



Manage SnapMirror active sync

ASA r2

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Manage SnapMirror active sync


Reconfigure ONTAP Mediator or ONTAP Cloud Mediator to use a third-party certificate on ASA r2 systems


If you configure ONTAP Mediator or ONTAP Cloud Mediator with a self-signed certificate, you can reconfigure the mediator to use a third-party certificate. Third party certificates might be preferred or required by your organization for security reasons.

Step 1: Remove the mediator configuration

To reconfigure the mediator, you must first remove its current configuration from the cluster.

Steps

1. In System Manager, select **Protection > Overview**.
2. In the right pane, under **Mediators**, select  next to the cluster peer with the mediator configuration that you want to remove; then select **Remove**.


If you have multiple mediators installed, and you want to remove all configurations, select  next to **Mediators**; then select **Remove**.

3. Select **Remove** to confirm that you want to remove the mediator configuration.

Step 2: Remove the self-signed certificate

After the mediator configuration is removed, you should remove the associated self-signed certificate from the cluster.

Steps

1. Select **Cluster > Settings**.
2. Under **Security**, select **Certificates**.
3. Select the certificate that you want to remove.
4. Select ; then select **Delete**.

Step 3: Reinstall the mediator with a third-party certificate

After you have removed the associated self-signed certificate, you can reconfigure the mediator with the third-party certificate.

Steps

1. Select **Protection > Overview**.
2. In the right pane, under **Mediators**, select **Add a mediator**.
3. Select the **Mediator type**.
4. For a **Cloud** mediator enter the organization ID, client ID and client secret. For an **On-premises** mediator enter the IP address, port, mediator user name, and mediator password.
5. Select a cluster peer from the list of eligible cluster peers or select **Add a cluster peer** to add a new one.

6. Under **Certificate**, enter the third-party certificate information.
7. Select **Add**.

Result

The ONTAP Mediator or ONTAP Cloud Mediator is reconfigured to use the third-party certificate. You can now use the mediator to manage SnapMirror active sync relationships.


Perform a planned failover of ASA r2 clusters in a SnapMirror active sync relationship

SnapMirror active sync offers continuous availability for business-critical applications by creating a copy of your data at a secondary site and enabling your host applications to automatically and transparently fail over in the event of a disaster. You might need to perform a planned failover of your SnapMirror active sync relationship to test the failover process or to perform maintenance on the primary site.

Before you begin

- The SnapMirror active sync relationship must be in sync.
- You cannot initiate a planned failover when a nondisruptive operation, such as a storage unit move, is in process.
- ONTAP Mediator or ONTAP Cloud Mediator must be configured, connected, and in quorum.

Steps

1. Select **Protection > Replication**.
2. Select the SnapMirror active sync relationship you want to fail over.
3. Select ; then select **Failover**.

What's next

Use the `snapmirror failover show` command in the ONTAP command line interface (CLI) to monitor the status of the failover.

Reestablish the SnapMirror active sync relationship after an unplanned failover of your ASA r2 clusters

On ASA r2 systems, SnapMirror active sync supports symmetric active/active configurations. In a symmetric active/active configuration both sites can access local storage for active I/O. If the source cluster fails or is isolated, the mediator triggers an automatic unplanned failover (AUFO) and serves all I/O from the destination cluster until the source cluster recovers.

If you experience an AUFO of your SnapMirror active sync relationship, you should reestablish the relationship and resume operations on the original source cluster after it comes back online.


Before you begin

- The SnapMirror active sync relationship must be in sync.
- You cannot initiate a planned failover when a nondisruptive operation, such as a storage unit move, is in

process.

- The ONTAP Mediator must be configured, connected, and in quorum.
- To recover lost I/O paths or update I/O path states on your hosts, you need to perform a storage/adapter rescan on the hosts after the primary storage cluster resumes operation.

Steps

1. Select **Protection > Replication**.
2. Select the SnapMirror active sync relationship you need to reestablish.
3. Wait for the relationship status to display **InSync**.
4. Select ; then select **Failover** to resume operations on the original primary cluster.


Delete a SnapMirror active sync relationship on your ASA r2 system

If you no longer require near zero RPO and RTO for a business application, you should remove SnapMirror active sync protection by deleting the associated SnapMirror active sync relationship. If you are running ONTAP 9.16.1 on an ASA r2 system, you might also need to delete the SnapMirror active sync relationship before you can make certain geometry changes to consistency groups in a SnapMirror active sync relationship.

Step 1: Terminate host replication

If the host group from the source cluster is replicated to the destination cluster and destination consistency groups are mapped to the replicated host group, you must terminate host replication on the source cluster before you can delete the SnapMirror active sync relationship.


Steps

1. In System Manager, select **Host**.
2. Next to a host containing the host group you want to stop replicating, select , and then select **Edit**.
3. Deselect **Replicate host configuration**, and then select **Update**.

Step 2: Delete the SnapMirror active sync relationship

To remove SnapMirror active sync protection from a consistency group, you must delete the SnapMirror active sync relationship.

Steps

1. In System Manager, select **Protection > Replication**.
2. Select **Local destinations** or **Local sources**.
3. Next to the SnapMirror active sync relationship that you want to remove, select ; then select **Delete**.
4. Select **Release the source consistency group base snapshots**.
5. Select **Delete**.

Result

The SnapMirror active sync relationship is removed and the source consistency group base snapshots are released. The storage units in the consistency group are no longer protected by SnapMirror active sync.

What's next?

[Set up snapshot replication](#) to copy the consistency group to a geographically remote location for backup and disaster recovery.

Remove ONTAP Mediator or ONTAP Cloud Mediator from your ASA r2 system

You can use only one type of mediator at a time for SnapMirror active sync on your ASA r2 system. If you choose to change your mediator type, you must remove your current instance before you install another instance.

Steps

You must use the ONTAP command line interface (CLI) to remove ONTAP Mediator or ONTAP Cloud Mediator.

ONTAP Mediator

1. Remove ONTAP Mediator:

```
snapmirror mediator remove -mediator-address <address> -peer-cluster <peerClusterName>
```

Example:

```
snapmirror mediator remove -mediator-address 12.345.678.90 -peer-cluster cluster_xyz
```

ONTAP Cloud Mediator

1. Remove ONTAP Cloud Mediator:

```
snapmirror mediator remove -peer-cluster <peerClusterName> -type cloud
```

Example:

```
snapmirror mediator remove -peer-cluster cluster_xyz -type cloud
```

Related information

- [snapmirror mediator remove](#)

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