# autobalance commands

## ONTAP commands

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# autobalance commands

# autobalance aggregate commands

## autobalance aggregate show-aggregate-state

Display the Auto Balance Aggregate state for an aggregate

**Availability:** This command is available to *cluster* administrators at the *advanced* privilege level.

### Description

The `autobalance aggregate show-aggregate-state` command displays information about an aggregate state that is considered by the Auto Balance Aggregate feature.

### Parameters

**{ [-fields <fieldname>,…]**

If you specify the `-fields <fieldname>, …` parameter, the command output also includes the specified field or fields. You can use '-fields ?' to display the fields to specify.

**| [-instance ] }**

If you specify the `-instance` parameter, the command displays detailed information about all fields.

**[-node {<nodename>|local}] - Node Name (privilege: advanced)**

If this parameter is specified, the display will be limited to only those aggregates with a node that matches the specified value.

**[-aggregate <aggregate name>] - Name of the Aggregate (privilege: advanced)**

If this parameter is specified, the display will be limited to only that aggregate with a name that matches the specified value.

**[-total-size {<integer>[KB|MB|GB|TB|PB]}] - Total Size of the Aggregate (privilege: advanced)**

If this parameter is specified, the display will be limited to only those aggregates with a total-size that matches the specified value.

**[-used-size {<integer>[KB|MB|GB|TB|PB]}] - Used Size of the Aggregate (privilege: advanced)**

If this parameter is specified, the display will be limited to only those aggregates with a used-size that matches the specified value.

**[-aggregate-unbalanced-threshold {<integer>[KB|MB|GB|TB|PB]}] - Threshold When Aggregate Is Considered Unbalanced (privilege: advanced)**

If this parameter is specified, the display will be limited to only those aggregates with a threshold that matches the specified value.

**[-outgoing-size {<integer>[KB|MB|GB|TB|PB]}] - Size of Outgoing Volumes in the Aggregate (privilege: advanced)**

If this parameter is specified, the display will be limited to only those aggregates with an outgoing-size that matches the specified value. Outgoing size will be equal to the total size of the volumes that move away from each one of those aggregate.

**[-incoming-size {<integer>[KB|MB|GB|TB|PB]}] - Size of Incoming Volumes in the Aggregate (privilege: advanced)**

If this parameter is specified, the display will be limited to only those aggregates with an incoming-size that matches the specified value. Incoming size will be equal to the total size of the volumes that move towards to each one of those aggregates.

**[-raidtype {raid_tec|raid_dp|raid4|raid_ep}] - RAID Type (privilege: advanced)**

If this parameter is specified, the display will be limited to only those aggregates with a raidtype that matches the specified value.

**[-home-cluster <UUID>] - Home Cluster ID (privilege: advanced)**

If this parameter is specified, the display will be limited to only those aggregates with a home-cluster ID that matches the specified value.

**[-is-hybrid {true|false}] - Aggregate Is a Hybrid (privilege: advanced)**

If this parameter is specified as true, the display will be limited to only hybrid aggregates. If the parameter is specified as false, the display will be limited to only non-hybrid aggregates.

**[-is-incoming-volume-thin {true|false}] - An Incoming Volume Is Thin (privilege: advanced)**

When you use thin provisioning for a volume, it can run out of space even if it has not yet consumed its nominal size and you should carefully monitor space utilization to avoid unexpected errors due to the volume running out of space. If this parameter is specified as true, the display will be limited to only those aggregates which are the target of a move of thin volume. If the parameter is specified as false, the display will be limited to only those aggregates which are not the target of a move of thin volume.

**[-is-balanceable {true|false}] - Is Balanceable (privilege: advanced)**

If this parameter is specified as true, the display will be limited to only balanceable aggregates. If the parameter is specified as false, the display will be limited to only non-balanceable aggregates.

**[-is-move-target {true|false}] - Aggregate Is a Volume Move Target (privilege: advanced)**

If this parameter is specified as true, the display will be limited to only those aggregates which are target of a volume move. If the parameter is specified as false, the display will be limited to only those aggregates which are not the target of a volume move.

**[-attributes <text>,…] - Aggregate Attributes (privilege: advanced)**

If this parameter is specified, the display will be limited to only those aggregates with attributes that matches the specified values.

**[-aggregate-available-threshold {<integer>[KB|MB|GB|TB|PB]}] - Threshold When Aggregate Is Considered Balanced (privilege: advanced)**

If this parameter is specified, the display will be limited to only those aggregates which meet the specified threshold to be considered as balanced.

## Examples

The following example displays information about the state for all aggregates in the cluster.

```
cluster1::*> autobalance aggregate show-aggregate-state
                          Aggregate: aggr0
                         Total Size: 4.78GB
                          Used Size: 4.56GB
                      Outgoing Size: 0B
                      Incoming Size: 0B
     Aggregate Used Space Threshold: 3.34GB
Aggregate Available Space Threshold: 1.91GB
                          RAID Type: raid_dp
                    Home Cluster ID: edf0379b-16da-11e6-aa3c-0050568558c2
                         Attributes: CFO
                                     Excluded
                                     Mroot
Aggregate: aggr_1
                         Total Size: 12.61GB
                          Used Size: 111.6MB
                      Outgoing Size: 0B
                      Incoming Size: 0B
     Aggregate Used Space Threshold: 8.83GB
Aggregate Available Space Threshold: 5.04GB
                          RAID Type: raid4
                    Home Cluster ID: edf0379b-16da-11e6-aa3c-0050568558c2
                         Attributes: Excluded
```

The following example displays information about all entries of the aggregate state, for all aggregates in the cluster.

```
cluster1::*> autobalance aggregate show-aggregate-state -instance
                                        Node Name: cluster-1-01
                              Name of the Aggregate: aggr0
                         Total Size of the Aggregate: 4.78GB
                          Used Size of the Aggregate: 4.56GB
Threshold When Aggregate Is Considered Unbalanced: 3.34GB
        Size of Outgoing Volumes in the Aggregate: 0B
        Size of Incoming Volumes in the Aggregate: 0B
                                        RAID Type: raid_dp
                                   Home Cluster ID: edf0379b-16da-11e6-
aa3c-0050568558c2
                              Aggregate Is a Hybrid: false
                       An Incoming Volume Is Thin: false
                                   Is Balanceable: false
                  Aggregate Is a Volume Move Target: false
                               Aggregate Attributes: CFO
                                                     Excluded
                                                     Mroot
  Threshold When Aggregate Is Considered Balanced: 1.91GB
Node Name: cluster-1-01
                              Name of the Aggregate: aggr_1
                         Total Size of the Aggregate: 12.61GB
                          Used Size of the Aggregate: 111.6MB
Threshold When Aggregate Is Considered Unbalanced: 8.83GB
        Size of Outgoing Volumes in the Aggregate: 0B
        Size of Incoming Volumes in the Aggregate: 0B
                                        RAID Type: raid4
                                   Home Cluster ID: edf0379b-16da-11e6-
aa3c-0050568558c2
                              Aggregate Is a Hybrid: false
                       An Incoming Volume Is Thin: false
                                   Is Balanceable: false
                  Aggregate Is a Volume Move Target: false
                               Aggregate Attributes: Excluded
  Threshold When Aggregate Is Considered Balanced: 5.04GB
```

## autobalance aggregate show-unbalanced-volume-state

Display the Auto Balance Aggregate state for a volume

**Availability:** This command is available to *cluster* administrators at the *advanced* privilege level.

### Description

The `autobalance aggregate show-unbalanced-volume-state` command displays information about a volume that is considered by the Auto Balance Aggregate feature.

### Parameters

**{ [-fields <fieldname>,…]**

If you specify the `-fields <fieldname>, …` parameter, the command output also includes the specified field or fields. You can use '-fields ?' to display the fields to specify.

**| [-instance ] }**

If you specify the `-instance` parameter, the command displays detailed information about all fields.

**[-node {<nodename>|local}] - Node Name (privilege: advanced)**

If this parameter is specified, the display will be limited to only those volumes with a node that matches the specified value.

**[-DSID <integer>] - DSID of the Last Volume Queried (privilege: advanced)**

If this parameter is specified, the display will be limited to only those volumes with a DSID that matches the specified value.

**[-aggregate <aggregate name>] - Aggregate (privilege: advanced)**

If this parameter is specified, the display will be limited to only those volumes with an aggregate name that matches the specified value.

**[-volume-name <text>] - Name of the Volume (privilege: advanced)**

If this parameter is specified, the display will be limited to only that volume with a name that matches the specified value.

**[-last-threshold-crossed-time <MM/DD/YYYY HH:MM:SS>] - Last Time Threshold Crossed (privilege: advanced)**

If this parameter is specified, the display will be limited to only those volumes with a threshold crossing time that matches the specified value.

**[-last-placed-time <MM/DD/YYYY HH:MM:SS>] - Last Time Volume Was Moved (privilege: advanced)**

If this parameter is specified, the display will be limited to only those volumes with a last time they have been moved that matches the specified value.

**[-is-moving {true|false}] - Is Volume Currently Moving (privilege: advanced)**

If this parameter is specified as true, the display will be limited to only the moving volumes. If the parameter is specified as false, the display will be limited to only the non-moving volumes.

**[-is-quiesced {true|false}] - Is Volume Quiesced (privilege: advanced)**

If this parameter is specified as true, the display will be limited to only the quiesced volumes. If the parameter is specified as false, the display will be limited to only the non-quiesced volumes.

**[-total-footprint {<integer>[KB|MB|GB|TB|PB]}] - Total Size of the Volume (privilege: advanced)**

If this parameter is specified, the display will be limited to only those volumes with a total footprint that matches the specified value.

**[-attributes <text>,…] - Volume's Attributes (privilege: advanced)**

If this parameter is specified, the display will be limited to only those volumes with attributes that matches the specified value.

**[-last-checked <MM/DD/YYYY HH:MM:SS>] - Last Time Volume State Was Checked (privilege: advanced)**

If this parameter is specified, the display will be limited to only those volumes with a last time their state was checked that matches the specified value.

### Examples

The following example display information about all of the unbalanced volumes that the Auto Balance Aggregate feature is aware of.

```
cluster1::*> autobalance aggregate show-unbalanced-volume-state
              Last Checked On: 3/13/2014 14:32:01
Volume: ro10
                    Footprint: 20.20MB
Last Time Over IOPS Threshold: 3/12/2014 16:20:18
                  Last Placed: 3/11/2014 10:16:04
                   Attributes: Over IOPS Threshold
                               Stabilizing
Volume: test
                    Footprint: 20.20MB
Last Time Over IOPS Threshold: 3/12/2014 16:20:18
                  Last Placed: 3/11/2014 10:16:42
                   Attributes: Over IOPS Threshold
                               In Mirror
                               Stabilizing
```

The following example displays all of the information that the Auto Balance Aggregate feature has collected for all of the unbalanced volumes it is aware of.

```
cluster1::*> autobalance aggregate show-unbalanced-volume-state -instance
                          Node Name: cluster-1-01
   DSID of the Last Volume Queried: 1025
                          Aggregate: aggr_1
                Name of the Volume: ro10
       Last Time Threshold Crossed: 3/12/2014 16:20:18
        Last Time Volume Was Moved: 3/11/2014 10:16:04
        Is Volume Currently Moving: false
                Is Volume Quiesced: false
          Total Size of the Volume: 20.20MB
               Volume's Attributes: Over IOPS Threshold
                                    Stabilizing
Last Time Volume State Was Checked: 3/13/2014 08:20:18
Node Name: cluster-1-01
   DSID of the Last Volume Queried: 1026
                          Aggregate: aggr_1
                Name of the Volume: test
       Last Time Threshold Crossed: 3/12/2014 16:20:18
        Last Time Volume Was Moved: 3/11/2014 10:16:42
        Is Volume Currently Moving: false
                Is Volume Quiesced: false
          Total Size of the Volume: 20.20MB
               Volume's Attributes: Over IOPS Threshold
                                    In Mirror
                                    Stabilizing
Last Time Volume State Was Checked: 3/13/2014 08:20:18
```

## autobalance aggregate config modify

### Modify the Auto Balance Aggregate feature configuration

**Availability:** This command is available to *cluster* administrators at the *advanced* privilege level.

#### Description

The `autobalance aggregate config modify` command allows the user to customize the parameters that determine when volumes should be considered for automatic move or recommendation by the Auto Balance Aggregate feature.

#### Parameters

**`[-is-enabled {true|false}]` - Is the Auto Balance Aggregate Feature Enabled (privilege: advanced)**

This specifies whether the Auto Balance Aggregate feature is enabled and running.

**[-aggregate-unbalanced-threshold-percent <integer>] - Threshold When Aggregate Is Considered Unbalanced (%) (privilege: advanced)**

This specifies the space used threshold percentage that will cause the Auto Balance Aggregate feature to consider an aggregate as unbalanced.

**[-aggregate-available-threshold-percent <integer>] - Threshold When Aggregate Is Considered Balanced (%) (privilege: advanced)**

This specifies the threshold percentage which will determine if an aggregate is a target destination for a move. The Auto Balance Aggregate feature will attempt to move volumes from an unbalanced aggregate until it is under this percentage.

#### Examples

The following example displays a modification for the default configuration of the Auto Balance Aggregate feature

```
cluster1::*> autobalance aggregate config show
                  Is the Auto Balance Aggregate Feature Enabled: false
          Threshold When Aggregate Is Considered Unbalanced (%): 70
            Threshold When Aggregate Is Considered Balanced (%): 40
cluster1::*> autobalance aggregate config modify -is-enabled true
cluster1::*> autobalance aggregate config show
                  Is the Auto Balance Aggregate Feature Enabled: true
          Threshold When Aggregate Is Considered Unbalanced (%): 70
            Threshold When Aggregate Is Considered Balanced (%): 40
```

## autobalance aggregate config show

### Display the Auto Balance Aggregate feature configuration

**Availability:** This command is available to *cluster* administrators at the *advanced* privilege level.

#### Description

The `autobalance aggregate config show` command displays information about parameters that determine when volumes should be considered for automatic move or recommendation by the Auto Balance Aggregate feature.

#### Examples

The following example displays the default configuration for the Auto Balance Aggregate feature

```
cluster1::*> autobalance aggregate config show
              Is the Auto Balance Aggregate Feature Enabled: false
      Threshold When Aggregate Is Considered Unbalanced (%): 70
        Threshold When Aggregate Is Considered Balanced (%): 40
```

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