snapvault events

ONTAP EMS reference

NetApp
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snapvault.dst.bkpSnapCreate

Severity

INFORMATIONAL

Description

This message occurs when SnapVault® creates a backup snapshot for a given backup schedule.

Corrective Action

(None).

Syslog Message

A backup snapshot was created on volume %s by backup schedule %s (%d of %d allocated snapshot copies consumed).

Parameters

vol_name (STRING): Name of the SnapVault secondary volume on which the backup snapshot is created.
target_name (STRING): Base name of the backup schedule for which the given backup snapshot is created.
snap_cnt (INT): Total number of backup snapshots created for the given backup schedule.
alloc_cnt (INT): Total number of backup snapshots allocated for the given backup schedule.

snapvault.dst.bliDataRepaired

Severity

NOTICE

Description

This message is issued when SnapVault may have repaired data that had previously been made incorrect/incomplete by Bug #137685 which has now been fixed. Under some conditions this message may be issued when, in fact, the data was not previously incorrect or incomplete. Under some conditions, the SnapVault code cannot determine whether the previous version of the data was correct or not, but it does know that after the current transfer completes that the data is correct. This message will only be issued if the hidden snapvault option, repair_bug137685_stats is enabled.

Corrective Action

(None).

Syslog Message

ONTAP changed data in %d data chunk(s) in %s which may have been missing or incorrect.

Parameters

chunks_repaired (INT): The number of of chunks which may have been repaired. Up to 2MB of data may be sent in a chunk in the QSM/SnapVault data format. This count is incremented for each chunk in which one or more 4K blocks may have been repaired.
dst_path (STRING): Destination qtree path.

snapvault.dst.bliWarning

Severity

ERROR

Description

This event is issued when SnapVault has detected that OSSV secondary data may be incomplete or incorrect.

Corrective Action

See the public reports for Bug #137685 and Bug #140930 for corrective action.

Syslog Message

ONTAP has detected a condition in which OSSV secondary data for %s may be incomplete or incorrect. See the public reports for Bug #137685 and Bug #140930 for corrective action.

Parameters

dst_path (STRING): Destination qtree path.

snapvault.dst.lowSnapWarn

Severity

ERROR

Description

This message occurs when the remaining number of snapshots allocated for a given SnapVault® backup schedule on the given volume reaches or falls below the preset warning level. This event occurs on every failed attempt by SnapVault to create a backup snapshot on the given backup schedule, until you resolve the condition.

Corrective Action

Consider deleting some backup snapshots from the given backup target to create some free slots. For more information and other solutions, see the Online Backup Recovery Guide.

Syslog Message

Remaining number of snapshots on the volume %s for the backup schedule %s is below the set warning level (%d of allocated %d).

Parameters

vol_name (STRING): Name of the SnapVault secondary volume on which the backup snapshot is created.
target_name (STRING): Base name of the backup schedule for which the given backup snapshot is created.
snap_cnt (INT): Total number of backup snapshots created for the given backup schedule.
alloc_cnt (INT): Total number of backup snapshots allocated to the given backup schedule.

snapvault.dst.opNotComplete

Severity

NOTICE

Description

This message occurs when SnapVault® cannot complete a transfer normally, due to resource unavailability or SnapVault being off.

Corrective Action

None needed. SnapVault periodically attempts to complete this transfer.

Syslog Message

(None).

Parameters

dst_path (STRING): Destination qtree path.
snapvault_on (INT): SnapVault enabled? - on(1) or off(0)

snapvault.dst.updateDelayed

Severity

INFORMATIONAL

Description

This message occurs when an update request is received on a destination qtree that is being used as the source for another transfer.

Corrective Action

(None).

Syslog Message

%s: Update from %s:%s to %s:%s is delayed because another update, %s:%s to %s:%s, is already in progress.

Parameters

type (STRING): SnapVault® transfer type.
srcfiler1 (STRING): SnapVault source system.
srcpath1 (STRING): SnapVault source qtree.
dstfiler1 (STRING): SnapVault destination system for first transfer (in progress). Source for second transfer (delayed).
dstpath1 (STRING): SnapVault destination qtree for first transfer. Source for second transfer.
srcfiler2 (STRING): SnapVault destination system for first transfer. Source for second transfer.
srcpath2 (STRING): SnapVault destination qtree for first transfer. Source for second transfer.
dstfiler2 (STRING): Destination system for second transfer.
dstpath2 (STRING): Destination qtree for second transfer.

snapvault.qtree events

snapvault.qtree.initiate

Severity

NOTICE

Description

This message occurs when SnapVault® cannot start a volume-wide snapshot target to complete a manually invoked baseline transfer or resynchronizing transfer. As a result, the changes to the qtree in that operation will not yet be made visible. SnapVault attempts to repair this condition.

Corrective Action

(None).

Syslog Message

Could not coalesce %s: %s.

Parameters

qtpath (STRING): Path of the qtree in the operation.
reason (STRING): Reason why SnapVault could not start the snapshot target.

snapvault.qtree.notCoalesced

Severity

ERROR

Description

This message occurs when SnapVault® fails to initiate a qtree into a SnapVault coalescing cycle.

Corrective Action

If the error is transient, the next SnapVault coalescing cycle tries to initiate the qtree into the coalescing cycle. Otherwise, see the error message for details.

Syslog Message

Could not initiate %s into SnapVault coalescing cycle: %s.

Parameters

qtpath (STRING): Path of the qtree in the operation.
errstr (STRING): Error string.

snapvault.qtree.upgradeStatus

Severity

NOTICE

Description

During initialization, SnapVault will attempt to update the qtree metadata flag if necessary. This message is generated if the qtree has been converted but an error occurs in updating the status entry.

Corrective Action

(None).

Syslog Message

Could not update the status entry for %s. Entry will be updated during the next transfer.

Parameters

srcpath (STRING): The pathname for the qtree.

snapvault.reg events

snapvault.reg.unknownOpt

Severity

NOTICE

Description

This message occurs when you downgrade from a kernel with newer version to one with an older version and the system attempts to read a registry entry that is supported only in the newer version of the kernel.

Corrective Action

(None).

Syslog Message

Unsupported registry entry: (%s).

Parameters

regopt (STRING): Unrecognized registry entry for the older version of the kernel.

snapvault.src events

snapvault.src.notEnabled

Severity

ERROR

Description

This message occurs when a SnapVault® source appliance receives a transfer request when the service is not enabled. The license needed depends on the transfer type. For SnapVault restore transfers, the appliance must have a secondary license. For other transfers, the appliance must have a primary license.

Corrective Action

Enable the service by issuing the command 'options snapvault.enable on'. You might need to license the service before you enable it.

Syslog Message

Command request (%d) from host %s while SnapVault is not enabled.

Parameters

cmd (INT): Protocol command number for the type of transfer being requested.
dst_ip (STRING): IP address of the destination issuing the transfer request.

snapvault.src.volume.migrating

Severity

ERROR

Description

This message occurs when a SnapVault® snapshot target is initiated on a SnapVault primary volume while the volume is being migrated. The target might have been scheduled or manually invoked (through the 'snapvault snap create' command or programmatic interfaces).

Corrective Action

Wait for the volume migration to be completed.

Syslog Message

SnapVault primary volume %s is currently being migrated.

Parameters

volname (STRING): Name of the SnapVault primary volume, on which the target is invoked.

snapvault.sys events

snapvault.sys.internal

Severity

ERROR

Description

This message occurs when SnapVault® encounters an internal error.

Corrective Action

Turn off SnapVault and restart it.

Syslog Message

An internal error occurred in SnapVault®: %s.

Parameters

reason (STRING): Reason for the internal error.

snapvault.sys.upgrade

Severity

ERROR

Description

During initialization, SnapVault will attempt to update all the qtree metadata flags if necessary. This message is generated if there is insufficient memory to perform this operation.

Corrective Action

Convert the qtrees manually or contact NetApp technical support to help.

Syslog Message

Low on memory. Can’t automatically convert snapvault qtrees right now, so backups will fail. Convert the qtrees manually or contact NetApp technical support to help.

Parameters

(None).

snapvault.sys.vfilerOn

Severity

INFORMATIONAL

Description

This message occurs when SnapVault® is enabled on a vfiler during shutdown, where it is expected to be disabled.

Corrective Action

None needed. This is for information only.

Syslog Message

(None).

Parameters

vfiler (STRING): Name of the vfiler.

snapvault.tgt events

snapvault.tgt.dupCoalesced

Severity

NOTICE

Description

This message occurs when SnapVault® detects more than one coalesced snapshot of a specific type in a SnapVault secondary volume. SnapVault attempts to repair this condition.

Corrective Action

(None).

Syslog Message

Detected multiple coalesced %s snapshots in volume %s.

Parameters

snaptype (STRING): Type of coalesced snapshot that has duplicates.
volume (STRING): Name of the SnapVault secondary volume on which the target was invoked.

snapvault.tgt.failure

Severity

ERROR

Description

This message occurs when a SnapVault® snapshot target fails, either because it could not start or because it encountered an error while processing. The target could have been scheduled or manually invoked

(through the 'snapvault snap create' command or programmatic interfaces).

Corrective Action

The corrective action depends on the cited reason regarding why the snapshot target could not start or why it failed. After you correct the situation, invoke the snapshot target again, or wait for the next scheduled invocation. If the volume could not be found, make sure that it is online, check the spelling of the volume name, and correct the SnapVault snapshot schedule if it is misspelled. If the target could not start due to a temporary lack of resources (such as threads or memory), no corrective action might be necessary, because SnapVault periodically retries the operation. If the problem persists, you might need to schedule SnapVault and/or other services to run less frequently. If the target could not create a snapshot, or could not create or write either data or metadata to the volume, check whether the volume has any available space, inodes, and snapshots. If any of these have been exhausted, free some up for SnapVault use. If the target didn’t run because it is not a create target, install a SnapVault secondary license or unconfigure the target. If the target didn’t run because some other service is actively using the volume and would interfere with SnapVault, either stop that service or wait for it to be completed.

Syslog Message

Could not create snapshot target "%s" on volume %s: %s.

Parameters

snapname (STRING): Base name of the snapshot that the target was meant to create.
volume (STRING): Name of the SnapVault secondary volume on which the target was invoked.
reason (STRING): Reason why the target could not start, or the specific error encountered during processing.

snapvault.tgt.NBUfailure

Severity

ERROR

Description

This event occurs when a snapshot creation on the destination volume used to back up primary qtrees using SnapVault(tm) managed by VERITAS® NetBackup® fails. Because the snapshot creation failure also causes the NetBackup backup request to fail, this is considered an error. This failure occurs when the number of snapshots in the volume exceeds the maximum limit, there is insufficient disk space in the destination volume, or the destination volume is offline or restricted.

Corrective Action

Use the 'snap list volname' command to list the snapshots in the volume and to see whether there are close to 255 snapshots (the maximum). Use the 'df -k' command to check the amount of disk space available in the volume. If either of these conditions is the cause of the failure, contact the NetBackup Administrator and ask for some old backups stored on this volume to be deleted. This results in both the number of snapshots being reduced and disk space getting freed. Also check the status of the volume by using the 'vol status' command to confirm that the volume is offline or restricted. If it is, use the 'vol online volname' command to bring the volume online.

Syslog Message

SnapVault snapshot creation for volume (%s) failed.

Parameters

volume (STRING): The name of the destination volume for which the snapshot creation failed.

snapvault.tgt.qtreeIgnore

Severity

ERROR

Description

This message occurs when SnapVault® intentionally ignores a configuration entry for a secondary qtree. After ignoring it once, SnapVault continues ignoring the qtree (silently) until you update the qtree manually, until you restart the SnapVault service, or until the next boot.

Corrective Action

The corrective action depends on the cited reason regarding why the qtree configuration was ignored. Frequently, the qtree simply doesn’t exist, in which case the configuration entry is stale and should be removed (through the 'snapvault stop' command). If the qtree was ignored due to some transient reason, you need to manually update the qtree, or disabled and reenable SnapVault to begin operating on the qtree again.

Syslog Message

Ignoring configuration entry for %s in volume %s: %s.

Parameters

qtpath (STRING): Path to the qtree whose configuration entry was ignored.
volume (STRING): Name of the SnapVault secondary volume with the ignored configuration entry.
reason (STRING): Reason why the qtree configuration was ignored.

snapvault.tgt.unstableSnap

Severity

ERROR

Description

This message occurs when SnapVault® detects a coalesced snapshot with transitioning qtree replicas. If this event occurs, it suggests that archive snapshots might have captured some SnapVault secondary qtrees in a transitioning state, which you can verify by running the 'snap list -q' command. SnapVault attempts to recover from this situation, but that only affects new archive snapshots created after the event, and not any existing snapshots.

Corrective Action

(None).

Syslog Message

Recovery detected %s snapshot with transitioning qtrees in volume %s.

Parameters

snaptype (STRING): Type of coalesced snapshot that contains transitioning SnapVault qtree replicas.
volume (STRING): Name of the SnapVault secondary volume on which the target was invoked.

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