event commands

ONTAP commands

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event commands

event catalog commands

event catalog show

Display event definitions

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

Description

The `event catalog show` command displays information about events in the catalog. By default, this command displays the following information:

- Message name of the event
- Severity of the event
- SNMP trap type of the event

To display detailed information about a specific event, run the command with the `-message-name` parameter, and specify the name of the event. The detailed view adds the following information:

- Full description of the event
- Action to be taken to address the event
- Event's deprecation status

You can specify additional parameters to limit output to the information that matches those parameters. For example, to display information only about events with an event name that begins with *raid* , enter the command with the `-message-name` *raid** parameter. The parameter value can either be a specific text string or a wildcard pattern.

Alternatively, an event filter can also be specified to limit the output events.

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.

[-message-name <Message Name>] - Message Name

Selects the events that match this parameter value.

[-filter-name <text>] - Filter Name

Selects the events that match this parameter value. The parameter value indicates an existing filter name that, when applied permits the inclusion of the listed events.

[-severity {EMERGENCY|ALERT|ERROR|NOTICE|INFORMATIONAL|DEBUG}] - Severity

Selects the events that match this parameter value.

[-description <text>] - Description

Selects the events that match this parameter value.

[-action <text>] - Corrective Action

Selects the events that match this parameter value.

[-snmp-trap-type {Standard|Built-in|Severity-based}] - SNMP Trap Type

Selects the events that match this parameter value. The parameter value describes the type of SNMP trap associated with the event. The value can be one of the following: *Standard* trap type events are those defined in the RFCs. *Built-in* trap types are those that are NetApp Enterprise traps specific to events. The remaining events are considered to have *Severity-based* SNMP trap types.

[-deprecated {true|false}] - Is Deprecated

Selects the events that match this parameter value. The parameter value indicates whether the event is deprecated or not.

Deprecated events may be removed in a future release of Data ONTAP.

Examples

The following example displays the event catalog:

```
cluster1::> event filter show -filter-name filter1
Filter      Rule Rule                                    SNMP Trap
Name        Posn Type     Message Name     Severity      Type
Parameters
----------- ---- -------- ---------------- ------------- ---------
-----------
filter1
            1    include  zapi.*           *             *         *=*
            2    exclude  *                *             *         *=*
2 entries were displayed.

cluster1::> event catalog show -filter-name filter1
Message                           Severity         SNMP Trap Type
--------------------------------- ---------------- -----------------
zapi.killed                       NOTICE           Severity-based
zapi.method.notfound              NOTICE           Severity-based
zapi.sf.up.ready                  INFORMATIONAL    Severity-based
zapi.snapshot.success             NOTICE           Severity-based
zapi.streamout.noMethod           NOTICE           Severity-based
5 entries were displayed.

cluster1::> event catalog show -message-name zsm.* -filter-name filter1
```

```
There are no entries matching your query.

cluster1::> event catalog show -message-name zapi.* -filter-name filter1
Message                              Severity         SNMP Trap Type
-------------------------------- ---------------- -----------------
zapi.method.notfound                 NOTICE           Severity-based
zapi.sf.up.ready                     INFORMATIONAL    Severity-based
zapi.snapshot.success                NOTICE           Severity-based
zapi.streamout.noMethod              NOTICE           Severity-based
4 entries were displayed.

cluster1::> event catalog show -message-name CR.*
Message                              Severity         SNMP Trap Type
-------------------------------- ---------------- -----------------
CR.Corrupt.Redir.Deleted             INFORMATIONAL    Severity-based
CR.Dangling.Redir.Deleted            INFORMATIONAL    Severity-based
CR.Data.File.Inaccessible            NOTICE           Severity-based
CR.Del.Corrupt.Redir.Failed          NOTICE           Severity-based
CR.Del.CrptStreamData.Fail           NOTICE           Severity-based
CR.Del.CrptStreamRedir.Fail          NOTICE           Severity-based
CR.Del.DangStreamData.Fail           NOTICE           Severity-based
CR.Del.DangStreamRedir.Fail          NOTICE           Severity-based
CR.Del.Dangling.Redir.Failed         NOTICE           Severity-based
CR.Fix.Corrupt.Redir.Failed          NOTICE           Severity-based
CR.Fix.Crpt.Data.Dir.Failed          INFORMATIONAL    Severity-based
CR.Fix.Crpt.Data.File.Failed         NOTICE           Severity-based
CR.Fix.CrptStreamRedir.Fail          NOTICE           Severity-based
CR.Fix.Dang.Data.File.Failed         NOTICE           Severity-based
CR.Fix.Nlinks.Failed                 NOTICE           Severity-based
CR.Fix.TempFiles.Failed              INFORMATIONAL    Severity-based
CR.Max.Session.Exceed                INFORMATIONAL    Severity-based
CR.RDB.Counters.Not.Updated          INFORMATIONAL    Severity-based
CR.RDB.State.Not.Updated             NOTICE           Severity-based
CR.Redir.File.Inaccessible           NOTICE           Severity-based
CR.Snapshot.Not.Deleted              NOTICE           Severity-based

Message                              Severity         SNMP Trap Type
-------------------------------- ---------------- -----------------
CR.Sync.ACL.Fail                     NOTICE           Severity-based
22 entries were displayed.

cluster1::> event catalog show -instance
...
...
     Message Name: Nblade.cifsEncSessAccessDenied
         Severity: ERROR
```

```
      Description: This message occurs when a client not capable of SMB
encryption tries to establish a CIFS session that requires SMB encryption.
Corrective Action: Either ensure that the client is capable of SMB
encryption or disable SMB encryption on the Vserver.
   SNMP Trap Type: Severity-based
    Is Deprecated: false
Message Name: Nblade.cifsEncShrAccessDenied
         Severity: ERROR
      Description: This message occurs when a client not capable of SMB
encryption tries to connect to a CIFS share that requires SMB encryption.
Corrective Action: Either ensure that the client is capable of SMB
encryption or disable SMB encryption on the CIFS share.
   SNMP Trap Type: Severity-based
    Is Deprecated: false
...
...
```

event config commands

event config force-sync

Synchronize a node's EMS configuration with the cluster wide EMS configuration

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

Description

The `event config force-sync` command forces a node's EMS configuration to be synchronized with the cluster wide EMS configuration. The configuration is automatically synchronized among all nodes in the cluster, but in rare cases a node may not be updated. This command simplifies the recovery from this issue.

The following example shows where this command is useful: An email destination is configured for all CRITICAL level event occurrences. When the event is generated, all nodes generate an email except one. This command forces that node to refresh a stale configuration.

Parameters

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

The node parameter specifies which controller will be synchronized.

event config modify

Modify log configuration parameters

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

Description

Use the `event config modify` command to configure event notification and logging for the cluster.

Parameters

`[-mail-from <mail address>]` - Mail From

Use this parameter to configure the email address from which email notifications will be sent. You can configure the cluster to send email notifications when specific events occur. Use the `event route add-destinations` and `event destination create` commands to configure email destinations for events.

`[-mail-server <text>]` - Mail Server (SMTP)

Use this parameter to configure the name or IP address of the SMTP server used by the cluster when sending email notification of events.

`[-suppression {on|off}]` - Event Throttling/Suppression (privilege: advanced)

Use this parameter to configure whether event suppression algorithms are enabled ("on") or disabled ("off"). The event processing system implements several algorithms to throttle duplicate events.

`[-console {on|off}]` - Console Logging (privilege: advanced)

Use this parameter to configure whether events are displayed on the console port ("on") or not displayed("off").

`[-proxy-url <text>]` - HTTP/HTTPS Proxy URL

If your organization uses a proxy, use this parameter to specify an HTTP or HTTPS proxy for REST API type EMS notification destinations. The URL must start with an http:// prefix. HTTPS connections to a proxy are not supported. To specify a URL that contains a question mark, press ESC followed by the "?". Setting this field to an empty string or '-' will clear all proxy settings including the URL, user and password.

`[-proxy-user <text>]` - User Name for HTTP/HTTPS Proxy

If authentication is required, use this parameter to specify the user name for the HTTP or HTTPS proxy server specified by the *`-proxy-url`* parameter. Use the event config set-proxy-password command to set the password used for this user name.

`[-is-pubsub-enabled {true|false}]` - Is Publish/Subscribe Messaging Enabled?

Use this parameter to configure whether or not events are published to the Publish/Subscribe messaging broker.

Examples

The following command sets the "Mail From" address for event notifications to "admin@example.com" and the "Mail Server" to "mail.example.com":

```
cluster1::> event config modify -mailfrom admin@example.com -mailserver
mail.example.com
```

The following command configures a proxy that requires authentication:

```
cluster1::> event config modify -proxy-url http://proxy.example.com:8080
-proxy-user-name admin
cluster1::> event config set-proxy-password

Enter the password:
Confirm the password:
```

Related Links

- event config set-proxy-password

event config set-proxy-password

Modify password for proxy server

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

Description

Use the `event config set-proxy-password` command to set the password for authenticated access to an HTTP or HTTPS proxy being used for EMS notifications. This password is used with the user name you specify using the event config modify -proxy-user command to send EMS messages to REST API destinations through the proxy you specify using the event config modify -proxy-url command. IF you enter the command without parameters, the command prompts you for a password and for a confirmation of that password. Enter the same password at both prompts. The password is not displayed. If you want to clear the proxy password, use the event config modify -proxy-url command and set the URL to an empty string or '-'.

Parameters

Examples

The following example shows successful execution of this command:

```
cluster1::> event config set-proxy-password

Enter the password:
Confirm the password:
```

Related Links

- event config modify

event config show

Display log configuration parameters

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

Description

The `event config show` command displays information about the configuration of event notification and event logging for the cluster.

"Mail From" is the email address that the event notification system uses as the "From" address for email notifications.

"Mail Server" is the name or IP address of the SMTP server that the event notification system uses to send email notification of events.

"Proxy URL" is the HTTP or HTTPS proxy server URL used by rest-api type EMS notification destinations if your organization uses a proxy.

"Proxy User Name" is the user name for the HTTP or HTTPS proxy server if authentication is required.

"Is Publish/Subscribe Messaging Enabled?" indicates whether or not events are published to the Publish/Subscribe messaging broker.

Examples

The following example displays the configuration of event notification for the cluster:

```
cluster1::> event config show
                              Mail From:  admin@example.com
                            Mail Server:  mail.example.com
                              Proxy URL:  -
                         Proxy User Name:  -
    Publish/Subscribe Messaging Enabled:  true
```

The following example displays the configuration of event notification with HTTP or HTTPS proxy:

```
cluster1::> event config show
                              Mail From:  admin@example.com
                            Mail Server:  mail.example.com
                              Proxy URL:  http://proxy.example.com:3128
                         Proxy User Name:  admin
    Publish/Subscribe Messaging Enabled:  true
```

event filter commands

event filter copy

Copy an event filter

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

Description

The `event filter copy` command copies an existing filter to a new filter. The new filter will be created with rules from the source filter. For more information, see the event filter create command.

Parameters

`-filter-name <text>` - Filter Name

Use this mandatory parameter to specify the name of the event filter to copy.

`-new-filter-name <text>` - New Event Filter Name

Use this mandatory parameter to specify the name of the new event filter to create and copy the rules.

Examples

The following example copies an existing event filter named emer-wafl-events to a new filter named filter1:

```
cluster1::> event filter show
Filter      Rule Rule                                    SNMP Trap
Name        Posn Type     Message Name     Severity      Type
Parameters
----------- ---- -------- ---------------- ------------- ---------
-----------
default-trap-events
            1    include  *                EMERGENCY, ALERT
                                                         *         *=*
            2    include  *                *             Standard, Built-
in
                                                                   *=*
            3    exclude  *                *             *         *=*
emer-wafl-events
            1    include  wafl.*           EMERGENCY     *         *=*
            2    exclude  *                *             *         *=*
important-events
            1    include  *                EMERGENCY, ALERT
                                                         *         *=*
            2    include  callhome.*       ERROR         *         *=*
            3    exclude  *                *             *         *=*
no-info-debug-events
            1    include  *                EMERGENCY, ALERT, ERROR, NOTICE
                                                         *         *=*
            2    exclude  *                *             *         *=*
10 entries were displayed.

cluster1::> event filter copy -filter-name emer-wafl-events -new-filter
-name filter1

cluster1::> event filter show
```

```
Filter      Rule Rule                                      SNMP Trap
Name        Posn Type     Message Name     Severity       Type
Parameters
----------- ---- -------- ---------------- -------------- ---------
-----------
default-trap-events
            1    include  *                EMERGENCY, ALERT
                                                          *          *=*
            2    include  *                *              Standard, Built-
in
                                                                     *=*
            3    exclude  *                *              *          *=*
emer-wafl-events
            1    include  wafl.*           EMERGENCY      *          *=*
            2    exclude  *                *              *          *=*
filter1
            1    include  wafl.*           EMERGENCY      *          *=*
            2    exclude  *                *              *          *=*
important-events
            1    include  *                EMERGENCY, ALERT
                                                          *          *=*
            2    include  callhome.*       ERROR          *          *=*
            3    exclude  *                *              *          *=*
no-info-debug-events
            1    include  *                EMERGENCY, ALERT, ERROR, NOTICE
                                                          *          *=*
            2    exclude  *                *              *          *=*
12 entries were displayed.
```

Related Links

- event filter create

event filter create

Create a new event filter.

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

Description

The `event filter create` command creates a new event filter. An event filter is used to select the events of interest and is made up of one or more rules, each of which contains the following three fields:

*

- name - event (message) name.
- severity - event severity.

- snmp-trap-type - event SNMP trap type.

```
 These fields are evaluated for a match using a logical "AND" operation:
name AND severity AND SNMP trap type. Within a field, the specified
values are evaluated with an implicit logical "OR" operation. So, if `-
snmp-trap-type` ``_Standard, Built-in_`` is specified, then the event
must match ``_Standard_`` OR ``_Built-in_`` . The wildcard matches all
values for the field.
* Type - include or exclude. When an event matches an include rule, it
will be included into the filter, whereas it will be excluded from the
filter if it matches an exclude rule.
```

Rules are checked in the order they are listed for a filter, until a match is found. There is an implicit rule at the end that matches every event to be excluded. For more information, see the `event filter rule` command.

There are three system-defined event filters provided for your use:

- default-trap-events - This filter matches all ALERT and EMERGENCY events. It also matches all Standard, Built-in SNMP trap type events.
- important-events - This filter matches all ALERT and EMERGENCY events.
- no-info-debug-events - This filter matches all non-INFO and non-DEBUG messages (EMERGENCY, ALERT, ERROR and NOTICE).

The system-defined event filters cannot be modified or deleted.

Parameters

`-filter-name <text>` - Filter Name

Use this mandatory parameter to specify the name of the event filter to create. An event filter name is 2 to 64 characters long. Valid characters are the following ASCII characters: A-Z, a-z, 0-9, "*", and "-". The name must start and end with: A-Z, a-z, "*", or 0-9.

`[-access-control-role <text>]` - Access Control Role (privilege: advanced)

Use this parameter to specify the access control role of the event filter. Access control role indicates the user role which created the filter and is used to control access to the filter based on RBAC rules.

This is an optional field. If not specified, the currently logged in user role is used. If created by the 'admin' user, the field is left unset.

Examples

The following example creates an event filter named filter1:

```
cluster1::> event filter create -filter-name filter1

cluster1::> event filter show
Filter      Rule Rule                                    SNMP Trap
Name        Posn Type     Message Name     Severity      Type
Parameters
----------- ---- -------- ---------------- ------------- ---------
-----------
default-trap-events
            1    include  *                EMERGENCY, ALERT
                                                         *         *=*
            2    include  *                *             Standard, Built-
in
                                                                   *=*
            3    exclude  *                *             *         *=*
filter1
            1    exclude  *                *             *         *=*
important-events
            1    include  *                EMERGENCY, ALERT
                                                         *         *=*
            2    include  callhome.*       ERROR         *         *=*
            3    exclude  *                *             *         *=*
no-info-debug-events
            1    include  *                EMERGENCY, ALERT, ERROR, NOTICE
                                                         *         *=*
            2    exclude  *                *             *         *=*
9 entries were displayed.
```

event filter delete

Delete existing event filters

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

Description

The `event filter delete` command deletes an existing event filter, along with all its rules.

The system-defined event filters cannot be deleted.

For more information, see the event filter create command.

Parameters

`-filter-name <text>` - Filter Name

Use this mandatory parameter to specify the name of the event filter to delete.

Examples

The following example deletes an event filter named filter1:

```
cluster1::> event filter show
Filter      Rule Rule                                    SNMP Trap
Name        Posn Type     Message Name     Severity      Type
Parameters
----------- ---- -------- ---------------- ------------- ---------
-----------
default-trap-events
            1    include  *                EMERGENCY, ALERT
                                                         *         *=*
            2    include  *                *             Standard, Built-
in
                                                                   *=*
            3    exclude  *                *             *         *=*
filter1
            1    include  wafl.*           EMERGENCY     *         *=*
            2    exclude  *                *             *         *=*
important-events
            1    include  *                EMERGENCY, ALERT
                                                         *         *=*
            2    include  callhome.*       ERROR         *         *=*
            3    exclude  *                *             *         *=*
no-info-debug-events
            1    include  *                EMERGENCY, ALERT, ERROR, NOTICE
                                                         *         *=*
            2    exclude  *                *             *         *=*
10 entries were displayed.

cluster1::> event filter delete -filter-name filter1

cluster1::> event filter show
Filter      Rule Rule                                    SNMP Trap
Name        Posn Type     Message Name     Severity      Type
Parameters
----------- ---- -------- ---------------- ------------- ---------
-----------
default-trap-events
            1    include  *                EMERGENCY, ALERT
                                                         *         *=*
            2    include  *                *             Standard, Built-
in
                                                                   *=*
            3    exclude  *                *             *         *=*
```

```
important-events
            1    include  *                EMERGENCY, ALERT
                                                    *          *=*
            2    include  callhome.*       ERROR          *          *=*
            3    exclude  *                *              *          *=*
no-info-debug-events
            1    include  *                EMERGENCY, ALERT, ERROR, NOTICE
                                                    *          *=*
            2    exclude  *                *              *          *=*
8 entries were displayed.
```

Related Links

- event filter create

event filter prepare-for-revert

Deletes unsupported filter or updates unsupported parameter-criteria (parameter-criteria values other than **=**)

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

Description

The `event filter prepare-for-revert` command can be used to remove event filters or update event filter rules that are not supported when the cluster reverts to the previous release. Event filters with rules having a `parameter-criteria` value other than `*=*` are not supported.

Parameters

{ `-delete-unsupported-filters {true|false}` - Clear Unsupported Filters (privilege: advanced)

Use this parameter to delete the event filters that are not supported in the previous release.

| `-update-unsupported-filter-param-criteria {true|false}` - Update Unsupported Filter Parameter Criteria (privilege: advanced) }

Use this parameter to update the event filter rules that are not supported in the previous release to `*=*` .

Examples

The following shows examples of "event filter prepare-for-revert":

```
cluster1::> event filter show
Filter      Rule Rule                                SNMP Trap
Name        Posn Type     Message Name  Severity     Type       Parameters
----------- ---- -------- ------------- ----------- ---------- ----------
default-trap-events
            1    include  *             EMERGENCY, ALERT
                                                    *          *=*
```

```
            2    include  *              *           Standard, Built-in
                                                     *=*
            3    exclude  *              *           *         *=*
important-events
            1    include  *              EMERGENCY, ALERT
                                                     *         *=*
            2    include  callhome.*     ERROR       *         *=*
            3    exclude  *              *           *         *=*
no-info-debug-events
            1    include  *              EMERGENCY, ALERT, ERROR, NOTICE
                                                     *         *=*
            2    exclude  *              *           *         *=*
wafl-filter
            1    include  wafl.*         EMERGENCY   *         vol=xyz
            2    exclude  *              *           *         *=*
10 entries were displayed.

cluster1::*> event filter prepare-for-revert -delete-unsupported-filters
true

cluster1::> event filter show
Filter      Rule Rule                                SNMP Trap
Name        Posn Type     Message Name  Severity     Type       Parameters
----------- ---- -------- ------------- ----------- --------- ----------
default-trap-events
            1    include  *              EMERGENCY, ALERT
                                                     *         *=*
            2    include  *              *           Standard, Built-in
                                                     *=*
            3    exclude  *              *           *         *=*
important-events
            1    include  *              EMERGENCY, ALERT
                                                     *         *=*
            2    include  callhome.*     ERROR       *         *=*
            3    exclude  *              *           *         *=*
no-info-debug-events
            1    include  *              EMERGENCY, ALERT, ERROR, NOTICE
                                                     *         *=*
            2    exclude  *              *           *         *=*
8 entries were displayed.
```

event filter rename

Rename an event filter

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

Description

The `event filter rename` command is used to rename an existing event filter.

There are system-defined event filters provided for your use. The system-defined event filters cannot be modified or deleted.

For more information, see the event filter create comamnd.

Parameters

`-filter-name <text>` - Filter Name

Use this mandatory parameter to specify the name of the event filter to rename.

`-new-filter-name <text>` - New Event Filter Name

Use this mandatory parameter to specify the new name the event filter should be renamed to.

Examples

The following example renames an existing filter named filter1 as emer-wafl-events:

```
cluster1::> event filter show
Filter      Rule Rule                                    SNMP Trap
Name        Posn Type     Message Name     Severity      Type
Parameters
----------- ---- -------- ---------------- ------------- ---------
-----------
default-trap-events
            1    include  *                EMERGENCY, ALERT
                                                         *         *=*
            2    include  *                *             Standard, Built-
in
                                                                   *=*
            3    exclude  *                *             *         *=*
filter1
            1    include  wafl.*           EMERGENCY     *         *=*
            2    exclude  *                *             *         *=*
important-events
            1    include  *                EMERGENCY, ALERT
                                                         *         *=*
            2    include  callhome.*       ERROR         *         *=*
            3    exclude  *                *             *         *=*
no-info-debug-events
            1    include  *                EMERGENCY, ALERT, ERROR, NOTICE
                                                         *         *=*
            2    exclude  *                *             *         *=*
10 entries were displayed.
cluster1::> event filter rename -filter-name filter1 -new-filter-name
```

```
emer-wafl-events

cluster1::> event filter show
Filter      Rule Rule                                    SNMP Trap
Name        Posn Type     Message Name     Severity      Type
Parameters
----------- ---- -------- ---------------- ------------- ---------
-----------
default-trap-events
            1    include  *                EMERGENCY, ALERT
                                                         *         *=*
            2    include  *                *             Standard, Built-
in
                                                                   *=*
            3    exclude  *                *             *         *=*
emer-wafl-events
            1    include  wafl.*           EMERGENCY     *         *=*
            2    exclude  *                *             *         *=*
important-events
            1    include  *                EMERGENCY, ALERT
                                                         *         *=*
            2    include  callhome.*       ERROR         *         *=*
            3    exclude  *                *             *         *=*
no-info-debug-events
            1    include  *                EMERGENCY, ALERT, ERROR, NOTICE
                                                         *         *=*
            2    exclude  *                *             *         *=*
10 entries were displayed.
```

Related Links

- event filter create

event filter show-summary

Display event filter summary

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

Description

The `event filter show-summary` command displays a summary of all the event filters. For more details, use the event filter show command.

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.

[-filter-name <text>] - Filter Name (privilege: advanced)

Selects the event filters that match this parameter value.

[-rule-count <integer>] - Number of Rules (privilege: advanced)

Selects the event filters that match this parameter value.

[-system-defined {true|false}] - System-Defined Filter (privilege: advanced)

Selects the event filters that match this parameter value. System-defined filters are defined by the system and cannot be modified or deleted.

[-access-control-role <text>] - Access Control Role (privilege: advanced)

Selects the event filters that match this parameter value. The access control role indicates the user role that created the filter and is used to control access to the filter based on RBAC rules. For filters created by 'admin', the access control role is empty (indicated by '-').

Examples

The following example displays the event filter summary:

```
cluster-1::*> event filter show-summary
Filter Name         Rule Count  System-Defined Access Control Role
------------------  ----------  -------------- -------------------
default-trap-events
                    4           true           -
important-events    3           true           -
no-info-debug-events
                    2           true           -
test_filter         1           false          test_role
4 entries were displayed.
```

Related Links

- event filter show

event filter show

Display the list of existing event filters.

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

Description

The `event filter show` command displays all the event filters which are configured. An event filter is used to select the events of interest and is made up of one or more rules, each of which contains the following three fields:

*

- name - event (message) name.
- severity - event severity.
- snmp-trap-type - event SNMP trap type.

```
 These fields are evaluated for a match using a logical "AND" operation:
name AND severity AND SNMP trap type. Within a field, the specified
values are evaluated with an implicit logical "OR" operation. So, if `-
snmp-trap-type` ``_Standard, Built-in_`` is specified, then the event
must match ``_Standard_`` OR ``_Built-in_`` . The wildcard matches all
values for the field.
* Type - include or exclude. When an event matches an include rule, it
will be included into the filter, whereas it will be excluded from the
filter if it matches an exclude rule.
```

Rules are checked in the order they are listed for a filter, until a match is found. There is an implicit rule at the end that matches every event to be excluded. For more information, see `event filter rule` command.

There are three system-defined event filters provided for your use:

- default-trap-events - This filter matches all ALERT and EMERGENCY events. It also matches all Standard, Built-in SNMP trap type events.
- important-events - This filter matches all ALERT and EMERGENCY events.
- no-info-debug-events - This filter matches all non-INFO and non-DEBUG messages (EMERGENCY, ALERT, ERROR and NOTICE).

The system-defined event filters cannot be modified or deleted.

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.

[-filter-name <text>] - Filter Name

Selects the event filters that match this parameter value.

[-position <integer>] - Rule Position

Selects the event filters that match this parameter value.

[-type {include|exclude}] - Rule Type

Selects the event filters that match this parameter value. The rule types are as follows:

- include - Events matching this rule are included in the specified filter.
- exclude - Events matching this rule are excluded in the specified filter.

[-message-name <text>] - Message Name

Selects the event filters that match this parameter value.

[-severity <text>,…] - Severity

Selects the events that match this parameter value. Severity levels:

- EMERGENCY - Disruption.
- ALERT - Single point of failure.
- ERROR - Degradation.
- NOTICE - Information.
- INFORMATIONAL - Information.
- DEBUG - Debug information.
- * - Includes all severities.

[-snmp-trap-type <text>,…] - SNMP Trap Type

Selects the event filters that match this parameter value. The SNMP trap types are as follows:

- Standard - Traps defined in RFCs.
- Built-in - Enterprise traps specific to events.
- Severity-based - Traps specific to events that do not belong to the above two types.
- * - Includes all SNMP trap types.

[-parameter-criteria [key>=<value],…] - Parameter Criteria

Selects the event filters that match this parameter-criteria value.

[-system-defined {true|false}] - System-Defined Filter

Selects the event filters that match this parameter value.

[-access-control-role <text>] - Access Control Role (privilege: advanced)

Selects the event filters that match this parameter value.

Examples

The following example displays the event filters:

```
cluster1::> event filter show
Filter      Rule Rule                                    SNMP Trap
Name        Posn Type     Message Name     Severity      Type
Parameters
----------- ---- -------- ---------------- ------------- ---------
-----------
default-trap-events
            1    include  *                EMERGENCY, ALERT
                                                         *         *=*
            2    include  callhome.*       ERROR         *         *=*
            3    include  *                *             Standard, Built-
in
                                                                   *=*
            4    exclude  *                *             *         *=*
important-events
            1    include  *                EMERGENCY, ALERT
                                                         *         *=*
            2    include  callhome.*       ERROR         *         *=*
            3    exclude  *                *             *         *=*
no-info-debug-events
            1    include  *                EMERGENCY, ALERT, ERROR, NOTICE
                                                         *         *=*
            2    exclude  *                *             *         *=*
9 entries were displayed.
```

The following example displays the event filters queried on the SNMP trap type value "Standard":

```
cluster1::> event filter show -snmp-trap-type Standard
Filter      Rule Rule                                    SNMP Trap
Name        Posn Type     Message Name     Severity      Type
Parameters
----------- ---- -------- ---------------- ------------- ---------
-----------
default-trap-events
            3    include  *                *             Standard, Built-
in
                                                                   *=*
```

The following example displays the event filters with one or more rules that have no condition on the SNMP trap type. Note that the wildcard character has to be specified in double-quotes. Without double-quotes, output would be the same as not querying on the field.

```
cluster1::> event filter show -snmp-trap-type "*"
Filter      Rule Rule                                    SNMP Trap
Name        Posn Type     Message Name     Severity      Type
Parameters
----------- ---- -------- ---------------- ------------- ---------
-----------
default-trap-events
            1    include  *                EMERGENCY, ALERT
                                                         *         *=*
            2    include  callhome.*       ERROR         *         *=*
            4    exclude  *                *             *         *=*
important-events
            1    include  *                EMERGENCY, ALERT
                                                         *         *=*
            2    include  callhome.*       ERROR         *         *=*
            3    exclude  *                *             *         *=*
no-info-debug-events
            1    include  *                EMERGENCY, ALERT, ERROR, NOTICE
                                                         *         *=*
            2    exclude  *                *             *         *=*
8 entries were displayed.
```

event filter test

Test an event filter

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

Description

The `event filter test` command is used to test an event filter. When specified with a message name, the command displays whether the message name is included or excluded from the filter. When specified without a message name, the command displays the number of events from the catalog that match the filter. For more information, see the event filter create command.

Parameters

`-filter-name <text>` - Filter Name

Use this mandatory parameter to specify the name of the event filter to test.

`[-message-name <Message Name>]` - Message Name

Use this optional parameter to specify the message name of the event to test against the filter.

Examples

The following example tests an event filter named err-wafl-no-scan-but-clone:

```
cluster1::> event filter show
Filter      Rule Rule                                    SNMP Trap
Name        Posn Type     Message Name     Severity      Type
Parameters
----------- ---- -------- ---------------- ------------- ---------
-----------
default-trap-events
            1    include  *                EMERGENCY, ALERT
                                                         *         *=*
            2    include  *                *             Standard, Built-
in
                                                                   *=*
            3    exclude  *                *             *         *=*
err-wafl-no-scan-but-clone
            1    include  wafl.scan.clone.*
                                          *             *         *=*
            2    exclude  wafl.scan.*      *             *         *=*
            3    include  wafl.*           EMERGENCY, ALERT, ERROR
                                                         *         *=*
            4    exclude  *                *             *         *=*
important-events
            1    include  *                EMERGENCY, ALERT
                                                         *         *=*
            2    include  callhome.*       ERROR         *         *=*
            3    exclude  *                *             *         *=*
no-info-debug-events
            1    include  *                EMERGENCY, ALERT, ERROR, NOTICE
                                                         *         *=*

Filter      Rule Rule                                    SNMP Trap
Name        Posn Type     Message Name     Severity      Type
Parameters
----------- ---- -------- ---------------- ------------- ---------
-----------
no-info-debug-events
            2    exclude  *                *             *         *=*
12 entries were displayed.

cluster1::> event filter test -filter-name err-wafl-no-scan-but-clone
271 events will be included in the given filter.

cluster1::> event filter test -filter-name err-wafl-no-scan-but-clone
-message-name wafl.scan.clone.split.cantLock
The message-name "wafl.scan.clone.split.cantLock" is included in the given
filter.
```

```
cluster1::> event filter test -filter-name err-wafl-no-scan-but-clone
-message-name wafl.scan.layout.cantWrite
The message-name "wafl.scan.layout.cantWrite" is excluded from the given
filter.
```

Related Links

- event filter create

event filter update-access-control-role

Update access-control-role of an event filter

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

Description

The `event filter update-access-control-role` command is used to update the 'access-control-role' field of an existing event filter.

Parameters

`-filter-name <text>` - Filter Name (privilege: advanced)

Specify the event filter name with this mandatory parameter.

`-new-access-control-role <text>` - New Access Control Role (privilege: advanced)

Specify the new access control role with this mandatory parameter.

Examples

This example shows how to update the access control role of an event filter named filter1:

```
cluster1::*> event filter show-summary
Filter Name         Rule Count  System-Defined Access Control Role
------------------  ----------  -------------- ------------------
default-trap-events
                    4           true           -
filter1             2           false          -
important-events    3           true           -
no-info-debug-events
                    2           true           -
4 entries were displayed.

cluster1::*> event filter update-access-control-role -filter-name filter1
-new-access-control-role new_role

cluster1::*> event filter show-summary
Filter Name         Rule Count  System-Defined Access Control Role
------------------  ----------  -------------- ------------------
default-trap-events
                    4           true           -
filter1             2           false          new_role
important-events    3           true           -
no-info-debug-events
                    2           true           -
4 entries were displayed.
```

event filter rule add

Add a rule for an event filter

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

Description

The `event filter rule add` command adds a new rule to an existing event filter. See event filter create for more information on event filters and how to create a new event filter.

Parameters

`-filter-name <text>` - Filter Name

Use this mandatory parameter to specify the name of the event filter to add the rule. Rules cannot be added to system-defined event filters.

`[-position <integer>]` - Rule Position

Use this optional parameter to specify the position of the rule in the event filter. It should be in the range (1..n-1), where 'n' is the position of the last rule, which is an implicit rule. Rules are checked in the order they are listed for a filter, until a match is found.

-type {include|exclude} - Rule Type

Use this mandatory parameter to specify the type of the rule which determines whether to include or exclude the events that match this rule.

[-message-name <text>] - Message Name

Use this parameter to specify the message name of the event to include or exclude from the filter.

[-severity <text>,…] - Severity

Use this parameter to specify the list of severity values to match against the events. Enter multiple severities separated by a comma. To enter all severities, the wild card (*) can be used. The wild card cannot be specified with other severities. The default value is *.

[-snmp-trap-type <text>,…] - SNMP Trap Type

Use this parameter to specify the list of the SNMP trap type values to match against the events. Enter multiple SNMP trap types seperated by comma. To enter all SNMP trap types, the wild card (*) can be used. The wild card cannot be specified with other SNMP trap types. The default value is *.

[-parameter-criteria [key>=<value],…] - Parameter Criteria

Use this parameter to match against event parameters. Each parameter consists of a name and a value. When multiple parameter criteria are provided in a rule, they all need to match for the rule to be considered matched. A pattern can include one or more wildcard '*' characters.

Examples

The following example adds a rule to an existing event filter "emer-and-wafl": All events with severity EMERGENCY and message name starting with "wafl.**" are included in the filter. Not specifiying the SNMP trap type implies a default value of ""**.

```
cluster1::> event filter rule add -filter-name emer-and-wafl -type include
-message-name wafl.*  -severity EMERGENCY
cluster1::> event filter show
Filter      Rule Rule                                    SNMP Trap
Name        Posn Type     Message Name     Severity      Type
Parameters
----------- ---- -------- ---------------- ------------- ---------
-----------
default-trap-events
            1    include  *                EMERGENCY, ALERT
                                                         *         *=*
            2    include  *                *             Standard, Built-
in
                                                                   *=*
            3    exclude  *                *             *         *=*
emer-and-wafl
            1    include  wafl.*           EMERGENCY     *         *=*
            2    exclude  *                *             *         *=*
important-events
            1    include  *                EMERGENCY, ALERT
                                                         *         *=*
            2    include  callhome.*       ERROR         *         *=*
            3    exclude  *                *             *         *=*
no-info-debug-events
            1    include  *                EMERGENCY, ALERT, ERROR, NOTICE
                                                         *         *=*
            2    exclude  *                *             *         *=*
10 entries were displayed.
```

The following example adds a rule to the event filter "emer-and-wafl" at position 1: All events with severity ALERT and message name starting with "wafl.scan.*" are included in the filter.

```
cluster1::> event filter rule add -filter-name emer-and-wafl -type include
-message-name wafl.scan.* -position 1 -severity ALERT

cluster1::> event filter show
Filter      Rule Rule                                    SNMP Trap
Name        Posn Type     Message Name     Severity      Type
Parameters
----------- ---- -------- ---------------- ------------- ---------
-----------
default-trap-events
            1    include  *                EMERGENCY, ALERT
                                                         *         *=*
            2    include  *                *             Standard, Built-
in
                                                                   *=*
            3    exclude  *                *             *         *=*
emer-and-wafl
            1    include  wafl.scan.*      ALERT         *         *=*
            2    include  wafl.*           EMERGENCY     *         *=*
            3    exclude  *                *             *         *=*
important-events
            1    include  *                EMERGENCY, ALERT
                                                         *         *=*
            2    include  callhome.*       ERROR         *         *=*
            3    exclude  *                *             *         *=*
no-info-debug-events
            1    include  *                EMERGENCY, ALERT, ERROR, NOTICE
                                                         *         *=*
            2    exclude  *                *             *         *=*
11 entries were displayed.
```

The following example adds a rule to the event filter "emer-and-wafl" to include all "Standard" SNMP trap type events:

```
cluster1::> event filter rule add -filter-name emer-and-wafl -type include
-snmp-trap-type Standard

cluster1::> event filter show
Filter      Rule Rule                                    SNMP Trap
Name        Posn Type     Message Name     Severity      Type
Parameters
----------- ---- -------- ---------------- ------------- ---------
-----------
default-trap-events
            1    include  *                EMERGENCY, ALERT
                                                         *         *=*
            2    include  *                *             Standard, Built-
in
                                                                   *=*
            3    exclude  *                *             *         *=*
emer-and-wafl
            1    include  wafl.scan.*      ALERT         *         *=*
            2    include  wafl.*           EMERGENCY     *         *=*
            3    include  *                *             Standard  *=*
            4    exclude  *                *             *         *=*
important-events
            1    include  *                EMERGENCY, ALERT
                                                         *         *=*
            2    include  callhome.*       ERROR         *         *=*
            3    exclude  *                *             *         *=*
no-info-debug-events
            1    include  *                EMERGENCY, ALERT, ERROR, NOTICE
                                                         *         *=*
            2    exclude  *                *             *         *=*
12 entries were displayed.
```

The following example adds a rule to the event filter "emer-and-wafl" to include all "wafl" events whose parameters have a parameter named "type" and its value matches "volume":

```
cluster1::> event filter rule add -filter-name emer-and-wafl -type include
-message-name wafl.* -position 1 -parameter-criteria type=volume

cluster1::> event filter show -filter-name emer-and-wafl
Filter      Rule Rule                                    SNMP Trap
Name        Posn Type     Message Name     Severity      Type
Parameters
----------- ---- -------- ---------------- ------------- ---------
-----------
emer-and-wafl
            1    include  wafl.*           *             *
type=volume
            2    include  wafl.scan.*      ALERT         *         *=*
            3    include  wafl.*           EMERGENCY     *         *=*
            4    include  *                *             Standard  *=*
            5    exclude  *                *             *         *=*
5 entries were displayed.
```

Related Links

- event filter create

event filter rule delete

Delete a rule for an event filter

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

Description

The `event filter rule delete` command deletes a rule from an event filter. The position of all the rules following the deleted rule is updated to maintain a contiguous sequence. Use event filter show command to view the filters and the rules associated with them.

Parameters

`-filter-name <text>` - Filter Name

Use this mandatory parameter to specify the name of the event filter from which you want to delete the rule. Rules cannot be deleted from system-defined filters.

`-position <integer>` - Rule Position

Use this mandatory parameter to specify the position of the rule to delete from the filter. It should be in the range (1..n-1), where 'n' is the position of the last rule, which is an implicit rule.

Examples

The following example deletes a rule at position 2 from an existing event filter "emer-and-wafl":

```
cluster1::> event filter show
Filter      Rule Rule                                    SNMP Trap
Name        Posn Type     Message Name     Severity      Type
Parameters
----------- ---- -------- ---------------- ------------- ---------
-----------
default-trap-events
            1    include  *                EMERGENCY, ALERT
                                                         *         *=*
            2    include  *                *             Standard, Built-
in
                                                                   *=*
            3    exclude  *                *             *         *=*
emer-and-wafl
            1    include  wafl.scan.*      ALERT         *         *=*
            2    include  wafl.*           EMERGENCY     *         *=*
            3    include  *                *             Standard  *=*
            4    exclude  *                *             *         *=*
important-events
            1    include  *                EMERGENCY, ALERT
                                                         *         *=*
            2    include  callhome.*       ERROR         *         *=*
            3    exclude  *                *             *         *=*
no-info-debug-events
            1    include  *                EMERGENCY, ALERT, ERROR, NOTICE
                                                         *         *=*
            2    exclude  *                *             *         *=*
12 entries were displayed.
cluster1::> event filter rule delete -filter-name emer-and-wafl -position
2

cluster1::> event filter show
Filter      Rule Rule                                    SNMP Trap
Name        Posn Type     Message Name     Severity      Type
Parameters
----------- ---- -------- ---------------- ------------- ---------
-----------
default-trap-events
            1    include  *                EMERGENCY, ALERT
                                                         *         *=*
            2    include  *                *             Standard, Built-
in
                                                                   *=*
            3    exclude  *                *             *         *=*
emer-and-wafl
            1    include  wafl.scan.*      ALERT         *         *=*
```

```
            2    include  *                *              Standard  *=*
            3    exclude  *                *              *         *=*
important-events
            1    include  *                EMERGENCY, ALERT
                                                         *         *=*
            2    include  callhome.*       ERROR          *         *=*
            3    exclude  *                *              *         *=*
no-info-debug-events
            1    include  *                EMERGENCY, ALERT, ERROR, NOTICE
                                                         *         *=*
            2    exclude  *                *              *         *=*
11 entries were displayed.
```

Related Links

- event filter show

event filter rule reorder

Modify the index of a rule for an event filter

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

Description

The `event filter rule reorder` command moves a rule to a new position in an existing event filter. Use event filter show command to display all the event filters and the rules associated with them.

Parameters

`-filter-name <text>` - Filter Name

Use this mandatory parameter to specify the name of the event filter from which you want to change the position of the rule. Rules from system-defined event filters cannot be modified.

`-position <integer>` - Rule Positon

Use this mandatory parameter to specify the position of the rule you want to change. It should be in the range (1..n-1), where 'n' is the position of the last rule, which is an implicit rule.

`-to-position <integer>` - New Rule Position

Use this mandatory parameter to specify the new position to move the rule. It should be in the range (1..n-1), where 'n' is the position of the last rule, which is an implicit rule.

Examples

The following example changes the position of a rule from 1 to 2 from an existing event filter "emer-and-wafl":

```
cluster1::> event filter show
Filter      Rule Rule                                    SNMP Trap
Name        Posn Type     Message Name     Severity      Type
```

```
Parameters
----------- ---- -------- ---------------- ------------ ---------
-----------
default-trap-events
            1    include  *                EMERGENCY, ALERT
                                                      *          *=*
            2    include  *                *             Standard, Built-
in
                                                                 *=*
            3    exclude  *                *             *          *=*
emer-and-wafl
            1    include  wafl.scan.*      ALERT         *          *=*
            2    include  *                *             Standard   *=*
            3    exclude  *                *             *          *=*
important-events
            1    include  *                EMERGENCY, ALERT
                                                      *          *=*
            2    include  callhome.*       ERROR         *          *=*
            3    exclude  *                *             *          *=*
no-info-debug-events
            1    include  *                EMERGENCY, ALERT, ERROR, NOTICE
                                                      *          *=*
            2    exclude  *                *             *          *=*
11 entries were displayed.

cluster1::> event filter rule reorder -filter-name emer-and-wafl -position
1 -to-position 2

cluster1::> event filter show
Filter      Rule Rule                                    SNMP Trap
Name        Posn Type     Message Name     Severity      Type
Parameters
----------- ---- -------- ---------------- ------------ ---------
-----------
default-trap-events
            1    include  *                EMERGENCY, ALERT
                                                      *          *=*
            2    include  *                *             Standard, Built-
in
                                                                 *=*
            3    exclude  *                *             *          *=*
emer-and-wafl
            1    include  *                *             Standard   *=*
            2    include  wafl.scan.*      ALERT         *          *=*
            3    exclude  *                *             *          *=*
important-events
```

```
            1    include  *                EMERGENCY, ALERT
                                                  *          *=*
            2    include  callhome.*       ERROR          *          *=*
            3    exclude  *                *              *          *=*
no-info-debug-events
            1    include  *                EMERGENCY, ALERT, ERROR, NOTICE
                                                  *          *=*
            2    exclude  *                *              *          *=*
11 entries were displayed.
```

Related Links

- event filter show

event log commands

event log show

Display latest log events

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

Description

The `event log show` command displays the contents of the event log, which lists significant occurrences within the cluster. Use the event catalog show command to display information about events that can occur.

By default, the command displays EMERGENCY, ALERT and ERROR severity level events with the following information, with the most recent events listed first:

- The time at which the event occurred
- The node on which the event occurred
- The severity of the event
- The event's message

To display detailed information about events, use one or more of the optional parameters that affect how the command output is displayed and the amount of detail that is included. For example, to display all detailed event information, use the `-detail` parameter.

To display NOTICE, INFORMATIONAL or DEBUG severity level events, use the `-severity` parameter.

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.

| [-detail]

Displays additional event information such the sequence number of the event.

| [-detailtime]

Displays detailed event information in reverse chronological order.

| [-instance] }

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

[-node {<nodename>|local}] - Node

Displays a list of events for the node you specify. Use this parameter with the `-seqnum` parameter to display detailed information.

[-seqnum <Sequence Number>] - Sequence#

Selects the events that match this parameter value. Use with the `-node` parameter to display detailed information.

[-time <MM/DD/YYYY HH:MM:SS>] - Time

Selects the events that match this parameter value. Use the format: MM/DD/YYYY HH:MM:SS [+- HH:MM]. You can specify a time range by using the ".." operator between two time statements.

```
show -time "08/13/2010 05:55:00".."08/13/2010 06:10:00"
```

Comparative time values are relative to "now". For example, to display only events that occurred within the last minute:

```
show -time >1m
```

+
NOTE: The month and date fields of this parameter are not zero-padded. These fields can be single digits: for example, "7/1/2019 05:55:00".

+

[-severity {EMERGENCY|ALERT|ERROR|NOTICE|INFORMATIONAL|DEBUG}] - Severity

Selects the events that match this parameter value. Severity levels are as follows:

- EMERGENCY - Disruption.
- ALERT - Single point of failure.
- ERROR - Degradation.
- NOTICE - Information.
- INFORMATIONAL - Information.
- DEBUG - Debug information.

To display all events, including ones with severity levels of NOTICE, INFORMATIONAL and DEBUG, specify severity as follows:

```
show -severity <=DEBUG
```

[-ems-severity {NODE_FAULT|SVC_FAULT|NODE_ERROR|SVC_ERROR|WARNING|NOTICE|INFO|DEBUG|VAR}] - EMS Severity (privilege: advanced)

Selects the events that match this parameter value. Severity levels:

- NODE_FAULT - Data corruption has been detected or the node is unable to provide client service
- SVC_FAULT - A temporary loss of service, typically a transient software fault, has been detected
- NODE_ERROR - A hardware error that is not immediately fatal has been detected
- SVC_ERROR - A software error that is not immediately fatal has been detected
- WARNING - A high-priority message that does not indicate a fault
- NOTICE - A normal-priority message that does not indicate a fault
- INFO - A low-priority message that does not indicate a fault
- DEBUG - A debugging message
- VAR - A message with variable severity, selected at runtime.

[-source <text>] - Source

Selects the events that match this parameter value (typically a software module).

[-message-name <Message Name>] - Message Name

Selects the events that match this parameter value (string). Message names are descriptive, so filtering output by message name displays messages of a specific type.

[-event <text>] - Event

Selects the events that match this parameter value. The "event" field contains the full text of the event, including any parameters. For example, a wafl.vol.offline event will contain the name of the volume taken offline.

[-kernel-generation-num <integer>] - Kernel Generation Number (privilege: advanced)

Selects the events that match this parameter value. Only events that emanate from the kernel have kernel generation numbers.

[-kernel-sequence-num <integer>] - Kernel Sequence Number (privilege: advanced)

Selects the events that match this parameter value. Only events that emanate from the kernel have kernel sequence numbers.

[-action <text>] - Corrective Action

Selects the events that match this parameter value. The "action" field describes what steps, if any, you must take to remedy the situation.

[-description <text>] - Description

Selects the events that match this parameter value. The "description" field describes why the event was encountered and what it means.

[-filter-name <Filter Name>] - Filter Name

Selects the events that match this parameter value. Only events that were included by existing filters that match this value are displayed.

Examples

The following example displays the event log:

```
cluster1::> event log show
Time                 Node             Severity      Event
-------------------- ---------------- -------------
------------------------
11/9/2015 13:54:19  node1            NOTICE        vifmgr.portup: A link
up event was received on node node1, port e0a.
11/9/2015 13:54:19  node1            NOTICE        vifmgr.portup: A link
up event was received on node node1, port e0d.
11/9/2015 13:54:19  node1            NOTICE        vifmgr.portup: A link
up event was received on node node1, port e0c.
11/9/2015 13:54:19  node1            NOTICE        vifmgr.portup: A link
up event was received on node node1, port e0b.
...
```

This example demonstrates how to use a range with the `-time` parameter to display all events that occurred during an extended time period. It displays all events that occurred between 1:45pm and 1:50pm on November 9, 2010.

```
cluster1::> event log show -time "11/9/2015 13:45:00".."11/9/2015 13:50:0"
```

The `-time` parameter also accepts values that are relative to "now". The following example displays events that occurred more than one hour ago:

```
cluster1::event log> show -time <1h
Time                 Node             Severity      Event
-------------------- ---------------- -------------
------------------------
11/9/2015 13:02:03  node1            INFORMATIONAL
monitor.globalStatus.ok: The system's global status is normal.
11/9/2015 13:02:03  node2            INFORMATIONAL
monitor.globalStatus.ok: The system's global status is normal.
...
```

Severity levels sort in the order opposite to what you might expect. The following example displays all events that have a severity level of ERROR or more severe:

```
cluster1::> event log show -severity <ERROR
```

Related Links

- event catalog show

event notification commands

event notification create

Create an event notification

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

Description

The ` event notification create` command is used to create a new notification of a set of events defined by an event filter to one or more notification destinations.

Parameters

`-filter-name <text>` - Filter Name

Use this mandatory parameter to specify the name of the event filter. Events that are included in the event filter are forwarded to the destinations specified in the destinations parameter.

The filter name passed to this command must be an existing filter. For more information, see the event filter create command.

`-destinations <text>,…` - List of Event Notification Destinations

Use this mandatory parameter to specify the list of destinations to which the notification should be forwarded. Enter multiple destinations separated by a comma.

The destination passed to this command must be an existing destination. For more information, see the `event destination create` command.

`[-access-control-role <text>]` - Access Control Role (privilege: advanced)

Use this parameter to specify the access control role of the event notification. Access control role indicates the user role that created the notification and is used to control access to the notification based on RBAC rules.

This is an optional field. If not specified, the currently logged in user role is used. If created by the 'admin' user, the field is left unset.

Examples

The following example creates an event notification for filter name "filter1" to destinations "email_dest, snmp-traphost and syslog_dest":

```
cluster1::> event notification destination show
                            Hide
Name            Type        Params   Destination
--------------  ----------  ------   --------------------
email_dest      email       false    test@example.com
snmp-traphost   snmp        true     10.27.12.1 (from "system snmp
traphost")
syslog_dest     syslog      false    10.23.12.1
3 entries were displayed.

cluster1::> event filter show -filter-name filter1
Filter      Rule Rule                                    SNMP Trap
Name        Posn Type     Message Name     Severity      Type
Parameters
----------- ---- -------- ---------------- ------------- ---------
-----------
filter1
            1    exclude  callhome.bad.ram *              *         *=*
            2    include  callhome.*       ALERT, ERROR   *         *=*
            3    exclude  *                *              *         *=*
3 entries were displayed.

cluster1::> event notification create -filter-name filter1 -destinations
email_dest,syslog_dest,snmp-traphost

cluster1::> event notification show
ID     Filter Name       Destinations
-----  ----------------  -----------------
1      filter1           email_dest, syslog_dest, snmp-traphost
```

Related Links

- event filter create

event notification delete

Delete event notifications

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

Description

The `event notification delete` command deletes an existing event notification.

Parameters

-ID <integer> - Event Notification ID

Use this parameter to specify the ID of the notification to be deleted.

Examples

The following example shows the deletion of event notification with ID 1:

```
cluster1::> event notification show
ID     Filter Name       Destinations
-----  ----------------  -----------------
1      filter1           email_dest, syslog_dest, snmp-traphost

cluster1::> event notification delete -ID 1

cluster1::> event notification show
This table is currently empty.
```

event notification modify

Modify event notifications

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

Description

The `event notification modify` command is used to modify an existing notification.

Parameters

-ID <integer> - Event Notification ID

Use this mandatory parameter to specify the ID of the notification to be modified.

[-filter-name <text>] - Event Filter Name

Use this parameter to specify the filter name to be modified.

[-destinations <text>,…] - List of Event Notification Destinations

Use this parameter to specify the destinations to be modified. Enter multiple destinations separated by a comma.

Provide the complete set of destinations to be modified. Individual destinations cannot be added or removed.

Examples

The following example shows the modification of the event notification with ID 1:

```
cluster1::> event notification show
ID     Filter Name       Destinations
-----  ----------------  -----------------
1      filter1           email_dest, syslog_dest, snmp-traphost

cluster1::> event notification modify -ID 1 -destinations email_dest,
syslog_dest

cluster1::>  event notification show
ID     Filter Name       Destinations
-----  ----------------  -----------------
1      filter1           email_dest, syslog_dest
```

event notification show

Display event notifications

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

Description

The `event notification show` command is used to display the list of existing event notifications.

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.

[-ID <integer>] - Event Notification ID

Use this parameter to display the detailed information about the notification ID you specify.

[-filter-name <text>] - Event Filter Name

Use this parameter to display event notifications that use the filter-name you specify.

[-destinations <text>,…] - List of Event Notification Destinations

Use this parameter to display event notifications that use the destinations you specify.

[-access-control-role <text>] - Access Control Role (privilege: advanced)

Use this parameter to display event notifications that use the specified access control role.

Examples

The following example displays the event notification:

```
cluster1::> event notification show
ID     Filter Name       Destinations
-----  ----------------  -----------------
1      filter1           email_dest, syslog_dest, snmp-traphost
```

event notification destination create

Create an event notification destination

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

Description

The `event notification destination create` command creates a new event notification destination of either email or syslog type.

The following system-defined notification destination is configured for your use:

- snmp-traphost - This destination reflects the configuration in "system snmp traphost".

Parameters

`-name <text>` - Destination Name

Use this mandatory parameter to specify the name of the notification destination that is to be created. An event notification destination name must be 2 to 64 characters long. Valid characters are the following ASCII characters: A-Z, a-z, 0-9, "_", and "-". The name must start and end with: A-Z, a-z, or 0-9.

{ `-email <mail address>` - Email Destination

Use this parameter to specify the email address event notifications are sent to. For events to properly generate email notifications, the event system must also be configured with an address and mail server from which the mail will be sent. See event config modify command for more information.

| `-syslog <text>` - Syslog Destination

Use this parameter to specify the syslog server host name or IP address syslog messages are sent to.

`[-syslog-port <integer>]` - Syslog Port

Use this parameter to specify the syslog server port value syslog messages are sent to. The default port used depends on the `syslog-transport` value. If the `syslog-transport` is set to *`tcp-encrypted`*, the `syslog-port` has the default value 6514. If the `syslog-transport` is set to *`tcp-unencrypted`*, the `syslog-port` has the default value 601. Otherwise, the default `syslog-port` is set to 514.

`[-syslog-transport {udp-unencrypted|tcp-unencrypted|tcp-encrypted}]` - Syslog Transport

Use this parameter to specify the transport protocol that is used to send the syslog messages.

The `syslog-transport` can be one of the following values:

- *`udp-unencrypted`* - User Datagram Protocol with no security
- *`tcp-unencrypted`* - Transmission Control Protocol with no security

- *tcp-encrypted* - Transmission Control Protocol with Transport Layer Security (TLS)

The default protocol is *udp-unencrypted* . + If *tcp-encrypted* transport is specified, then ONTAP verifies the identity of the destination host by validating its certificate. If the Online Certificate Status Protocol (OCSP) is enabled for Event Management System (EMS), then ONTAP uses that protocol to determine the certificate's revocation status. Use the (privilege: advanced) security config ocsp show -application ems command to determine if the OCSP-based certificate revocation status check is enabled for EMS.

[-syslog-message-format {legacy-netapp|rfc-5424}] - Syslog Message Format

Use this parameter to specify the message format to be used for EMS syslog messages.

The `syslog-message-format` can be one of the following values:

- *legacy-netapp* - Variation of RFC-3164 Syslog format (format: <PRIVAL>TIMESTAMP [HOSTNAME:Event-name:Event-severity]: MSG)
- *rfc-5424* - Syslog format as per RFC-5424 (format: <PRIVAL>VERSION TIMESTAMP HOSTNAME Event-source - Event-name - MSG)

Refer to the respective RFCs for detailed information on the syslog message formats. + The default message format is *legacy-netapp* .

[-syslog-timestamp-format-override {no-override|rfc-3164|iso-8601-utc|iso-8601-local-time}] - Syslog Timestamp Format Override

Use this parameter to override the default timestamp format (based on the `syslog-message-format` parameter) used for EMS syslog messages.

The `syslog-timestamp-format-override` can be one of the following values:

- *no-override* - Timestamp format based on the `syslog-message-format` parameter (*rfc-3164* if message format is *legacy-netapp* , *iso-8601-local-time* if message format is *rfc-5424*)
- *rfc-3164* - Timestamp format as per RFC-3164 (format: Mmm dd hh:mm:ss)
- *iso-8601-utc* - Timestamp format as per ISO-8601 in UTC (format: YYYY-MM-DDThh:mm:ssZ)
- *iso-8601-local-time* - Timestamp format as per ISO-8601 in local time (format: YYYY-MM-DDThh:mm:ss+/-hh:mm)

The default value is *no-override* . When this parameter is modified, its value persists even when `syslog-message-format` is updated. +

[-syslog-hostname-format-override {no-override|fqdn|hostname-only}] - Syslog Hostname Format Override

Use this parameter to override the default hostname format (based on the `syslog-message-format` parameter) used for EMS syslog messages.

The `syslog-hostname-format-override` can be one of the following values:

- *no-override* - Hostname format based on the `syslog-message-format` parameter (*fqdn* if message format is *rfc-5424* , *hostname-only* if message format is *legacy-netapp*)
- *fqdn* - Fully Qualified Domain Name (e.g., myhost.example.com)

- *hostname-only* - Hostname only, without the domain name (e.g., myhost)

The default value is *no-override* . When this parameter is modified, its value persists even when `syslog-message-format` is updated. +

| -rest-api-url <text> - REST API Server URL

Use this parameter to specify the REST API server URL to which event notifications are sent. Enter the full URL, which must start either with an http:// or https:// prefix. To specify a URL that contains a question mark, press ESC followed by the "?". + If a https:// URL is specified, then ONTAP verifies the identity of the destination host by validating its certificate. If the Online Certificate Status Protocol (OCSP) is enabled for Event Management System (EMS), then ONTAP uses that protocol to determine the certificate's revocation status. Use the (privilege: advanced) security config ocsp show -application ems command to determine if the OCSP-based certificate revocation status check is enabled for EMS.

[-certificate-authority <text>] - Client Certificate Issuing CA

Use this parameter to specify the name of the certificate authority (CA) that signed the client certificate that will be sent in case mutual authentication with the REST API server is required. + There can be multiple client certificates installed for the admin vserver in the cluster, and this parameter, along with the *certificate-serial* parameter, uniquely identifies which one. + Use the security certificate show command to see the list of certificates installed in the cluster.

[-certificate-serial <text>] - Client Certificate Serial Number }

Use this parameter to specify the serial number of the client certificate that will be sent in case mutual authentication with the REST API server is required.

[-access-control-role <text>] - Access Control Role (privilege: advanced)

Use this parameter to specify the access control role of the event notification destination. Access control role indicates the user role which created the destination and is used to control access to the destination based on RBAC rules.

ⓘ This is an optional field. If not specified, the currently logged in user role is used. If created by the 'admin' user, the field is left unset.

Examples

The following example shows the creation of a new event notification destination of type email called "StorageAdminEmail":

```
cluster1::> event notification destination create -name StorageAdminEmail
-email StorageAdmin@example.com

cluster1::> event notification destination show

Name            Type        Destination
--------------  ----------  --------------------
StorageAdminEmail
                email       StorageAdmin@example.com
snmp-traphost   snmp        10.30.40.10 (from "system snmp traphost")
2 entries were displayed.
```

The following example shows the creation of a new event notification destination of type rest-api called "RestApi":

```
cluster1::> event notification destination create -name RestApi -rest-api
-url https://rest.example.com/rest
-certificate-authority cluster1-root-ca -certificate-serial 052213E60B7088

cluster1::> event notification destination show -name RestApi -instance
Destination Name: RestApi
             Type of Destination: rest-api
              Destination Values: https://rest.example.com/rest
   Client Certificate Issuing CA: cluster1-root-ca
Client Certificate Serial Number: 052213E60B7088
       Client Certificate Valid?: -
                     Syslog Port: -
                Syslog Transport: -
           Syslog Message Format: -
Syslog Timestamp Format Override: -
 Syslog Hostname Format Override: -
      System-Defined Destination: false
```

Related Links

- event config modify
- security config ocsp show
- security certificate show

event notification destination delete

Delete existing event destinations

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

Description

The `event notification destination delete` command deletes an event notification destination.

The following system-defined notification destination is configured for your use:

- snmp-traphost - This destination reflects the configuration in "system snmp traphost". To remove snmp-traphost addresses, use the `system snmp traphost` command.

Parameters

`-name <text>` - Destination Name

Use this mandatory parameter to specify the name of an event destination to be removed.

Examples

The following shows the examples of deleting event notification destinations:

```
cluster1::> event notification destination show
Name            Type        Destination
    -------------  ----------  --------------------
    StorageAdminEmail
                   email       StorageAdmin@example.com
    StorageAdminSyslog
                   syslog      example.com
    snmp-traphost   snmp        10.30.40.10 (from "system snmp traphost")
    3 entries were displayed.
cluster1::> event notification destination delete -name StorageAdminEmail

    cluster1::> event notification destination show

    Name            Type        Destination
    -------------  ----------  --------------------
    StorageAdminSyslog
                   syslog      example.com
    snmp-traphost   snmp        10.30.40.10 (from "system snmp traphost")
    2 entries were displayed.
cluster1::> event notification destination delete -name Storage*
cluster1::> event notification destination show
Name            Type        Destination
    -------------  ----------  --------------------
    snmp-traphost   snmp        10.30.40.10 (from "system snmp traphost")
    1 entries were displayed.
```

event notification destination modify

Modify an event notification destination

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

Description

The `event notification destination modify` command modifies an event notification destination. More detailed information about parameters can be found in the man page for the event notification destination create command.

The following system-defined notification destination is configured for your use:

- snmp-traphost - This destination reflects the configuration in "system snmp traphost". To modify traphost addresses, use the `system snmp traphost` command.

Parameters

`-name <text>` - Destination Name

Use this mandatory parameter to specify the name of an event notification destination to be modified. The name of the destination must already exist.

{ `[-email <mail address>]` - Email Destination

Use this parameter to specify a new value of email address to replace the current address in the event notification destination. The parameter is specified only when the event notification destination type is already "email". It is not allowed to specify the parameter for a destination that already has another type of destination address.

| `[-syslog <text>]` - Syslog Destination

Use this parameter to specify a new syslog server host name or IP address to replace the current address of the event notification destination. The parameter is specified only when the event notification destination type is already "syslog". It is not allowed to specify the parameter for a destination that already has another type of destination address.

`[-syslog-port <integer>]` - Syslog Port

Use this parameter to specify a new syslog server port value to replace the current port value of the event notification destination. The parameter is specified only when the event notification destination type is already "syslog". It is not allowed to specify the parameter for a destination that already has another type of destination address.

`[-syslog-transport {udp-unencrypted|tcp-unencrypted|tcp-encrypted}]` - Syslog Transport

Use this parameter to specify a new syslog transport to replace the current transport of the event notification destination. The parameter is specified only when the event notification destination type is already "syslog". It is not allowed to specify the parameter for a destination that already has another type of destination address.

`[-syslog-message-format {legacy-netapp|rfc-5424}]` - Syslog Message Format

Use this parameter to specify a new syslog message format to replace the current message format of the event notification destination.

`[-syslog-timestamp-format-override {no-override|rfc-3164|iso-8601-utc|iso-8601-local-time}]` - Syslog Timestamp Format Override

Use this parameter to override the default syslog timestamp format (based on the `syslog-message-format` parameter) of the event notification destination.

`[-syslog-hostname-format-override {no-override|fqdn|hostname-only}]` - Syslog Hostname Format Override

Use this parameter to override the default syslog hostname format (based on the `syslog-message-format` parameter) of the event notification destination.

| `[-rest-api-url <text>]` - REST API Server URL

Use this parameter to specify a new REST API server URL to replace the current address of the event notification destination. Enter the full URL, which must start either with an http:// or https:// prefix. + To specify a URL that contains a question mark, press ESC followed by the "?". + If a https:// URL is specified, then ONTAP verifies the identity of the destination host by validating its certificate. If the Online Certificate Status Protocol (OCSP) is enabled for Event Management System (EMS), then ONTAP uses that protocol

to determine the certificate's revocation status. Use the `security config oscp show -application ems` command to determine if the OCSP-based certificate revocation status check is enabled for EMS. The parameter is specified only when the event notification destination type is already "rest-api". It is not allowed to specify the parameter for a destination that already has another type of destination address.

[-certificate-authority <text>] - Client Certificate Issuing CA

Use this parameter to specify a new value of the certificate authority (CA) to replace the current value in the event notification destination. There can be multiple client certificates installed for the admin vserver in the cluster, and this parameter, along with the *certificate-serial* parameter, uniquely identifies which one. + Use the security certificate show command to see the list of certificates installed in the cluster.

[-certificate-serial <text>] - Client Certificate Serial Number }

Use this parameter to specify a new serial number of the client certificate to replace the current value in the event notification destination.

[-access-control-role <text>] - Access Control Role (privilege: advanced)

Use this parameter to specify a new access control role to replace the current value in the event notification destination.

Examples

The following example shows the modification of event notification destinations:

```
cluster1::> event notification destination show

Name            Type        Destination
--------------  ----------  --------------------
StorageAdminEmail
                email       Storage@example.com
StorageAdminSyslog
                syslog      example.com
snmp-traphost   snmp        10.30.40.10 (from "system snmp traphost")
3 entries were displayed.

cluster1::> event notification destination modify -name StorageAdminEmail
-email StorageAdmin@example.com

cluster1::> event notification destination show

Name            Type        Destination
--------------  ----------  --------------------
StorageAdminEmail
                email       StorageAdmin@example.com
StorageAdminSyslog
                syslog      example.com
snmp-traphost   snmp        10.30.40.10 (from "system snmp traphost")
3 entries were displayed.
```

The following example shows how to clear the client certificate configuration when mutual authentication with the REST API server is no longer required:

```
cluster1::> event notification destination show -name RestApi -instance
Destination Name: RestApi
             Type of Destination: rest-api
              Destination Values: https://rest.example.com/rest
   Client Certificate Issuing CA: cluster1-root-ca
Client Certificate Serial Number: 052213E60B7088
       Client Certificate Valid?: -
                     Syslog Port: -
                Syslog Transport: -
           Syslog Message Format: -
Syslog Timestamp Format Override: -
 Syslog Hostname Format Override: -
      System-Defined Destination: false

cluster-1::> event notification destination modify -name RestApi
-certificate-authority - -certificate-serial -

cluster-1::> event notification destination show -name RestApi -instance
Destination Name: RestApi
             Type of Destination: rest-api
              Destination Values: https://rest.example.com/rest
   Client Certificate Issuing CA: -
Client Certificate Serial Number: -
       Client Certificate Valid?: -
                     Syslog Port: -
                Syslog Transport: -
           Syslog Message Format: -
Syslog Timestamp Format Override: -
 Syslog Hostname Format Override: -
      System-Defined Destination: false
```

Related Links

- event notification destination create
- security certificate show

event notification destination prepare-for-revert

Deletes or updates unsupported syslog destinations (transport=TCP or transport=UDP with non-default configurations: port, message-format, timestamp-format-override, hostname-format-override)

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

Description

The `event notification destination prepare-for-revert` can be used to remove or update syslog notification destinations that are not supported when the cluster reverts to the previous release. Supported syslog destinations are ones with *`udp-unencrypted`*`syslog-transport` using `syslog-port` *`514`* and *`legacy_netapp`*`syslog-message-format` with `syslog-timestamp-format-override` and `syslog-hostname-format-override` both set to *`no-override`* . Syslog destinations with any other configurations are not supported.

Parameters

{ `-delete-unsupported-syslog-destinations {true|false}` - Clear unsupported syslog destinations (privilege: advanced)

Use this parameter to delete syslog destinations that are not supported in the previous release.

| `-update-unsupported-syslog-destinations {true|false}` - Update unsupported syslog destinations to supported (privilege: advanced) }

Use this parameter to update syslog destinations that are not supported in the previous release with supported configurations.

Examples

The following shows examples of "event notification destination prepare-for-revert":

```
cluster1::*> event notification destination show
Name             Type         Destination
--------------  ----------  --------------------
snmp-traphost   snmp         - (from "system snmp traphost")
tst01           syslog       test.com (port: 6514, transport: tcp-
encrypted)
tst02           syslog       test.com (port: 601, transport: tcp-
unencrypted)
tst03           syslog       test.com (port: 1234, transport: udp-
unencrypted)
tst04           syslog       test.com (port: 514, transport: udp-
unencrypted)
5 entries were displayed.

cluster1::*> event notification destination prepare-for-revert -delete
-unsupported-syslog-destinations true

cluster1::*> event notification destination show
Name             Type         Destination
--------------  ----------  --------------------
snmp-traphost   snmp         - (from "system snmp traphost")
tst04           syslog       test.com (port: 514, transport: udp-
unencrypted)
2 entries were displayed.
```

event notification destination show

Display event notification destinations

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

Description

The `event notification destination show` command displays event notification destinations. More detailed information about parameters can be found in the man page for the event notification destination create command.

Note: In the case of a rest-api destination type or syslog destination type (with tcp-encrypted transport), Online Certificate Status Protocol (OCSP) information is not included. OCSP information is available in the security config ocsp show -app ems command.

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.

[-name <text>] - Destination Name

Use this optional parameter to display information of an event notification destination that has the specified name.

[-type {snmp|email|syslog|rest-api}] - Type of Destination

Use this optional parameter to display information of event notification destinations that have the specified destination type.

[-destination <text>,…] - Destination

Use this optional parameter to display information of event notification destinations that have the specified destination address. Enter multiple addresses separated by a comma.

[-server-ca-present {true|false}] - Server CA Certificates Present?

Use this optional parameter to display information of event notification destinations that have the specified server-ca-present value. This field indicates whether there are certificates of the server-ca type exist in the system. If not, event messages will not be sent to a rest-api type destination having an HTTPS URL.

[-certificate-authority <text>] - Client Certificate Issuing CA

Use this optional parameter to display information of event notification destinations that have the specified certificate authority name.

[-certificate-serial <text>] - Client Certificate Serial Number

Use this optional parameter to display information of event notification destinations that have the specified certificate serial number.

[-certificate-valid {true|false}] - Client Certificate Valid?

Use this optional parameter to display information of event notification destinations that have the specified certificate-valid value. This field indicates whether the client certificate specified by the certificate-authority and certificate-serial fields is valid. If not, and if the REST API server requires client authentication, event messages are not sent to the server.

[-syslog-port <integer>] - Syslog Port

Use this optional parameter to display information about an event notification destination that has the specified syslog port.

[-syslog-transport {udp-unencrypted|tcp-unencrypted|tcp-encrypted}] - Syslog Transport

Use this optional parameter to display information about an event notification destination that has the specified syslog transport.

[-syslog-message-format {legacy-netapp|rfc-5424}] - Syslog Message Format

Use this optional parameter to display information about an event notification destination that has the specified syslog message format.

[-syslog-timestamp-format-override {no-override|rfc-3164|iso-8601-utc|iso-8601-local-time}] - Syslog Timestamp Format Override

Use this optional parameter to display information about an event notification destination that has the specified syslog timestamp format override.

[-syslog-hostname-format-override {no-override|fqdn|hostname-only}] - Syslog Hostname Format Override

Use this optional parameter to display information about an event notification destination that has the specified syslog hostname format override.

[-system-defined {true|false}] - System-Defined Destination

Use this optional parameter to display information about an event notification destination that has the specified system-defined value.

[-access-control-role <text>] - Access Control Role (privilege: advanced)

Use this optional parameter to display information about an event notification destination that has the specified access control role.

Examples

The following shows examples of "event notification destination show":

```
cluster1::> event notification destination show

Name            Type        Destination
--------------  ----------  --------------------
StorageAdminEmail
                email       StorageAdmin@example.com (via "localhost" from
"admin@localhost", configured in "event config")
StorageAdminSyslog
                syslog      example.com (port: 514, transport: udp-
unencrypted)
snmp-traphost   snmp        10.30.40.10 (from "system snmp traphost")
RestApi         rest-api    https://rest.example.com/rest
4 entries were displayed.

cluster1::> event notification destination show -type snmp -instance
Destination Name: snmp-traphost
             Type of Destination: snmp
                     Destination: 10.30.40.10 (from "system snmp
traphost")
 Server CA Certificates Present?: -
   Client Certificate Issuing CA: -
Client Certificate Serial Number: -
       Client Certificate Valid?: -
                     Syslog Port: -
                Syslog Transport: -
           Syslog Message Format: -
Syslog Timestamp Format Override: -
 Syslog Hostname Format Override: -
      System-Defined Destination: false
```

Related Links

- event notification destination create
- security config ocsp show

event notification history show

Display latest events sent to destination

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

Description

The `event notification history show` command displays a list of event messages that have been sent to a notification destination. Information displayed by the command for each event is identical to that of the event log show command. This command displays events sent to a notification destination while the event log show command displays all events that have been logged.

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.

-destination <text> - Destination

Specifies the destination to which event messages have been sent to be displayed.

[-node {<nodename>|local}] - Node

Displays a list of events for the node you specify. Use this parameter with the -seqnum parameter to display detailed information.

[-seqnum <Sequence Number>] - Sequence#

Selects the events that match this parameter value. Use with the -node parameter to display detailed information.

[-time <MM/DD/YYYY HH:MM:SS>] - Time

Selects the events that match this parameter value. Use the format: MM/DD/YYYY HH:MM:SS [+- HH:MM]. You can specify a time range by using the ".." operator between two time statements.

[-severity {EMERGENCY|ALERT|ERROR|NOTICE|INFORMATIONAL|DEBUG}] - Severity

Selects the events that match this parameter value. Severity levels are as follows:

- EMERGENCY - Disruption.
- ALERT - Single point of failure.
- ERROR - Degradation.
- NOTICE - Information.
- INFORMATIONAL - Information.
- DEBUG - Debug information.

[-message-name <Message Name>] - Message Name

Selects the events that match this parameter value (string). Message names are descriptive, so filtering output by message name displays messages of a specific type.

[-event <text>] - Event

Selects the events that match this parameter value. This parameter is useful when entered with wildcards. The "event" field contains the full text of the event, including any parameters. For example, the wafl.vol.offline event displays the name of the volume that is taken offline.

Examples

The following example displays all the events which match "important-events" filter and forwarded to the "snmp-traphost" destination:

```
cluster1::> event filter show
Filter      Rule Rule                                    SNMP Trap
Name        Posn Type     Message Name     Severity      Type
Parameters
----------- ---- -------- ---------------- ------------ ---------
-----------
default-trap-events
            1    include  *                EMERGENCY, ALERT
                                                         *         *=*
            2    include  *                *             Standard, Built-
in
                                                                   *=*
            3    exclude  *                *             *         *=*
important-events
            1    include  *                EMERGENCY, ALERT
                                                         *         *=*
            2    include  callhome.*       ERROR         *         *=*
            3    exclude  *                *             *         *=*
no-info-debug-events
            1    include  *                EMERGENCY, ALERT, ERROR, NOTICE
                                                         *         *=*
            2    exclude  *                *             *         *=*
8 entries were displayed.

cluster1::> event notification destination show
Name            Type        Destination
--------------  ----------  --------------------
snmp-traphost   snmp        192.168.10.40 (from "system snmp traphost")

cluster1::> event notification show
ID      Filter Name       Destinations
------- ---------------  -----------------
1       important-events  snmp-traphost

cluster1::>event notification history show -destination snmp-traphost
Time                Node              Severity      Event
------------------- ---------------- -------------
---------------------------
5/14/2015 03:02:09  node1             EMERGENCY     callhome.clam.node.ooq:
Call home for NODE(S) OUT OF CLUSTER QUORUM.
5/13/2015 12:05:45  node1             ALERT         od.rdb.mbox.read.error:
message="RDB-HA readPSlot: Failed to read blob_type 19, (pslot 16),
instance 1: 1 (1)."
2 entries were displayed.
```

event role-config commands

event role-config create

Create role-based event configuration

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

Description

The `event role-config create` command creates an EMS role-based configuration for an access control role. It provides the ability to assign an event filter to an access control role. Once an event filter is assigned to the access control role, only a limited subset of event management system (EMS) messages that match the event filter are visible to users of that role and only those limited subset of messages are sent as notifications to them. The assigned filter is applied transparently in both cases. The command also provides the ability to limit access to global EMS configurations available with the "event config" commands. Limiting access to EMS events and configurations is typically applied for an access control role that is designed to have limited administrative capabilities.

Parameters

`-access-control-role <text>` - Access Control Role (privilege: advanced)

Use this mandatory parameter to specify the access control role of the EMS role-based configuration.

`[-filter-name <text>]` - Event Filter Name (privilege: advanced)

Use this optional parameter to specify the name of the event filter that will be assigned to the access control role.

`[-limit-access-to-global-configs {true|false}]` - Limit Access to Global Configs (privilege: advanced)

Use this optional parameter to limit access to the global EMS configurations available with the "event config" commands. If no value is provided this field is set to true by default.

Examples

The following examples create role-based event configurations:

```
cluster1::> event role-config create -access-control-role storage-admin
             -filter-name storage-admin-events -limit-access-to-global
-configs true

cluster1::> event role-config show
Access Control Role Filter Name           Limit Access to Global Configs
------------------- --------------------- ------------------------------
storage-admin       storage-admin-events  true

cluster1::> event role-config create -access-control-role storage-admin
             -filter-name storage-admin-events

cluster1::> event role-config show
Access Control Role Filter Name           Limit Access to Global Configs
------------------- --------------------- ------------------------------
storage-admin       storage-admin-events  true

cluster1::> event role-config create -access-control-role storage-admin
             -limit-access-to-global-configs false

cluster1::> event role-config show
Access Control Role Filter Name           Limit Access to Global Configs
------------------- --------------------- ------------------------------
storage-admin       -                     false
```

event role-config delete

Delete role-based event configuration

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

Description

The `event role-config delete` command deletes the EMS role-based configuration of an access control role.

Parameters

`-access-control-role <text>` - Access Control Role (privilege: advanced)

Use this mandatory parameter to specify the access control role for which the EMS role-based configuration needs to be deleted.

Examples

The following example shows the deletion of a role-based event configuration:

```
cluster1::> event role-config show
Access Control Role Filter Name           Limit Access to Global Configs
------------------- --------------------- ------------------------------
storage-admin       storage-admin-events  true

cluster1::> event role-config delete -access-control-role storage-admin

cluster1::> event role-config show
This table is currently empty.
```

event role-config modify

Modify role-based event configuration

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

Description

The `event role-config modify` command updates the EMS role-based configuration of an access control role.

Parameters

`-access-control-role <text>` - Access Control Role (privilege: advanced)

Use this mandatory parameter to specify the access control role for which the EMS role-based configuration needs to be modified.

`[-filter-name <text>]` - Event Filter Name (privilege: advanced)

Use this parameter to specify the new event filter name that needs to be assigned to the access control role.

`[-limit-access-to-global-configs {true|false}]` - Limit Access to Global Configs (privilege: advanced)

Use this parameter to change the limited access to global EMS configurations available with the "event config" commands.

Examples

The following examples show the modification of role-based event configurations:

```
cluster1::> event role-config show
Access Control Role Filter Name           Limit Access to Global Configs
------------------- --------------------- ------------------------------
storage-admin       storage-admin-events  true

cluster1::> event role-config modify -access-control-role storage-admin
             -filter-name storage-admin-events2

cluster1::> event role-config show
Access Control Role Filter Name           Limit Access to Global Configs
------------------- --------------------- ------------------------------
storage-admin       storage-admin-events2 true
cluster1::> event role-config modify -access-control-role storage-admin
             -filter-name storage-admin-events -limit-access-to-global
-configs false

cluster1::> event role-config show
Access Control Role Filter Name           Limit Access to Global Configs
------------------- --------------------- ------------------------------
storage-admin       storage-admin-events  false
cluster1::> event role-config modify -access-control-role storage-admin
             -limit-access-to-global-configs true

cluster1::> event role-config show
Access Control Role Filter Name           Limit Access to Global Configs
------------------- --------------------- ------------------------------
storage-admin       storage-admin-events  true
```

event role-config show

Display the list of existing role-based event configurations

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

Description

The `event role-config show` command displays the EMS role-based configurations. It shows the list of access control roles with the event filters that are assigned to each role and the indication whether the access control role has limited access to global EMS configurations available with the "event config" commands.

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.

[-access-control-role <text>] - Access Control Role (privilege: advanced)

Use this parameter to only display the EMS role-based configurations assigned to this role.

[-filter-name <text>] - Event Filter Name (privilege: advanced)

Use this parameter to display all the access control roles that this filter is assigned to.

[-limit-access-to-global-configs {true|false}] - Limit Access to Global Configs (privilege: advanced)

Use this parameter to display all the access control roles that have this value for limited access to global EMS configurations.

Examples

The following example displays the role-based event configurations:

```
cluster1::> event role-config show
Access Control Role Filter Name           Limit Access to Global Configs
------------------- --------------------- ------------------------------
storage-admin       storage-admin-events  true
storage-admin2      storage-admin-events  false
The following example displays the role-based event config for
a specific access control role:

cluster1::*> event role-config show -access-control-role storage-admin2
Access Control Role: storage-admin2
             Event Filter Name: storage-admin-events
Limit Access to Global Configs: false
The following example displays all the access control roles that
a specific filter is assigned to:

cluster1::*> event role-config show -filter-name storage-admin-events
Access Control Role Filter Name           Limit Access to Global Configs
------------------- --------------------- ------------------------------
storage-admin       storage-admin-events  true
storage-admin2      storage-admin-events  false
2 entries were displayed.
The following example displays all the access control roles that have a
specific value for limited access to EMS global configurations:

cluster1::*> event role-config show -limit-access-to-global-configs true
Access Control Role Filter Name           Limit Access to Global Configs
------------------- --------------------- ------------------------------
storage-admin       storage-admin-events  true
```

event status commands

event status show

Display event status

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

Description

The `event status show` command summarizes information about occurrences of events. For detailed information about specific occurrences of events, use the event log show command.

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

Selects the event records that match this parameter value. Events are tracked on a node-by-node basis, rather than being rolled up cluster-wide.

[-message-name <Message Name>] - Message Name

Selects the event records that match this parameter value. The message name is a short descriptive string. Filtering output by message name displays messages of a specific type.

[-indications <integer>] - Number of Indications

Selects the event records that match this parameter value. This parameter is most useful when used with a range, such as using the range ">20" to display only events that have been posted more than 20 times.

[-drops <integer>] - Number of Drops

Selects the event records that match this parameter value.

[-last-time-occurred <MM/DD/YYYY HH:MM:SS>] - Last Indication Time

Selects the event records that match this parameter value.

[-last-time-dropped <MM/DD/YYYY HH:MM:SS>] - Last Suppressed Indication Time

Selects the event records that match this parameter value.

[-last-time-processed <MM/DD/YYYY HH:MM:SS>] - Last Processed Indication Time

Selects the event records that match this parameter value.

[-stat-starting-time <MM/DD/YYYY HH:MM:SS>] - Stat Starting Time

Selects the event records that match this parameter value.

[-last-hour-histogram <integer>,…] - 60-minute Histogram (privilege: advanced)

Use this parameter with the `-fields` parameter to display the "last hour" histogram for each event type. The last hour histogram records the number of times each event occurred in the last hour. The histogram is divided into sixty buckets, and each bucket collects one minute's events. The buckets display with the most recent event first.

[-last-day-histogram <integer>,…] - 24-hour Histogram (privilege: advanced)

Use this parameter with the `-fields` parameter to display the "last day" histogram for each event type. The last day histogram records the number of times each event occurred in the last day. The histogram is divided into 24 buckets, and each bucket collects one hour's events. The buckets display with the most recent event first.

[-last-week-histogram <integer>,…] - 7-day Histogram (privilege: advanced)

Use this parameter with the `-fields` parameter to display the "last week" histogram for each event type. The last week histogram records the number of times each event occurred in the last week. The histogram is divided into 7 buckets, and each bucket collects one day's events. The buckets display with the most recent event first.

[-severity {NODE_FAULT|SVC_FAULT|NODE_ERROR|SVC_ERROR|WARNING|NOTICE|INFO|DEBUG|VAR}] - Severity

Selects events that have the event severity you specify. Severity levels sort with the most severe levels first. Severity levels:

- NODE_FAULT - The node has detected data corruption, or is unable to provide client service.
- SVC_FAULT - The node has detected a temporary loss of service. Typically, this is caused by a transient software fault.
- NODE_ERROR - The node has detected a hardware error that is not immediately fatal.
- SVC_ERROR - The node has detected a software error that is not immediately fatal.
- WARNING - A high-priority message that does not indicate a fault.
- NOTICE - A normal-priority message that does not indicate a fault.
- INFO - A low-priority message that does not indicate a fault.
- DEBUG - A debugging message. These messages are typically suppressed.
- VAR - These messages have variable severity. Severity level for these messages is selected at runtime.

The examples below illustrate how to query on severity.

Examples

The following example displays recent event-occurrence status for node1:

```
cluster1::> event status show -node node1
Node               Message                         Occurs Drops Last Time
------------------ ------------------------------ ------ -----
-------------------
node1              raid.spares.media_scrub.start
                                                   6      0     3/11/2010
15:59:00
node1              raid.uninitialized.parity.vol
                                                   3      0     3/11/2010
15:58:28
node1              raid.vol.state.online           3      0     3/11/2010
15:58:29
node1              reg.defaultCommit.set.timeTaken
                                                   1      0     3/11/2010
15:58:28
node1              scsitgt.ha.state.changed        2      0     3/11/2010
15:58:28
node1              ses.multipath.notSupported      2      0     3/11/2010
15:58:43
node1              shelf.config.mpha               1      0     3/11/2010
15:58:48
node1              sk.hog.runtime                  1      0     3/11/2010
15:58:28
node1              snmp.agent.msg.access.denied 1      0     3/11/2010
15:58:28
node1              snmp.link.up                    6      0     3/11/2010
15:58:28
node1              tar.csum.mismatch               2      0     3/11/2010
15:58:28
node1              tar.extract.success             2      0     3/11/2010
15:58:28
node1              vifmgr.lifsuccessfullymoved  3      0     3/11/2010
15:58:46
node1              vifmgr.portdown                 1      0     3/11/2010
15:58:48
node1              vifmgr.portup                   5      0     3/11/2010
15:58:48
node1              vifmgr.startedsuccessfully      1      0     3/11/2010
15:58:43
```

The following example displays a summary of events which are warnings or more severe:

```
cluster1::> event status show -node node1 -severity <=warning -fields
indications,drops,severity
node    message-name              indications drops severity
------- ------------------------- ----------- ----- --------
node1   api.output.invalidSchema 5463        840   WARNING
node1   callhome.dsk.config      1           0     WARNING
node1   callhome.sys.config      1           0     SVC_ERROR
node1   cecc_log.dropped         145         0     WARNING
node1   cecc_log.entry           5           0     WARNING
node1   cecc_log.entry_no_syslog 4540        218   WARNING
node1   cecc_log.summary         5           0     WARNING
node1   cf.fm.noPartnerVariable  5469        839   WARNING
node1   cf.fm.notkoverBadMbox    1           0     WARNING
node1   cf.fm.notkoverClusterDisable 1       0     WARNING
node1   cf.fsm.backupMailboxError 1          0     WARNING
node1   cf.takeover.disabled     23          0     WARNING
node1   cmds.sysconf.logErr      1           0     NODE_ERROR
node1   config.noPartnerDisks    1           0     NODE_ERROR
node1   fci.initialization.failed 2          0     NODE_ERROR
node1   fcp.service.adapter      1           0     WARNING
node1   fmmb.BlobNotFound        1           0     WARNING
node1   ha.takeoverImpNotDef     1           0     WARNING
node1   httpd.config.mime.missing 2          0     WARNING
node1   mgr.opsmgr.autoreg.norec 1           0     WARNING
node1   monitor.globalStatus.critical 1      0     NODE_ERROR
node1   raid.mirror.vote.versionZero 1       0     SVC_ERROR
node1   ses.multipath.notSupported 2         0     NODE_ERROR
node1   snmp.agent.msg.access.denied 1       0     WARNING
24 entries were displayed.
```

The above example makes use of several features which are common to all `show` commands:

- A query is specified for the severity parameter. A query restricts the output of the show command; only rows matching the query will be displayed. In this case, the query indicates that only events which have a severity of "WARNING" or more severe will be displayed.
- The fields parameter selects the fields to display. Note that the severity field is not displayed in the default output.

Related Links

- event log show

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