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, 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
- VMware Cloud Director Availability vApp Replicator Manager with embedded VMware Cloud Director Availability Portal

The embedded VMware Cloud Director Availability Portal provides tenants (VMware Cloud Director Availability Portal) and service providers (VMware Cloud Director Availability Service Provider Portal) with a graphic user interface to facilitate the management of the VMware VMware Cloud Director Availability solution. It also provides overall system and workload information.

Provides the main 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 achieving:
- discovery of VMware Cloud Director managed vApps/vM and ability to protect/migrate them to another DR-enabled cloud or on-premises vCenter
- discovery of suitable destination for incoming replications/migrations

A management service operating on the vCenter Server level understanding its concepts for starting the replication workflow of the virtual machines. It must have TCP access to the Lookup Service and all the Replication appliances as for each replication: the Replication Manager picks one replicator from source site and one from destination site.

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 (LW/L 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).

VMware Cloud Director Availability Appliance for Tenants (On-premises Sites), which contains the binaries for the VMware VMware Cloud Director Availability appliance.

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.

The unsecured network interface (vni) of your ESXi hosts needs to have vSphere Replication and vSphere Replication NPI options enabled so it can handle the replication traffic.

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