NetApp

dbs events

ONTAP 9.11.1 EMS reference

NetApp
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dbs events

dbs.bulk events

dbs.bulk.op

Severity

NOTICE

Description

This message occurs when a distributed block store event related to bulk volume operations such as backups, restores, making of Snapshot copies, or cloning occurs. If the original distributed block store event specifies multiple drives, then an EMS event is generated for each drive.

Corrective Action

None.

Syslog Message

A distributed block store event \"%s\" of type \"%s\" for Service ID %u on node %u Drive ID = %u. Event ID = %u.

Parameters

evtMessage (STRING): Description of the distributed block store event, including context details.
evtType (STRING): Type of the original distributed block store event.
serviceID (INT): Service ID that identifies the associated distributed block store service. It is "0" if there is no associated service.
nodeID (INT): Node ID number of the associated node. It is "0" if there is no associated node.
driveID (INT): Drive ID number of the associated drive. It is "0" if there is no associated drive.
evtID (INT): Distributed block store event ID number.
evtDetails (STRING): Specific details of the distributed block store event. It might a string, in JSON format, or empty.

dbs.clone events

dbs.clone

Severity

NOTICE

Description

This message occurs when a distributed block store event related to volume cloning occurs. If the original distributed block store event specifies multiple drives, then an EMS event is generated for each drive.

Corrective Action

None.

Syslog Message

A distributed block store event \"%s\" of type \"%s\" for Service ID %u on node %u Drive ID = %u. Event ID = %u.

Parameters

evtMessage (STRING): Description of the distributed block store event, including context details.
evtType (STRING): Type of the original distributed block store event.
serviceID (INT): Service ID that identifies the associated distributed block store service. It is "0" if there is no asociated service.
nodeID (INT): Node ID number of the associated node. It is "0" if there is no associated node.
driveID (INT): Drive ID number of the associated drive. It is "0" if there is no associated drive.
evtID (INT): Distributed block store event ID number.
evtDetails (STRING): Specific details of the distributed block store event. It might a string, in JSON format, or empty.

dbs.cluster events

dbs.cluster

Severity

NOTICE

Description

This message occurs when a distributed block store event related to cluster operations occurs. If the original distributed block store event specifies multiple drives, then an EMS event is generated for each drive.

Corrective Action

None.

Syslog Message

A distributed block store event \"%s\" of type \"%s\" for Service ID %u on node %u Drive ID = %u. Event ID = %u.

Parameters

evtMessage (STRING): Description of the distributed block store event, including context details.
evtType (STRING): Type of the original distributed block store event.
serviceID (INT): Service ID that identifies the associated distributed block store service. It is "0" if there is no associated service.
nodeID (INT): Node ID number of the associated node. It is "0" if there is no associated node.
driveID (INT): Drive ID number of the associated drive. It is "0" if there is no associated drive.
evtID (INT): Distributed block store event ID number.
evtDetails (STRING): Specific details of the distributed block store event. It might a string, in JSON format, or empty.

dbs.discon events

dbs.discon.snapmirror.end

Severity

ERROR

Description

This message occurs when the Distributed Block Store (DBS) is unable to access snapmirror endpoint on the network. The DBS is responsible for managing the data that backs the FlexVols®.

Corrective Action

Check network connectivity between the cluster and the remote snapmirror endpoint. Check the 1G management network.

Syslog Message

The Distributed Block Store is unable to access the snapmirror endpoint from cluster. The cluster fault type is %s and fault id is %u.

Parameters

cfType (STRING): DBS cluster fault type of the associated object.
cfID (INT): DBS cluster fault ID number associated with the fault.
cfStatus (INT): Current status of the cluster fault. 1 = New (just reported), 2 = Existing (updated), 3 = Resolved (closed).
cfDetails (STRING): Description of the cluster fault, including context details.
cfExtSrc (STRING): DBS cluster fault externalSource label created by the CreateClusterFault API command and attached to the fault for testing purposes.

dbs.disconn events

dbs.disconn.remote.node

Severity

ERROR

Description

This message occurs when the Distributed Block Store (DBS) detects that a remote node is not connected to cluster network. The DBS is responsible for managing the data that backs the FlexVols®.

Corrective Action

Ping the remote nodes using jumbo frames to test network connectivity.

Syslog Message

The Distributed Block Store has detected that a remote node is not connected to cluster network. The cluster fault type is %s and fault id is %u.

Parameters

cfType (STRING): DBS cluster fault type of the associated object.
cfID (INT): DBS cluster fault ID number associated with the fault.
cfStatus (INT): Current status of the cluster fault. 1 = New (just reported), 2 = Existing (updated), 3 = Resolved (closed).
cfDetails (STRING): Description of the cluster fault, including context details.
cfExtSrc (STRING): DBS cluster fault externalSource label created by the CreateClusterFault API command and attached to the fault for testing purposes.

dbs.drive events

dbs.drive

Severity

NOTICE

Description

This message occurs when a distributed block store event related to drive operations occurs. If the original distributed block store event specifies multiple drives, then an EMS event is generated for each drive.

Corrective Action

None.

Syslog Message

A distributed block store event \"%s\" of type \"%s\" for Service ID %u on node %u Drive ID = %u. Event ID = %u.

Parameters

evtMessage (STRING): Description of the distributed block store event, including context details.
evtType (STRING): Type of the original distributed block store event.
serviceID (INT): Service ID that identifies the associated distributed block store service. It is "0" if there is no associated service.
nodeID (INT): Node ID number of the associated node. It is "0" if there is no associated node.
driveID (INT): Drive ID number of the associated drive. It is "0" if there is no associated drive.
evtID (INT): Distributed block store event ID number.
evtDetails (STRING): Specific details of the distributed block store event. It might a string, in JSON format, or empty.

dbs.encr events

dbs.encr.at.rest

Severity

NOTICE

Description

This message occurs when Distributed Block Store (DBS) enables or disables encryption at rest on a self-encrypting drive. Encrypting drives automatically encrypt and decrypt the data as it is written or read from the drive media. Enabling encryption at rest protects the data from unauthorized access if the drive is power-cycled. If the original DBS event specifies multiple drives, then an EMS event is generated for each drive.

Corrective Action

None.

Syslog Message

This is a Distributed Block Store encryption at rest event. The event is \"%s\" of type \"%s\" for Service ID \"%u\" on node \"%u\". Drive ID = %u. Event ID = %u.

Parameters

evtMessage (STRING): Description of the DBS event, including context details.
evtType (STRING): Type of the original DBS event.
serviceID (INT): Service ID that identifies the associated DBS service. It will be "0" if there is no associated service.
nodeID (INT): Node ID number of the associated node. It will be "0" if there is no associated node.
driveID (INT): Drive ID number of the associated drive. It will be "0" if there is no associated drive.
evtID (INT): DBS event ID number.
evtDetails (STRING): Specific details of the DBS event. It may be a string, in JSON format, or empty.

dbs.generic events

dbs.generic.cluster.fault

Severity

    NOTICE

Description

    This message occurs when a Distributed Block Store (DBS) cluster fault is reported as a generic fault. The DBS is responsible for managing the data that backs the FlexVols®. Multiple faults are mapped to this one event.

Corrective Action

    None.

Syslog Message

    This is a Distributed Block Store generic cluster fault. The fault is \"%s\" (%u) with severity \"%u\" for Service ID \"%u\" on node \"%u\". Drive list = %s.

Parameters

    cfCodeName (STRING): Name of the original DBS cluster fault code.
    cfCode (INT): DBS cluster fault code number.
    cfSeverity (INT): Severity of the original DBS cluster fault. This is different than the EMS severity.
    serviceID (INT): Service ID that identifies the associated cluster service. It will be "0" if there is no associated service.
    nodeID (INT): Node ID number of the associated node. It will be "0" if there is no associated node.
    cfDriveIDs (STRING): List of the drive IDs associated with the fault. The list might be empty.
    cfType (STRING): DBS cluster fault type of the associated object.
    cfID (INT): DBS cluster fault ID number associated with the fault.
    cfStatus (INT): Current status of the cluster fault. 1 = New (just reported), 2 = Existing (updated), 3 = Resolved (closed).
    cfDetails (STRING): Description of the cluster fault, including context details.
    cfExtSrc (STRING): DBS cluster fault externalSource label created by the CreateClusterFault API command and attached to the fault for testing purposes.

dbs.generic.event

Severity

    NOTICE

Description

    This message occurs when a Distributed Block Store (DBS) event is reported as a generic event. The DBS is responsible for managing the data that backs the FlexVols®. Multiple DBS events are mapped to this one event. If the original DBS event specifies multiple drives, then an EMS event is generated for each drive.

Corrective Action

    None.

Syslog Message

    This is a Distributed Block Store generic event. The event is \"%s\" of type \"%s\" for Service ID \"%u\" on node \"%u\". Drive ID = %u. Event ID = %u.

Parameters

evtMessage (STRING): Description of the DBS event, including context details.
evtType (STRING): Type of the original DBS event.
serviceID (INT): Service ID that identifies the associated DBS service. It will be "0" if there is no associated service.
nodeID (INT): Node ID number of the associated node. It will be "0" if there is no associated node.
driveID (INT): Drive ID number of the associated drive. It will be "0" if there is no associated drive.
evtID (INT): DBS event ID number.
evtDetails (STRING): Specific details of the DBS event. It may be a string, in JSON format, or empty.

dbs.remote events

dbs.remote.cluster

Severity

NOTICE

Description

This message occurs when a Distributed Block Store (DBS) event such as a change in cluster pair connectivity status occurs. If the original DBS event specifies multiple drives, then an EMS event is generated for each drive.

Corrective Action

None.

Syslog Message

This is a Distributed Block Store remote cluster event. The event is \"%s\" of type \"%s\" for Service ID \"%u\" on node \"%u\". Drive ID = %u. Event ID = %u.

Parameters

evtMessage (STRING): Description of the DBS event, including context details.
evtType (STRING): Type of the original DBS event.
serviceID (INT): Service ID that identifies the associated DBS service. It will be "0" if there is no associated service.
nodeID (INT): Node ID number of the associated node. It will be "0" if there is no associated node.
driveID (INT): Drive ID number of the associated drive. It will be "0" if there is no associated drive.
evtID (INT): DBS event ID number.
evtDetails (STRING): Specific details of the DBS event. It may be a string, in JSON format, or empty.

dbs.remrep events

dbs.remrep.async.dly.exceed

Severity

ERROR

Description

This message occurs when the Distributed Block Store (DBS) is executing remote replication for a pair of volumes, but that it has not reached active state for 6 hours. The DBS is responsible for managing the data that backs the FlexVols®.

Corrective Action

Check network connectivity between clusters. Inspect slice service logs to see if some issue is preventing replication from continuing.

Syslog Message

The Distributed Block Store is attempting to perform remote replication that has not reached active state for 6 hours. The cluster fault type is %s and fault id is %u.

Parameters

cfType (STRING): DBS cluster fault type of the associated object.
cfID (INT): DBS cluster fault ID number associated with the fault.
cfStatus (INT): Current status of the cluster fault. 1 = New (just reported), 2 = Existing (updated), 3 = Resolved (closed).
cfDetails (STRING): Description of the cluster fault, including context details.
cfExtSrc (STRING): DBS cluster fault externalSource label created by the CreateClusterFault API command and attached to the fault for testing purposes.

dbs.remrep.snap.cluster.full

Severity

ALERT

Description

This message occurs when the Distributed Block Store (DBS) detects that Remote Replication of Snapshots is paused for associated volumes because target cluster is full. The DBS is responsible for managing the data that backs the FlexVols®.

Corrective Action

Free space on the target volume.

Syslog Message

The Distributed Block Store detected that Remote Replication of Snapshots is paused for associated volumes because target cluster is full. The cluster fault type is %s and fault id is %u.

Parameters

cfType (STRING): DBS cluster fault type of the associated object.
cfID (INT): DBS cluster fault ID number associated with the fault.
cfStatus (INT): Current status of the cluster fault. 1 = New (just reported), 2 = Existing (updated), 3 = Resolved (closed).
cfDetails (STRING): Description of the cluster fault, including context details.
cfExtSrc (STRING): DBS cluster fault externalSource label created by the CreateClusterFault API command and attached to the fault for testing purposes.

dbs.remrep.snapshots.exceed

Severity

ALERT

Description

This message occurs when the Distributed Block Store (DBS) detects that Remote Replication of Snapshots is paused for associated volumes because target volume has exceeded its snapshot limit. The DBS is responsible for managing the data that backs the FlexVols®.

Corrective Action

Delete snapshots on the target volume.

Syslog Message

The Distributed Block Store detected that Remote Replication of Snapshots is paused for associated volumes because target volume has exceeded its snapshot limit. The cluster fault type is %s and fault id is %u.

Parameters

cfType (STRING): DBS cluster fault type of the associated object.
cfID (INT): DBS cluster fault ID number associated with the fault.
cfStatus (INT): Current status of the cluster fault. 1 = New (just reported), 2 = Existing (updated), 3 = Resolved (closed).
cfDetails (STRING): Description of the cluster fault, including context details.
cfExtSrc (STRING): DBS cluster fault externalSource label created by the CreateClusterFault API command and attached to the fault for testing purposes.

dbs.schedule events

dbs.schedule.action.error

Severity

ERROR

Description

This message occurs when the Distributed Block Store (DBS) is running one or more of the scheduled activities but the activity failed, for example running a scheduled create snapshot fails to complete. The fault clears if the scheduled activity runs again and succeeds, if the scheduled activity is deleted, or if the activity is paused and resumed. The DBS is responsible for managing the data that backs the FlexVols®.

Corrective Action

Check the scheduler entry for issues.

Syslog Message

The Distributed Block Store is attempting one or more scheduled activities which fails to complete. The cluster fault type is %s and fault id is %u.

Parameters

cfType (STRING): DBS cluster fault type of the associated object.
cfID (INT): DBS cluster fault ID number associated with the fault.
cfStatus (INT): Current status of the cluster fault. 1 = New (just reported), 2 = Existing (updated), 3 = Resolved (closed).
cfDetails (STRING): Description of the cluster fault, including context details.
cfExtSrc (STRING): DBS cluster fault externalSource label created by the CreateClusterFault API command and attached to the fault for testing purposes.

dbs.secondary events

dbs.secondary.cache.thresh

Severity

ALERT

Description

This message occurs when the Distributed Block Store (DBS) detects that Slice volume secondary write cache has reached the first fullness warning threshold. Secondary cache starts to fill when Slice service write requests to the Block service (and by extension the FireStorm service) are not receiving replies. Client write performance may be reduced if this condition persists. The DBS is responsible for managing the data that backs the FlexVols®.

Corrective Action

Verify that all nodes are online. Verify that all Block and FireStorm services, and associated aggregates, are online. Attempt repairs needed to bring nodes and aggregrates online. If the reason for this condition cannot be found, contact NetApp technical support.

Syslog Message

Slice secondary cache fullness threshold reached for service ID %u on node %u.

Parameters

serviceID (INT): Service ID that identifies the associated cluster service.
nodeID (INT): Node ID number of the associated node.
cfDriveIDs (STRING): List of the drive IDs associated with the fault. The list might be empty.
cfType (STRING): DBS cluster fault type of the associated object.
cfID (INT): DBS cluster fault ID number associated with the fault.
cfStatus (INT): Current status of the cluster fault. 1 = New (just reported), 2 = Existing (updated), 3 = Resolved (closed).
cfDetails (STRING): Description of the cluster fault, including context details.
cfExtSrc (STRING): DBS cluster fault externalSource label created by the CreateClusterFault API command and attached to the fault for testing purposes.

dbs.slice events

dbs.slice.operation

Severity

NOTICE

Description

This message occurs when a Distributed Block Store (DBS) event relating to a slice service operation such as removing a metadata drive, slice reassignment i.e. balancing volumes, moving primaries, snapshot success, failure, expiration, group snapshot success, failure occurs. If the original DBS event specifies multiple drives, then an EMS event is generated for each drive.

Corrective Action

None.

Syslog Message

This is a Distributed Block Store slice event. The event is \"%s\" of type \"%s\" for Service ID \"%u\" on node \"%u\". Drive ID = %u. Event ID = %u.

Parameters

> **evtMessage** (STRING): Description of the DBS event, including context details.
> **evtType** (STRING): Type of the original DBS event.
> **serviceID** (INT): Service ID that identifies the associated DBS service. It will be "0" if there is no associated service.
> **nodeID** (INT): Node ID number of the associated node. It will be "0" if there is no associated node.
> **driveID** (INT): Drive ID number of the associated drive. It will be "0" if there is no associated drive.
> **evtID** (INT): DBS event ID number.
> **evtDetails** (STRING): Specific details of the DBS event. It may be a string, in JSON format, or empty.

dbs.slice.service.unhealthy

Severity

> ALERT

Description

> This message occurs when the Distributed Block Store (DBS) is trying to migrate data away from an unresponsive Slice Service. The DBS is responsible for managing the data that backs the FlexVols®.

Corrective Action

> Expect DBS to automatically resolve this failure. The cluster is automatically decommissioning data and re-replicating its data onto other healthy drives.

Syslog Message

> The Distributed Block Store is attempting to migrate data away from unresponsive Slice service ID %u on node %u.

Parameters

> **serviceID** (INT): Service ID that identifies the associated DBS service.
> **nodeID** (INT): Node ID number of the associated node.
> **cfType** (STRING): DBS cluster fault type of the associated object.
> **cfID** (INT): DBS cluster fault ID number associated with the fault.
> **cfStatus** (INT): Current status of the cluster fault. 1 = New (just reported), 2 = Existing (updated), 3 = Resolved (closed).
> **cfDetails** (STRING): Description of the cluster fault, including context details.
> **cfExtSrc** (STRING): DBS cluster fault externalSource label created by the CreateClusterFault API command and attached to the fault for testing purposes.

dbs.snapshot events

dbs.snapshot.scheduler

Severity

> NOTICE

Description

> This message occurs when a Distributed Block Store (DBS) event related to scheduling snapshots occurs. If the original DBS event specifies multiple drives, then an EMS event is generated for each drive.

Corrective Action

> None.

Syslog Message

This is a Distributed Block Store scheduler event. The event is \"%s\" of type \"%s\" for Service ID \"%u\" on node \"%u\". Drive ID = %u. Event ID = %u.

Parameters

evtMessage (STRING): Description of the DBS event, including context details.
evtType (STRING): Type of the original DBS event.
serviceID (INT): Service ID that identifies the associated DBS service. It will be "0" if there is no associated service.
nodeID (INT): Node ID number of the associated node. It will be "0" if there is no associated node.
driveID (INT): Drive ID number of the associated drive. It will be "0" if there is no associated drive.
evtID (INT): DBS event ID number.
evtDetails (STRING): Specific details of the DBS event. It may be a string, in JSON format, or empty.

dbs.sw events

dbs.sw.encr.at.rest

Severity

NOTICE

Description

This message occurs when a Distributed Block Store (DBS) event relating to Software Encryption At Rest occurs, such as master key rekey completes or fails, rewrapping drive keys with new SEAR master key takes too long occur. Software Encryption At Rest when enabled, encrypts all data written, and decrypts all data read automatically in the software. If the original DBS event specifies multiple drives, then an EMS event is generated for each drive.

Corrective Action

None.

Syslog Message

This is a Distributed Block Store Software Encryption At Rest event. The event is \"%s\" of type \"%s\" for Service ID \"%u\" on node \"%u\". Drive ID = %u. Event ID = %u.

Parameters

evtMessage (STRING): Description of the DBS event, including context details.
evtType (STRING): Type of the original DBS event.
serviceID (INT): Service ID that identifies the associated DBS service. It will be "0" if there is no associated service.
nodeID (INT): Node ID number of the associated node. It will be "0" if there is no associated node.
driveID (INT): Drive ID number of the associated drive. It will be "0" if there is no associated drive.
evtID (INT): DBS event ID number.
evtDetails (STRING): Specific details of the DBS event. It may be a string, in JSON format, or empty.