



SnapMirror Business Continuity overview

ONTAP System Manager

NetApp

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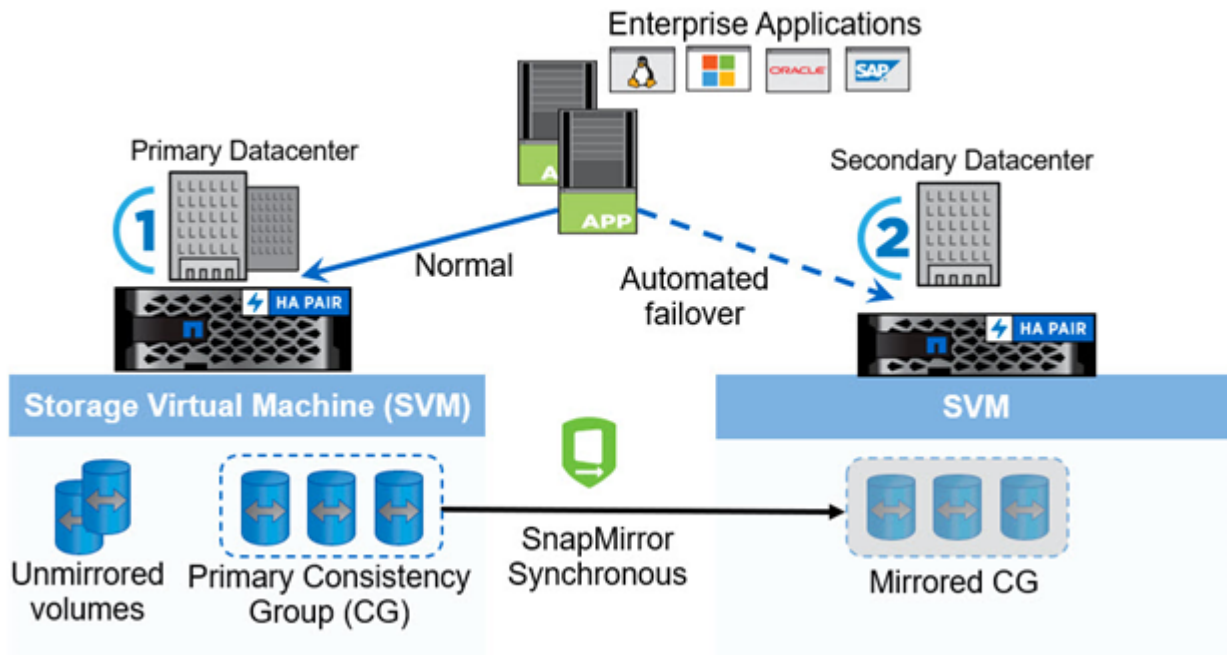
SnapMirror Business Continuity

SnapMirror Business Continuity overview

Starting in ONTAP 9.8, you can use System Manager to protect LUNs for transparent application failover, enabling applications to fail over automatically for business continuity when using two AFF clusters or two All SAN Array (ASA) clusters. Your clusters cannot be mixed; they must consist of two AFF clusters or two ASA clusters. Protection for business continuity supports iSCSI and FCP protocols.

The SnapMirror Business Continuity provides the following benefits:

- Automated failover of business-critical applications
- Simplified application management, using consistency groups for dependent write-order consistency
- The ability to test failover for each application
- Instantaneous creation of mirror clones without impacting application availability



Requirements

SnapMirror Business Continuity has the following requirements:

- 2-node HA cluster, only – both either AFF or ASA. No intermixing.

- A server or VM running RHEL 7.6 or 7.8 or CentOS 8.0 or 8.1 for installing ONTAP Mediator
- Data Protection or Premium bundle license

Support

SnapMirror Business Continuity provides support for the following:

- Synchronous replication
- SAN protocol – FCP or iSCSI
- Up to 5 consistency groups, each with up to 12 volumes
- A total of 80 concurrent synchronous relationships per HA pair, including consistency groups



Configure Mediator

Use System Manager to configure the Mediator server to be used for automated failover. You can also replace the self-signed SSL and CA with the third party

validated SSL Certificate and CA if you have not already done so.

Steps

1. Navigate to **Protection > Overview > Mediator > Configure**.
2. Click **Add**, and enter the following Mediator server information:
 - IPv4 address
 - Username
 - Password
 - Certificate

Configure protection for business continuity

Configuring protection for business continuity involves selecting LUNs on the ONTAP source cluster and adding them to a consistency group. Open System Manager from a browser on the source cluster to begin configuring protection for business continuity.

About this task

- LUNs must reside on the same storage VM.
- LUNs can reside on different volumes.
- The source and destination cluster cannot be the same.

Steps


1. Choose the LUNs you want to protect and add them to a protection group: **Protection > Overview > Protect for Business Continuity > Protect LUNs**.
2. Select one or more LUNs to protect on the source cluster.
3. Select the destination cluster and SVM.
4. **Initialize relationship** is selected by default. Click **Save** to begin protection.
5. Go to **Dashboard > Performance** to verify IOPS activity for the LUNs.
6. On the destination cluster, use System Manager to verify that the protection for business continuity relationship is in sync: **Protection > Relationships**.

Reestablish the original protection relationship after an unplanned failover

ONTAP uses the ONTAP Mediator to detect when a failure occurs on the primary

storage system and executes automatic unplanned failover to the secondary storage system. You can use ONTAP System Manager to reverse the relationship and reestablish the original protection relationship when original source cluster is back online.

Steps

1. Navigate to **Protection > Relationships** and wait for the relationship state to show “InSync.”
2. To resume operations on the original source cluster, click  and select **Failover**.

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