flexcache events

ONTAP EMS reference

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flexcache events

flexcache.attrib events

flexcache.attrib.sync.failed

Severity

ALERT

Description

This message occurs when syncing properties between an origin of a FlexCache volume and its FlexCache volume fails, and due to which FlexCache volume may not be able to proceed with accurate data.

Corrective Action

Use the "volume flexcache sync-properties" command on the cluster hosting the FlexCache volume to sync the origin volume properties with the FlexCache volume.

Syslog Message

Failed to sync the FlexCache configuration for cluster %s in Vserver %s hosting FlexCache volume %s.

Parameters

cacheCluster (STRING): Name of the cluster hosting the FlexCache volume.
cacheVserver (STRING): Name of the Vserver hosting the FlexCache volume.
cacheVolName (STRING): Name of FlexCache volume for which sync failed.

flexcache.attrib.sync.passed

Severity

NOTICE

Description

This message occurs when origin of a FlexCache volume properties sync succeeds for all connected FlexCache volumes.

Corrective Action

(None).

Syslog Message

Sync of origin of a FlexCache volume %s in Vserver %s succeeded for all connected FlexCache volumes.

Parameters

originVolName (STRING): Origin of a FlexCache volume.
originVserver (STRING): Name of the Vserver hosting the origin of a FlexCache volume.

flexcache.attrib.sync.warn

Severity

NOTICE

Description

This message occurs when syncing properties between an origin of a FlexCache volume and its FlexCache volume fails, and the sync operation will be retried.

Corrective Action

Use the "volume flexcache sync-properties" command on the cluster hosting the FlexCache volume to sync the origin volume properties with the FlexCache volume.

Syslog Message

Failed to sync the FlexCache configuration for cluster %s in Vserver %s hosting FlexCache volume %s. Operation will be retried.

Parameters

cacheCluster (STRING): Name of the cluster hosting the FlexCache volume.
cacheVserver (STRING): Name of the Vserver hosting the FlexCache volume.
cacheVolName (STRING): Name of FlexCache volume for which sync failed.

flexcache.auto events

flexcache.auto.cache.config.cleanup

Severity

ALERT

Description

This message occurs when a FlexCache® configuration is deleted automatically on the FlexCache Origin cluster as the config refresh operation failed due to the FlexCache volume being deleted.

Corrective Action

(None).

Syslog Message

FlexCache configuration corresponding to FlexCache volume %s in Vserver with UUID %s on cluster with UUID %s has been deleted automatically as the config refresh operation failed due to the FlexCache volume being deleted. The FlexCache origin volume %s in Vserver with UUID %s has been cleaned up.

Parameters

cacheVolumeName (STRING): Name of the FlexCache volume.
cacheVserverUuid (STRING): Universal unique identifier (UUID) of the storage virtual machine (SVM) hosting the FlexCache volume.
cacheClusterUuid (STRING): UUID of the cluster hosting the FlexCache volume.
originVolumeName (STRING): Name of the FlexCache origin volume.
originVserverUuid (STRING): Universal unique identifier (UUID) of the storage virtual machine (SVM) hosting the FlexCache origin volume.

flexcache.cacheconnected events

flexcache.cacheConnected

Severity

INFORMATIONAL

Description

This message occurs when a FlexCache® origin volume establishes communication with its cache volume.

Corrective Action

No action required.

Syslog Message

FlexCache origin volume with Name %s MSID %lu on Vserver Name %s UUID %s is connected with FlexCache volume with Vserver UUID %s and MSID %lu.

Parameters

originVolumeName (STRING): Origin Volume name.
originMsid (LONGINT): Master data set identifier (MSID) of the origin volume.
originVserverName (STRING): Vserver name of the origin volume.
originVserverUuid (STRING): Vserver UUID of the origin volume.
cacheVserverUuid (STRING): Vserver UUID of the FlexCache volume.
cacheMsid (LONGINT): MSID of the FlexCache volume.

flexcache.cachedisconnected events

flexcache.cacheDisconnected

Severity

EMERGENCY

Description

This message occurs when a FlexCache® origin volume cannot communicate with its cache volume. The cache volume might therefore present stale data to its clients until the connection is reestablished.

Corrective Action

Verify that the origin volume can connect with the FlexCache volume. If both volumes are within the same cluster, check the health of the owning nodes by using the "system node show" command. If the volumes are on different clusters, ensure that the intercluster LIFs on each cluster can connect by using the "network ping" command.

Syslog Message

FlexCache origin volume with Name %s MSID %lu on Vserver Name %s UUID %s is disconnected from FlexCache volume with Vserver UUID %s and MSID %lu.

Parameters

originVolumeName (STRING): Origin Volume name.
originMsid (LONGINT): Master data set identifier (MSID) of the origin volume.
originVserverName (STRING): Vserver name of the origin volume.
originVserverUuid (STRING): Vserver UUID of the origin volume.
cacheVserverUuid (STRING): Vserver UUID of the FlexCache volume.
cacheMsid (LONGINT): MSID of the FlexCache volume.

flexcache.cfg events

flexcache.cfg.refresh.failed

Severity

ERROR

Description

This message occurs when a FlexCache® configuration refresh operation fails during cluster takeover or giveback, or when there is a connection state update triggered when origin or cache moves from connected state to disconnected state, or the other way round. Data access through FlexCache volumes might be impacted as a result.

Corrective Action

First, verify that the two SVMs in question are peered by using the "vserver peer show" command. Next, enter the "flexcache config-refresh -peer-vserver <peer-vserver> -peer-volume <peer-volume> -peer -endpoint-type <peer-endpoint-type>" command on a node within the cluster that directly manages the peer endpoint.

Syslog Message

FlexCache configuration refresh fails on peer SVM %s for peer volume %s and peer endpoint %s on cluster %s.

Parameters

peeredVserverUuid (STRING): Universal unique identifier (UUID) of the peered storage virtual machine (SVM).
peerVolumeName (STRING): Name of the peer volume.
peerEndPointType (STRING): Peer endpoint type.
clusterUuid (STRING): UUID of the cluster with the peer endpoint.
localVserverUuid (STRING): UUID of the local SVM.

flexcache.conf events

flexcache.conf.refreshFailed

Severity

ALERT

Description

This message occurs when FlexCache configuration refresh fails. If this event happens, FlexCache will not be able to reach to its origin which will cause FlexCache to serve only cached data. This message occurs at most once every 30 minutes.

Corrective Action

Use the "volume flexcache config-refresh" command on the cluster hosting the FlexCache volume to refresh the origin volume configuration on FlexCache volume.

Syslog Message

Failed to refresh FlexCache configuration for peer vserver UUID %s and peer volume MSID %lu. isPeerOrigin : %u.

Parameters

peerVserverUuid (STRING): Peer vserver UUID in string format for which refresh failed.
peerVolMsid (LONGINT): Peer volume MSID for which refresh failed.
isPeerOrigin (INT): Origin peer volume or cache peer volume for which refresh failed.

flexcache.config events

flexcache.config.sync.failed

Severity

ERROR

Description

This message occurs when the FlexCache volume expand operation fails to synchronize the FlexCache configuration information between the newly created constituent volume and the origin cluster.

Corrective Action

Use the "volume flexcache config-refresh" command on the origin cluster to update the FlexCache configuration.

Syslog Message

Volume expand failed to create the cache configuration for FlexCache volume "%s" in Vserver "%s" on the origin of the FlexCache cluster. Error: %s.

Parameters

cacheVolName (STRING): Name of the FlexCache volume.
cacheVserver (STRING): Name of the Vserver hosting the FlexCache volume.
errorString (STRING): Error string.

flexcache.encryption events

flexcache.encryption.mismatch.with.origin

Severity

ALERT

Description

This message occurs when a plaintext FlexCache volume has been created for an encrypted origin volume.

Corrective Action

(None).

Syslog Message

A plaintext FlexCache volume "%s" in Vserver "%s" has been created for origin volume "%s" in Vserver "%s".

Parameters

originVolumeName (STRING): Origin Volume Name.
cacheVolumeName (STRING): Cache Volume Name.
cacheVserverName (STRING): Cache Vserver Name.

originVserverName (STRING): Origin Vserver Name.

flexcache.featuredisabled events

flexcache.featureDisabled

Severity

ERROR

Description

This message occurs when an attempt is made to mount a FlexCache volume. FlexCache is no longer supported, please remove any remaining FlexCache volumes left over from upgrading the cluster.

Corrective Action

Delete all FlexCache volumes in the cluster. They can be displayed by using the "volume flexcache show" command.

Syslog Message

(None).

Parameters

volume (STRING): FlexCache volume involved.

flexcache.mcc events

flexcache.mcc.refresh.failed

Severity

ERROR

Description

This message occurs when a FlexCache® configuration refresh operation fails during MetroCluster(tm) switchover and switchback. Data access through FlexCache volumes might be impacted as a result.

Corrective Action

First, verify that the two Vservers in question are peered by using the "vserver peer show" command. Next, enter the "flexcache config-refresh -peer-server <peer-vserver> -peer-volume <peer-volume> -peer -endpoint-type <peer-endpoint-type>" command on a node within the cluster that directly manages the peer endpoint.

Syslog Message

FlexCache configuration refresh failed on peer Vserver %s for peer volume %s and peer endpoint %s on cluster %s.

Parameters

peeredVserverUuid (STRING): UUID of the peered Vserver.
peerVolumeName (STRING): Name of the peer volume.
peerEndPointType (STRING): Peer endpoint type.
clusterUuid (STRING): UUID of the cluster with the peer endpoint.
localVserverUuid (STRING): UUID of the local Vserver.

flexcache.name events

flexcache.name.sync.failed

Severity

ERROR

Description

This message occurs when the FlexCache® volume rename operation fails to synchronize the FlexCache name information to the origin cluster. Because of this failure, the "volume flexcache origin show-caches" command shows the old FlexCache volume name for the origin relationship.

Corrective Action

Use the "volume flexcache sync-properties" command on the FlexCache cluster to update the FlexCache name on the origin cluster. Make sure that the FlexCache cluster and the origin of the FlexCache cluster are running on the same ONTAP® build.

Syslog Message

Volume rename failed to update the new FlexCache volume "%s" on Vserver "%s" to the origin of the FlexCache cluster. Error: %s.

Parameters

cacheVolName (STRING): Name of the FlexCache volume.
cacheVserver (STRING): Name of the Vserver hosting the FlexCache volume.
errorString (STRING): Error string.

flexcache.origin events

flexcache.origin.config.sync.failed

Severity

ERROR

Description

This message occurs when the origin of the FlexCache volume expand operation fails to synchronize the configuration information between the newly created constituent volume and the FlexCache cluster.

Corrective Action

Use the "volume 'flexcache config-refresh' command on the FlexCache cluster to update the origin of the FlexCache configuration.

Syslog Message

Volume expand failed to create the origin configuration for the origin of the FlexCache volume "%s" in Vserver "%s" on the FlexCache cluster. Error: %s.

Parameters

originVolName (STRING): Name of the origin of the FlexCache volume.
cacheVserver (STRING): Name of the Vserver hosting the origin of the FlexCache volume.
errorString (STRING): Error string.

flexcache.origin.size.sync.failed.disconnected.mode

Severity

ERROR

Description

This message occurs when syncing the size property of the origin volume between an origin of a FlexCache volume and its FlexCache volume fails because the cluster containing the FlexCache volume is not reachable.

Corrective Action

Make sure that the cluster containing the FlexCache volume is reachable. Make sure that the FlexCache cluster and the origin of the FlexCache cluster are running on the same ONTAP® build.

Syslog Message

Failed to sync origin size property for FlexCache Cluster "%s". Error: %s

Parameters

originClusterUuid (STRING): Cache Cluster UUID.
errorString (STRING): Error string.

flexcache.origin.size.sync.failed.for.cache.cluster

Severity

ERROR

Description

This message occurs when syncing the size property of the origin volume between an origin of a FlexCache volume and its FlexCache volume fails because we encountered some error on the cluster containing the FlexCache volume.

Corrective Action

Look for an EMS on the cache cluster and take the corrective action needed. Make sure that the FlexCache cluster and the origin of the FlexCache cluster are running on the same ONTAP® build.

Syslog Message

Failed to sync origin size property for Cache Cluster "%s".

Parameters

cacheClusterUuid (STRING): Cache Cluster UUID.

flexcache.origin.size.sync.failed.for.cache.volume

Severity

ERROR

Description

This message occurs when syncing the size property of the origin volume between an origin of a FlexCache volume and its FlexCache volume fails, and the sync operation will be retried.

Corrective Action

Take the appropriate action depending on the error message. Make sure that the FlexCache cluster and the origin of the FlexCache cluster are running on the same ONTAP® build.

Syslog Message

Failed to sync origin size property for FlexCache volume "%s" in Vserver "%s". Error: %s.

Parameters

volumeName (STRING): Cache Volume Name.
vserverName (STRING): Cache Vserver Name.
errorString (STRING): Error string.

flexcache.origincleanup events

flexcache.origincleanup.fail

Severity

ERROR

Description

This message occurs when the origin of a FlexCache® volume cleanup job fails to clean up the origin volume. All future FlexCache operations on the origin volume will fail.

Corrective Action

Use the "volume flexcache origin cleanup-cache-relationship -force-retry true" command on the origin cluster to cleanup origin of a FlexCache volume. If the problem persists then contact technical support for assistance.

Syslog Message

Origin volume cleanup job failed to clean up the origin volume of the FlexCache volume %s in Vserver %s in the origin cluster %s.

Parameters

originVolName (STRING): Name of the origin volume of the FlexCache volume.
originVserver (STRING): Name of the Vserver hosting the origin of a FlexCache volume.
originClusterUuid (STRING): UUID of the origin cluster of a FlexCache volume.

flexcache.origincleanup.retry

Severity

ERROR

Description

This message occurs when the RAL cleanup at the origin volume of a FlexCache® volume fails due to timeout. All future FlexCache operations on the origin volume will fail.

Corrective Action

Use the "volume flexcache origin cleanup-cache-relationship -force-retry true" command on the origin cluster to cleanup origin of a FlexCache volume. If the problem persists then contact technical support for assistance.

Syslog Message

RAL cleanup incomplete for the origin volume of the FlexCache volume %s in Vserver %s.

Parameters

originVolName (STRING): Name of the origin volume of the FlexCache volume.
originVserver (STRING): Name of the Vserver hosting the origin of a FlexCache volume.

flexcache.originconnected events

flexcache.originConnected

Severity

INFORMATIONAL

Description

This message occurs when a FlexCache® volume establishes communication with its origin volume.

Corrective Action

No action required.

Syslog Message

FlexCache volume with Name %s MSID %lu on Vserver Name %s UUID %s is connected with its origin volume with Vserver UUID %s and MSID %lu.

Parameters

cacheVolumeName (STRING): Volume Name of the FlexCache volume.
cacheMsid (LONGINT): MSID of the FlexCache volume.
cacheVserverName (STRING): Vserver Name of the FlexCache volume.
cacheVserverUuid (STRING): Vserver UUID of the FlexCache volume.
originVserverUuid (STRING): Vserver UUID of the origin volume.
originMsid (LONGINT): Master data set identifier (MSID) of the origin volume.

flexcache.origindisconnected events

flexcache.originDisconnected

Severity

EMERGENCY

Description

This message occurs when a FlexCache® volume cannot communicate with its origin volume. The cache volume might therefore present stale data to its clients. Client I/O to the cache volume might also not appear to respond if the client is requesting data that has not been cached.

Corrective Action

Verify that the FlexCache volume can connect with its origin volume. If both volumes are within the same cluster, check the health of the owning nodes by using the "system node show" command. If the volumes are on different clusters, ensure that the intercluster LIFs on each cluster can connect by using the "network ping" command.

Syslog Message

FlexCache volume with Name %s MSID %lu on Vserver Name %s UUID %s is disconnected from its origin volume with Vserver UUID %s and MSID %lu.

Parameters

cacheVolumeName (STRING): Volume Name of the FlexCache volume.
cacheMsid (LONGINT): MSID of the FlexCache volume.
cacheVserverName (STRING): Vserver Name of the FlexCache volume.
cacheVserverUuid (STRING): Vserver UUID of the FlexCache volume.
originVserverUuid (STRING): Vserver UUID of the origin volume.
originMsid (LONGINT): Master data set identifier (MSID) of the origin volume.

flexcache.originfull events

flexcache.originFull

Severity

ALERT

Description

This message occurs when a FlexCache® origin volume cannot serve data to cache volume because origin volume is full. The cache volume might therefore not be able to serve data to its clients until the origin has free space.

Corrective Action

Ensure that the origin volume has free space.

Syslog Message

FlexCache origin volume with Name %s MSID %lu on Vserver Name %s UUID %s may not be able to serve data to FlexCache volume with Vserver UUID %s and MSID %lu because origin volume is full.

Parameters

originVolumeName (STRING): Origin Volume name.
originMsid (LONGINT): Master data set identifier (MSID) of the origin volume.
originVserverName (STRING): Vserver name of the origin volume.
originVserverUuid (STRING): Vserver UUID of the origin volume.
cacheVserverUuid (STRING): Vserver UUID of the FlexCache volume.
cacheMsid (LONGINT): MSID of the FlexCache volume.

flexcache.originfull_1 events

flexcache.originFull_1

Severity

ALERT

Description

This message occurs when a FlexCache® volume cannot retrieve data from its origin volume because origin volume is full. Client I/O to the cache volume might not appear to respond if the client is requesting data that has not been cached.

Corrective Action

Ensure that the origin volume has free space.

Syslog Message

FlexCache volume with Name %s MSID %lu on Vserver Name %s UUID %s may not be able to retrieve data from its origin volume with Vserver UUID %s and MSID %lu because origin volume is full.

Parameters

cacheVolumeName (STRING): Volume Name of the FlexCache volume.
cacheMsid (LONGINT): MSID of the FlexCache volume.
cacheVserverName (STRING): Vserver Name of the FlexCache volume.
cacheVserverUuid (STRING): Vserver UUID of the FlexCache volume.
originVserverUuid (STRING): Vserver UUID of the origin volume.
originMsid (LONGINT): Master data set identifier (MSID) of the origin volume.

flexcache.softevict events

flexcache.softEvict.failed

Severity

ERROR

Description

This message occurs when soft evicting a cache volume fails. The cache volume might therefore present stale data to its clients.

Corrective Action

(None).

Syslog Message

Soft eviction of constituent DSID %lu failed.

Parameters

constituentDsid (LONGINT): Constituent's DSID.

flexcache.softEvict.success

Severity

INFORMATIONAL

Description

This message occurs on successfully soft evicting the cache volume.

Corrective Action

No Action Required.

Syslog Message

Constituent DSID %lu is successfully soft evicted.

Parameters

constituentDsid (LONGINT): Constituent's DSID.

flexcache.svmdr events

flexcache.svmdr.ecv.warn

Severity

ERROR

Description

This message occurs when FlexCache volumes residing on a cluster are not notified about origin vserver going through SVMDR FO/FB events because ECV of FlexCache cluster is less than 9.18.1.

Corrective Action

Update the cluster version of %s to 9.18.1 or above.

Syslog Message

ECV of FlexCache cluster(%s) is not eligible to receive notifications related to origin vserver %s going through SVMDR FO/FB events.

Parameters

clusterName (STRING): Name of the cluster hosting the FlexCache volume.
originVserver (STRING): Name of the Origin Vserver.

flexcache.svmdr.notification.clus.failed

Severity

ERROR

Description

This message occurs when FlexCache volumes residing on a cluster are not notified about origin vserver going through SVMDR FO/FB events.

Corrective Action

Use the 'volume flexcache origin svmdr-origin-refresh' command to update the origin details for given FlexCache vserver and FlexCache volume.

Syslog Message

FlexCache SVM_DR notification call has failed for FlexCache cluster %s, Origin Vserver:%s. Error: %s.

Parameters

clusterName (STRING): Name of the cluster hosting the FlexCache volume.
originVserver (STRING): Name of the Origin Vserver.
errorString (STRING): Error string.

flexcache.svmdr.notification.failed

Severity

ERROR

Description

This error message occurs when the SVM-DR operation for the FlexCache volume fails.

Corrective Action

Use the 'volume flexcache origin svmdr-origin-refresh' command to update the origin details for given FlexCache vserver and FlexCache volume.

Syslog Message

FlexCache SVM_DR notification call has failed for FlexCache cluster %s, FlexCache Vserver:%s, FlexCache Volume:%s. Error: %s.

Parameters

clusterName (STRING): Name of the cluster hosting the FlexCache volume.
cacheVserver (STRING): Name of the Vserver hosting the FlexCache volume.
cacheVolName (STRING): Name of the FlexCache volume.
errorString (STRING): Error string.

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