



aps events

ONTAP EMS reference

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Table of Contents

- aps events 1
- aps.aggr events 1
- aps.aggr.full.advisory 1
- aps.aggr.full.automatic 1
- aps.all events 2
- aps.all.aggrs.full 2
- aps.rebal events 2
- aps.rebal.perf.advise 2
- aps.rebal.perf.auto 3
- aps.rebal.perf.evac 3
- aps.rebal.perf.evac.fail 3
- aps.rebal.perf.evac.success 4
- aps.rebal.perf.evac.vol.move 4
- aps.rebal.perf.failed 5
- aps.rebal.perf.move.failed 5
- aps.rebal.perf.noHomeNode 5
- aps.rebal.perf.noroom 6
- aps.rebalance events 6
- aps.rebalance.failed 6
- aps.rebalance.move.failed 7

aps events

aps.aggr events

aps.aggr.full.advisory

Severity

ALERT

Description

This message occurs when the space rebalancing service detects that a flexaggr is at risk of running out of space over the next space exhaustion window.

Corrective Action

Use the "volume move start -vserver vsname -volume volname -destination-aggregate aggrname" command to manually move the volumes and free up space in the flexaggr. The command will be available in diag level. For further assistance, contact NetApp technical support.

Syslog Message

The flexaggr "%s" will run out of space over the next space exhaustion window of "%s". "%s".

Parameters

flexaggr (STRING): Name of the flexaggr.

space_exhaustion_window (STRING): Space exhaustion window duration.

message (STRING): Message describes which volumes should be moved to another flexaggr to free up space. The system picks sufficient number of volumes with low load to be moved to flexaggrs that have enough space.

aps.aggr.full.automatic

Severity

NOTICE

Description

This message occurs when the space rebalancing service detects that a flexaggr is at risk of running out of space over the next space exhaustion window. This service will automatically move volumes to another flexaggr to make space.

Corrective Action

The volumes will be automatically moved from the flexaggr to free up space. Use the "volume move show" command to monitor the status of volume moves. For further assistance, contact NetApp technical support.

Syslog Message

The flexaggr "%s" will run out of space over the next space exhaustion window of "%s". The volumes will be automatically moved from the flexaggr to free up space. "%s".

Parameters

flexaggr (STRING): Name of the flexaggr.

space_exhaustion_window (STRING): Space exhaustion window duration.

message (STRING): Message describes which volumes will be moved to another flexaggr to free up space.

The system picks sufficient number of volumes with low load that will be moved to flexaggrs that have enough space.

aps.all events

aps.all.aggrs.full

Severity

ALERT

Description

This message occurs when the space rebalancing service detects that all flexaggrs in the HA Pair are at risk of running out of space over the next space exhaustion window.

Corrective Action

For further assistance, contact NetApp technical support.

Syslog Message

All flexaggrs "%s" in the HA Pair will run out of space over the next space exhaustion window of "%s".

Parameters

flexaggrs (STRING): Name of the flexaggrs.

exhaustion_window (STRING): Space exhaustion window duration.

aps.rebal events

aps.rebal.perf.advise

Severity

NOTICE

Description

This message occurs when the performance rebalancing service detects that a node is at risk in an advisory mode. This service will suggest to move volumes to another node to keep the node utilization under the maximum permissible threshold.

Corrective Action

(None).

Syslog Message

The Node "%s" has exceeded the utilization threshold of %d%%. The volume(s) must be moved from the node to free up utilization. %s.

Parameters

node (STRING): Name of the node at risk.

node_utilization_threshold (INT): Node utilization threshold.

volume (STRING): Volume names and their destination nodes and aggregates.

aps.rebal.perf.auto

Severity

NOTICE

Description

This message occurs when the performance rebalancing service detects that a node is at risk in an automated mode. This service will automatically move volumes to another node to keep the node utilization under the maximum permissible threshold.

Corrective Action

(None).

Syslog Message

The Node "%s" has exceeded the utilization threshold of %d%%. The volume(s) will be automatically moved from the node to free up utilization. %s.

Parameters

node (STRING): Name of the node at risk.

node_utilization_threshold (INT): Node utilization threshold.

volume (STRING): Volume names and their destination nodes and aggregates.

aps.rebal.perf.evac

Severity

NOTICE

Description

This message occurs when the performance rebalancing service initiates an evacuation of an aggregate by moving all of its volumes.

Corrective Action

(None).

Syslog Message

The performance rebalancing service is evacuating aggregate "%s". The following volumes will be moved: %s.

Parameters

aggregate (STRING): Name of the aggregate.

volumes (STRING): The names of the volumes that will be moved as part of the evacuation.

aps.rebal.perf.evac.fail

Severity

ERROR

Description

This message occurs when the performance rebalancing service is unable to evacuate an aggregate.

Corrective Action

Use the (privilege: diag) "volume move start -vserver vsname -volume volname -destination-aggregate aggrname" command to manually move the volumes.

Syslog Message

The performance rebalancing service failed to evacuate aggregate "%s" because the following volumes could not be moved: %s.

Parameters

aggregate (STRING): Name of the aggregate.

volumes (STRING): Names of the volumes for which the move failed.

aps.rebal.perf.evac.success

Severity

NOTICE

Description

This message occurs when the performance rebalancing service successfully evacuates an aggregate.

Corrective Action

(None).

Syslog Message

The performance rebalancing service successfully evacuated aggregate "%s".

Parameters

aggregate (STRING): Name of the aggregate.

aps.rebal.perf.evac.vol.move

Severity

NOTICE

Description

This message occurs when the performance rebalancing service moves volumes from an aggregate during the evacuation process. The overall evacuation result is reported by aps.rebal.perf.evac.success or aps.rebal.perf.evac.fail events.

Corrective Action

(None).

Syslog Message

While evacuating the aggregate "%s", the following volumes will be moved : %s.

Parameters

aggregate (STRING): Name of the aggregate.

destination_aggregates (STRING): Names of the volumes being moved, destination aggregates and SVMs.

aps.rebal.perf.failed

Severity

ERROR

Description

This message occurs when the performance rebalancing service is unable to bring average utilization for a node below the node utilization threshold. This situation can arise if the available nodes with utilization below the threshold are either already near the threshold themselves, or if they have already reached their limit for volume moves.

Corrective Action

For further assistance, contact NetApp technical support.

Syslog Message

Performance rebalancing service failed to bring average node utilization for node(s) "%s" below node utilization threshold of %d%%.

Parameters

nodes (STRING): Name of the nodes.

node_utilization_threshold (INT): Node utilization threshold.

aps.rebal.perf.move.failed

Severity

ERROR

Description

This message occurs when the performance rebalancing service attempts to reduce node utilization below the configured threshold, but encounters an error while moving the volume to another node.

Corrective Action

Use the (privilege: diag) "volume move start -vserver vsname -volume volname -destination-aggregate aggrname" command to manually move the volumes and free up utilization in the node. For further assistance, contact NetApp technical support.

Syslog Message

Performance rebalance service failed to move the volume "%s" to aggregate "%s". Reason: %s.

Parameters

volume (STRING): Name of the volume.

aggregate (STRING): Name of the aggregate to which the performance rebalancing service attempted to move the volume.

error (STRING): The error that the performance rebalancing service encountered during the volume move.

aps.rebal.perf.noHomeNode

Severity

NOTICE

Description

This message occurs when the performance rebalancing service needs to move all volumes that can be moved from the aggregate because the home node of that aggregate is no longer available.

Corrective Action

(None).

Syslog Message

The performance rebalancing service is moving eligible volumes from aggregate "%s" because the home node is no longer available. The following volumes will be moved: %s.

Parameters

aggregate (STRING): Name of the aggregate.

volumes (STRING): The names of the volumes that will be moved due to the home node unavailability condition.

aps.rebal.perf.noroom

Severity

ALERT

Description

This message occurs when the performance rebalancing service attempts to reduce node utilization below the configured threshold, but cannot proceed because all nodes have already exceeded the utilization threshold.

Corrective Action

For further assistance, contact NetApp technical support.

Syslog Message

All nodes "%s" in the cluster have average node utilization above node utilization threshold of %d%%.

Parameters

nodes (STRING): Name of the nodes.

node_utilization_threshold (INT): Node utilization threshold.

aps.rebalance events

aps.rebalance.failed

Severity

ERROR

Description

This message occurs when the space rebalancing service encounters an error and fails to free up space on the flexaggr.

Corrective Action

For further assistance, contact NetApp technical support.

Syslog Message

Space rebalance service failed to free up space on flexaggr "%s".

Parameters

flexaggr (STRING): Name of the flexaggr.

aps.rebalance.move.failed

Severity

ERROR

Description

This message occurs when the space rebalancing service encounters an error while moving the volume.

Corrective Action

Use the "volume move start -vserver vsname -volume volname -destination-aggregate aggrname" command to manually move the volumes and free up space in the flexaggr. The command will be available in diag level. For further assistance, contact NetApp technical support.

Syslog Message

Space rebalance service failed to move volume "%s". Reason: "%s".

Parameters

volume (STRING): Name of the volume.

error (STRING): The error that the space rebalancing service encountered during the volume move.

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