



event filter commands

ONTAP 9.7 commands

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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 Name Rule      Rule      Message Name      SNMP Trap Type
Severity
          Position Type
-----
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 Name	Rule	Rule	Message Name	SNMP Trap	Type
Severity	Position	Type			

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					

Filter Name Rule Rule Message Name SNMP Trap Type					
Severity Position Type					

no-info-debug-events					
	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.

Examples

The following example creates an event filter named filter1:

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

cluster1::> event filter show
Filter Name Rule      Rule      Message Name      SNMP Trap Type
Severity
          Position Type
-----
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 Name Rule      Rule      Message Name      SNMP Trap Type
Severity
      Position Type
-----
default-trap-events
      1      include  *                *
EMERGENCY, ALERT
      2      include  *                Standard, Built-in
                                           *
      3      exclude *                *                *
filter1
      1      include  waf1.*          *
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 Name Rule      Rule      Message Name      SNMP Trap Type
Severity
      Position Type
-----
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 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](#) command.

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 Name Rule      Rule      Message Name      SNMP Trap Type
Severity
      Position Type
-----
-----
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 Name Rule      Rule      Message Name      SNMP Trap Type
Severity
      Position Type
-----
-----
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

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.

Examples

The following example displays the event filters:

```
cluster1::> event filter show
Filter Name Rule      Rule      Message Name      SNMP Trap Type
Severity
          Position Type
-----
default-trap-events
          1      include  *                *
EMERGENCY, ALERT
          2      include  *                Standard, Built-in
                                     *
          3      exclude *                *                *
important-events
          1      include  *                *
EMERGENCY, ALERT
          2      exclude *                *                *
no-info-debug-events
          1      include  *                *
EMERGENCY, ALERT, ERROR, NOTICE
          2      exclude *                *                *
7 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 Name Rule      Rule      Message Name      SNMP Trap Type
Severity
      Position Type
-----
-----
default-trap-events
      2      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 Name Rule      Rule      Message Name      SNMP Trap Type
Severity
      Position Type
-----
-----
default-trap-events
      1      include  *      *
EMERGENCY, ALERT
      3      exclude  *      *      *
important-events
      1      include  *      *
EMERGENCY, ALERT
      2      exclude  *      *      *
no-info-debug-events
      1      include  *      *
EMERGENCY, ALERT, ERROR, NOTICE
      2      exclude  *      *      *
6 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 Name Rule      Rule      Message Name      SNMP Trap Type
Severity
      Position Type
-----
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 Name Rule      Rule      Message Name      SNMP Trap Type
Severity
      Position Type
```

```

-----
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 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 separated 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 *.

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 specifying 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 Name Rule      Rule      Message Name      SNMP Trap Type
Severity
      Position Type
-----
-----
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 Name Rule      Rule      Message Name      SNMP Trap Type
Severity
      Position Type
-----
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
-snmpt-trap-type Standard

cluster1::> event filter show
Filter Name Rule      Rule      Message Name      SNMP Trap Type
Severity
      Position Type
-----
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.

```

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 Name Rule      Rule      Message Name      SNMP Trap Type
Severity
      Position Type
-----
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 Name Rule      Rule      Message Name      SNMP Trap Type
Severity
```

```

Position Type
-----
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 Name Rule      Rule      Message Name      SNMP Trap Type
Severity
          Position Type
-----
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 Name Rule      Rule      Message Name      SNMP Trap Type
Severity
          Position Type
-----
```

```

-----
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](#)

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