



Geo Redundancy Switchover

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Perform Switchover

Switchover is the process of interchanging the roles of the active cluster and standby cluster in the event of a failure.

In case of a failure, the system performs many preliminary checks (heartbeat count, connectivity checks, HTTP and SSH login checks, etc.) and raises alarms if they fail. If you notice an alarm, you are expected to check both clusters to verify the authenticity of the alarms before they attempt a switchover.



Note If a switchover operation is completed on a standby VM (before the sync operation), there are no rows or entries displayed on the **Publish Details** for tech-support jobs. This happens because the tech-support history is written to ETCD which is not synced across geo redundancy setups. This is an expected system behavior.

Before you begin

Before the switchover, it is important that both clusters have the same application versions and resource footprints used.

Step 1 Log in to the standby cluster.

Step 2 From the main menu, choose **Administration > Cross Cluster**. The **Cross Cluster** window is displayed.

Step 3 Click **Actions > Switch Cluster Role**

The **Switch Cluster Role** dialog box is displayed with the initial state of the clusters. For the purpose of this topic, SJC cluster (cluster-sjc) is in ACTIVE mode and NYC cluster (cluster-nyc) is in STANDBY mode.


Figure 1: Switch Cluster Role

Switch Cluster Role


Please set the role of current cluster to ACTIVE/STANDBY.
To ensure you don't lose any data, it's important to sync between clusters if there have been any configuration changes since the last time you synced.

To switch over, follow these three steps:

1. Switch the role of the current ACTIVE to STANDBY cluster.
2. Make sure that the DNS Resource records are manually updated to point to the new active cluster endpoint (virtual IP) within 5 minutes after switching.
3. In peer cluster, switch the role from STANDBY to ACTIVE.



cluster-nyc
New York
STANDBY

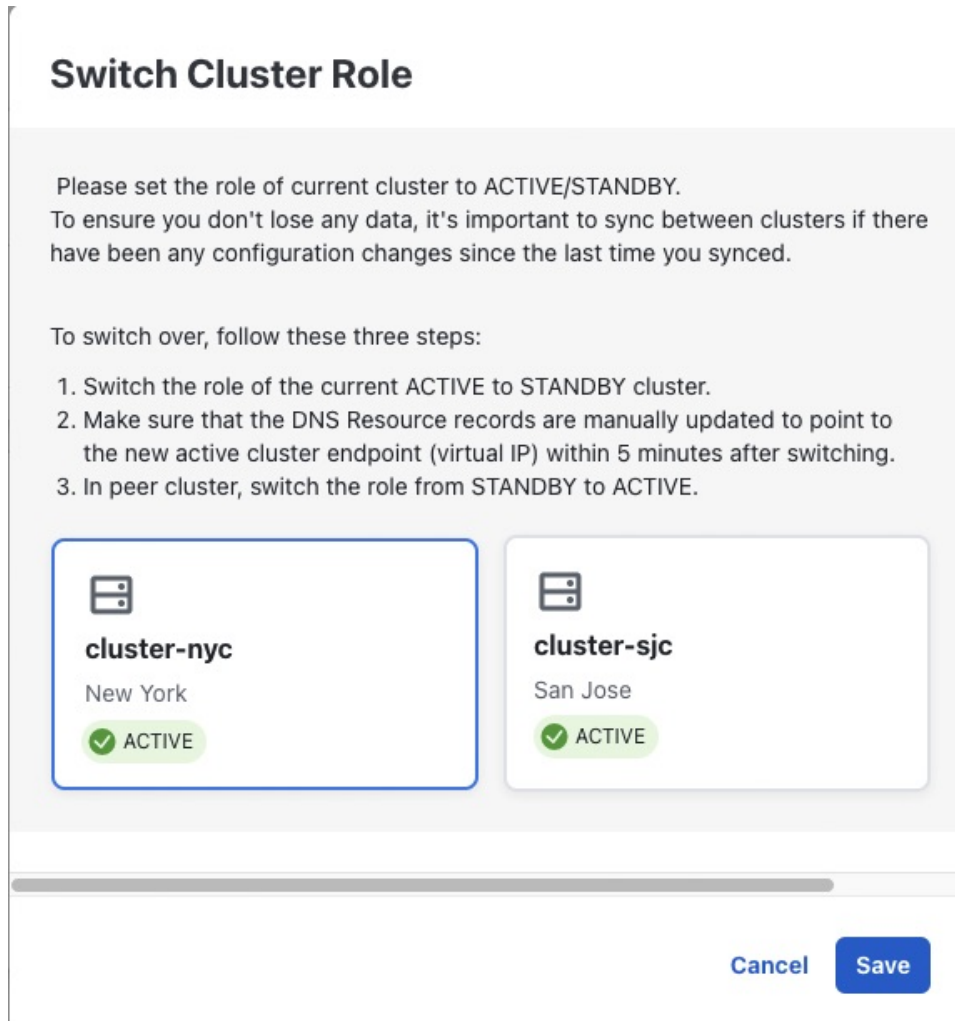


cluster-sjc
San Jose
ACTIVE

Cancel Save

Step 4 Click on the NYC cluster to change it to ACTIVE state. Click **Save** to confirm change.

Figure 2: Switch standby cluster to active



Step 5 Update the DNS server records of Management FQDN and Data FQDN to point to the new active cluster.

Step 6 Now log in to the SJC cluster (already active). In the **Cross Cluster** window, click **Actions** > **Switch Cluster Role**.

Note At this point, till the time you change the cluster state, both clusters will be in ACTIVE state.

Step 7 In the **Switch Cluster Role** dialog box, click on the cluster to change it to STANDBY state.


Figure 3: Switch active cluster to standby

Switch Cluster Role


Please set the role of current cluster to ACTIVE/STANDBY.
To ensure you don't lose any data, it's important to sync between clusters if there have been any configuration changes since the last time you synced.

To switch over, follow these three steps:

1. Switch the role of the current ACTIVE to STANDBY cluster.
2. Make sure that the DNS Resource records are manually updated to point to the new active cluster endpoint (virtual IP) within 5 minutes after switching.
3. In peer cluster, switch the role from STANDBY to ACTIVE.



cluster-sjc
San Jose
STANDBY



cluster-nyc
New York
ACTIVE

Cancel Save

Click **Save** to confirm the change.

Note Wait for the device reachability to converge before moving to resume operations on the standby cluster.

Step 8 After few minutes, log in to the first cluster. The switchover will be completed.