Monitoring events

StorageGRID

NetApp
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Monitoring events

You can monitor events that are detected by a grid node, including custom events that you have created to track events that are logged to the syslog server. The Last Event message shown in the Grid Manager provides more information about the most recent event.

Event messages are also listed in the `/var/local/log/bycast-err.log` log file.

The SMTT (Total events) alarm can be repeatedly triggered by issues such as network problems, power outages or upgrades. This section has information on investigating events so that you can better understand why these alarms have occurred. If an event occurred because of a known issue, it is safe to reset the event counters.

Reviewing events from the Nodes page

The Nodes page lists the system events for each grid node.

1. Select **Nodes**.
2. Select ***grid node*** > **Events**.
3. At the top of the page, determine if an event is shown for **Last Event**, which describes the last event detected by the grid node.

   The event is relayed verbatim from the grid node and includes any log messages with a severity level of ERROR or CRITICAL.

4. Review the table to see if the Count for any event or error is not zero.
5. After resolving issues, click **Reset event counts** to return the counts to zero.

Reviewing events from the Grid Topology page

The Grid Topology page also lists the system events for each grid node.

1. Select **Support** > **Tools** > **Grid Topology**.
2. Select ***site*** > ***grid node*** > **SSM** > **Events** > **Overview** > **Main**.

Related information

Resetting event counts

Log files reference

Reviewing previous events

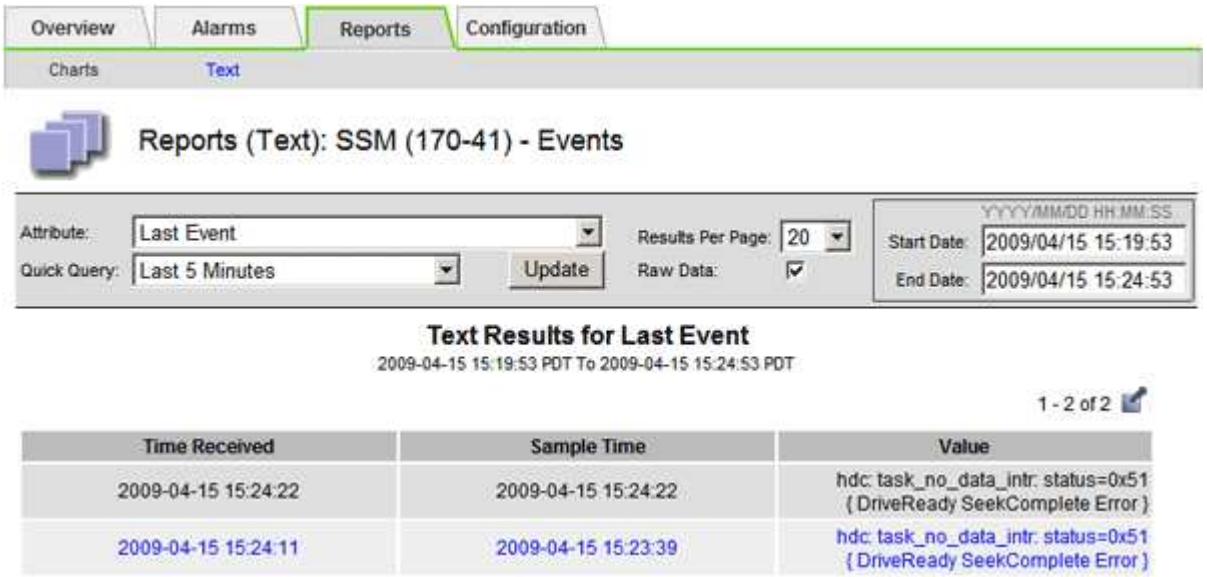
You can generate a list of previous event messages to help isolate issues that occurred in the past.

1. Select **Support** > **Tools** > **Grid Topology**.
2. Select ***site*** > ***grid node*** > **SSM** > **Events** > **Reports**.

3. Select **Text**.

   The **Last Event** attribute is not shown in the Charts view.

4. Change **Attribute** to **Last Event**.
5. Optionally, select a time period for **Quick Query**.
6. Click **Update**.



Related information

Using charts and reports

Resetting event counts

After resolving system events, you can reset event counts to zero.

What you'll need

- You must be signed in to the Grid Manager using a supported browser.
- You must have the Grid Topology Page Configuration permission.

Steps

1. Select **Nodes** > ***Grid Node*** > **Events**.
2. Make sure that any event with a count greater than 0 has been resolved.
3. Click **Reset event counts**.

Events

Last Event No Events

Description	Count
Abnormal Software Events	0
Account Service Events	0
Cassandra Heap Out Of Memory Errors	0
Cassandra unhandled exceptions	0
Chunk Service Events	0
Custom Events	0
Data-Mover Service Events	0
File System Errors	0
Forced Termination Events	0
Hotfix Installation Failure Events	0
I/O Errors	0
IDE Errors	0
Identity Service Events	0
Kernel Errors	0
Kernel Memory Allocation Failure	0
Keystone Service Events	0
Network Receive Errors	0
Network Transmit Errors	0
Node Errors	0
Out Of Memory Errors	0
Replicated State Machine Service Events	0
SCSI Errors	0
Stat Service Events	0
Storage Hardware Events	0
System Time Events	0

Reset event counts

Creating custom syslog events

Custom events allow you to track all kernel, daemon, error and critical level user events logged to the syslog server. A custom event can be useful for monitoring the occurrence of system log messages (and thus network security events and hardware faults).

About this task

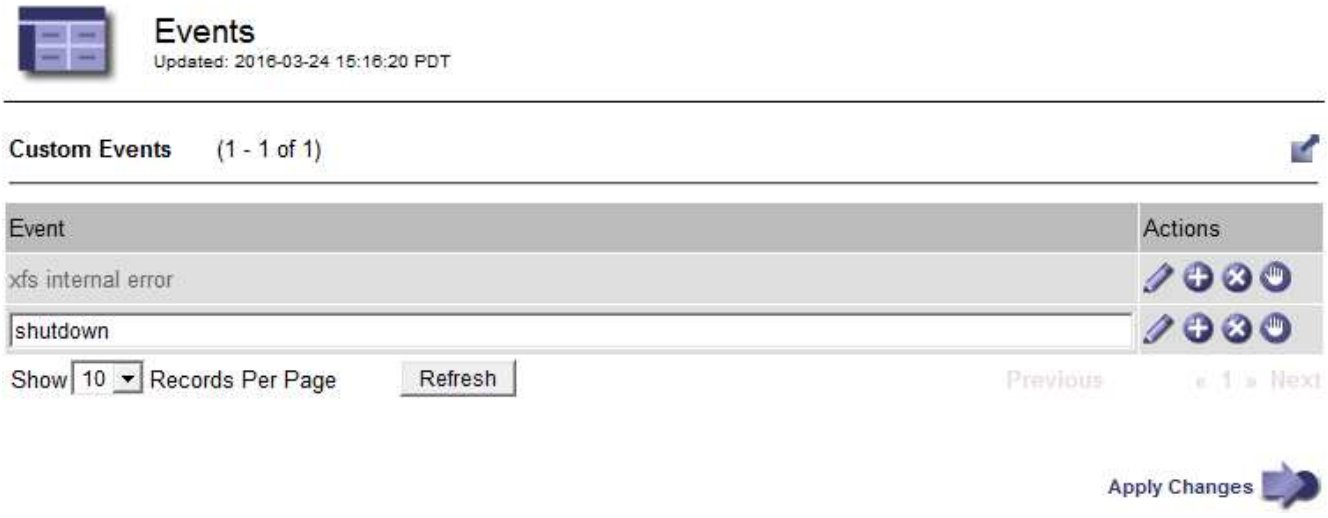
Consider creating custom events to monitor recurring problems. The following considerations apply to custom events.

- After a custom event is created, every occurrence of it is monitored. You can view a cumulative Count value for all custom events on the **Nodes** > ***grid node*** > **Events** page.
- To create a custom event based on keywords in the `/var/log/messages` or `/var/log/syslog` files, the logs in those files must be:
  - Generated by the kernel
  - Generated by daemon or user program at the error or critical level

Note: Not all entries in the `/var/log/messages` or `/var/log/syslog` files will be matched unless they satisfy the requirements stated above.

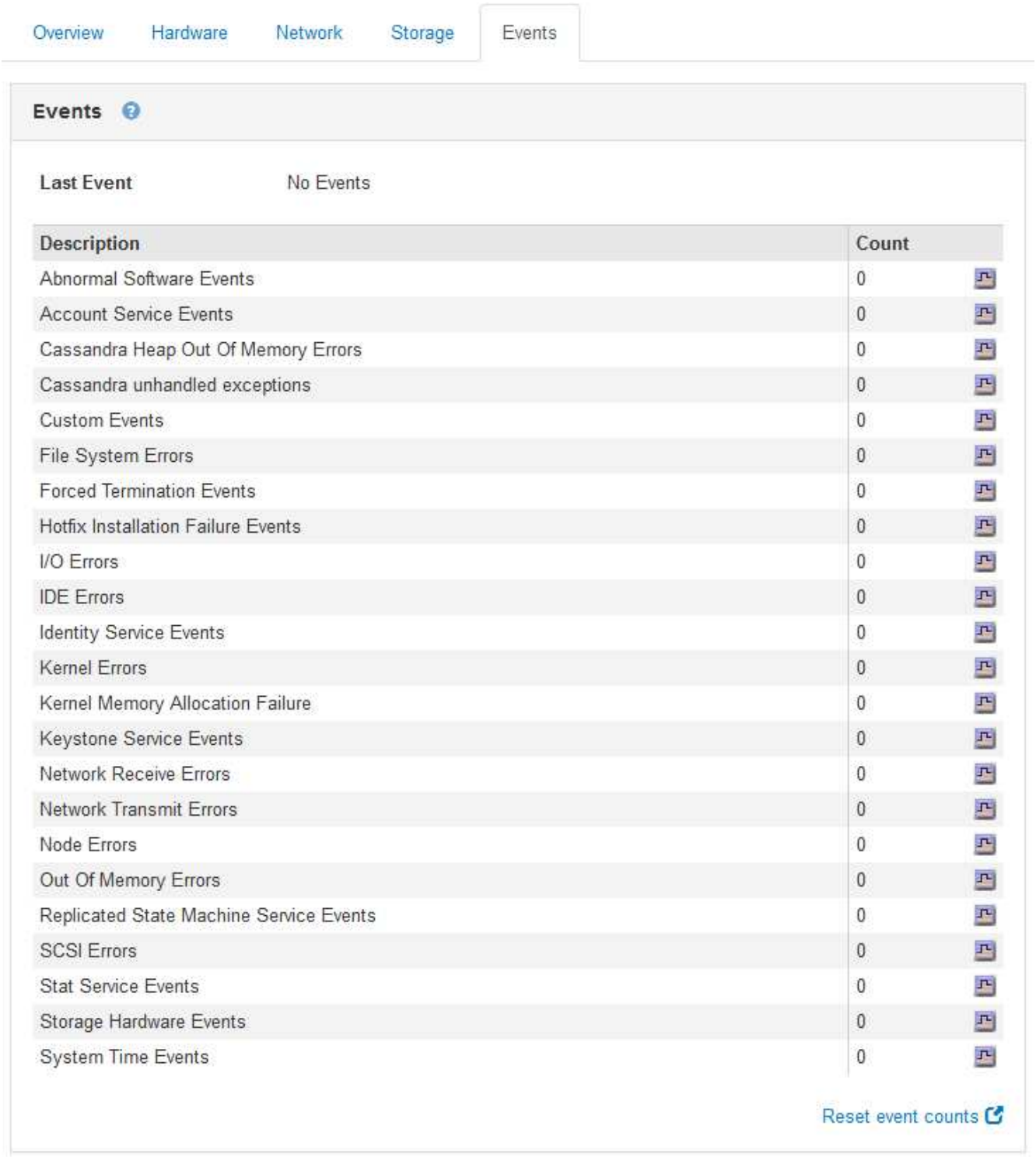
Steps

1. Select **Configuration** > **Monitoring** > **Events**.
2. Click **Edit** (or **Insert** if this is not the first event).
3. Enter a custom event string, for example, shutdown



4. Click **Apply Changes**.
5. Select **Nodes**. Then, select ***grid node*** > **Events**.
6. Locate the entry for Custom Events in the Events table, and monitor the value for **Count**.

   If the count increases, a custom event you are monitoring is being triggered on that grid node.



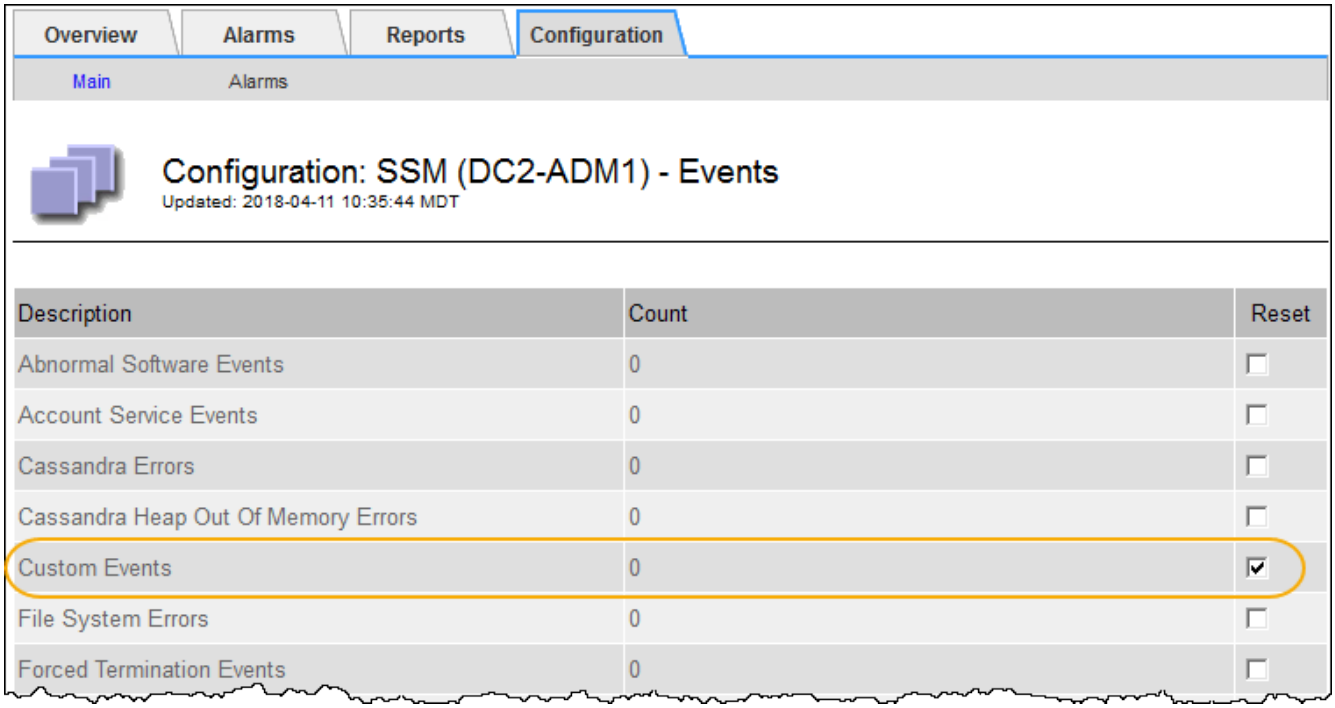
Resetting the count of custom events to zero

If you want to reset the counter only for custom events, you must use the Grid Topology page in the Support menu.

About this task

Resetting a counter causes the alarm to be triggered by the next event. In contrast, when you acknowledge an alarm, that alarm is only re-triggered if the next threshold level is reached.

1. Select **Support** > **Tools** > **Grid Topology**.
2. Select ***grid node*** > **SSM** > **Events** > **Configuration** > **Main**.
3. Select the **Reset** check box for Custom Events.



4. Click **Apply Changes**.

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