replication events

ONTAP EMS reference

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replication events

replication.cluster events

replication.cluster.vol

Severity

ERROR

Description

This message occurs because the transfer of clustered volumes is not supported in nonclustered environments.

Corrective Action

Use clustered ONTAP to transfer cluster volumes.

Syslog Message

Canceled transfer of %s volume '%s', %s transfer of cluster volume is not supported in nonclustered environments.

Parameters

type (STRING): Destination or source.
volume (STRING): Replica volume.
transfertype (STRING): Type of transfer.

replication.dst events

replication.dst.attrsNotSaved

Severity

ERROR

Description

This message is issued at the end of a Qtree SnapMirror® or SnapVault® transfer or checker/fixer operation when the replication destination detects that the replication source has sent file attributes that the replication destination does not support, and the replication destination has not saved those attributes. This may happen when the replication source is running a newer version of ONTAP which supports file attributes that the replication destination does not support.

Corrective Action

To store all of the attributes, upgrade your replication destination filer to a version of ONTAP which is at least as recent as the source. Alternatively, this message can be suppressed for all future transfers or checker/fixer operations for all Qtree SnapMirror and SnapVault relationships by setting the hidden replication option, suppress_attrs_not_saved_warnings.

Syslog Message

The replication destination was unable to replicate all file attributes on %d file(s) or director(y/ies) in %s because it does not support one or more of the attributes sent by the source.

Parameters

attrs_not_saved (INT): The number of files for which the replication destination could not replicate all file attributes.
dst_path (STRING): Destination qtree path.

replication.dst.debugLog

Severity

ERROR

Description

This message occurs when a SnapMirror® or SnapVault® destination cannot log the replication protocol header for the data received.

Corrective Action

The reasons for the error cited in the error message might indicate ways to address the problem.

Syslog Message

Logical Replication header log: %s %s:%s.

Parameters

reason (STRING): Reason for the failure.
file_name (STRING): Logging file for which the error was encountered.
errstr (STRING): Error encountered during logging operation.

replication.dst.err

Severity

ERROR

Description

This message occurs when the system detects an error on a SnapMirror® or SnapVault® destination volume or qtree.

Corrective Action

(None).

Syslog Message

%s: destination transfer from %s:%s to %s : %s.

Parameters

rtype (STRING): Replication type (SnapMirror, SnapVault, and so on.).
srcfiler (STRING): Replication source system.
srcpath (STRING): Replication source volume or qtree.
dstpath (STRING): Replication destination volume or qtree.
error (STRING): Specific error message.

replication.dst.inodeMissing

Severity

ERROR

Description

This message occurs when a file for which the replication source sent data is not present on the replication destination.

Corrective Action

Check for WAFL® inconsistencies on the replication source.

Syslog Message

The replication destination could not find the file corresponding to %d sent from the replication source. Check for WAFL inconsistencies on the replication source %s:%s.

Parameters

inode (INT): Inode number of the source file for which the corresponding file is not present.
srcfiler (STRING): Replication source system.
srcpath (STRING): Replication source path.

replication.dst.langMismatch

Severity

ERROR

Description

This message occurs when the user continues with the updates of the replication relationship after changing the language setting of the volume in which qtree replicas are configured or that contain replica primary.

Corrective Action

Create a new baseline for the relationship.

Syslog Message

Volume language was changed before this transfer or it was changed before some previous update transfer for the relationship of qtree %s. This might create some problems with further replication transfers of the relationship.

Parameters

qtpath (STRING): Destination qtree path.

replication.dst.lostACL

Severity

ERROR

Description

This message occurs when a replication update discovers that an inode that is supposed to have an ACL does not have one, causing the replication to fail.

Corrective Action

If the replication destination is a SnapMirror® destination, run the 'snapmirror quiesce' command to quiesce

the replication relation, then run the 'snapmirror check -F' command under the guidance of NetApp technical support. If the destination is a SnapVault® destination, run the 'snapvault check -F' command under the guidance of NetApp technical support.

Syslog Message

Replication transfer from %s:%s to %s:%s: the destination could not find ACL %d for source inode %d.

Parameters

srcfiler (STRING): Replication source system.
srcpath (STRING): Replication source path.
dstfiler (STRING): Replication destination system.
dstpath (STRING): Replication destination path.
acl_inode (INT): Inode number of source ACL.
file_inode (INT): Inode number of the replication source file.

replication.dst.noCommonSnap

Severity

ERROR

Description

This message occurs when a SnapVault® or SnapMirror® relationship cannot be resynchronized because there is no usable snapshot that the source and destination have in common. In such situations, the 'snapvault start -r' and 'snapmirror resync' commands cannot be successfully completed.

Corrective Action

The relationship cannot be resynchronized so it must be reinitialized. For SnapMirror, use the 'snapmirror initialize' command. For SnapVault, use the 'snapvault start' command. Either run the baseline transfer to a new qtree, or remove the existing qtree before starting the transfer. Refer to the Data Protection Guide for details.

Syslog Message

%s: destination transfer from %s:%s to %s:%s : no common snapshot to use as the base for resynchronization.

Parameters

rtype (STRING): Replication type (SnapMirror, SnapVault, and so on.).
srcfiler (STRING): Replication source system.
srcpath (STRING): Replication source path.
dstfiler (STRING): Replication destination system.
dstpath (STRING): Replication destination path.
rplerror (STRING): Replication error message.
waflerror (STRING): WAFL® error

replication.dst.noMemory

Severity

ALERT

Description

This message occurs when there is insufficient memory on the SnapMirror® or SnapVault® destination for the transfer to continue.

Corrective Action

(None).

Syslog Message

System is low on memory; aborting %s destination transfer.

Parameters

rtype (STRING): Replication type (SnapMirror, SnapVault, and so on.).

replication.dst.noSrcSnap

Severity

ERROR

Description

This message occurs when a SnapVault® or SnapMirror® destination discovers that the relationship's base snapshot no longer exists on the source. In such situations, 'snapvault update' and 'snapmirror update' commands cannot execute successfully.

Corrective Action

For SnapMirror, issue the command 'snapmirror resync' to make SnapMirror attempt to resynchronize the relationship. If the resync operation cannot find a common snapshot, you must reestablish the relationship with the 'snapmirror initialize' command. For SnapVault, issue the command 'snapvault start -r' to make SnapVault attempt to resynchronize the relationship. If the 'snapvault start -r' command cannot find a common snapshot, you must reestablish the relationship with the 'snapvault start' command. If you must reestablish a relationship, either run the baseline transfer to a new qtree, or remove the existing qtree before starting the transfer. Refer to the Data Protection Guide for details.

Syslog Message

%s: destination transfer from %s:%s to %s:%s : base snapshot for transfer no longer exists on the source.

Parameters

rtype (STRING): Replication type (SnapMirror, SnapVault, and so on.).
srcfiler (STRING): Replication source system.
srcpath (STRING): Replication source path.
dstfiler (STRING): Replication destination system.
dstpath (STRING): Replication destination path.
rplerror (STRING): Replication error message.
waflerror (STRING): WAFL® error.

replication.dst.resync.failed

Severity

ERROR

Description

This message occurs when a SnapMirror® or SnapVault® resync operation is not successful.

Corrective Action

See error message.

Syslog Message

%s resync of %s to %s:%s : %s.

Parameters

rtype (STRING): Replication type (SnapMirror, SnapVault, and so on.).
dstpath (STRING): Replication destination volume or qtree.
srcfiler (STRING): Replication source system.
srcpath (STRING): Replication source volume or qtree.
error (STRING): Error message.

replication.dst.resync.success

Severity

NOTICE

Description

This message occurs when a SnapMirror® or SnapVault® resync operation is successful.

Corrective Action

Operation successful; no corrective action required.

Syslog Message

%s resync of %s to %s:%s was successful.

Parameters

rtype (STRING): Replication type (SnapMirror, SnapVault, and so on.).
dstpath (STRING): Replication destination volume or qtree.
srcfiler (STRING): Replication source system.
srcpath (STRING): Replication source volume or qtree.

replication.dst.setACLError

Severity

ERROR

Description

This event occurs when ONTAP encounters an illegal data stream during a logical backup operation. This is usually due to an OSSV primary software bug. Normally OSSV sets an ACL (Access Control List) on a regular file or directory. However, as a result of this bug, OSSV attempts to set an ACL on an Alternate Data Stream (ADS) of a file or directory. See bug 148879 for details.

Corrective Action

(None).

Syslog Message

(None).

Parameters

src_base_inum (INT): The base inode number generated by the source. The source is trying to set an ACL on this inode, which happens to be a stream.
dst_base_inum (INT): The corresponding base inode number on the destination.

replication.dst.setACLFailed

Severity

ERROR

Description

This message occurs when ONTAP encounters an error while setting an ACL (Access Control List) for an inode on a SnapVault® or SnapMirror® destination. The replication transfer is aborted upon encountering this error.

Corrective Action

(None).

Syslog Message

Replication transfer from %s:%s to %s:%s: The destination failed to set ACL %d for source inode %d on destination inode %d. The replication transfer is aborted.

Parameters

srcfiler (STRING): Replication source system.
srcpath (STRING): Replication source path.
dstfiler (STRING): Replication destination system.
dstpath (STRING): Replication destination path.
acl_inode (INT): Inode number of the source ACL.
src_base_inum (INT): Base inode number generated by the source. The destination is trying to set an ACL on this inode.
dst_base_inum (INT): Corresponding base inode number on the destination.

replication.dst.throttleChange

Severity

NOTICE

Description

This event is issued when the replication source, receives a request from the destination to change the current throttle value.

Corrective Action

(None).

Syslog Message

Throttle value changed to %d Kbytes/s for destination %s:%s

Parameters

throttle (INT): The new throttle value.
dstfiler (STRING): The SnapMirror destination filer
dstpath (STRING): The SnapMirror destination volume or qtree

replication.dst.throttleChange.err

Severity

NOTICE

Description

This event is issued when the replication source, receives a request from the destination to change the current throttle value, but failed to complete the operation.

Corrective Action

(None).

Syslog Message

Failed to change throttle value to %d Kbytes/s for destination %s:%s : %s

Parameters

throttle (INT): The new throttle value.
dstfiler (STRING): The SnapMirror destination filer
dstpath (STRING): The SnapMirror destination volume or qtree
error (STRING): The error message

replication.dst.waflErr

Severity

ERROR

Description

This message occurs when the system detects an error on a SnapMirror® or SnapVault® destination volume or qtree due to WAFL®.

Corrective Action

(None).

Syslog Message

%s: destination transfer from %s:%s to %s : %s:%s.

Parameters

rtype (STRING): Replication type (SnapMirror, SnapVault, and so on.).
srcfiler (STRING): Replication source system.
srcpath (STRING): Replication source volume or qtree.
dstpath (STRING): Replication destination volume or qtree.
rplerror (STRING): Specific replication error message.
waflerror (STRING): Specific WAFL error message.

replication.err events

replication.err.snapCreateFailed

Severity

ERROR

Description

This message occurs when the replication engine fails to create an automatic snapshot.

Corrective Action

Make sure that the snapshot limit is not reached for the volume. The current ONTAP version allows a maximum of 255 snapshots per volume.

Syslog Message

%s transfer from %s:%s to %s:%s : %s.

Parameters

rtype (STRING): Replication type (SnapMirror, SnapVault, and so on.).
srcfiler (STRING): Replication source system.
srcpath (STRING): Replication source path.
dstfiler (STRING): Replication destination system.
dstpath (STRING): Replication destination path.
rplerror (STRING): Replication error message.
waflerror (STRING): WAFL® error message.

replication.givebackcancel events

replication.givebackCancel

Severity

ERROR

Description

This message occurs when a 'giveback' command is issued while a SnapMirror® or SnapVault® transfer is in progress.

Corrective Action

(None).

Syslog Message

%s transfer in progress or in-sync; canceling giveback.

Parameters

rtype (STRING): Replication type (SnapMirror, SnapVault, and so on.).

replication.global events

replication.global.throttle

Severity

NOTICE

Description

This event is issued when the request to change/set the throttling value for a replication association is failed. This is because the network layer does not support throttling traffic. This usually happens when the connection is going through a tcp offload device.

Corrective Action

(None).

Syslog Message

Failed to set global throttle value for transfer from %s:%s to %s:%s

Parameters

srcfiler (STRING): The replication source filer
srcpath (STRING): The replication src volume or qtree
dstfiler (STRING): The replication destination filer
dstpath (STRING): The replication destination volume or qtree

replication.lcl events

replication.lcl.noHostname

Severity

ERROR

Description

This message occurs when a SnapMirror® or SnapVault® transfer is started on a system without a host name.

Corrective Action

Configure the hostname on the indicated system before attempting a SnapMirror or SnapVault transfer operation.

Syslog Message

%s transfer could not be started because no host name is configured on this system.

Parameters

rtype (STRING): Replication type (SnapMirror, SnapVault, and so on).
srcfiler (STRING): Replication source system.
srcpath (STRING): Replication source path.
dstfiler (STRING): Replication destination system.
dstpath (STRING): Replication destination path.
rplerror (STRING): Replication error message.
waflerror (STRING): WAFL® error.

replication.nomemory events

replication.noMemory

Severity

ALERT

Description

This message occurs when there is insufficient memory for the replication transfer to continue.

Corrective Action

The system is out of memory. This could be a transient situation. Reduce the load on the system or defer the transfer.

Syslog Message

Replication transfer failed to allocate memory.

Parameters

file (STRING): File in which the software error occurred.
line (INT): Line number in the file for the software error.

replication.qtree events

replication.qtree.dst.disk.error

Severity

ALERT

Description

This message occurs when the replication destination engine receives blocks with disk errors from the source for the first time in a transfer and continues with replication.

Corrective Action

Contact NetApp technical support.

Syslog Message

SnapMirror: transfer from %s:%s to %s:%s: Source volume has disk errors. Continuing with replication. See /etc/log/snapmirror for inconsistency details.

Parameters

src_filer (STRING): Source filer of this replication transfer.
src_path (STRING): Source path of this replication transfer.
dst_filer (STRING): Destination filer of this replication transfer.
dst_path (STRING): Destination path of this replication transfer.

replication.qtree.dst.disk.error.abort

Severity

ERROR

Description

This message occurs when the replication destination engine receives blocks with disk errors from the source and aborts because of user-set options.

Corrective Action

Contact NetApp technical support.

Syslog Message

SnapMirror: transfer from %s:%s to %s:%s: Source volume has disk errors. (source fid:%u,source fbn:%u,source snapid:%u). Aborting transfer.

Parameters

src_filer (STRING): Source filer of this replication transfer.
src_path (STRING): Source path of this replication transfer.
dst_filer (STRING): Destination filer of this replication transfer.

dst_path (STRING): Destination path of this replication transfer.
sfileid (INT): Identifying number for the suspect file
sfbn (INT): File block number in which the disk error was found.
ssnapid (INT): Incremental snapshot of the source from which this file came.

replication.qtree.dst.disk.error.summary

Severity

ERROR

Description

This message occurs when the replication involving blocks with disk errors happens on the replication destination.

Corrective Action

Contact NetApp technical support.

Syslog Message

SnapMirror: transfer from %s:%s to %s:%s: Source volume has disk errors. %u blocks out of %u blocks replicated are inconsistent. See /etc/log/snapmirror for inconsistency details.

Parameters

src_filer (STRING): Source filer of this replication transfer.
src_path (STRING): Source path of this replication transfer.
dst_filer (STRING): Destination filer of this replication transfer.
dst_path (STRING): Destination path of this replication transfer.
total_bad_blks (INT): Total number of blocks with disk errors received.
total_blks (INT): Total number of blocks received.

replication.qtree.dst.inconsistent.acl

Severity

ERROR

Description

This message occurs when the replication destination engine receives an Access Control List (ACL) with disk errors from the source.

Corrective Action

Contact NetApp technical support.

Syslog Message

SnapMirror: transfer from %s:%s to %s:%s: Source volume has disk errors. (source acl fid:%u,source snapid:%u). Aborting transfer.

Parameters

src_filer (STRING): Source filer of this replication transfer.
src_path (STRING): Source path of this replication transfer.
dst_filer (STRING): Destination filer of this replication transfer.
dst_path (STRING): Destination path of this replication transfer.
sfileid (INT): Identifying number for the suspect ACL.
snapid (INT): Incremental snapshot of the source from which this ACL came.

replication.qtree.dst.inconsistent.symlink

Severity

ERROR

Description

This message occurs when the replication destination engine receives a symbolic link with disk errors from the source.

Corrective Action

Contact NetApp technical support.

Syslog Message

SnapMirror: transfer from %s:%s to %s:%s: Source volume has disk errors. (source symlink fid:%u,source snapid:%u). Aborting transfer.

Parameters

src_filer (STRING): Source filer of this replication transfer.
src_path (STRING): Source path of this replication transfer.
dst_filer (STRING): Destination filer of this replication transfer.
dst_path (STRING): Destination path of this replication transfer.
sfileid (INT): Identifying number for the suspect symbolic link.
snapid (INT): Incremental snapshot of the source from which this symbolic link came.

replication.regoperr events

replication.regOpErr

Severity

ERROR

Description

This message occurs when the system encounters an error during a registry operation related to SnapMirror® or SnapVault®.

Corrective Action

The reasons for the error cited in the error message might indicate ways to address the problem.

Syslog Message

Replication registry operation error: %s.

Parameters

reason (STRING): Reason for registry operation failure.

replication.resync events

replication.resync.cmnSnpCnt

Severity

NOTICE

Description

This message occurs during a SnapMirror® or SnapVault® resync operation to inform the user of the number of common snapshots detected between the source and destination.

Corrective Action

(None).

Syslog Message

Resynchronization of %s:%s to %s:%s found %d matching snapshots; using the most recent one.

Parameters

dstfiler (STRING): Replication destination system.
dstpath (STRING): Replication destination volume or qtree.
srcfiler (STRING): Replication source system.
srcpath (STRING): Replication source volume or qtree.
cmnsnapcnt (INT): Number of common snapshots detected between the source and destination.

replication.rmt events

replication.rmt.noHostname

Severity

ERROR

Description

This message occurs when the remote system of a SnapMirror® or SnapVault® transfer does not have a host name.

Corrective Action

Configure the host name on the remote system before attempting a SnapMirror or SnapVault transfer from that system.

Syslog Message

%s transfer from %s:%s to %s:%s cannot be started because the remote system does not have a host name.

Parameters

rtype (STRING): Replication type (SnapMirror, SnapVault, and so on).
srcfiler (STRING): Replication source system.
srcpath (STRING): Replication source path.
dstfiler (STRING): Replication destination system.
dstpath (STRING): Replication destination path.
rplerror (STRING): Replication error message.
waflerror (STRING): WAFL® error.

replication.src events

replication.src.err

Severity

ERROR

Description

This message occurs when the system detects an error on a SnapMirror® or SnapVault® source volume or qtree.

Corrective Action

(None).

Syslog Message

%s: source transfer from %s to %s:%s : %s.

Parameters

rtype (STRING): Replication type (SnapMirror, SnapVault, and so on.).
srcpath (STRING): Replication source volume or qtree.
dstfiler (STRING): Replication destination system.
dstpath (STRING): Replication destination volume or qtree.
error (STRING): Specific error message.

replication.src.inconsistent.snapmap

Severity

ERROR

Description

This message occurs when a replication source engine encounters a disk error in a snapmap block. Replication transfer will abort.

Corrective Action

Run wafliron as soon as possible, and then Contact NetApp technical support.

Syslog Message

WAFL metadata inconsistent due to disk errors in volume %s. The affected snapshot ID is %d (level: %d). Aborting transfer.

Parameters

volname (STRING): Aggregate, traditional volume, or flexible volume name.
snapid (INT): Snapshot ID.
level (INT): Buffer level.

replication.src.throttleChange

Severity

NOTICE

Description

This event is issued when the replication source, receives a request from the destination to change the current throttle value.

Corrective Action

(None).

Syslog Message

Throttle value changed to %d Kbytes/s for destination %s:%s

Parameters

throttle (INT): The new throttle value.
dstfiler (STRING): The SnapMirror destination filer
dstpath (STRING): The SnapMirror destination volume or qtree

replication.src.throttleChange.err

Severity

ERROR

Description

This event is issued when the replication source, receives a request from the destination to change the current throttle value, but failed to complete the operation.

Corrective Action

(None).

Syslog Message

Failed to change throttle value to %d Kbytes/s for destination %s:%s : %s

Parameters

throttle (INT): The new throttle value.
dstfiler (STRING): The SnapMirror destination filer
dstpath (STRING): The SnapMirror destination volume or qtree
error (STRING): The error message

replication.src.unknownCommand

Severity

NOTICE

Description

This event is issued when the replication source, SnapMirror or SnapVault, receives a request from the destination which it does not understand. This can be seen when changes are made to the negotiation phase internally during development. This error message should NEVER show up on customer builds.

Corrective Action

This message is normally seen after upgrading the source or the destination. ONTAP version mismatch between the source and destination can cause this. One should not see this problem if the source and destination filers are running the same version of ONTAP.

Syslog Message

Replication source received an unknown command from the destination. This might be due to ONTAP version mismatch between the source and destination.

Parameters

(None).

replication.stats events

replication.stats.notLoaded

Severity

INFORMATIONAL

Description

This message occurs during system boot when SnapMirror® or SnapVault® cannot load the statistics (for example. the number of transfers completed) from the registry. The statistics from the previous run of the system are lost and SnapMirror or SnapVault will start collecting the statistics from scratch.

Corrective Action

(None).

Syslog Message

%s could not load statistics from the registry.

Parameters

rtype (STRING): Replication type (SnapMirror, SnapVault, and so on.).

replication.stats.notSaved

Severity

INFORMATIONAL

Description

This message occurs when SnapMirror® or SnapVault® cannot save some statistics (for example. the number of transfers completed) in the registry at the end of a transfer. The operation is retried at the end of the next SnapMirror or SnapVault transfer.

Corrective Action

(None).

Syslog Message

%s could not save statistics to the registry.

Parameters

rtype (STRING): Replication type (SnapMirror, SnapVault, and so on.).

replication.status events

replication.status.timeSkewed

Severity

NOTICE

Description

This message occurs when the time skew between the source and destination system is greater than 1 minute.

Corrective Action

Use either the 'date' or 'rdate' command to synchronize the time between the systems.

Syslog Message

%s: Clock on source %s is ahead of destination system %s.

Parameters

rtype (STRING): Replication type (SnapMirror, SnapVault, and so on.).
srcfiler (STRING): The host name of the source system.
dstfiler (STRING): The host name of the destination system.

replication.upgrade events

replication.upgrade.complete

Severity

INFORMATIONAL

Description

This message occurs when post-upgrade operations for SnapMirror® and SnapVault®, as a part of ONTAP upgrade, are complete.

Corrective Action

(None).

Syslog Message

Post-upgrade operations for SnapMirror and SnapVault are complete.

Parameters

(None).

replication.vol events

replication.vol.activemapdelta.err

Severity

ERROR

Description

This message occurs when SnapMirror® or VolCopy replication encounters a disk error in the active map delta blocks on the destination and cannot continue replication.

Corrective Action

For a SnapMirror update operation, break the SnapMirror relation and then resynchronize the relation. For a VolCopy or SnapMirror Initialize operation, destroy the destination volume and retry the operation. If the problem persists, contact NetApp technical support.

Syslog Message

WAFL active map delta file is inconsistent due to disk errors '%s%s%s'. Aborting transfer.

Parameters

volname (STRING): Flexible volume name.
app (STRING): Application UUID.
volident (STRING): Volume unique identifier.

replication.vol.dst.disk.error

Severity

ERROR

Description

This message occurs when the replication destination engine receives the first disk error from the replication source in a transfer. Replication will continue. Subsequent disk errors encountered during this transfer will not trigger this event, but will be logged to /etc/log/snapmirror. A replication.vol.dst.disk.error.summary event is logged at the end of the transfer to report on the total number of errors encountered.

Corrective Action

Contact NetApp technical support.

Syslog Message

%s: %s: Source volume has disk errors. Continuing replication. See /etc/log/snapmirror for inconsistency details.

Parameters

rpltype (STRING): Replication type - SnapMirror, Aggr copy, Vol copy.
transfer_paths (STRING): Replication source path and destination path.

replication.vol.dst.disk.error.abort

Severity

ERROR

Description

This message occurs when the replication destination engine receives blocks with disk errors from the source Replication will abort because the user selected the option to abort on disk error.

Corrective Action

Contact NetApp technical support.

Syslog Message

%s: %s: Source volume has disk errors (vbn:%llu). Aborting transfer.

Parameters

rpltype (STRING): Replication type - SnapMirror, Aggr copy, Vol copy
transfer_paths (STRING): Replication source path and destination path
vbn (LONGINT): Volume Block Number

replication.vol.dst.disk.error.summary

Severity

ERROR

Description

This message occurs on the replication destination in a transfer that encounters disk errors. Details about the errors are in /etc/log/snapmirror.

Corrective Action

Contact NetApp technical support.

Syslog Message

%s: %s: Source volume has disk errors. %u blocks out of %llu blocks replicated are inconsistent. See /etc/log/snapmirror for inconsistency details.

Parameters

rpl_type (STRING): Replication type - SnapMirror, Aggr copy, Vol copy.
transfer_path (STRING): Replication source path and destination path.
total_bad_blocks (INT): Total number of blocks with disk errors replicated.
total_blocks (LONGINT): Total number of blocks replicated.

replication.vol.src.inconsistent.metadata

Severity

ALERT

Description

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

Corrective Action

If the specified snapshot IDs contain 0 (active file system), run wafliron to fix the active file system. To continue replication transfer, delete the specified snapshots during the next reboot, either by using the boot menu command 'boot_snap_delete' or by using the CLI command 'vol online -r'. Then contact NetApp technical support.

Syslog Message

%s: %s: WAFL metadata inconsistent due to disk errors. (vbn:%llu level:%u file_type:%d) The affected snapshot IDs are %s. Aborting transfer.

Parameters

rpltype (STRING): Replication type - SnapMirror, Aggr copy, Vol copy
transfer_paths (STRING): Replication source path and destination path.
vbn (LONGINT): Virtual Volume Block Number
level (INT): Buffer level.
file_type (INT): Inode type.
snapstring (STRING): String containing the list of snapshot IDs of the snapshots that have the inconsistent blocks.

replication.wormlog events

replication.wormlog.appendFail

Severity

ERROR

Description

This event is issued when failed to append to the replication worm log file. This can be seen when the worm log volume is full, or other hardware failure in the log volume.

Corrective Action

Check the free space and the sanity of the worm log volume. Add or replace hard disk for the worm log volume.

Syslog Message

Failed to append to the replication worm log: %s.

Parameters

error_msg (STRING): Error message for the failure.

replication.xfr events

replication.xfr.checksum.fail

Severity

ERROR

Description

This message occurs when a SnapMirror®/SnapVault(tm) operation is not completed because a block received from the source system failed checksum verification. This might be caused by corruption in the network stream that went undetected by the TCP checksum.

Corrective Action

Scheduled SnapMirror/SnapVault update operations are automatically retried and should succeed. However, if the problem persists, use the 'netstat -s' command to review the network statistics for TCP packets "discarded for bad checksums". If you find large numbers of such discards, diagnose the network between the source and destination systems for any problems. If TCP does not report any checksum errors and this problem still persists, contact NetApp technical support technical support.

Syslog Message

%s transfer from %s:%s to %s:%s : %s.

Parameters

rtype (STRING): Replication type (SnapMirror, SnapVault, and so on).
srcfiler (STRING): Replication source system.
srcpath (STRING): Replication source path.
dstfiler (STRING): Replication destination system.
dstpath (STRING): Replication destination path.
rplerror (STRING): Replication error message.
waflerror (STRING): WAFL® error.

replication.xfr.nonExistSnap

Severity

NOTICE

Description

A SnapMirror® or SnapVault(tm) operation was not completed because the specified snapshot could not be found. Any of the following scenarios can cause this event to occur: (1) The SnapVault schedules are configured incorrectly at the destination. (2) The 'snapmirror initialize' or 'snapmirror update' command was issued with the '-s' option, and the transfer cannot start. (3) The SnapVault or SnapMirror transfer cannot restart from a checkpoint.

Corrective Action

For scheduled SnapVault updates, ensure that the snapshot name on the destination volume and source volume is the same. For 'snapmirror initialize' or 'update' commands from a named snapshot, ensure that the requested snapshot exists on the source volume. For restarted SnapVault or SnapMirror transfers, run the 'snapmirror abort' or 'snapvault abort' command with the '-h' option before retrying the transfer.

Syslog Message

%s transfer from %s:%s to %s:%s : %s.

Parameters

rtype (STRING): Replication type (SnapMirror, SnapVault, and so on).
srcfiler (STRING): Replication source appliance.
srcpath (STRING): Replication source path.
dstfiler (STRING): Replication destination appliance.
dstpath (STRING): Replication destination path.
rplerror (STRING): Replication error message.
waflerror (STRING): WAFL® error.

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