mcc events

ONTAP 9.14.1 EMS reference

NetApp
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mcc.auso.trigFailed

Severity

EMERGENCY

Description

This message occurs when a trigger for automatic unplanned switchover fails to issue the operation.

Corrective Action

Verify the health of each node and that automatic unplanned switchover is enabled on both by using the "metrocluster node show" command. Use the "metrocluster switchover -forced-on-disaster true" command to switch over the DR-site storage manually.

Syslog Message

A trigger for Automatic Unplanned Switchover failed to issue the operation. Reason: %s.

Parameters

probableCauseDescription (STRING): Further description of the probable cause.
alertId (STRING): Identifier for this condition.
alertingResource (STRING): Unique name of the resource responsible for this condition.
alertingResourceName (STRING): Name of the resource responsible for this condition.
possibleEffect (STRING): Possible effect of the failure.
probableCause (STRING): Probable cause of the failure.
additionalInfo (STRING): Additional information about this failure.

mcc.auso.triggered

Severity

NOTICE

Description

This message occurs when the node triggers an automatic unplanned switchover on detection of a failure of the DR partner node.

Corrective Action

(None).

Syslog Message

The node has triggered an Automatic Unplanned Switchover of the DR partner. Reason: %s. If Automatic Unplanned Switchover was triggered because of heartbeat loss, any ongoing dump on the partner may be aborted.

Parameters

cause (STRING): Cause for triggering automatic unplanned switchover.

mcc.check events

mcc.check.failed

Severity
ERROR

Description
This message occurs when the MetroCluster (tm) check job has failed to complete all checks for the system.

Corrective Action
Run "metrocluster operation history show" command to check the reason for this failure. Make sure that all nodes in each of the clusters are healthy, and both clusters are in normal mode using the "metrocluster node show" and "metrocluster show" commands. Then retry the operation using the command "metrocluster check run". If the problem persists, contact NetApp technical support.

Syslog Message
The MetroCluster (tm) check job has failed to complete all checks for the system in cluster %s.

Parameters
Cluster (STRING): Cluster where the check was running.

mcc.config events

mcc.config.assignConfigFail

Severity
ERROR

Description
This message occurs when the MetroCluster(tm) local node configuration assignment to persistent storage failed.

Corrective Action
Contact NetApp technical support for assistance.

Syslog Message
(None).

Parameters
error (STRING): Description of assign config error.
nodeID (STRING): Node UUID.
dbladeID (STRING): Dblade UUID.

mcc.config.auso.enableIgnore

Severity
ALERT

Description

This message occurs when an attempt to enable automatic unplanned switchover fails because the capability has been manually disabled by the user or disabled because of a failed switchover or switchback operation.

Corrective Action

If you want to keep automatic switchover enabled, enable it using the advanced mode command "metrocluster modify -automatic-switchover-onfailure true".

Syslog Message

Failed to enable Automatic Unplanned Switchover because the capability has been manually disabled by the user or disabled because of a failed Switchover or Switchback operation.

Parameters

(None).

mcc.config.auso.stDisabled

Severity

ERROR

Description

This message occurs when automatic unplanned switchover capability is disabled.

Corrective Action

Run the "metrocluster modify -node-name <nodename> -automatic-switchover-onfailure true" command for each node in the cluster to enable automatic switchover.

Syslog Message

The state of Automatic Unplanned Switchover capability has been disabled.

Parameters

alertId (STRING): Identifier for this condition.
alertingResource (STRING): Unique name of the resource responsible for this condition.
alertingResourceName (STRING): Display name of the resource responsible for this condition.
possibleEffect (STRING): Possible effect of the event.
probableCause (STRING): Probable cause of the event.
probableCauseDescription (STRING): Further description of the probable cause.
additionalInfo (STRING): Additional information about this event.

mcc.config.auso.stEnabled

Severity

NOTICE

Description

This message occurs when automatic unplanned switchover capability is enabled.

Corrective Action

(None).

Syslog Message

The state of Automatic Unplanned Switchover capability has been enabled.

Parameters

alertId (STRING): Identifier for this condition.
alertingResource (STRING): Unique name of the resource responsible for this condition.

mcc.config.bootConfigNotRead

Severity

ALERT

Description

This message occurs when the MetroCluster(tm) configuration cannot be read from persistent storage. This could be because the partner has active reservations on the disk, the root aggregate is not assimilated, or the configuration has not been performed on the system yet. The system will try to retrieve or set the configuration try to retrieve or set the configuration automatically later during boot.

Corrective Action

If the problem persists, contact NetApp technical support for assistance in resolving this issue.

Syslog Message

Configuration could not be read from persistent storage due to internal error %s. The system will try to retrieve or set the configuration automatically later, during boot.

Parameters

error (STRING): Actual error that caused configuration read to fail.

mcc.config.checkPartnerError

Severity

ERROR

Description

This message occurs when an error is found during a MetroCluster(tm) configuration check. The checks include partner operational status and valid disaster recovery (DR) group configurations.

Corrective Action

Make sure that all of the nodes are online and healthy by running the "cluster show" command and verifying that the "Health" and "Eligibility" fields displayed as true. Check the switch and controller configuration and make sure that all of the controllers in the DR group and HA/DR Interconnect ports are properly connected for DR group communication.

Syslog Message

(None).

Parameters

partner_names (STRING): List of disaster recovery partner names.
error (STRING): Description of the error that occurred.

mcc.config.disableDrMirror

Severity

INFORMATIONAL

Description

This message occurs when NVlog mirroring to the disaster recovery(DR) partners gets disabled persistently in a MetroCluster(tm) configuration.

Corrective Action

(None).

Syslog Message

(None).

Parameters

reason (STRING): Reason the disaster recovery (DR) NVlog mirroring is disabled persistently.

mcc.config.disableMirrorMem

Severity

INFORMATIONAL

Description

This message occurs when NVlog mirroring to the disaster recovery(DR) partners gets disabled in a MetroCluster(tm) configuration.

Corrective Action

(None).

Syslog Message

(None).

Parameters

reason (STRING): Reason the DR NVlog mirroring is disabled in memory.

mcc.config.drPartner.mbxFail

Severity

ALERT

Description

This message occurs when a node in a 2-node MetroCluster(tm) configuration fails to access it's DR partner's mailbox. This may impact automatic unplanned switchover.

Corrective Action

(None).

Syslog Message

Read of DR partner's mailbox failed with error (%d).

Parameters

err (INT): Error returned from mailbox access.

mcc.config.drPartner.mbxRead

Severity

INFORMATIONAL

Description

This message occurs when a node in 2-node MetroCluster(tm) configuration is successfully able to access it's DR partner's mailbox.

Corrective Action

(None).

Syslog Message

Read of DR partner's mailbox successful.

Parameters

(None).

mcc.config.enableDrMirror

Severity

INFORMATIONAL

Description

This message occurs when NVlog mirroring to the disaster recovery(DR) partners gets persistently enabled in a MetroCluster(tm) configuration.

Corrective Action

(None).

Syslog Message

(None).

Parameters

(None).

mcc.config.enableMirrorMem

Severity

INFORMATIONAL

Description

This message occurs when NVlog mirroring to the disaster recovery(DR) partners gets enabled in a MetroCluster(tm) configuration.

Corrective Action

(None).

Syslog Message

(None).

Parameters

(None).

mcc.config.headswapComplete

Severity

NOTICE

Description

This message occurs when headswap update completes successfully on a node.

Corrective Action

(None).

Syslog Message

(None).

Parameters

(None).

mcc.config.headswapMsgSent

Severity

NOTICE

Description

This message occurs when a headswap HA message is successfully sent to a partner node.

Corrective Action

(None).

Syslog Message

(None).

Parameters

role (INT): Role of the node.

mcc.config.headswapNoNotify

Severity

ERROR

Description

This message occurs when the MetroCluster(tm) node cannot communicate with one or more of its partners after a headswap. In a MetroCluster configuration, partners need to be informed of the old and new system ID of the local node through an HA message, so that they use the correct partner system ID during disaster recovery(DR) operations. Data ONTAP® takes appropriate recovery actions.

Corrective Action

Other than making sure that all of the partners are online, there is no explicit user intervention required; the node automatically retries the operation at regularly scheduled intervals (every 30 seconds).

Syslog Message

Local node system ID changed from %d to %d. Local node could not inform its HA or DR partner node of this change due to error %s.

Parameters

old_system_id (INT): Old system ID of the node.
new_system_id (INT): New system ID of the node.
error (STRING): Internal error description identifying the reason for the failure.

mcc.config.headswapPartnerEr

Severity

ERROR

Description

This message occurs when the partner returns a failure during a MetroCluster(tm) headswap configuration update. This can be due to configuration mismatches on the remote partner, disk ownership reassignment failure, or persistent storage write failure.

Corrective Action

This could potentially be because the partner that failed was not fully functional or was operating in a degraded state. Make sure that the partner is online by issuing the "metrocluster show" and the "metrocluster node show" command. The partner configuration update will be retried at regular intervals automatically. In case of other configuration mismatch failure, check the relevant subsystem cited in the error and run the "disk show" command to examine the disk state. If the problem persists, contact NetApp technical support.

Syslog Message

Partner %s failed to update configuration due to error %s.

Parameters

partner (STRING): Name of the partner node.
error (STRING): Error description returned by the partner.

mcc.config.headswapRevert

Severity

NOTICE

Description

This message occurs when the receiver of a headswap HA message detects that the old head was brought back in before headswap processing completed. The receiver will undo any nvram id update it had processed earlier.

Corrective Action

(None).

Syslog Message

(None).

Parameters

old_sys_id (INT): Old system id received from the HA message
new_sys_id (INT): New system id received from the HA message

mcc.config.locHeadswapDetect

Severity

NOTICE

Description

This message occurs when a headswap is detected on the local node.

Corrective Action

(None).

Syslog Message

(None).

Parameters

old_system_id (INT): Old system ID of the node.
new_system_id (INT): New system ID of the node.

mcc.config.restoreFailure

Severity

NOTICE

Description

Error returned while recovering the Configuration.

Corrective Action

(None).

Syslog Message

MetroCluster configuration was not restored from persistent source because of reason :%d.

Parameters

err (INT): Error returned while recovering the mailbox.

mcc.config.restoreSuccessful

Severity

INFORMATIONAL

Description

This message occurs when the MetroCluster(tm) configuration is successfully restored from an alternate persistent configuration source.

Corrective Action

(None).

Syslog Message

MetroCluster configuration was successfully restored from persistent source %s.

Parameters

source (STRING): Source from which the MetroCluster configuration was retrieved.

mcc.config.selfNodeInvalid

Severity

ERROR

Description

This message occurs when the local node UUID and the node UUID returned by the Connectivity, Liveness, Availability Monitor (CLAM) do not match. This is a configuration error and can result in failures during disaster recovery operations.

Corrective Action

Contact NetApp technical support for assistance.

Syslog Message

Configuration error: Local node UUID and the node UUID reported by CLAM do not match.

Parameters

local_node_uuid (STRING): Local node UUID.
clam_node_uuid (STRING): Node UUID returned by the CLAM.

mcc.config.sysidNoNotify

Severity

ERROR

Description

This message occurs when the local node is unable to notify its HA or DR partners of its system ID after a reboot.

Corrective Action

Verify that the HA or DR partner node is healthy and can be reached over the intercluster network.

Syslog Message

The node could not notify its nvram system id to partner %s. Error: %s.

Parameters

partner (STRING): Name of the partner node.
error (STRING): Error description.

mcc.config.teardown

Severity

INFORMATIONAL

Description

This message is generated whenever CTRL connections to MetroCluster(tm) partners are torn down.

Corrective Action

(None).

Syslog Message

(None).

Parameters

reason (STRING): Reason for tearing down the CTRL connections.

mcc.config.update.role

Severity

INFORMATIONAL

Description

This message is generated whenever the roles of CTRL connections to MetroCluster(tm) partners are updated.

Corrective Action

(None).

Syslog Message

(None).

Parameters

reason (STRING): Reason for updating the role of the CTRL connections.

mcc.config.vso.disabled

Severity

NOTICE

Description

This message occurs when the "vserver configuration override" command is disabled for MetroCluster over IP after controller replacement operations are completed.

Corrective Action

(None).

Syslog Message

MetroCluster over IP Vserver configuration override is disabled.

Parameters

(None).

mcc.config.vso.enabled

Severity

NOTICE

Description

This message occurs when the "vserver configuration override" command is enabled for MetroCluster over IP controller replacement operations.

Corrective Action

(None).

Syslog Message

MetroCluster over IP Vserver configuration override is enabled.

Parameters

(None).

mcc.ctlbe events

mcc.ctlbe.IODelayed

Severity

INFORMATIONAL

Description

SCSI IO for RSM is delayed significantly in the iSCSI stack.

Corrective Action

(None).

Syslog Message

(None).

Parameters

devSerial (STRING): Device Serial Number
lunId (INT): The LUN ID.
cdb (STRING): A string containing the opcode byte of the CDB.
delay (LONGINT): The delay in milliseconds experienced by this IO in the software iSCSI stack.

mcc.ctlbe.IOResponseDelayed

Severity

INFORMATIONAL

Description

SCSI IO for RSM is delayed significantly in the storage stack.

Corrective Action

(None).

Syslog Message

(None).

Parameters

devSerial (STRING): Device Serial Number
lunId (INT): The LUN ID.
cdb (STRING): A string containing the opcode byte of the CDB.
delay (LONGINT): The delay in milliseconds experienced by this IO in the D-blade storage stack.

mcc.drdom events

mcc.drdom.diskOwnerChange

Severity

INFORMATIONAL

Description

This message occurs when disk ownership changes are made by the disaster recovery disk ownership manager (DRDOM).

Corrective Action

(None).

Syslog Message

(%d) disks belonging to DR partner (%ld) underwent ownership change due to (%s).

Parameters

disk_count (INT): Number of disks that underwent ownership change.
dr_partner_system_id (LONGINT): System ID of the DR partner whose disks underwent ownership change.
reason (STRING): Reason for the disk ownership change.

mcc.drdom.diskReserveFail

Severity

ERROR

Description

This message occurs when one or more disks fails a disk reservation request from the disaster recovery disk ownership manager (DRDOM).

Corrective Action

Make sure that none of the available DR partner disks are not in a failed or inconsistent state. Contact NetApp technical support if failed or misbehaving disks cannot be identified.

Syslog Message

%d/%d DR disks failed disk reservation request from DRDOM, %d local disks.

Parameters

error_count (INT): Number of disks that failed disk reservation.
disk_num (INT): Number of disks that have DR ownership.

local_disks (INT): Number of disks that have local ownership.

mcc.drdom.disksAssignFail

Severity

ERROR

Description

This message occurs when the disaster recovery disk ownership manager (DRDOM) fails to assign the ownership of one or more disks in the disk list enrolled in this operation to be reassigned.

Corrective Action

Contact NetApp technical support for assistance.

Syslog Message

DRDOM failed to assign the ownership of one or more disks in the disk list involved in disk ownership reassign request message during %s.

Parameters

operation (STRING): The MetroCluster(tm) DR operation that issued the "assign disks" request.
disks_in_request (INT): Total number of disks for which the disk ownership change is requested.
disks_failed_request (INT): Total number of disks for which the disk ownership change request failed.
error_code (INT): Internal error code for the failure.

mcc.drdom.hsAssignFail

Severity

ERROR

Description

This message occurs when the node fails to change disk ownership for disaster recovery (DR) partner disks after a headswap. This can occur if the node is in switchover or it has disks that are left behind from previous DR operations.

Corrective Action

Make sure that the DR partner disks with current-owner as local node are online and not in failed state or inconsistent state. Contact NetApp technical support if the failed or misbehaving disks cannot be identified.

Syslog Message

Node failed to change disk ownership for DR partner disks after a headswap.

Parameters

disks_in_request (INT): Total number of disks for which the disk ownership change is requested.
disks_failed_request (INT): Total number of disks for which the disk ownership change request failed.
error_code (INT): Internal error code for the failure.

mcc.drgroup events

mcc.drgroup.fetch.failed

Severity

INFORMATIONAL

Description

This message occurs when MCC DR group information cannot be retrieved from RDB tables.

Corrective Action

(None).

Syslog Message

Unable to fetch DR-group information from RDB, error: %s.

Parameters

reason (STRING): Reason why RDB operation failed to fetch DR-group information.

mcc.drmsg events

mcc.drmsg.received

Severity

INFORMATIONAL

Description

This message occurs when a DR message is successfully received from a DR partner node.

Corrective Action

(None).

Syslog Message

(None).

Parameters

version (INT): Version of the DR message.
type (STRING): Type of message sent.
request (STRING): Type of request being sent.
seq_num (LONGINT): Sequence number of the message.
recv_sysid (LONGINT): System ID of receiving Node
sysid (LONGINT): System ID of sending node.
recv_time (LONGINT): Time when message was sent.
send_time (LONGINT): Time when message was sent.
status (STRING): Status of the DR message.
fsm_state (STRING): FSM state of the responding node.
sb_reason (STRING): SB reason if any specified.
dr_op_state (INT): DR operation state of the responding node.
ha_fw_state (STRING): HA firmware state of the responding node.

mcc.drmsg.sent

Severity

INFORMATIONAL

Description

This message occurs when a DR message is successfully sent to a partner node.

Corrective Action

(None).

Syslog Message

(None).

Parameters

version (INT): Version of the DR message.
type (STRING): Type of message sent.
request (STRING): Type of request being sent.
seq_num (LONGINT): Sequence number of the message.
sysid (LONGINT): System ID of sending Node.
send_time (LONGINT): Time when message was sent.

mcc.drsom events

mcc.drsom.disk.filter.fail

Severity

INFORMATIONAL

Description

This message occurs when it cannot be determined whether a disk belongs to a root aggregate.

Corrective Action

(None).

Syslog Message

(None).

Parameters

disk (STRING): Name of the disk.
op (STRING): Operation during which this check failed.
status (INT): Status of the check that failed.

mcc.drsom.disk.skipped

Severity

INFORMATIONAL

Description

This message occurs when disaster recovery switchover manager determines that a disk needs to be skipped from an assign request.

Corrective Action

(None).

Syslog Message

(None).

Parameters

disk (STRING): Name of the disk.
op (STRING): Operation during which this check failed.
reason (STRING): Reason why the disk was skipped.

mcc.drsom.fsm.execute

Severity

INFORMATIONAL

Description

This message occurs when the disaster recovery Switchover Monitor(DRSOM) FSM (Finite State Machine) starts processing an event.

Corrective Action

(None).

Syslog Message

DRSOM FSM state is (%s) and it will process the event (%s). Whether this event will be processed for the DR auxiliary partner: (%s)

Parameters

fsm_state (STRING): Current state of the DRSOM FSM.
fsm_event (STRING): Event to be processed by the DRSOM FSM.
DR_aux (STRING): Indication of whether the event will be processed for the DR auxiliary partner.

mcc.drsom.fsm.invalid.state

Severity

ALERT

Description

This message occurs when the disaster recovery (DR) Switchover Monitor (DRSOM) FSM (Finite State Machine) reaches an invalid state.

Corrective Action

If this problem is seen persistently, contact NetApp technical support for assistance in resolving this issue.

Syslog Message

MCC DRSOM FSM state saw an invalid transition from %s to %s.

Parameters

prev_st (STRING): Previous DRSOM FSM state.
st (STRING): Current DRSOM FSM state.

mcc.drsom.fsm.invalidState

Severity

ERROR

Description

This message occurs when an unexpected disaster recovery Switchover Monitor(DRSOM) FSM (Finite State Machine) event is generated.

Corrective Action

This can happen in cases where a new DR operation was issued before the previous one could finish and it might require a forced-recovery operation. Contact NetApp technical support for assistance in resolving this issue.

Syslog Message

DRSOM FSM event (%s) generated in state (%s) will cause an invalid FSM state transition.

Parameters

fsm_event (STRING): DRSOM FSM event.
fsm_state (STRING): DRSOM FSM state in which the event is generated.

mcc.drsom.fsm.sb.rec.pending

Severity

ALERT

Description

This message occurs when the disaster recovery switchover monitor (DRSOM) transitions to a switchback recovery pending state.

Corrective Action

If this node is booting up for the first time after a disaster, no action is required. If not, please check the states of all the nodes and contact NetApp technical support if they are incorrect.

Syslog Message

This node has entered the Switchback Recovery Pending State.

Parameters

(None).

mcc.drsom.fsmState.EarlySb

Severity

INFORMATIONAL

Description

This message occurs when the disaster recovery switchover monitor (DRSOM) recovers from unexpected error conditions by transitioning to perform an early switchback. An early switchback is performed in the following three cases: a node panics while processing a switchover; a node panics or reboots while retrying a switchover operation; or a node either encounters a subsystem failure, panics, or reboots while aborting a switchover operation. The switchover was reverted and the DRSOM state on all nodes is 'normal'.

Corrective Action

(None).

Syslog Message

(None).

Parameters

(None).

mcc.drsom.mbxRecovery

Severity

INFORMATIONAL

Description

This message occurs when the disaster recover Switchover Monitor(DRSOM) FSM (Finite State Machine) state stored persistently in the mailbox is inconsistent with the DRC (DR Coordinator) and has been recovered.

Corrective Action

(None).

Syslog Message

DRSOM FSM state stored in the mailbox is inconsistent with the DRC. It has been recovered and intialized to %s.

Parameters

next_fsm_state (STRING): State to which the DRSOM FSM will be initialized.

mcc.drsom.process.op.fail

Severity

ALERT

Description

This message occurs when the disaster recovery (DR) Switchover Monitor (DRSOM) cannot perform the DR operation.

Corrective Action

If this problem is seen persistently, contact NetApp technical support for assistance in resolving this issue.

Syslog Message

MCC state machine received invalid operation %s while it was in state %s.

Parameters

op (STRING): DR operation issued.
st (STRING): Current FSM (Finite State Machine) state.

mcc.drsom.sbRecSt.change

Severity

INFORMATIONAL

Description

This message occurs when there is a change in the disaster recovery Switchover Monitor(DRSOM) switchback recovery state.

Corrective Action

(None).

Syslog Message

Switchback recovery state changed from (%d) to (%d) due to (%s).

Parameters

old_state (INT): Previous switchback recovery state.
new_state (INT): New switchback recovery state.
reason (STRING): Reason for change of state.

mcc.drsom.sstbl.configErr

Severity

ERROR

Description

This message occurs during switchback processing, when the disaster recovery(DR) partner cannot be contacted to confirm that it is in a valid MetroCluster(tm) configuration state.

Corrective Action

Make sure that the DR partner is online and accessible by this node.

Syslog Message

(None).

Parameters

partner (STRING): Name of the failed partner.

mcc.drsom.sstbl.sanownCompEr

Severity

ERROR

Description

This message occurs during switchback processing, when the disaster recover(DR) partner cannot be contacted to enable or suspend a sanown completion event.

Corrective Action

Make sure that the DR partner is online and accessible by this node.

Syslog Message

(None).

Parameters

    operation (STRING): Disable or enable completion event.
    partner (STRING): Name of the failed partner.

mcc.drsom.sstblRunFailure

Severity

    ERROR

Description

    This message occurs when a particular subsystem cannot proceed with the disaster recovery (DR) operation.

Corrective Action

    Refer to the subsystem-specific error that would have been logged before this message.

Syslog Message

    (None).

Parameters

    dr_operation (STRING): DR operation.
    sub_system (STRING): Name of the subsystem that encountered the failure.

mcc.drsom.watch.conflict

Severity

    INFORMATIONAL

Description

    This message shows drsom watchdog information on conflicting operations

Corrective Action

    (None).

Syslog Message

    (None).

Parameters

    enabled (INT): Current state of watchdog.
    extended (INT): Current extended state of watchdog.
    last_update_time (LONGINT): Last update time.
    current_time (LONGINT): Current time.
    last_update_count (LONGINT): Last update count.
    last_thread (LONGINT): ID of last thread to update.
    last_thread_info (STRING): Text describing last udpate.
    curr_thread_info (STRING): Text describing current update.

mcc.fabricpool events

mcc.fabricpool.license.absent

Severity

ERROR

Description

This message occurs when a FabricPool license exists on only one of the two sites of a MetroCluster(tm) configuration.

Corrective Action

Install a FabricPool license on the cluster that is missing the license.

Syslog Message

The FabricPool license is installed on only one site of this MetroCluster configuration. The license is missing on cluster %s (ID: %s).

Parameters

cluster_name (STRING): Name of the cluster which is missing the license.
cluster_uuid (STRING): UUID of the cluster.

mcc.fabricpool.license.diff

Severity

ERROR

Description

This message occurs when the FabricPool license capacity or term limits are different for the two sites of a MetroCluster(tm) configuration.

Corrective Action

Install a new license on one of the clusters so that the license limits match.

Syslog Message

The FabricPool license limits are different for the two sites of this MetroCluster configuration. The license limits are %s and %s on site %s and %s and %s on site %s.

Parameters

local_license_limit (STRING): License capacity limit from the local cluster.
local_term_limit (STRING): License term limit from the local cluster.
local_cluster_name (STRING): Name of the local cluster.
remote_license_limit (STRING): License capacity limit from the remote cluster.
remote_term_limit (STRING): License term limit from the remote cluster.
remote_cluster_name (STRING): Name of the remote cluster.

mcc.fabricpool.mirror.missing

Severity

ALERT

Description

This message occurs when a FabricPool in a MetroCluster configuration does not have a mirror object store attached.

Corrective Action

Use the "storage aggregate object-store mirror" command to add a mirror object store to the FabricPool.

Syslog Message

FabricPool: "%s" UUID: "%s" in a MetroCluster configuration does not have synchronous data protection enabled because the mirror object store is missing.

Parameters

aggr (STRING): Name of the FabricPool.
UUID (STRING): UUID of the FabricPool.

mcc.forced events

mcc.forced.auso.issued

Severity

NOTICE

Description

This message occurs when the node triggers a forced automatic unplanned switchover because the "allow-auto-forced-switchover" option is true.

Corrective Action

(None).

Syslog Message

The node has triggered a forced automatic unplanned switchover of the DR partner. Reason: "%s".

Parameters

reason (STRING): Reason for triggering a forced automatic unplanned switchover with "allow-auto-forced-switchover" option.

mcc.hwassist events

mcc.hwassist.trap.AUSO

Severity

NOTICE

Description

This message occurs when a HW assist trap is received from the Service Processor of the DR-partner and is used to trigger an Automatic SwitchOver.

Corrective Action

(None).

Syslog Message

HW assist trap of type=%s, severity=%s received for event=%s from sysid=%s.

Parameters

type (STRING): Type of event, such as system_down.
severity (STRING): Severity of the event, such as alert.
event (STRING): Specific event, such as power_loss.
sysid (STRING): System-id of the node generating the event.

mcc.ic events

mcc.ic.process.node.adv

Severity

INFORMATIONAL

Description

This message occurs when the MetroCluster(tm) config module receives a node advertisement from any of its partners.

Corrective Action

(None).

Syslog Message

(None).

Parameters

sys_id (LONGINT): System id of the node sending the advertisements.
is_local_node_assigned (INT): Boolean specifying whether the local node has joined the cluster.
is_partner_assigned (INT): Boolean specifying whether the node sending advertisements has joined the cluster.

mcc.ipspace events

mcc.ipspace.not.found

Severity

ERROR

Description

This message occurs when the IPspace is not found in a MetroCluster(tm) configuration while replicating the object store configuration. Until this is resolved, some MetroCluster and FabricPool operations will fail.

Corrective Action

Create the missing MetroCluster IPspace. The configuration replication task will be completed automatically.

Syslog Message

Object store "%s" configuration replication failed because IPspace "%s" was not found in cluster "%s".

Parameters

object_store_name (STRING): Name of the object store.
ipspace_name (STRING): Name of the IPspace.

cluster_name (STRING): Name of the cluster.

mcc.kill events

mcc.kill.received

Severity

INFORMATIONAL

Description

This message occurs when the node is halting because it received a "kill" message from the disaster recovery (DR) partner.

Corrective Action

(None).

Syslog Message

Node is halting because a kill message with reason %s has been received from the DR partner with system ID %ld.

Parameters

reason (STRING): Reason for halting the node.
sender_sysid (LONGINT): System ID of the sender.

mcc.lunmgr events

mcc.lunmgr.lunid_alloc_failure

Severity

ERROR

Description

This message occurs when failing to allocate a CTL Target LUN ID to a target disk

Corrective Action

This indicates an internal error during the discovery of Target LUN devices.

Syslog Message

Device S/N %s - Failed to allocate a LUN ID

Parameters

device_serial_number (STRING): Device serial number

mcc.network events

mcc.network.congestion

Severity

NOTICE

Description

This message occurs when a MetroCluster over IP configuration detects network congestion over the inter-cluster links (ISL) that connect sites and an action is taken to reduce further network congestion.

Corrective Action

Verify that network between MetroCluster sites is following minimum SLA requirements and fix any such violations if needed. If the issue persists, contact NetApp technical support.

Syslog Message

Network congestion detected. Action taken: %s.

Parameters

action_taken (STRING): Action taken to reduce network congestion.

mcc.notify events

mcc.notify.auto_heal_queue_failure

Severity

ERROR

Description

Failed to queue the "MetroCluster Auto Heal" job

Corrective Action

Manually complete the healing phase using the command "metrocluster heal aggregates" and "metrocluster heal root-aggregates"

Syslog Message

(None).

Parameters

retries_attempted (INT): Number of retries attempted

mcc.nso events

mcc.nso.abort.dump

Severity

NOTICE

Description

This message occurs when dump/restore is aborted during a MetroCluster switch-over operation.

Corrective Action

(None).

Syslog Message

Dump/restore operations were aborted because %s is in progress.

Parameters

nso (STRING): Describes whether a MetroCluster switch-over operation is progress.

mcc.nso.veto.repl

Severity

NOTICE

Description

This message occurs when an MetroCluster(tm) switch-over is vetoed by a critical replication transfer (for example, volume move in the cutover phase).

Corrective Action

Either abort the replication transfer that is preventing the MetroCluster switch-over from being completed, retry the MetroCluster switch-over operation with the '-override-vetoes true' option, or wait for the transfer to finish.

Syslog Message

Could not complete switch-over because a replication transfer with UUID %s is in progress.

Parameters

transferId (STRING): UUID of the SnapMirror® replication transfer that vetoed MetroCluster switch-over.

mcc.nvmeof events

mcc.nvmeof.port.modify

Severity

NOTICE

Description

This message occurs when the mode of an NVMe-oF port is changed.

Corrective Action

(None).

Syslog Message

Changing NVMe-oF port %s to %s mode.

Parameters

port (STRING): Name of port being configured.
mode (STRING): Mode in which to configure port: network or storage.

mcc.nvmeof.rdma.disconnect.event

Deprecated

Deprecated as of version 9.13.1.

Severity

NOTICE

Description

This message occurs when the NVMe-oF driver detects an RDMA disconnect. There might be a decrease in performance while reconnecting.

Corrective Action

(None).

Syslog Message

NVMe-oF RDMA disconnect on subnqn %s, controller ID %d, qpair ID %d.

Parameters

subnqn (STRING): Subsystem NVMe qualified name.
ctrlr_id (INT): Controller ID.
qpair (INT): Qpair ID.

mcc.nvmeof.rdma.disconnect.status

Deprecated

Deprecated as of version 9.13.1.

Severity

NOTICE

Description

This message occurs when the NVMeoF driver detects a command that finishes with a disconnect status. There might be a decrease in performance while reconnecting.

Corrective Action

(None).

Syslog Message

NVMe-oF disconnect on subnqn %s, controller ID %d, qpair ID %d.

Parameters

subnqn (STRING): Subsystem NVMe qualified name.
ctrlr_id (INT): Controller ID.
qpair (INT): Qpair ID.

mcc.nvmeof.subsystem.add

Severity

NOTICE

Description

This message occurs when an NVMe-oF subsystem is added.

Corrective Action

(None).

Syslog Message

NVMe-oF subsystem added at address %s.

Parameters

address (STRING): IP address of susbsystem.

mcc.nvmeof.subsystem.delete

Severity

NOTICE

Description

This message occurs when an NVMe-oF subsystem is deleted.

Corrective Action

(None).

Syslog Message

NVMe-oF subsystem deleted at address %s.

Parameters

address (STRING): IP address of susbsystem.

mcc.nvmeof.timeout

Severity

NOTICE

Description

This message occurs when the NVMeoF driver detects a timeout on a request. There might be a decrease in performance while retrying.

Corrective Action

(None).

Syslog Message

Timeout on subnqn %s, controller ID %d, qpair ID %d, sequence number %d.

Parameters

subnqn (STRING): Subsytem NVMe qualified name.
ctrlr_id (INT): Controller ID.
qpair (INT): Qpair ID.
cid (INT): NVMe-oF CID.

mcc.sb events

mcc.sb.abort.dump

Severity

NOTICE

Description

This message occurs when dump/restore is aborted during a MetroCluster switchback operation.

Corrective Action

(None).

Syslog Message

Dump/restore operations were aborted because %s is in progress.

Parameters

sb (STRING): Describes whether a MetroCluster switchback operation is progress.

mcc.sb.veto.repl

Severity

NOTICE

Description

This message occurs when an MetroCluster(tm) switchback is vetoed by a critical replication transfer (for example, volume move in the cutover phase).

Corrective Action

Either abort the replication transfer that is preventing the MetroCluster switchback from being completed, retry the MetroCluster switchback operation with the '-override-vetoes true' option, or wait for the transfer to finish.

Syslog Message

Could not complete switchback because a replication transfer with UUID %s is in progress.

Parameters

transferId (STRING): UUID of the SnapMirror® replication transfer that vetoed the MetroCluster switchback.

mcc.sbca events

mcc.sbca.mdvNotAvailable

Severity

ERROR

Description

This message occurs when a MetroCluster (tm) system metadata volume that provides storage for the configuration replication services is not available.

Corrective Action

Contact technical support for assistance.

Syslog Message

A MetroCluster (tm) system metadata volume is not available in cluster %s.

Parameters

Cluster (STRING): Cluster attempting to use the volume.

mcc.scsipd events

mcc.scsipd.iScsiSessionReconnectDestroySim

Severity

NOTICE

Description

iSCSI session maintenance thread was signaled to reconnect and destroy SIM paths.

Corrective Action

(None).

Syslog Message

(None).

Parameters

watchdogIdx (INT): The watchdog thread index for the mcc_scsipd driver.
watchdogTimeLimit (INT): The time limit in seconds that the watchdog thread waits before signaling the iSCSI session maintenace thread.

mcc.so events

mcc.so.nodeObjectLmt.chkFail

Severity

ALERT

Description

This message occurs when a MetroCluster(tm) switchover operation cannot be performed on this node because it is in the takeover state and one of the nodes in its disaster recovery(DR) group has the "node-object-limit" MetroCluster configuration option set to off.

Corrective Action

Use the "storage failover giveback" command to take this node out of takeover state.

Syslog Message

Switchover operation cannot be performed on this node because it is in the takeover state and one of the nodes in its DR group has the "node-object-limit" MetroCluster configuration option set to off.

Parameters

(None).

mcc.switchover events

mcc.switchover.mdvInNvfailedState

Severity

ERROR

Description

This message occurs when a MetroCluster switchover operation finds a system metadata volume, used by config replication applications, in the nvfailed state.

Corrective Action

Verify the configuration.

Syslog Message

The 'in-nvfailed-state' was cleared on MetroCluster system metadata volume '%s'. The system will attempt to replicate all recent configuration updates (if any) to the local cluster. After the process completes, verify the configuration.

Parameters

Volume (STRING): Volume

mcc.toomany events

mcc.toomany.vols.per.aggr

Severity

ALERT

Description

This message occurs when a volume is added to an aggregate in which the recommended maximum number of volumes for an aggregate in a MetroCluster setup is exceeded. An excessive number of volumes in a MetroCluster aggregate can result in high failover times, which may disrupt data availability from the affected node.

Corrective Action

Re-distribute the volumes among the aggregates to comply with the volume limit per aggregate in a MetroCluster setup. The number of volumes in an aggregate can be found by using the "aggregate show -fields volcount" command. Volumes can be moved between aggregates by using the "volume move start -vserver <vserver_name> -volume <vol_name> -destination-aggregate <destination_aggregate>" command.

Syslog Message

MetroCluster protected aggregate %s has volume count %d, which exceeds the recommended maximum %d.

Parameters

aggregate (STRING): Name of the aggregate.
current_volume (INT): Current number of volumes on the aggregate.
volume_limit (INT): Recommended maximum number of volumes per aggregate.