repl events

ONTAP EMS reference

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repl events

repl.archival events

repl.archival.ts.failure

Severity

NOTICE

Description

This message occurs when archival tier scan fails for a cloud snapshot. The cloud snapshot will not be scanned for tiering.

Corrective Action

(None).

Syslog Message

Archival tier scan failure for cloud snapshot "%s" on endpoint %s of volume dsid %llu.

Parameters

snapshot_id (STRING): Snapshot UUID.
ep_uuid (STRING): Endpoint UUID.
volume_dsid (LONGINT): Volume dsid.

repl.autol2l events

repl.autol2l.unsupported.configuration

Severity

INFORMATIONAL

Description

This message occurs when the replication destination engine encounters an unsupported configuration during a transfer with storage efficiency.

Corrective Action

(None).

Syslog Message

Unsupported configuration for relationship '%s'.

Parameters

transferId (STRING): UUID of the SnapMirror transfer that has the unsupported configuration.

repl.cg events

repl.cg.item.limit.exceeded

Severity

ERROR

Description

This message occurs when the number of Consistency Group Items involved in a SnapMirror® Granular Sync relationship exceeds its limit in the system.

Corrective Action

Load balance the system to have fewer Consistency Group Items.

Syslog Message

The number of CG Items involved in a SnapMirror Granular Sync relationship exceeded.

Parameters

(None).

repl.cg.limit.exceeded

Severity

ERROR

Description

This message occurs when the number of Consistency Groups(CG) involved in a SnapMirror® Granular Sync relationship exceeds its limit in the system.

Corrective Action

Load balance the system to have fewer Consistency Groups.

Syslog Message

The number of CGs involved in a SnapMirror Granular Sync relationship exceeded.

Parameters

(None).

repl.checker events

repl.checker.block.missing

Severity

EMERGENCY

Description

This message occurs when a SnapMirror® check command detects a missing block on a SnapMirror® destination volume and the volume might be in an inconsistent state that should be fixed as soon as possible.

Corrective Action

Run WAFL check or wafliron as soon as possible to clear this inconsistency and rebuild from the source or resynchronize. If the block is found to be in a snapshot by running 'vol vbncheck' command, deleting the

snapshot should remove the inconsistency. Please contact NetApp technical support for more options.

Syslog Message

Snapmirror check on volume %s has detected a missing block at volume block number %llu. It is strongly recommended that you run WAFL check or wafliron to clear this inconsistency. Failure to do so might lead to node panic at any time.

Parameters

volname (STRING): Volume name
vvbn (LONGINT): Virtual volume block number of the missing block.

repl.ckpt events

repl.ckpt.update.generation

Severity

INFORMATIONAL

Description

This message occurs to record new checkpoint generations subsequent to the first. Transfer will update the current checkpoint if the new checkpoints are smaller.

Corrective Action

(None).

Syslog Message

Volume '%s%s%s' (DSID %llu) received a new checkpoint generation: %llu, current checkpoint generation: %llu.

Parameters

vol (STRING): Name of the volume.
app (STRING): Application UUID.
volident (STRING): Unique identifier for the volume.
volDsid (LONGINT): Data set identifier (DSID) of the volume.
newCkpt (LONGINT): New checkpoint generation received.
oldCkpt (LONGINT): Existing checkpoint generation.

repl.cloud events

repl.cloud.incons.buf

Severity

ERROR

Description

This message occurs when the replication engine encounters an inconsistent block in the cloud.

Corrective Action

Contact NetApp technical support.

Syslog Message

REPL cloud inconsistent: bad block in %s inode (fileid:%s rootcbn:%u) at fbn:%llu level:%u in volume %llu. Abort when corruption is encountered:%u.

Parameters

file_space (STRING): File space.
fileid (STRING): Identifying number for the suspect inode.
rootcbn (LONGINT): Snapshot inofile root.
fbn (LONGINT): File block number.
level (INT): Buffer level.
dsid (LONGINT): Dsid of the volume.
abort (INT): Abort when corrupt block is encountered.

repl.cloud.incons.gc

Severity

ERROR

Description

This message occurs when the replication engine encounters inconsistent map object in the cloud. This does not cause user data corruption but can result in few dangling objects.

Corrective Action

Contact NetApp technical support.

Syslog Message

REPL cloud inconsistent: Corrupted cloud data detected in cloud snapshot:%s, cloud snapshot UUID:%s, cloud object:%s.

Parameters

snapshot_name (STRING): Cloud snapshot name.
snapshot_uuid (STRING): Cloud snapshot Universally Unique ID (UUID).
object_name (STRING): Cloud object name.

repl.core events

repl.core.nanny.cleanup

Severity

INFORMATIONAL

Description

This message occurs when a replication transfer that completed ten or more minutes ago is found and subsequently cleaned up.

Corrective Action

(None).

Syslog Message

The replication transfer identified by transfer Id %s was cleaned up since the transfer finished ten or more minutes ago.

Parameters

transferid (STRING): Identifier given for a particular transfer by the replication initiator.
status (INT): Progress status of the replication transfer when it was cleaned up.
failureReason (INT): Failure reason code if there was a failure. Zero is returned on success.
failureMsg (INT): Failure message code if there was a failure. Zero is returned on success.
failureMsgDetail (INT): Failure message detail code if there was a failure. Zero is returned on success.

repl.data events

repl.data.uncompacted

Severity

NOTICE

Description

This message occurs when compacted data is replicated to a volume that does not have data compaction enabled. The data is uncompacted on the destination volume and its original contents are written.

Corrective Action

(None).

Syslog Message

Data written to volume %s%s%s will be uncompacted.

Parameters

volname (STRING): Volume name.
app (STRING): Application UUID.
volident (STRING): Unique identifier for the volume.

repl.dest events

repl.dest.css.upload.notsup

Severity

ERROR

Description

This message occurs when Replication Engine encounters CSS Upload Table in a snapshot.

Corrective Action

(None).

Syslog Message

SnapMirror transfer failed because the transfer snapshot contains CSS upload table.

Parameters

(None).

repl.dest.dir.index.notsup

Severity

ERROR

Description

This message occurs when a snapshot that contains public directory indexes is being transferred to a destination volume that does not support them.

Corrective Action

Update the destination node to a version of ONTAP that supports directory indexes in the public inospace.

Syslog Message

SnapMirror transfer failed because the transfer snapshot contains directory indexes in public inospace and the destination volume does not support them.

Parameters

(None).

repl.dest.ilabels.notsup

Severity

ERROR

Description

This message occurs when a snapshot that contains ilabels is transferred to a destination whose ONTAP version that does not support ilabels.

Corrective Action

Update the destination node version of ONTAP to 9.9.1 or above.

Syslog Message

SnapMirror transfer with transfer ID %s will not send existing ilabels because the destination node %s does not support them.

Parameters

transferUuid (STRING): UUID of the SnapMirror® transfer.
dstNode (STRING): UUID of the node where the SnapMirror® destination is present.

repl.dest.lun.notsup

Severity

ERROR

Description

This message occurs when a LUN is being replicated to a Snapmirror destination on this platform that does not support LUNs.

Corrective Action

To continue Snapmirror® transfers to this platform, delete LUNs and existing snapshots with LUNs on the source volume.

Syslog Message

SnapMirror transfer with transfer ID %s encountered an error, since LUN replication is not supported on this platform.

Parameters

transferUuid (STRING): UUID of the SnapMirror® transfer.

repl.dest.multipart.inodes.notsup

Severity

ERROR

Description

This message occurs when a snapshot that contains multipart inodes is transferred to a destination volume that does not support them. Multipart inodes are created on volumes with granular data enabled.

Corrective Action

Update the destination node to a version of ONTAP that supports granular data and enable granular data on the destination volume.

Syslog Message

SnapMirror transfer failed because the transfer snapshot contains multipart inodes and the destination volume does not support them.

Parameters

(None).

repl.dest.space.guarantee.no.space

Severity

ERROR

Description

This message occurs when replication fails to set the space guarantee on the destination volume because there is not enough space on the destination aggregate.

Corrective Action

Changing the space guarantee type failed because the destination aggregate does not have enough free space. Please increase the amount of free space on the destination aggregate or change the space guarantee type of the source volume to NONE.

Syslog Message

The volume with DSID %llu, name %s%s, Vserver UUID %s cannot support changing the space guarantee to %s because the aggregate does not have enough free space. Please increase the amount of free space on the destination aggregate by at least %s.

Parameters

dstVolDsid (LONGINT): Destination volume Data Set ID (DSID).
dstVolName (STRING): Destination volume name.
app (STRING): Application UUID.
volident (STRING): Unique identifier for the volume
srcSpcGuarantee (STRING): Source volume space guarantee.

shortBy (STRING): Amount of extra free space required on the destination aggregate to support changing the guarantee type of the destination volume.

repl.dest.volume.too.small

Severity

ERROR

Description

This message occurs when the transfer snapshot from the source is unexpectedly larger than the size of the destination volume.

Corrective Action

Increase the destination volume size to be greater than or equal to the source volume size.

Syslog Message

The volume with vserver UUID %s, DSID, %llu, name %s, and size %lld bytes, is not large enough to allow replication of a transfer snapshot with size %lld from the source volume.

Parameters

dstVolOwnerUUID (STRING): UUID of the vserver that owns the destination volume.
dstVolDsid (LONGINT): Destination volume Data Set ID (DSID).
dstVolName (STRING): Destination volume name.
dstVolSize (LONGINT): Destination volume size in bytes.
srcVolSize (LONGINT): Source transfer snapshot size in bytes.

repl.dst events

repl.dst.snaps.check.failed

Severity

ERROR

Description

This message occurs when a SnapMirror® logical transfer is not possible due to an incompatible reference snapshot on the destination.

Corrective Action

Continue with physical transfers until a new snapshot is created on the source volume and the source volume is converted to dual inode space. Logical transfers can be started after this new snapshot is replicated to the destination volume.

Syslog Message

SnapMirror operation failed because the reference snapshot on the destination volume is either a) from a release prior to Data ONTAP 8.2 b) captured in a nonclustered format c) not upgraded to dual inode space.

Parameters

dstVolMsid (LONGINT): Destination volume Master Data Set ID (MSID).
dstVolDsid (LONGINT): Destination volume Data Set ID (DSID).
dstVolVserverId (INT): Destination volume Vserver ID.
dstInstanceRefImageUuid (STRING): Destination reference instance snapshot UUID.

dstVersionRefImageUuid (STRING): Destination reference version snapshot UUID.

repl.enable events

repl.enable.seq.split

Severity

NOTICE

Description

This message occurs when sequential splitting mode is enabled for a SnapMirror Synchronous relationship. This mode is unsuitable for large file workloads like LUNs, databases, virtualized workloads and video surveillance.

Corrective Action

(None).

Syslog Message

Enabling sequential splitting mode for relationship with UUID "%s".

Parameters

relationship_id (STRING): Relationship UUID.

repl.exovol events

repl.exovol.not.quiesced

Severity

INFORMATIONAL

Description

This message occurs when an exo-volume scanner detects a loss of volume quiescence during a volume move operation. This typically occurs when there is too much data to transfer within the allowed cutover window.

Corrective Action

Check the network connectivity between the nodes involved in the volume move. Decrease the amount of client traffic to the volume. If those steps do not reduce the amount of data to be transferred enough to allow the transfer, force a volume move cutover with the "-cutover-action force" flag to the "volume move start" command.

Syslog Message

(None).

Parameters

plugin (STRING): Exo-volume plug-in name.
srcVolMsid (LONGINT): Source volume Master Data Set ID (MSID).
srcVolDsid (LONGINT): Source volume Data Set ID (DSID).
srcVolClusterId (STRING): Source volume cluster Universally Unique ID (UUID).
srcVolVserverId (INT): Source volume Vserver ID.
bytes_transferred (LONGINT): Number of bytes already transferred.

elapsed_msecs (LONGINT): Elapsed time in milliseconds.

repl.extended events

repl.extended.time.format.unsupported

Severity

ERROR

Description

This message occurs when the replication engine encounters a destination that does not support extended time format.

Corrective Action

Select a destination that supports extended time format.

Syslog Message

Extended time format not supported on the destination of relationship %s.

Parameters

transferId (STRING): UUID of the SnapMirror® transfer that has the destination that cannot handle extended time.

repl.gsr events

repl.gsr.cache.modify.gs.enfrc.failed

Severity

ERROR

Description

This message occurs when SnapMirror faces internal error while going Out-Of-Sync or source volume comes online.

Corrective Action

Resynchronize SnapmMirror sync relation. Please contact NetApp technical support for more options.

Syslog Message

Unable to modify enforcement for the sync granset relation.

Parameters

transferId (STRING): UUID of the SnapMirror® transfer.
srcCgUUID (STRING): Source CG UUID.
Code (INT): Error code.

repl.gsr.clone.replication

Severity

NOTICE

Description

This message occurs when replication of a clone request fails or cannot be serviced. The clone request completed successfully on the sync mirror primary, but was not completed on the sync mirror secondary. The clone will not be available on the sync mirror secondary.

Corrective Action

Wait for the relationship to automatically resynchronize.

Syslog Message

Failed to replicate clone of /vol/%s/%s to sync mirror secondary.

Parameters

volname (STRING): Volume name.
filename (STRING): Source filename.
reason (STRING): Descriptive reason for the notice.

repl.gsr.snap.replication.failed

Severity

INFORMATIONAL

Description

This message occurs when a snapshot replication request fails or cannot be served.

Corrective Action

(None).

Syslog Message

Failed to replicate snapshot operation to the destination.

Parameters

transferId (STRING): UUID of the SnapMirror® transfer.
srcVolumeDsid (LONGINT): Source volume data set ID (DSID).
srcCgUUID (STRING): Source CG UUID.
snapshotName (STRING): Name of the snapshot to be replicated.
failureReason (STRING): Reason for the failure.
replStatus (INT): Replication Status.
replFailureMsg (INT): Replication failure message.
replFailureMsgDetail (INT): Replication failure message detail.

repl.holdblock events

repl.holdblock.arrived

Severity

INFORMATIONAL

Description

This message occurs during an incremental transfer when the replica volume did a snapshot restore before the transfer. It records the VVBN of the block which is supposed to be held in memory until the end of transfer as it arrives from the source.

Corrective Action

(None).

Syslog Message

Held block for volume '%s%s%s' (DSID %llu) with VVBN %llu has arrived.

Parameters

vol (STRING): Name of the volume.
app (STRING): Application UUID.
volident (STRING): Unique identifier for the volume.
volDsid (LONGINT): Data set identifier (DSID) of the volume.
vvbn (LONGINT): VVBN of the held block.

repl.holdblock.begin

Severity

INFORMATIONAL

Description

This message occurs at the beginning of an incremental transfer if the replica volume did a snapshot restore. It records the VVBN of the block that needs to be held in memory until the end of transfer.

Corrective Action

(None).

Syslog Message

Holding block for volume '%s%s%s' (DSID %llu) with VVBN %llu because Revert-to snapshot is set to %d.

Parameters

vol (STRING): Name of the volume.
app (STRING): Application UUID.
volident (STRING): Unique identifier for the volume.
volDsid (LONGINT): Data set identifier (DSID) of the volume.
vvbn (LONGINT): VVBN of the block to be held.
snapId (INT): Revert-to snapshot Id.

repl.holdblock.end

Severity

INFORMATIONAL

Description

This message occurs at the end of an incremental transfer when the replica volume did a snapshot restore. The required VVBN arrived from the source and has been applied to WAFL.

Corrective Action

(None).

Syslog Message

Applied held block for volume '%s%s%s' (DSID %llu) with VVBN %llu to WAFL.

Parameters

vol (STRING): Name of the volume.
app (STRING): Application UUID.
volident (STRING): Unique identifier for the volume.
volDsid (LONGINT): Data set identifier (DSID) of the volume.
vvbn (LONGINT): VVBN of the held block applied to WAFL.

repl.hole events

repl.hole.raid.error

Severity

ALERT

Description

This message occurs when a SnapMirror® transfer encounters an unrecoverable RAID error.

Corrective Action

Contact NetApp technical support for further assistance.

Syslog Message

SnapMirror transfer with transfer ID %s encountered an unrecoverable RAID error for %s with ID %d in destination volume %d.

Parameters

transferId (STRING): UUID of the SnapMirror transfer that encountered a RAID error.
fileSpace (STRING): File space (metafile or user file).
fileId (INT): File ID of the inode involved if it is a user file space, and metafile name if it is a metafile space.
dstVolDsid (LONGINT): Data set identifier (DSID) of the destination volume.

repl.jumpahead events

repl.jumpahead.failed

Severity

ERROR

Description

This message occurs when the system cannot bring a replica volume online after applying the latest update to the replica because of possible inconsistencies detected in the update. The system rolls back the volume to the file system that existed prior to applying the update and brings the volume back online.

Corrective Action

Run wafliron as soon as possible on the aggregate where the replica volume resides as well as on the aggregate where the source volume of the replica resides. If the problem persists, contact NetApp technical support for further assistance.

Syslog Message

Rolling back after jump-ahead failure for volume '%s%s%s' (DSID %llu) with error %d.

Parameters

vol (STRING): Name of the volume.
app (STRING): Application UUID.
volident (STRING): Unique identifier for the volume
volDsid (LONGINT): Data Set Identifier (DSID) of the volume
code (INT): Error code returned while bringing online the volume with the latest update

repl.large events

repl.large.vol.600tb.limits.unsup

Severity

ERROR

Description

This message occurs when the replication engine encounters a destination that cannot handle large 600TB volume limits.

Corrective Action

Take one of the following actions: - Select a destination with version ONTAP 9.14.0 or later. - On the source volume, reduce the volume size "volume modify -vserver vserver_name> -volume vol_name -max-size 300TB".

Syslog Message

Large volume limits not supported on the destination node %s for destination volume with MSID %llu of relationship %s.

Parameters

dstNode (STRING): UUID of the node where the SnapMirror® destination is present.
dstVolMsid (LONGINT): MSID of the SnapMirror® destination volume.
transferId (STRING): UUID of the failed SnapMirror® transfer.

repl.large.vol.limits.unsup

Severity

ERROR

Description

This message occurs when the replication engine encounters a destination that cannot handle large volume limits.

Corrective Action

Take one of the following actions: - Select a destination with version ONTAP 9.12.1 or later. - On the source volume, reduce the volume size "volume modify -vserver vserver_name> -volume vol_name -large-volume -file-limits disable". Now disable large volume limits by using the "volume modify -vserver vserver_name -volume vol_name -large-volume-file-limits disable" command.

Syslog Message

Large volume limits not supported on the destination node %s for destination volume with MSID %llu of relationship %s.

Parameters

dstNode (STRING): UUID of the node where the SnapMirror® destination is present.
dstVolMsid (LONGINT): MSID of the SnapMirror® destination volume.
transferId (STRING): UUID of the failed SnapMirror® transfer.

repl.large.vol.unsup.maxvvbn

Severity

ERROR

Description

This message occurs when the replication engine encounters a destination that cannot handle large volumes.

Corrective Action

Select a destination that supports a volume size greater than 100 TB.

Syslog Message

Large volumes not supported on the destination node %s for destination volume with MSID %llu of relationship %s.

Parameters

dstNode (STRING): UUID of the node where the SnapMirror® destination is present.
dstVolMsid (LONGINT): MSID of the SnapMirror® destination volume.
transferId (STRING): UUID of the SnapMirror® transfer that has the destination that cannot handle large volumes.

repl.large.vol.unsup.nomsize

Severity

ERROR

Description

This message occurs when the replication engine encounters a destination that cannot handle large volumes.

Corrective Action

Take one of the following actions: - On the source volume, disable autosize if it is enabled by using the "volume modify vol_name -autosize-mode" command. Then reduce the size of the volume by using the "volume modify vol_name -size" command. - On the source volume, set the "max autosize" parameter to below 100 TB by using the "volume modify vol_name -max-autosize" command. - On the source volume, reduce the size of the volume to below 100 TB by using the "volume modify vol_name -size" command. - Select a destination that supports a volume size greater than 100 TB.

Syslog Message

Large volume not supported on the destination node %s for destination volume with MSID %llu of relationship %s.

Parameters

dstNode (STRING): UUID of the node where the SnapMirror® destination is present.
dstVolMsid (LONGINT): MSID of the SnapMirror® destination volume.
transferId (STRING): UUID of the failed SnapMirror® transfer.

repl.logical events

repl.logical.dw.rebuild

Severity

INFORMATIONAL

Description

This message occurs when a data warehouse is rebuilt as part of a SnapMirror® restore or resync operation.

Corrective Action

(None).

Syslog Message

A data warehouse rebuild was performed on volume with name %s, MSID %llu, DSID %llu, and Vserver ID %u.

Parameters

volName (STRING): Volume name.
volMsid (LONGINT): Volume master data set ID (MSID).
volDsid (LONGINT): Volume data set ID (DSID).
volVserverId (INT): Volume Vserver ID.

repl.logical.lreToIrse

Severity

INFORMATIONAL

Description

This message occurs when previously enabled compression is disabled on the destination volume of a SnapMirror® relationship with the type XDP, and when it is followed by the "snapmirror update" command with the "enable-storage-efficiency" parameter set to "true". All future transfers to this destination volume from the current source will preserve storage efficiency as long as compression is disabled on it.

Corrective Action

(None).

Syslog Message

All future transfers from the current source to destination volume %s%s with MSID %llu, DSID %llu, from the current source will preserve storage efficiency as long as compression is disabled on the destination volume.

Parameters

dstVolName (STRING): Destination volume name.
dstVolVserverUuid (STRING): Destination volume Vserver ID.
dstVolMsid (LONGINT): Destination volume Master data set ID (MSID).
dstVolDsid (LONGINT): Destination volume data set ID (DSID).

repl.logical.lrseToIre

Severity

INFORMATIONAL

Description

This message occurs when compression is enabled on the destination volume of a SnapMirror® relationship that has type XDP. All future transfers to this destination volume from the current source will not preserve storage efficiency.

Corrective Action

(None).

Syslog Message

All future transfers to destination volume with MSID %llu, DSID %llu, and Vserver ID %u, from the current source will not preserve storage efficiency.

Parameters

dstVolMsid (LONGINT): Destination volume Master Data Set ID (MSID).
dstVolDsid (LONGINT): Destination volume Data Set ID (DSID).
dstVolVserverId (INT): Destination volume Vserver ID.

repl.logical.rawDirToLogicalDir

Severity

INFORMATIONAL

Description

This message occurs when a SnapMirror® transfer uses logical mode after a previous transfer to the same destination used raw directory mode. This most frequently occurs when the source node of the transfer was upgraded to a newer version of Data ONTAP® than the destination node.

Corrective Action

(None).

Syslog Message

(None).

Parameters

dstVolMsid (LONGINT): Destination volume Master Data Set ID (MSID).
dstVolDsid (LONGINT): Destination volume Data Set ID (DSID).
dstVolClusterId (STRING): Destination volume cluster Universally Unique ID (UUID).
dstVolVserverId (INT): Destination volume Vserver ID.
srcInstanceImageUuid (STRING): Source transfer instance snapshot UUID.
srcVersionImageUuid (STRING): Source transfer version snapshot UUID.
rawDirsSupported (INT): Indicates whether the destination believes raw directory transfer is supported.
rawDirsRequired (INT): Indicates whether the destination believes raw directory transfer is required.

repl.out events

repl.out.of.band.vbn

Severity

INFORMATIONAL

Description

This message occurs when replication source is asked to send certain blocks out of band because the replica volume did a snapshot restore.

Corrective Action

(None).

Syslog Message

Asked volume '%s%s%s' (DSID %llu) to send out-of-band VVBN %llu; current cursor: %llu; need-many-VBN value: %d.

Parameters

vol (STRING): Name of the volume.
app (STRING): Application UUID.
volident (STRING): Unique identifier for the volume.
volDsid (LONGINT): Data set identifier (DSID) of the volume.
oobVVBN (LONGINT): Out-of-band Virtual Volume Block Number (VVBN).
cursor (LONGINT): Current scan cursor.
many (INT): Whether multiple out-of-band VVBNs were asked for.

repl.out.of.memory

Severity

NOTICE

Description

This message occurs when an out-of-memory error is encountered during a SnapMirror® replication operation.

Corrective Action

(None).

Syslog Message

SnapMirror replication transfer encountered an out-of-memory error.

Parameters

memoryAllocation (STRING): Type of memory allocation.
retry_time_msecs (LONGINT): Retry time in milliseconds.
filename (STRING): Name of the file where the event occurred.
functionName (STRING): Name of the function for which the error occurred.
lineNumber (INT): Line number at which error the occurred.
size (LONGINT): Size of the memory allocation.

repl.physdiff events

repl.physdiff.invalid.hole

Severity

EMERGENCY

Description

This message occurs when a block to replicate was found to be inconsistent in the source volume. Replication has been aborted to avoid propagating the inconsistency to the destination node.

Corrective Action

Run wafliron on the aggregate containing the source volume of the replication.

Syslog Message

Replication of volume '%s%s%s' (DSID %llu) encountered an inconsistent block (VVBN %llu).

Parameters

vol (STRING): Name of the volume.
app (STRING): Application UUID.
volident (STRING): Unique identifier for the volume.
volDsid (LONGINT): Data set identifier (DSID) of the source volume.
vvbn (LONGINT): Virtual Volume Block Number of the affected block.

repl.s2c events

repl.s2c.checksum.mismatch

Severity

ERROR

Description

This message occurs when the checksum of an object’s contents does not match with the expected checksum.

Corrective Action

Please contact NetApp technical support for more options.

Syslog Message

Checksum mismatch in cloud object contents. Endpoint UUID = %s. Relationship UUID = %s. Object Name = %s. Slot ID = %d.

Parameters

epUuid (STRING): Endpoint UUID.
relnUuid (STRING): Relationship UUID.
objName (STRING): Cloud object name.
slotId (INT): Slot ID.

repl.s2c.rel.state.inconsistent

Severity

EMERGENCY

Description

This message occurs when the replication source engine encounters a disk error in the relationship state metafile. Replication transfer will abort. Current relationship cannot be resumed.

Corrective Action

Current relationship cannot be resumed. Please create a new relationship.

Syslog Message

relationship state metafile inconsistent in volume '%s%s%s' due to disk errors. Aborting transfer.

Parameters

vol (STRING): Name of the volume.
app (STRING): Application UUID.
volident (STRING): Unique identifier of the volume in cases where the volume name itself is insufficient.

repl.s2c.restore.unsupported.config

Severity

ERROR

Description

This message occurs when we encounter unsupported configuration during SnapMirror® restore.

Corrective Action

Cannot continue with restore.

Syslog Message

Cannot restore to volume '%s%s%s' because %s.

Parameters

vol (STRING): Name of the volume.
app (STRING): Application UUID.
volident (STRING): Unique identifier of the volume in cases where the volume name itself is insufficient.
reason (STRING): Specific reason for failure.

repl.s2c.restore.unsupported.snapshot

Severity

ERROR

Description

This message occurs when we encounter unsupported source snapshot copy during SnapMirror® restore.

Corrective Action

Cannot use the source snapshot copy for SnapMirror® restore.

Syslog Message

Cannot restore from source snapshot copy to volume '%s%s%s' because %s.

Parameters

vol (STRING): Name of the volume.
app (STRING): Application UUID.
volident (STRING): Unique identifier of the volume in cases where the volume name itself is insufficient.
reason (STRING): Specific reason for failure.

repl.s2c.rst.archv.data.fnd

Severity

NOTICE

Description

This message occurs when SnapMirror® restore encounters data present in the cloud archive tier. SnapMirror restore cannot proceed until archival tier data processing has completed.

Corrective Action

Use the "snapmirror show" command to view the status of the processing of the archival tier of the cloud. When the relationship status becomes "Idle", then reissue the SnapMirror restore request.

Syslog Message

SnapMirror restore with transfer UUID "%s", cloud source endpoint UUID "%s", destination volume DSID "%llu", encountered data in the archival tier.

Parameters

transferId (STRING): SnapMirror transfer universal unique identifier (UUID).
srcEpUuid (STRING): Cloud source endpoint UUID.
dstVolDsid (LONGINT): Restore destination volume data set ID (DSID).

repl.s2c.src.inconsistent

Severity

EMERGENCY

Description

This message occurs when the replication source engine encounters a disk error in the file system metadata. Replication transfer will abort.

Corrective Action

Run wafliron to fix the active file system. To continue replication transfer, run snapmirror abort -h command on the relationship, delete the current transfer snapshot copy and resume replication transfer from a new clean snapshot copy.

Syslog Message

WAFL metadata inconsistent in volume '%s%s%s' due to disk errors. Aborting transfer.

Parameters

vol (STRING): Name of the volume.
app (STRING): Application UUID.
volident (STRING): Unique identifier of the volume in cases where the volume name itself is insufficient.

repl.s2c.unsupported.config

Severity

ERROR

Description

This message occurs when we encounter unsupported configuration during SnapMirror® backup.

Corrective Action

Cannot continue with backup.

Syslog Message

Cannot backup from volume '%s%s%s' because %s.

Parameters

vol (STRING): Name of the volume.
app (STRING): Application UUID.
volident (STRING): Unique identifier of the volume in cases where the volume name itself is insufficient.
reason (STRING): Specific reason for failure.

repl.s2c.vmap.inconsistent

Severity

INFORMATIONAL

Description

This message occurs when the replication source engine encounters a disk error in the replication specific metadata. Replication transfer will abort.

Corrective Action

(None).

Syslog Message

Replication specific metadata inconsistency in volume '%s%s%s'. Aborting transfer. Transfer will attempt baseline to recover from this condition.

Parameters

vol (STRING): Name of the volume.
app (STRING): Application UUID.
volident (STRING): Unique identifier of the volume in cases where the volume name itself is insufficient.

repl.send events

repl.send.mgr.forcedLogical

Severity

INFORMATIONAL

Description

This message occurs when a SnapMirror® transfer uses logical mode without even attempting raw directory negotiation.

Corrective Action

(None).

Syslog Message

(None).

Parameters

srcVolMsid (LONGINT): Source volume Master Data Set ID (MSID).
srcVolDsid (LONGINT): Source volume Data Set ID (DSID).
srcVolClusterId (STRING): Source volume cluster Universally Unique ID (UUID).
srcVolVserverId (INT): Source volume Vserver ID.
srcInstanceImageUuid (STRING): Source transfer instance snapshot UUID.
srcVersionImageUuid (STRING): Source transfer version snapshot UUID.
srcInstanceRefImageUuid (STRING): Source reference instance snapshot UUID.
srcVersionRefImageUuid (STRING): Source reference version snapshot UUID.

repl.seq events

repl.seq.split.enabled.SAN

Severity

ALERT

Description

This message occurs when the SnapMirror sequential split is enabled on a SAN operating workload. This is meant to be enabled for NAS workloads only. SAN operating workload would experience a higher latency and is not recommended to be used with sequential splitting mode.

Corrective Action

Switch back to parallel split mode by running the command "snapmirror policy modify -policy (policy name) -are-data-ops-sequentially-split false".

Syslog Message

Sequential splitting mode is enabled in SAN operating workload for relationship with UUID "%s".

Parameters

relationship_id (STRING): SnapMirror relationship universal unique identifier (UUID).

repl.ser events

repl.ser.ops.pardir.breach

Severity

NOTICE

Description

This message occurs when number of operations serialized on parent directory exceed an internal limit. This does not harm the system/cluster in any way.

Corrective Action

(None).

Syslog Message

Number of operations serialized on parent directory exceed the internal limit for relationship with UUID %s.

Parameters

relationship_id (STRING): SnapMirror relationship universal unique identifier (UUID).

repl.space events

repl.space.guarantee.transfer.failed

Severity

ERROR

Description

This message occurs when the attempt to change space guarantee type fails on the destination volume.

Corrective Action

Change the space guarantee type of the source volume to be the same as the space guarantee type of the destination volume.

Syslog Message

The volume with DSID %llu, name %s%s, Vserver UUID %s cannot support changing the space guarantee to %s on the destination aggregate, error %d.

Parameters

dstVolDsid (LONGINT): Destination volume Data Set ID (DSID).
dstVolName (STRING): Destination volume name.
app (STRING): Application UUID.
volident (STRING): Unique identifier for the volume
srcSpcGuarantee (STRING): Source volume space guarantee.
code (INT): Error code returned when setting the space guarantee of the destination volume.

repl.src events

repl.src.snaps.check.failed

Severity

ERROR

Description

This message occurs when SnapMirror® logical transfer is not possible due to incompatible snapshots.

Corrective Action

Create new snapshot on the source volume and use that for Logical transfer.

Syslog Message

SnapMirror operation failed because the reference and/or the transfer snapshots on the source volume are either a) from a release prior to Data ONTAP 8.2 b) captured in a nonclustered format c) not upgraded to dual inode space. These snapshots cannot be used for logical transfer.

Parameters

srcVolMsid (LONGINT): Source volume Master Data Set ID (MSID).
srcVolDsid (LONGINT): Source volume Data Set ID (DSID).
srcVolVserverId (INT): Source volume Vserver ID.
srcInstanceImageUuid (STRING): Source transfer instance snapshot UUID.
srcVersionImageUuid (STRING): Source transfer version snapshot UUID.
srcInstanceRefImageUuid (STRING): Source reference instance snapshot UUID.
srcVersionRefImageUuid (STRING): Source reference version snapshot UUID.

repl.switch events

repl.switch.to.seq.split

Severity

NOTICE

Description

This message occurs when the average Op Latency increases beyond the threshold value in parallel splitting mode.

Corrective Action

Switch to sequential splitting mode by setting the SnapMirror policy option "-are-data-ops-sequentially-split".

Syslog Message

Operation Latency has exceeded the threshold value "%llu" in the parallel split mode for sync relationship with UUID "%s".

Parameters

average_overall_latency (LONGINT): Average overall latency.
relationship_id (STRING): Relationship UUID.

repl.unable events

repl.unable.to.create.css

Severity

NOTICE

Description

This message occurs when the workflow is unable to create a common snapshot due to timeout. This operation is retried automatically.

Corrective Action

(None).

Syslog Message

Unable to create CSS "%s" for relationship with UUID %s.

Parameters

snapshot_name (STRING): Common snapshot name
relationship_id (STRING): SnapMirror relationship universal unique identifier (UUID).

repl.xfer events

repl.xfer.term.timed.out

Severity

ERROR

Description

This message occurs when a replication transfer component (sender or receiver) has taken more than an hour to terminate. Any future manual or scheduled replication transfer for this relationship cannot begin until this condition is corrected.

Corrective Action

Please generate a core file on the node, submit it to NetApp technical support and reboot the node.

Syslog Message

A component of a replication transfer with destination volume DSID '%llu' or SnapMirror® tape ndmp session '%s' is taking a long time to terminate since it is busy performing some operation.

Parameters

dstVolDsid (LONGINT): Data set identifier (DSID) of the destination volume.
smTapeNDMPSession (STRING): NDMP session identifier for SnapMirror® tape transfers.

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