# **Basic** monitoring

ONTAP System Manager

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# **Basic monitoring**

There are several SM-BC components and operations you can monitor.

### **ONTAP** mediator

During normal operation, the Mediator state should be connected. If it is in any other state, this might indicate an error condition. You can review the Event Management System (EMS) messages to determine the error and appropriate corrective actions.

EMS Name	Description
sm.mediator.added	Mediator is added successfully
sm.mediator.removed	Mediator is removed successfully
sm.mediator.unusable	Mediator is unusable due to a corrupted Mediator server
sm.mediator.misconfigured	Mediator is repurposed or the Mediator package is no longer installed on the Mediator server
sm.mediator.unreachable	Mediator is unreachable
sm.mediator.removed.force	Mediator is removed from the cluster using the "force" option
sm.mediator.cacert.expiring	Mediator certificate authority (CA) certificate is due to expire in 30 days or less
sm.mediator.serverc.expiring	Mediator server certificate is due to expire in 30 days or less
sm.mediator.clientc.expiring	Mediator client certificate is due to expire in 30 days or less
sm.mediator.cacert.expired	Mediator certificate authority (CA) certificate has expired
sm.mediator.serverc.expired	Mediator server certificate has expired
sm.mediator.clientc.expired	Mediator client certificate has expired
sm.mediator.in.quorum	All the SM-BC records are resynchronized with Mediator

# Planned failover operations

You can monitor status and progress of a planned failover operation using the snapmirror failover show command. For example:

```
ClusterB::> snapmirror failover start -destination-path vs1:/cg/dcg1
```

Once the failover operation is complete, you can monitor the Synchronous SnapMirror protection status from the new destination cluster. For example:

```
ClusterA::> snapmirror show
```

You can also review the following messages to determine if there is an error and take the appropriate corrective actions.

EMS Name	Description
smbc.pfo.failed	SMBC planned failover operation failed. Destination path:
smbc.pfo.start. Destination path:	SMBC planned failover operation started

## Automatic unplanned failover operations

During an unplanned automatic failover, you can monitor the status of the operation using the snapmirror failover show command. For example:

You can also review the following messages to determine if there is an error and take the appropriate corrective actions.

EMS Name	Description
smbc.aufo.failed	SnapMirror automatic planned failover operation failed. Destination path:
smbc.aufo.start. Destination path:	SMBC planned failover operation started

EMS Name	Description
smbc.aufo.completed:	SnapMirror automatic planned failover operation completed. Destination path:
smbc.aufo.failover.incapable	block.giveback.during.aufo

### **SM-BC** availability

You can check the availability of the SM-BC relationship using a series of commands, either on the primary cluster, the secondary cluster, or both.

Commands you use include the snapmirror mediator show command on both the primary and secondary cluster to check the connection and quorum status, the snapmirror show command, and the volume show command. For example:

```
SMBC A::*> snapmirror mediator show
Mediator Address Peer Cluster Connection Status Quorum Status
____________
10.236.172.86 SMBC_B
                      connected
                                    true
SMBC_B::*> snapmirror mediator show
Mediator Address Peer Cluster Connection Status Quorum Status
___________
10.236.172.86 SMBC_A
                   connected
                                   true
SMBC_B::*> snapmirror show -expand
                                                    Progress
Source
             Destination Mirror Relationship Total
                                                    Last
Path Type Path State Status Progress Healthy Updated
         .... ......
vs0:/cg/cg1 XDP vs1:/cg/cg1_dp Snapmirrored InSync -
                                              true
vs0:vol1 XDP vs1:vol1_dp Snapmirrored InSync -
                                              true
2 entries were displayed.
SMBC_A::*> volume show -fields is-smbc-master,smbc-consensus,is-smbc-failover-capable
-volume vol1
vserver volume is-smbc-master is-smbc-failover-capable smbc-consensus
vol1 true
                     false
                                        Consensus
SMBC_B::*> volume show -fields is-smbc-master,smbc-consensus,is-smbc-failover-capable
vserver volume is-smbc-master is-smbc-failover-capable smbc-consensus
vs1 vol1_dp false true
                                         No-consensus
```

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