# **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 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
```

### 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:

## **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
               Destination Mirror Relationship Total
Source
                                                              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
______
vs0 vol1 true false
                                                Consensus
SMBC_B::*> volume show -fields is-smbc-master,smbc-consensus,is-smbc-failover-capable
-volume vol1_dp
vserver volume is-smbc-master is-smbc-failover-capable smbc-consensus
vs1 vol1_dp false
                      true
                                                 No-consensus
```

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