■ NetApp

event 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:

	event filter	Show -lilter-	name filter.		
Filter				SNMP T	rap
	Posn Type	Message Name	Severit	ty Type	
Parameters					
filter1					
	1 include	zapi.*	*	*	*=*
	2 exclude	*	*	*	*=*
2 entries w	ere displayed				
cluster1::>	event catalog	g show -filter	-name filte	r1	
cluster1::> Message	event catalog	g show -filter		r1 SNMP Trap Typ	e
		g show -filter Sever			
Message 		g show -filter Sever NOTIC	ity 	SNMP Trap Type	 d
Message zapi.killed	.notfound	g show -filter Sever NOTIC	ity E	SNMP Trap Type	 d d
Message zapi.killed zapi.method	.notfound	g show -filter Sever NOTIC	ity E E MATIONAL	SNMP Trap Type Severity-base Severity-base	 d d d
Message zapi.killed zapi.method zapi.sf.up. zapi.snapsh	.notfound	g show -filter Sever NOTIC NOTIC INFOR NOTIC	ity E E MATIONAL E	SNMP Trap Type Severity-base Severity-base Severity-base	 d d d
Message zapi.killed zapi.method zapi.sf.up. zapi.snapsh zapi.stream	.notfound ready ot.success	g show -filter Sever NOTIC NOTIC INFOR NOTIC	ity E E MATIONAL E	SNMP Trap Type Severity-base Severity-base Severity-base Severity-base	 d d d

There are no entries matching your query. cluster1::> event catalog show -message-name zapi.* -filter-name filter1 Severity SNMP Trap Type Message zapi.method.notfound Severity-based NOTICE INFORMATIONAL Severity-based zapi.sf.up.ready Severity-based zapi.snapshot.success NOTICE zapi.streamout.noMethod NOTICE Severity-based 4 entries were displayed. cluster1::> event catalog show -message-name CR.* Severity SNMP Trap Type CR.Corrupt.Redir.Deleted INFORMATIONAL Severity-based INFORMATIONAL Severity-based CR.Dangling.Redir.Deleted 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 Severity-based NOTICE CR.Del.Dangling.Redir.Failed Severity-based NOTICE CR.Fix.Corrupt.Redir.Failed Severity-based NOTICE CR.Fix.Crpt.Data.Dir.Failed INFORMATIONAL Severity-based CR.Fix.Crpt.Data.File.Failed Severity-based NOTICE CR.Fix.CrptStreamRedir.Fail Severity-based NOTICE CR.Fix.Dang.Data.File.Failed Severity-based NOTICE CR.Fix.Nlinks.Failed Severity-based NOTICE CR.Fix.TempFiles.Failed Severity-based INFORMATIONAL CR.Max.Session.Exceed Severity-based INFORMATIONAL INFORMATIONAL CR.RDB.Counters.Not.Updated Severity-based CR.RDB.State.Not.Updated Severity-based NOTICE 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

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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. If authentication is required to the mail-server, specify the user name for the mail-server using the -mail-server-user parameter. Use the event config set-mail-server-password command to set the password used for this user name.

You can optionally specify a port value for the mail server. The port specification for a mail host consists of a colon (":") and a decimal value between 1 and 65335, and follows the mailhost name (for example, mymailhost.example.com: 5678).

[-mail-server-user <text>] - Mail Server User Name

If authentication is required to the mail-server, use this parameter to specify the user name for the mail-server specified by the <code>-mail-server</code> parameter. Use the event config set-mail-server-password command to set the password used for this user name.

[-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:// or https:// prefix. If using an HTTPS proxy, you also need to install the correct Root CA certificates in ONTAP. 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:
```

The following example turns on event suppression and console logging:

```
cluster1::> event config modify -suppression on -console on
```

Related Links

- · event config set-mail-server-password
- event config set-proxy-password

event config set-mail-server-password

Modify password for mail-server

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

Description

Use the event config set-mail-server-password command to set the password for authenticated access to a mail-server being used for EMS notifications. This password is used with the user name you specify using the event config modify -mail-server-user command to send EMS messages to email destinations through the mail-server you specify using the event config modify -mail-server 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 mail-server password, use the event config modify -mail-server-user command and set the user-name to an empty string or '-'.

Parameters

Examples

The following example shows successful execution of this command:

```
cluster1::> event config set-mail-server-password

Enter the password:
Confirm the password:
```

Related Links

· event config modify

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.

"Mail Server User Name" is the user name for the mail-server if authentication is required.

"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.

"Suppression" indicates whether event suppression algorithms are enabled ("on") or disabled ("off"). The event processing system implements several algorithms to throttle events.



The suppression parameter can disable both autosuppression and duplicate suppression, but not timer suppression.

"Console" indicates whether events are displayed on the console port ("on") or not displayed("off").

Examples

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

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

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:

<pre>cluster1::> Filter</pre>			show		SNMP Trap	
			Message Name	Severity	_	
Parameters	10311	TYPC	riessage Name	Severrey	1 4 5 6	
default-tra	.p-eve	nts				
	1	include	*	EMERGENCY,	ALERT	
					*	*=*
	2	include	*	*	Standard,	Built-
in						
						=
	3	exclude	*	*	*	*=*
emer-wafl-e						
	1	include	wafl.*	EMERGENCY	*	*=*
	2	exclude	*	*	*	*=*
important-e	vents					
	1	include	*	EMERGENCY,	ALERT	
					*	*=*
		include	callhome.*	ERROR	*	*=*
	_	exclude	*	*	*	*=*
no-info-deb	ug-ev	ents				
	1	include	*	EMERGENCY,	ALERT, ERROR	, NOTICE

10 entries		exclude displayed		*	*	*=*
cluster1::> -name filte		t filter	copy -filter-name	emer-wafl-	events -new-f	ilter
cluster1::>	> even	t filter	show			
Filter	Rule	Rule			SNMP Trap	
Name Parameters		Type	Message Name	Severity	Type	
	 -					
default-tra	ap-evei	nts				
	1	include	*	EMERGENCY,	ALERT	
					*	*=*
	2	include	*	*	Standard,	Built-
in						
						=
	3	exclude	*	*	*	*=*
emer-wafl-e	events					
	1	include	wafl.*	EMERGENCY	*	*=*
	2	exclude	*	*	*	*=*
filter1						
	1	include	wafl.*	EMERGENCY	*	*=*
	2	exclude	*	*	*	*=*
important-e	events					
	1	include	*	EMERGENCY,		
					*	*=*
	2		callhome.*	ERROR	*	*=*
	3	exclude	*	*	*	*=*
no-info-dek						
	1	include	*	EMERGENCY,	ALERT, ERROR	
					*	*=*
	2		*	*	*	*=*
12 entries	were o	displayed				

• 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:

21436611	even	Liller	create -filter-na	ame Illteri		
cluster1::>	event	t filter	show			
Filter	Rule	Rule			SNMP Trap	
Name	Posn	Type	Message Name	Severity	Type	
Parameters						
default-tra	_					
	1	include	*	EMERGENCY,		
					*	
	2	include	*	*	Standard,	Built-
in						
						=
	3	exclude	*	*	*	*=*
filter1	1		JL	*	*	*=*
		exclude	*	*	*	*=*
important-e			JL		3.1.00.00	
	1	include	*	EMERGENCY,		*=*
	0		111			*=* *=*
				ERROR *	*	*=* *=*
ma dm&a al-l-	3	exclude	^	^	^	^=^
no-info-deb	-	ents include	+	EMEDCENCY	VIEDE EDDOD	NOTICE
	Τ	Include	,	EMEKGENCY,	ALERT, ERROR	, NOTICE *=*
	2	exclude	*	*	*	_
9 entries w				.,		

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:

Filter	Rule	Rule			SNMP Trap	
Name	Posn	Type	Message Name	Severity	Type	
Parameters						
default-tra	ip-eve	nts				
	1	include	*	EMERGENCY,	ALERT	
						=
	2	include	*	*	Standard,	Built-
in						
						=
	3	exclude	*	*	*	*=*
filter1						
	1	include		EMERGENCY		*=*
	2	exclude	*	*	*	*=*
important-e						
	1	include	*	EMERGENCY,		
	_				*	*=*
			callhome.*		*	*=*
	3	exclude	*	*	*	*=*
no-info-deb	_		4			
	1	include	*	EMERGENCY,	ALERT, ERROR,	
	0	1 1		*	*	*=* *=*
10		exclude		^	^	^=^
10 entries	were	aispiayea				
alustor1	otton	+ filtor	delete -filter-r	namo filtor1		
ciusteii/	even	t liitel	derete -IIIteI-I	iame filteri		
cluster1::>	even	t filter	show			
Filter					SNMP Trap	
			Message Name	Severity		
Parameters		71 -		1	71 -	
default-tra	p-eve	nts				
	-	include	*	EMERGENCY,	λιτοπ	
		Include		EMERGENCI,	иппит	

	2	include	*	*	Standard,	Built-
in						
						=
	3	exclude	*	*	*	*=*
important-e	events	3				
	1	include	*	EMERGENCY,	ALERT	
					*	*=*
	2	include	callhome.*	ERROR	*	*=*
	3	exclude	*	*	*	*=*
no-info-dek	ug-ev	rents				
	1	include	*	EMERGENCY,	ALERT, ERROR,	NOTICE
					*	*=*
	2	exclude	*	*	*	*=*
8 entries w	ere d	lisplayed.				

· 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-t:						
	1	include	*	EMERGENCY,		
						=
	2	include	*	*	Standard,	
						=
	3	exclude	*	*	*	*=*
important ·	-events	5				
	1	include	*	EMERGENCY,	ALERT	
					*	*=*
	2	include	callhome.*	ERROR	*	*=*
	3	exclude	*	*	*	*=*
no-info-de	ebug-ev	rents				
	1	include	*	EMERGENCY,	ALERT, ERR	OR, NOTICE
					*	*=*
	2	exclude	*	*	*	*=*
wafl-filte	er					
	1	include	wafl.*	EMERGENCY	*	vol=xyz
	2	exclude	*	*	*	*=*
cluster1: true	:*> eve		prepare-for-r	revert -dele	te-unsuppor	ted-filters
<pre>cluster1: true cluster1:</pre>	:*> eve	ent filter at filter	prepare-for-r	revert -dele		
cluster1: true cluster1: Filter	:*> eve :> even Rule	ent filter ut filter e Rule	prepare-for-r		SNMP Trap	
cluster1: true cluster1: Filter	:*> even Rule Posn	ent filter at filter e Rule a Type	prepare-for-r show Message Name	Severity	SNMP Trap Type	
cluster1: true cluster1: Filter Name	:*> even Rule Posn	ent filter at filter e Rule a Type	prepare-for-r	Severity	SNMP Trap Type	
cluster1: true cluster1: Filter Name default-t:	:*> even Rule Posn rap-eve	ent filter et filter e Rule e Type ents	prepare-for-r show Message Name	Severity	SNMP Trap Type 	
cluster1: true cluster1: Filter Name default-t:	:*> even Rule Posn rap-eve	ent filter at filter e Rule a Type	prepare-for-r show Message Name	Severity	SNMP Trap Type 	
cluster1: true cluster1: Filter Name default-t:	:*> even Rule Posn rap-eve	ent filter e Rule a Type ents include	prepare-for-r show Message Name	Severity	SNMP Trap Type ALERT *	Parameters
cluster1: true cluster1: Filter Name default-t:	:*> even Rule Posn rap-eve	ent filter et filter e Rule e Type ents	prepare-for-r show Message Name	Severity EMERGENCY,	SNMP Trap Type 	Parameters
cluster1: true cluster1: Filter Name default-t:	:*> even Rule Posn rap-eve	ent filter e Rule a Type ents include include	prepare-for-r show Message Name	Severity EMERGENCY,	SNMP Trap Type ALERT *	Parameters *=* Built-in
cluster1: true cluster1: Filter Name default-t:	:*> even Rule Posn rap-eve 1 2	ent filter et filter e Rule n Type ents include include exclude	prepare-for-r show Message Name *	Severity EMERGENCY,	SNMP Trap Type ALERT * Standard,	Parameters *=* Built-in *=*
cluster1: true cluster1: Filter Name default-t:	:*> even Rule Posn rap-eve 1 2 3 -events	ent filter e Rule a Type ents include include exclude	prepare-for-r show Message Name *	Severity EMERGENCY, *	SNMP Trap Type ALERT * Standard, *	Parameters *=* Built-in *=*
cluster1: true cluster1: Filter Name default-t:	:*> even Rule Posn rap-eve 1 2	ent filter et filter e Rule n Type ents include include exclude	prepare-for-r show Message Name *	Severity EMERGENCY,	SNMP Trap Type ALERT * Standard, *	Parameters *=* Built-in *=* *=*
cluster1: true cluster1: Filter Name default-t:	:*> even Rule Posn rap-eve 1 2 3 -events	ent filter e Rule e Type ents include include exclude include	prepare-for-r show Message Name *	Severity EMERGENCY, * EMERGENCY,	SNMP Trap Type ALERT * Standard, * ALERT *	Parameters *=* Built-in *=* *=*
cluster1: true cluster1: Filter Name default-t:	:*> even Rule Posn rap-eve 1 2 3 -events 1	ent filter et filter e Rule e Type ents include include include include	prepare-for-r show Message Name * * callhome.*	Severity EMERGENCY, * EMERGENCY, ERECTION	SNMP Trap Type ALERT * Standard, * ALERT *	Parameters *=* Built-in *=* *=*
cluster1: true cluster1: Filter Name default-t:	:*> even Rule Posn rap-eve 1 2 3 -events 1 2 3	ent filter ext filter	prepare-for-r show Message Name *	Severity EMERGENCY, * EMERGENCY,	SNMP Trap Type ALERT * Standard, * ALERT *	Parameters *=* Built-in *=* *=*
cluster1: true cluster1: Filter Name default-t:	:*> even Rule Posn rap-eve 1 2 3 -events 1 2 3 ebug-ev	ent filter e Rule e Type ents include include include include exclude include	prepare-for-r show Message Name * * callhome.*	Severity EMERGENCY, * EMERGENCY, ERROR *	SNMP Trap Type ALERT * Standard, * ALERT * *	Parameters *=* Built-in *=* *=* *=*
cluster1: true cluster1: Filter Name default-t:	:*> even Rule Posn rap-eve 1 2 3 -events 1 2 3	ent filter e Rule e Type ents include include include include exclude include	prepare-for-r show Message Name * * callhome.*	Severity EMERGENCY, * EMERGENCY, ERROR *	SNMP Trap Type ALERT * Standard, * ALERT * ALERT	Parameters *=* Built-in *=* *=* *=*
cluster1: true cluster1: Filter Name default-t:	:*> even Rule Posn rap-eve 1 2 3 -events 1 2 3 ebug-ev	ent filter e Rule e Type ents include include include include exclude include	prepare-for-r show Message Name * * callhome.*	Severity EMERGENCY, * EMERGENCY, ERROR *	SNMP Trap Type ALERT * Standard, * ALERT * *	Parameters *=* Built-in *=* *=* *=*

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:

Filter	Rule	Rule			SNMP Trap	
			Message Name	Covority	Type	
	FOSII	Type	Message Name	Severicy	туре	
Parameters						
default-tra	ap-eve					
	1	include	*	EMERGENCY, AI	LERT	
					*	*=*
	2	include	*	*	Standard,	Built-
in						
						=
	3	exclude	*	*	*	*=*
filter1						
	1	include	wafl.*	EMERGENCY	*	*=*
	2	exclude		*	*	*=*
important-	- azzante	01101000				
Important (1	include	*	EMERGENCY, AI	.FPT	
	Τ.	THETUGE		EMERGENCI, AI	*	*=*
	0	2 2			^ *	^=^ *=*
	2		callhome.*	ERROR		_
	3	exclude	*	*	*	*=*

	1	include	*	EMERGENCY,	ALERT, ERROR	, NOTICE
					*	*=*
	2	exclude	*	*	*	*=*
10 entries	were	displayed	•			
cluster1::>	even	t filter	rename -filter-na	ame filter1 ·	-new-filter-n	ame
emer-wafl-e	events					
cluster1::>	even	t filter	show			
Filter	Rule	Rule			SNMP Trap	
Name	Posn	Type	Message Name	Severity	_	
Parameters			,	4	2.1	
default-tra	ip-eve	nts				
	1	include	*	EMERGENCY,	ALERT	
					*	*=*
	2	include	*	*	Standard,	Built-
in						
						=
	3	exclude	*	*	*	*=*
emer-wafl-e	vents					
	1	include	wafl.*	EMERGENCY	*	*=*
	2	exclude	*	*	*	*=*
important-e	vents					
	1	include	*	EMERGENCY,	ALERT	
					*	*=*
	2	include	callhome.*	ERROR	*	*=*
	3	exclude	*	*	*	*=*
no-info-deb	ug-ev	ents				
	1	include	*	EMERGENCY,	ALERT, ERROR	, NOTICE
					*	*=*
	2	exclude	*	*	*	*=*
10 entries	were	displayed				

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 <code>-fields</code> <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
                         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 <code>-fields</code> <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:

Filter	Rule	Rule			SNMP Trap	
			Message Name	Severity		
Parameters		21 -		<u> </u>	71 -	
default-tra	p-ever	nts				
	1	include	*	EMERGENCY,	ALERT	
					*	*=*
	2	include	callhome.*	ERROR	*	*=*
	3	include	*	*	Standard,	Built-
in						
						=
	4	exclude	*	*	*	*=*
important-e	vents					
	1	include	*	EMERGENCY,	ALERT	
					*	*=*
	2	include	callhome.*	ERROR	*	*=*
	3	exclude	*	*	*	*=*
no-info-deb	ug-eve	ents				
	1	include	*	EMERGENCY,	ALERT, ERROR,	NOTICE
					*	*=*
	2	exclude	*	*	*	*=*

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

Filter	Dul	e Rule			CNMD Tran	
riicei	Rult	e Ruie			SNMP Trap	
Name	Posi	n Type	Message Name	Severity	Type	
Parameter	S					
default-t	rap-eve	ents				
	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.

Filter	Rule	Rule			SNMP Tr	rap
Name	Posn	Type	Message Name	Severity		-
Parameters			_	_		
default-tra	.p-eve	nts				
	1	include	*	EMERGENCY,	ALERT	
					*	*=*
	2	include	callhome.*	ERROR	*	*=*
	4	exclude	*	*	*	*=*
important-e	vents					
	1	include	*	EMERGENCY,	ALERT	
					*	*=*
	2	include	callhome.*	ERROR	*	*=*
	3	exclude	*	*	*	*=*
no-info-deb	ug-eve	ents				
	1	include	*	EMERGENCY,	ALERT, ERF	ROR, NOTICE
					*	*=*
	2	exclude	*	*	*	*=*

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	t filter	show			
Filter	Rule	Rule			SNMP Trap)
Name	Posn	Type	Message Name	Severity	Type	
Parameters						
default-tra						
	1	include	*	EMERGENCY,		
					*	*=*
	2	include	*	*	Standard,	Built-
in						
						=
	3	exclude		*	*	*=*
err-wafl-no						
	1	include	wafl.scan.clone.			
				*	*	*=*
	2		wafl.scan.*	*	*	*=*
	3	include	wafl.*	EMERGENCY,	ALERT, ERROR	
					*	*=*
	4	exclude	*	*	*	*=*
important-e	vents					
	1	include	*	EMERGENCY,	ALERT	
					*	*=*
			callhome.*	ERROR	*	*=*
		exclude	*	*	*	*=*
no-info-deb	ug-eve					
	1	include	*	EMERGENCY,	ALERT, ERROR	
					*	*=*
n'l.	n 1	D 1			CANAD E	
Filter		Rule	Magaga Nama	C	SNMP Trap)
	Posn	туре	Message Name	Severity	Type	
Parameters						
no-info-deb	110-676	⊇nts				
		exclude	*	*	*	*=*
12 entries						
cluster1::>	event	t filter	test -filter-name	err-wafl-no	o-scan-but-cl	one
			ed in the given f			
2 : 2.1.00			2 9 2			
cluster1::>	event	t filter	test -filter-name	e err-wafl-no	o-scan-but-cl	one
			lone.split.cantLo		7 2 2 2 2 2 2 2 2 2 2 2	
			_			,
The message	-name	"wafl.sc	an.clone.split.ca	antLock" is	included in t	he aive
The message filter.	-name	"wafl.sc	an.clone.split.ca	antLock" is	included in t	he give

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
                          true
filter1
                          false
important-events
                          true
no-info-debug-events
                          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
                          true
filter1
                          false new role
important-events 3
                          true
no-info-debug-events
                          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 s	show			
Filter	Rule	Rule			SNMP Trap	
Name	Posn	Type	Message Name	Severity	Type	
Parameters						
default-trap	-ever	nts				
	1	include	*	EMERGENCY,	ALERT	
					*	*=*
	2	include	*	*	Standard,	Built-
in						
						=
	3	exclude	*	*	*	*=*
emer-and-waf	1					
	1	include	wafl.*	EMERGENCY	*	*=*
	2	exclude	*	*	*	*=*
<pre>important-ev</pre>	ents					
	1	include	*	EMERGENCY,	ALERT	
					*	*=*
			callhome.*	ERROR	*	*=*
		exclude	*	*	*	*=*
no-info-debu	-					
	1	include	*	EMERGENCY,	ALERT, ERROR,	, NOTICE
					*	*=*
	2	exclude	*	*	*	*=*

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.

-message-na.	me wai	fl.scan.*	-position 1 -sev	erity ALERT		
cluster1::>	event	- filter (show			
Filter			5110 W		SNMP Trap	
			Message Name	Severity	Type	
Parameters		- 1 1			- 7 1	
default-tra	p-ever	nts				
	1	include	*	EMERGENCY,	ALERT	
				·	*	*=*
	2	include	*	*	Standard,	Built-
in					,	
						=
	3	exclude	*	*	*	*=*
emer-and-wa	fl					
	1	include	wafl.scan.*	ALERT	*	*=*
	2	include	wafl.*	EMERGENCY	*	*=*
	3	exclude	*	*	*	*=*
important-e	vents					
_	1	include	*	EMERGENCY,	ALERT	
					*	*=*
	2	include	callhome.*	ERROR	*	*=*
	3	exclude	*	*	*	*=*
no-info-deb	ug-eve	ents				
	1	include	*	EMERGENCY,	ALERT, ERROR,	, NOTICE
					*	*=*
	2	exclude	*	*	*	*=*

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

-snmp-trap-t	-150 (2 2 2 2 2 2 2 2					
cluster1::>			show				
Filter						SNMP Trap	
Name	Posn	Type	Message 1	Name	Severity	Туре	
Parameters							
default-trap	o-ever	nts					
	1	include	*		EMERGENCY,		
						*	*=*
	2	include	*		*	Standard,	Built-
in							
							=
	3	exclude	*		*	*	*=*
emer-and-wat							
	1		wafl.sca	n.*	ALERT	*	*=*
	2	include			EMERGENCY	*	*=*
	3	include			*	Standard	*=*
	4	exclude	*		*	*	*=*
important-e							
	1	include	*		EMERGENCY,		
	^		7.7.	T.		*	*=*
	2		callhome	• *	ERROR	*	*=*
	3	exclude	*		*	*	*=*
no-info-debu	-						
	1	include	*		EMERGENCY,	ALERT, ERROR,	
						*	*=*

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
            include wafl.*
type=volume
                                    ALERT
           2 include wafl.scan.*
                                                             *=*
           3
              include wafl.*
                                      EMERGENCY
              include *
           4
                                                    Standard *=*
           5
               exclude *
                                                             *=*
5 entries were displayed.
```

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	t filter	show			
Filter	Rule	Rule			SNMP Trap	
Name	Posn	Type	Message Name	Severity	Type	
Parameters			-	_		
default-tra	p-evei	nts				
•	1	include	*	EMERGENCY,	ALERT	
				·	*	*=*
	2	include	*	*	Standard,	Built-
in					·	
						=
	3	exclude	*	*	*	*=*
emer-and-wa	_					
	1	include	wafl.scan.*	ALERT	*	*=*
	2	include		EMERGENCY	*	*=*
	3	include		*	Standard	*=*
	4	exclude		*	*	*=*
important-e	_					
p 0 _ 0 a 11 0 0	1	include	*	EMERGENCY,	ALERT	
	_				*	*=*
	2	include	callhome.*	ERROR	*	*=*
	3	exclude		*	*	*=*
no-info-deb						
110 11110 000	_	include	*	EMERGENCY.	ALERT, ERROR,	NOTICE
	_	11101440		ZIZI(CZI(CI)	*	*=*
	2	exclude	*	*	*	*=*
12 entries	_					
				filter-name emen	r-and-wafl -no	nsition
2	CVCII	C IIICCI .	rate actede i	TICCI Hame Cinci	c and warr po	35161611
۷						
cluster1::>	event	t filter	show			
Filter					SNMP Trap	
			Message Name	Severity	_	
Parameters	1 0 0 11	-150	11000age Name	SSVELLCY	- 1 50	
default-tra	0-67761	nts				
3014410 014	1	include	*	EMERGENCY,	ALERT	
					*	*=*
	2	include	*	*	Standard,	
in	۷	THOTAGE			S canaara,	Darre
T11						*=*
	3	exclude	*	*	*	*=*
emer-and-wa	_	CACLUUC				
chici and wa	1	include	wafl.scan.*	ALERT	*	*=*
	_	11101446	all.beam.			

2	include	*	*	Standard	*=*
3	exclude	*	*	*	*=*
important-event	S				
1	include	*	EMERGENCY,	ALERT	
				*	*=*
2	include	callhome.*	ERROR	*	*=*
3	exclude	*	*	*	*=*
no-info-debug-e	vents				
1	include	*	EMERGENCY,	ALERT, ERROR,	NOTICE
				*	*=*
2	exclude	*	*	*	*=*
11 entries were	displayed	•			

· 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	Туре

01707					
\~~~~~					
-ever		_			
1	include	*	EMERGENCY, A	LERT *	-11-
2		+	+		*=*
2	Include	^	^	Standard,	Bullt-
					=
3	exclude	*	*	*	*=*
	CACIUUC				
	include	wafl.scan.*	ALERT	*	*=*
_			*	Standard	*=*
			*	*	*=*
	01101010				
1	include	*	EMERGENCY, A	LERT	
			,	*	*=*
2	include	callhome.*	ERROR	*	*=*
			*	*	*=*
_		*	EMERGENCY, A	LERT, ERROR	, NOTIC
			,	*	*=*
2	exclude	*	*	*	*=*
event	t filter	rule reorder -fil	lter-name emer	-and-wafl -	positio
on 2			lter-name emer	-and-wafl -	positio
on 2 event	t filter		Lter-name emer		
on 2 event Rule	t filter . Rule	show		SNMP Trap	
on 2 event Rule	t filter . Rule			SNMP Trap	
on 2 event Rule Posn	t filter Rule Type	show	Severity	SNMP Trap Type	
on 2 event Rule Posn	t filter Rule Type	show Message Name	Severity	SNMP Trap Type	
event Rule Posn	filter Rule Type	show Message Name	Severity	SNMP Trap Type	
event Rule Posn	t filter Rule Type	show Message Name	Severity	SNMP Trap Type	
event Rule Posn	filter Rule Type	show Message Name	Severity	SNMP Trap Type	
event Rule Posn	t filter Rule Type nts include	show Message Name *	Severity	SNMP Trap Type LERT *	*=*
event Rule Posn D-ever	t filter Rule Type	show Message Name *	SeverityEMERGENCY, A	SNMP Trap Type 	*=*
event Rule Posn D-ever	t filter Rule Type nts include	show Message Name *	SeverityEMERGENCY, A	SNMP Trap Type LERT *	*=*
event Rule Posn D-ever	t filter Rule Type nts include	show Message Name * *	SeverityEMERGENCY, A	SNMP Trap Type LERT *	*=* Built-
event Rule Posn p-ever 1	t filter Rule Type nts include include	show Message Name * *	Severity EMERGENCY, A:	SNMP Trap Type LERT * Standard,	*=* Built- *=*
event Rule Posn p-ever 1 2	Type Type nts include include exclude	show Message Name * *	Severity EMERGENCY, A:	SNMP Trap Type LERT * Standard,	*=* Built- *=* *=*
event Rule Posn p-ever 1 2	t filter Rule Type Type nts include include include	show Message Name * *	Severity EMERGENCY, A	SNMP Trap Type LERT * Standard,	*=* Built- *=* *=*
	2 3 ag-eve 1 2	3 exclude 1 include 2 include 3 exclude rents 1 include 2 include 4 exclude 5 exclude 6 exclude 7 include 8 exclude 8 exclude 9 exclude 9 exclude 1 include	3 exclude * 1 include wafl.scan.* 2 include * 3 exclude * rents 1 include * 2 include callhome.* 3 exclude * 1 include tallhome.* 1 include tallhome.*	3 exclude * * * 1 include wafl.scan.* ALERT 2 include * * 3 exclude * * rents 1 include * EMERGENCY, AND 2 include callhome.* ERROR 3 exclude * 1 include * * 2 include callhome.* ERROR 4 tog-events 1 include * * 2 exclude * *	3 exclude * * * * 1 include wafl.scan.* ALERT * 2 include * * Standard 3 exclude * * * ents 1 include * EMERGENCY, ALERT 2 include callhome.* ERROR * 3 exclude * * * 2 include tallhome.* ERROR * 3 exclude * * * 4 cg-events 1 include * EMERGENCY, ALERT, ERROR 2 exclude * * *

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

· 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 <code>-detail</code> 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:

[-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
                                              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:

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:

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
                  Params Destination
Name
           Type
           _____
_____
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 *
           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
_____
  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:

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:

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 <code>-fields</code> <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
----- 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 <code>legacy-netapp</code>.

[-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":

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
               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
            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 <code>certificate-serial</code> 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
              Type
                         Destination
_____
                         _____
StorageAdminEmail
                         StorageAdmin@example.com
              email
StorageAdminSyslog
              syslog
                         example.com
              snmp
snmp-traphost
                         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-unencryptedsyslog-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
                        - (from "system snmp traphost")
              snmp
tst01
              syslog
                        test.com (port: 6514, transport: tcp-
encrypted)
tst02
              syslog test.com (port: 601, transport: tcp-
unencrypted)
              syslog test.com (port: 1234, transport: udp-
tst03
unencrypted)
              syslog test.com (port: 514, transport: udp-
tst04
unencrypted)
5 entries were displayed.
cluster1::*> event notification destination prepare-for-revert -delete
-unsupported-syslog-destinations true
cluster1::*> event notification destination show
                        Destination
Name
              Type
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 <code>-fields</code> <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
                           Destination
               Type
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
                           10.30.40.10 (from "system snmp traphost")
               snmp
RestApi
                          https://rest.example.com/rest
               rest-api
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 <code>-fields</code> <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.

[-segnum <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
        Posn Type Message Name Severity
Name
                                         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.
cluster1::> event notification destination show
                 Destination
           Type
-----
snmp-traphost snmp 192.168.10.40 (from "system snmp traphost")
cluster1::> event notification show
ID Filter Name Destinations
-----
     important-events snmp-traphost
cluster1::>event notification history show -destination snmp-traphost
              Node
                           Severity Event
______
_____
5/14/2015 03:02:09 node1
                          EMERGENCY callhome.clam.node.ooq:
Call home for NODE(S) OUT OF CLUSTER QUORUM.
                          ALERT od.rdb.mbox.read.error:
5/13/2015 12:05:45 node1
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:

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-events2 true
storage-admin
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
                          Limit Access to Global Configs
Access Control Role Filter Name
______
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
                          Limit Access to Global Configs
Access Control Role Filter Name
______
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 <code>-fields</code> <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 <code>-fields</code> 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 <code>-fields</code> 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 <code>-fields</code> 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:

Node 	Message	Occurs	Drops	Last Time
node1	raid.spares.media_scrub.start		0	2/11/0010
L5:59:00		6	0	3/11/2010
node1	raid.uninitialized.parity.vol	1		
		3	0	3/11/2010
L5:58:28				, , ,
node1	raid.vol.state.online	3	0	3/11/2010
15:58:29				
node1	reg.defaultCommit.set.timeTal	ken		
		1	0	3/11/2010
15:58:28				
node1	scsitgt.ha.state.changed	2	0	3/11/2010
L5:58:28				
node1	ses.multipath.notSupported	2	0	3/11/2010
L5:58:43				
node1	shelf.config.mpha	1	0	3/11/2010
L5:58:48				
node1	sk.hog.runtime	1	0	3/11/2010
L5:58:28				
node1	<pre>snmp.agent.msg.access.denied</pre>	1	0	3/11/2010
L5:58:28				
node1	snmp.link.up	6	0	3/11/2010
15:58:28				
node1	tar.csum.mismatch	2	0	3/11/2010
L5:58:28		0	0	0/11/0000
node1	tar.extract.success	2	0	3/11/2010
L5:58:28		2	0	2/11/2212
node1	vifmgr.lifsuccessfullymoved	3	0	3/11/2010
L5:58:46		1	0	2/11/0010
node1	vifmgr.portdown	1	0	3/11/2010
L5:58:48	wifman nontun	5	0	2/11/2010
node1 L5:58:48	vifmgr.portup	5	0	3/11/2010
	wifman atantodayaaaaafulla	1	0	2/11/2010
node1	vifmgr.startedsuccessfully	1	0	3/11/2010

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

cluster1::> event status show -node node1 -severity <=warning -fields</pre> indications, drops, severity node message-name indications drops severity node1 api.output.invalidSchema 5463 840 WARNING node1 callhome.dsk.config 1 \cap WARNING node1 callhome.sys.config 1 SVC ERROR node1 cecc log.dropped 0 145 WARNING node1 cecc log.entry 5 Ω WARNING node1 cecc log.entry no syslog 4540 218 WARNING node1 cecc log.summary 0 WARNING node1 cf.fm.noPartnerVariable 5469 839 WARNING node1 cf.fm.notkoverBadMbox 1 0 WARNING node1 cf.fm.notkoverClusterDisable 1 WARNING 0 node1 cf.fsm.backupMailboxError 1 WARNING node1 cf.takeover.disabled 23 0 WARNING node1 cmds.sysconf.logErr 1 0 NODE ERROR node1 config.noPartnerDisks 1 0 NODE ERROR fci.initialization.failed 2 node1 0 NODE ERROR node1 fcp.service.adapter 1 0 WARNING fmmb.BlobNotFound node1 1 0 WARNING node1 ha.takeoverImpNotDef 1 0 WARNING httpd.config.mime.missing 2 node1 0 WARNING node1 mgr.opsmgr.autoreg.norec 1 WARNING monitor.globalStatus.critical 1 node1 0 NODE ERROR node1 raid.mirror.vote.versionZero 1 0 SVC ERROR node1 ses.multipath.notSupported 2 0 NODE ERROR snmp.agent.msg.access.denied 1 node1 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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