



## **vol events**

### ONTAP EMS reference

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# vol events

## vol.clone events

### vol.clone.split.optimized

#### Severity

NOTICE

#### Description

This message occurs when the clone split of a volume clone takes the optimized path which uses an Azure copy blob operation to copy objects from the parent volume to the clone.

#### Corrective Action

(None).

#### Syslog Message

Clone split of volume "%s" hosted on FabricPool "%s" takes the optimized path using Azure copy blob operation.

#### Parameters

**volume\_name** (STRING): Volume clone.

**aggregate\_name** (STRING): Aggregate which hosts the volume clone.

## vol.duplicate events

### vol.duplicate.msids

#### Severity

EMERGENCY

#### Description

This message occurs when a duplicate master set ID (MSID) has been detected. This situation might cause ONTAP to incorrectly group together the constituents of separate FlexGroup volumes. This might result in inconsistencies, as ONTAP creates directories and files across separate FlexGroup volumes. This might lead ONTAP to mark FlexGroup volume constituents as inconsistent and take them offline. ONTAP might even mark the entire aggregate as inconsistent and take it offline.

#### Corrective Action

Contact NetApp technical support immediately.

#### Syslog Message

Duplicate MSID "%lu" has been detected in SVM "%s". The duplicate MSID is used for volumes "%s" and "%s".

#### Parameters

**volumeMsid** (LONGINT): MSID of the volumes.

**vserverName** (STRING): Name of the storage virtual machine (SVM) on which the volumes reside.

**firstVolName** (STRING): Name of the first volume with the duplicate MSID.

**secondVolName** (STRING): Name of the second volume with the duplicate MSID.

## vol.inconsistent events

### vol.inconsistent.modify

#### Severity

INFORMATIONAL

#### Description

This message occurs when the "vol inconsistent" command is used to modify a volume's state.

#### Corrective Action

(None).

#### Syslog Message

Volume %s: 'vol inconsistent' command used to change inconsistent state to '%s'.

#### Parameters

**vol** (STRING): Name of the volume.

**state** (STRING): State of the action "set" or "clear".

## vol.language events

### vol.language.changed

#### Severity

INFORMATIONAL

#### Description

This event is issued when the language of an aggregate or a volume is changed.

#### Corrective Action

(None).

#### Syslog Message

Language on %s %s changed to %s

#### Parameters

**vol\_type** (STRING): Whether this event is generated for an aggregate or a flexible volume.

**vol** (STRING): The name of the volume or aggregate

**lang** (STRING): The name of the changed language of the volume or aggregate.

### vol.language.openFailed

#### Severity

ERROR

#### Description

This message occurs when an attempt to open the language file fails.

### Corrective Action

Check whether the language file exists. Retry the command based on the reason for failure.

### Syslog Message

Failed to open the language file %s, error message: %s

### Parameters

**file\_name\_location** (STRING): Language file name and location.

**error\_str** (STRING): Reason for the error.

## vol.language.unspecified

### Severity

INFORMATIONAL

### Description

This event is issued when ONTAP detects that there is no language specified for the volume or aggregate. The referenced volume or aggregate language will default to "C" (POSIX). See the na\_vol.1 man page for the list of supported languages.

### Corrective Action

If the volume is not read-only, use the 'vol lang' command to correct the language of the volume. See the na\_vol.1 man page for details about using the 'vol lang' command.

### Syslog Message

Language not set on %s %s. Using language config "C". %s

### Parameters

**vol\_type** (STRING): Whether this error occurred for an aggregate or a flexible volume

**vol** (STRING): The name of the volume or aggregate

**lang\_command** (STRING): If the volume is not read-only, this parameter contains an explanation of what you can do to set the language for the volume.

## vol.log events

### vol.log.overalloc

### Severity

ALERT

### Description

This message occurs when the volume or aggregate allocates more space than it can honor by way of reservations, or the aggregate has allocated more space than it can honor by way of guarantees. If the reserved or guaranteed space is consumed, there is insufficient physical space, which can cause the volume or aggregate to be taken offline.

### Corrective Action

For non-ASA r2 platforms, create space by increasing the volume or aggregate size, deleting data, deleting Snapshot copies, or changing the provisioning from thick to thin. To increase a volume's size, use the "volume size" command. To delete a volume's Snapshot copies, use the "volume snapshot delete" command. To change provisioning in a volume, reserved files can be unreserved by using the "volume file

reservation" command. To increase an aggregate's size, add disks by using the "storage aggregate add-disks" command. Aggregate Snapshot copies are deleted automatically when the aggregate is full. To change provisioning of a volume in an aggregate, change the volume guarantee from "volume" to "none" by using the "space-guarantee" field of the "volume modify" command. For ASA r2 platforms, create space in the volume or aggregate. To create space in an aggregate, add more disks to the cluster. To create space in a volume, delete data or delete Snapshot copies. To delete a Snapshot copy, use the "vserver consistency-group snapshot delete" command.

### Syslog Message

%s %s%s%s is logically overallocated, using %s%% logical space and %s%% physical space.

### Parameters

**object\_type** (STRING): Identifier for the type of object to which this event applies (aggregate or volume).

**name** (STRING): Name of this object.

**app** (STRING): Application universal unique identifier(UUID).

**vserver\_uuid** (STRING): UUID of the object's storage virtual machine (SVM), if the object is a volume. Otherwise, this string is empty.

**percent\_logically\_full** (STRING): Used capacity of the logical space of the object, as a percent. This value can be greater than 100 due to space reserved for metadata. The percentage is computed for the entire object, including Snapshot copy space, and is equivalent to the "Total Used" field in the output of the "volume show-space" or "aggregate show-space" commands.

**percent\_physically\_full** (STRING): Used capacity of the physical space of the object, as a percent. This value can be greater than 100 due to space reserved for metadata. The percentage is computed for the entire object, including Snapshot copy space, and is equivalent to the "Total Physical Used" field in the output of the "volume show-space" or "aggregate show-space" commands.

## vol.log.overalloc.inc.sav

### Severity

ALERT

### Description

This message occurs when the volume allocates more space than it can honor. Allocated space is based on all of the physical used blocks, reservations, and space saved by storage efficiency features.

### Corrective Action

Create space by increasing the volume size, deleting data or their reservations, or deleting snapshots. To increase volume size, use the "volume size" command. To delete snapshots, use the "volume snapshot delete" command.

### Syslog Message

%s %s%s%s (UUID %s) is logically overallocated using %s%% space, which considers space saved by storage efficiency features as well as physically used blocks and reservations.

### Parameters

**object\_type** (STRING): Identifier for the type of object to which this event applies. This event should be applicable only to volumes with logical space enforcement enabled.

**name** (STRING): Name of this object.

**app** (STRING): Application Universally Unique ID (UUID).

**vserver\_uuid** (STRING): UUID of the object's or volume's Vserver.

**object\_uuid** (STRING): UUID of the object or volume.

**percent\_full** (STRING): Used capacity of the logical space of the object, along with reservations and space saved by the storage efficiency features, as a percentage. This value can be greater than 100 due to space

reserved for metadata. The percentage is computed for the entire object, including snapshot space, and is equivalent to the "logical-used" field in the output of the "volume show-space" command.

## vol.max events

### vol.max.size.increased

#### Severity

INFORMATIONAL

#### Description

This message occurs as a reminder that the maximum volume size limit is increased from the default value defined in the Platform Specific Module (PSM) table.

#### Corrective Action

(None).

#### Syslog Message

Maximum volume size limit is increased from %ld TB to %ld TB.

#### Parameters

**old\_limit** (LONGINT): Original volume size limit as defined in the PSM table.

**new\_limit** (LONGINT): New maximum volume size limit.

## vol.mount events

### vol.mount.readOnly

#### Severity

INFORMATIONAL

#### Description

This message occurs when a volume or aggregate is mounted as read-only.

#### Corrective Action

(None).

#### Syslog Message

Mounting vol/aggr '%s' readonly due to 'online -ro' command.

#### Parameters

**name** (STRING): Name of the volume or aggregate.

## vol.online events

### vol.online.upgrade.tasks.failure

#### Severity

ERROR

## Description

This message occurs when ONTAP cannot correctly trigger volume upgrade tasks when a volume is brought online outside of an ONTAP upgrade cycle. Information about the volume is accurate in nodeshell, but the clustershell and the REST interface shows inaccurate information until the situation is corrected.

## Corrective Action

Trigger the mhost upgrade tasks manually using the advanced privilege "volume upgrade-tasks run -vserver [vserver\_name] -volume [volume\_name]" command.

## Syslog Message

The triggering of mhost upgrade tasks has failed for volume %s from source version %s. Run the upgrade tasks manually.

## Parameters

**volume** (STRING): Name of the volume.

**source\_version** (STRING): Version from which the upgrade is happening.

# vol.phy events

## vol.phy.overalloc.inc.sav

### Severity

EMERGENCY

### Description

This message occurs when the volume is running dangerously low on free blocks to write to. Free blocks are estimated based on the space saved by the storage efficiency features as well as with physically used blocks.

### Corrective Action

Create space by increasing the volume size, deleting data, or deleting snapshots. To increase volume size, use the "volume size" command. To delete snapshots, use the "volume snapshot delete" command.

### Syslog Message

%s %s%s%s (UUID %s) is physically overallocated using %s%% space, which considers space saved by storage efficiency features as well as physically used blocks.

### Parameters

**object\_type** (STRING): Identifier for the type of object to which this event applies. This event should be applicable only to volumes with logical space enforcement turned on.

**name** (STRING): Name of this object.

**app** (STRING): Application Universally Unique ID (UUID).

**vserver\_uuid** (STRING): UUID of the object's or volume's Vserver.

**object\_uuid** (STRING): UUID of the object or volume.

**percent\_full** (STRING): Used capacity of the physical space of the object, along with space saved by the storage efficiency features, as a percentage. This value can be greater than 100 due to efficiency features and space reserved for metadata. The percentage is computed for the entire object, including snapshot space.

# vol.phys events

## vol.phys.overalloc

### Severity

EMERGENCY

### Description

This message occurs when the volume or aggregate is running dangerously low on free blocks to write to.

### Corrective Action

For non-ASA r2 platforms, create space by increasing the volume or aggregate sizes, or by deleting data or deleting Snapshot copies. To increase a volume's size, use the "volume size" command. To delete a volume's Snapshot copies, use the "volume snapshot delete" command. To increase an aggregate's size, add disks by using the "storage aggregate add-disks" command. Aggregate Snapshot copies are deleted automatically when the aggregate is full. For ASA r2 platforms, create space in the volume or aggregate. To create space in an aggregate, add more disks to the cluster. To create space in a volume, delete data or delete Snapshot copies. To delete a Snapshot copy, use the "vserver consistency-group snapshot delete" command.

### Syslog Message

%s %s%s%s is physically overallocated, using %s%% logical space and %s%% physical space.

### Parameters

**object\_type** (STRING): Identifier for the type of object to which this event applies (aggregate or volume).

**name** (STRING): Name of this object.

**app** (STRING): Application universal unique identifier(UUID).

**vserver\_uuid** (STRING): UUID of the object's storage virtual machine (SVM), if the object is a volume. Otherwise, this string is empty.

**percent\_logically\_full** (STRING): Used capacity of the logical space of the object, as a percent. This value can be greater than 100 due to space reserved for metadata. The percentage is computed for the entire object, including Snapshot copy space, and is equivalent to the "Total Used" field in the output of the "volume show-space" or "aggregate show-space" commands.

**percent\_physically\_full** (STRING): Used capacity of the physical space of the object, as a percent. This value can be greater than 100 due to space reserved for metadata. The percentage is computed for the entire object, including Snapshot copy space, and is equivalent to the "Total Physical Used" field in the output of the "volume show-space" or "aggregate show-space" commands.

# vol.registryget events

## vol.registryGet.no512520BPS

### Severity

NOTICE

### Description

This message occurs when a registry request finds no 512 or 520 BPS (bytes per sector) disks.

### Corrective Action

(None).

### **Syslog Message**

No disk has 512 or 520 BPS.

### **Parameters**

(None).

## **vol.registryGet.nonDefBPS**

### **Severity**

NOTICE

### **Description**

This message occurs when a registry request finds disks whose BPS (bytes per sector) is other than the default 512 or 520.

### **Corrective Action**

(None).

### **Syslog Message**

Disk had %d BPS; system expected 512 or 520 BPS.

### **Parameters**

**cad\_bps** (INT): Disk configuration attribute of bytes per sector.

## **vol.registryGet.noZoneCksum**

### **Severity**

NOTICE

### **Description**

This message occurs when a registry request for zoned or block checksum volumes finds no such volumes.

### **Corrective Action**

(None).

### **Syslog Message**

No volume has zoned or block checksums.

### **Parameters**

(None).

## **vol.reserve events**

### **vol.reserve.grew**

### **Severity**

ERROR

### **Description**

This message occurs when WAFL® grows the reserve of a flexible volume that is running dangerously low

on blocks for writing.

### **Corrective Action**

For non-ASA r2 platforms, create space by increasing the volume size, deleting data, or changing the provisioning from thick to thin. To increase a volume's size, use the "volume size" command. To change provisioning in a volume reserved files can be unreserved by using the "volume file reservation" command. For ASA r2 platforms, create space by deleting data or by deleting Snapshot copies. To delete a Snapshot copy, use the "vserver consistency-group snapshot delete" command.

### **Syslog Message**

WAFL grew reserve of volume %s%s%s because the volume was running low on blocks.

### **Parameters**

**name** (STRING): Name of the volume.

**app** (STRING): Application universal unique identifier(UUID).

**vserver\_uuid** (STRING): Name of the associated storage virtual machine (SVM)'s UUID.

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