set.

The unikernel network interface (unik) of your ESXi hosts needs to have a vSphere Replication and vSphere Replication any FC options enabled so it can handle the replication traffic.

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1. For production deployments, you need to deploy and configure dedicated VMware Cloud Director Availability Replicator appliance or appliances, it exposes the low-level data replication engine primitives as REST APIs.

2. A single appliance that contains the following services:
   - VMware Cloud Director Availability Replicator Manager - a management service that operates on the vCenter Server level and understands its concepts for starting the replication workflow of the virtual machines. It must have TCP access to the Lookup Service and all the Replicator appliances.
   - VMware Cloud Director Availability wрап Replication Manager - an embedded VMware Cloud Director Availability Portal - provides the primary interface for the cloud and on-prem replication operations. It understands the VMware Cloud Director service (VMware Cloud Director) level concepts and communicates with its API through VMware Cloud Director LB.

3. Simplifies network setup by channeling all incoming and outgoing traffic for a site through a single point - the VMware Cloud Director Availability Tunnel appliance. The traffic is both management and monitoring for the replication data (LWD traffic).

4. You must set an IP and port in the local site that is reachable for remote sites and forward it to the private address of the VMware Cloud Director Availability Tunnel appliance, port 8048 by using destination network address translation (DNAT). By using a public IP on the tunnel, you can migrate into the environment with any Internet connectivity.

5. For VCP Partners, an existing vCloud Usage Meter agent hosted at an on-premises cloud can be used. There are two options for collecting the VMware Cloud Director Availability Usage data:
   - Use the VMware Cloud Director Availability Endpoint (Tunnel public IP address), root credentials and the Allow admin access from anywhere option set.
   - Use another public address for directly accessing the VMware Cloud Director Availability Cloud Replication Management appliance, root credentials and the Do not allow admin sessions from the Internet option set.

Key

Logical placement shown, existing VMware Cloud Director service multi-tenant cloud environments.

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