



Manage event filter rules

ONTAP 9.14.1 REST API reference

NetApp
May 23, 2024

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Manage event filter rules

Support EMS filters name rules index endpoint overview

Overview

Manages a specific instance of a rule within a filter. See the documentation for </support/ems/filters> for details on the various properties in a rule.

Examples

Retrieving a single instance of a rule

```
# The API:
GET /api/support/ems/filters/{name}/rules/{index}

# The call:
curl -X GET "https://<mgmt-ip>/api/support/ems/filters/no-info-debug-
events/rules/1" -H "accept: application/hal+json"

# The response:
200 OK

# JSON Body
{
  "name": "no-info-debug-events",
  "index": 1,
  "type": "include",
  "message_criteria": {
    "name_pattern": "*",
    "severities": "emergency,alert,error,notice",
    "snmp_trap_types": "*",
    "_links": {
      "self": {
        "href":
"/api/support/ems/messages?name=*&severity=emergency,alert,error,notice&sn
mp_trap_type="
      }
    }
  },
  "parameter_criteria": [
    {
      "name_pattern": "*",
      "value_pattern": "*"
    }
  ],
  "_links": {
    "self": {
      "href": "/api/support/ems/filters/no-info-debug-events/rules/1"
    }
  }
}
```

Updating an existing rule to use severity emergency

```
# The API:
PATCH /api/support/ems/filters/{name}/rules/{index}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/support/ems/filters/test-
filter/rules/1" -H "accept: application/hal+json" -H "Content-Type:
application/json" -d "@test_ems_filter_rules_patch.txt"
test_ems_filter_rules_patch.txt (body):
{
  "message_criteria": {
    "severities": "emergency"
  }
}

# The response:
200 OK
```

Deleting a rule from an existing filter

```
# The API:
DELETE /api/support/ems/filters/{name}/rules/{index}

# The call:
curl -X DELETE "https://<mgmt-ip>/api/support/ems/filters/test-
filter/rules/1" -H "accept: application/hal+json"

# The response:
200 OK
```

Delete an event filter rule

```
DELETE /support/ems/filters/{name}/rules/{index}
```

Introduced In: 9.6

Deletes an event filter rule.

Related ONTAP commands

- `event filter rule delete`

Parameters

Name	Type	In	Required	Description
name	string	path	True	Filter name
index	string	path	True	Filter rule index

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
983091	A default rule cannot be removed
983092	The index of the rule provided is outside the allowed range for the filter provided
983095	The rule index provided is invalid for the filter provided
983110	There are no user defined rules in the filter provided
983113	Default filters cannot be modified or removed

Also see the table of common errors in the [Response body](#) overview section of this documentation.

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": {
      "code": "string",
      "message": "string"
    },
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Retrieve an event filter rule

GET /support/ems/filters/{name}/rules/{index}

Introduced In: 9.6

Retrieves an event filter rule.

Related ONTAP commands

- `event filter show`

Parameters

Name	Type	In	Required	Description
name	string	path	True	Filter name
index	string	path	True	Filter rule index
fields	array[string]	query	False	Specify the fields to return.

Response

Status: 200, Ok

Name	Type	Description
_links	_links	
index	integer	Rule index. Rules are evaluated in ascending order. If a rule's index order is not specified during creation, the rule is appended to the end of the list.
message_criteria	message_criteria	Matching message definitions for the filter. A property must be specified.
parameter_criteria	array[parameter_criteria]	Parameter criteria used to match against events' parameters. Each parameter consists of a name and a value. When multiple parameter criteria are provided in a rule, all must match for the rule to be considered matched. A pattern can include one or more wildcard '*' characters.
type	string	Rule type

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "index": 1,
  "message_criteria": {
    "_links": {
      "related": {
        "href": "/api/resourcelink"
      }
    },
    "name_pattern": "waf1.*",
    "severities": "emergency,alert,error",
    "snmp_trap_types": "standard,built_in"
  },
  "parameter_criteria": {
    "name_pattern": "vol",
    "value_pattern": "cloud*"
  },
  "type": "include"
}
```

Error

Status: Default, Error

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": {
      "code": "string",
      "message": "string"
    },
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
self	href	

_links

Name	Type	Description
related	href	

message_criteria

Matching message definitions for the filter. A property must be specified.

Name	Type	Description
_links	_links	
name_pattern	string	Message name filter on which to match. Supports wildcards. Defaults to * if not specified.
severities	string	A comma-separated list of severities or a wildcard.
snmp_trap_types	string	A comma separated list of snmp_trap_types or a wildcard.

parameter_criteria

Criterion used for parameter based filtering

Name	Type	Description
name_pattern	string	Parameter name pattern. Wildcard character '*' is supported.
value_pattern	string	Parameter value pattern. Wildcard character '*' is supported.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Update an event filter rule

PATCH /support/ems/filters/{name}/rules/{index}

Introduced In: 9.6

Updates an event filter rule.

Recommended optional properties

- `message_criteria` - Message criteria used by a rule to match an event.
- `parameter_criteria` - Parameter criteria used by a rule to match an event.

Related ONTAP commands

- `event filter rule add`
- `event filter rule delete`

Parameters

Name	Type	In	Required	Description
name	string	path	True	Filter name
index	string	path	True	Filter rule index

Name	Type	In	Required	Description
new_index	integer	query	False	New position for the filter rule index

Request Body

Name	Type	Description
_links	_links	
index	integer	Rule index. Rules are evaluated in ascending order. If a rule's index order is not specified during creation, the rule is appended to the end of the list.
message_criteria	message_criteria	Matching message definitions for the filter. A property must be specified.
parameter_criteria	array[parameter_criteria]	Parameter criteria used to match against events' parameters. Each parameter consists of a name and a value. When multiple parameter criteria are provided in a rule, all must match for the rule to be considered matched. A pattern can include one or more wildcard '*' characters.
type	string	Rule type

Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "index": 1,
  "message_criteria": {
    "_links": {
      "related": {
        "href": "/api/resourcelink"
      }
    },
    "name_pattern": "waf1.*",
    "severities": "emergency,alert,error",
    "snmp_trap_types": "standard,built_in"
  },
  "parameter_criteria": {
    "name_pattern": "vol",
    "value_pattern": "cloud*"
  },
  "type": "include"
}
```

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
983092	The index of the rule provided is outside the allowed range for the filter provided
983095	The rule index provided is invalid for the filter provided
983113	Default filters cannot be modified or removed

Error Code	Description
983126	A rule requires at least one name_pattern, severities, snmp_trap_types, or parameter pattern to be defined
983127	A property cannot contain a combination of the wildcard characters and other values.
983128	An invalid value is provided for the property 'snmp_trap_types'
983146	An invalid value is provided for the property 'severities'
983147	The severities provided are not supported
983155	The provided severities property does not match that of the name_pattern
983156	The provided snmp_trap_types property does not match that of the name_pattern
983157	The provided severities and snmp_trap_types properties do not match those of the name_pattern
983158	The name_pattern provided does not exist
983195	Empty field in parameter_criteria. Both name and value patterns must be specified
983196	name_pattern and value_pattern fields in parameter_criteria are empty
983211	Parameter criteria based filtering is not supported in this version of ONTAP

Also see the table of common errors in the [Response body](#) overview section of this documentation.

Name	Type	Description
error	returned_error	

Example error

```

{
  "error": {
    "arguments": {
      "code": "string",
      "message": "string"
    },
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}

```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
self	href	

_links

Name	Type	Description
related	href	

message_criteria

Matching message definitions for the filter. A property must be specified.

Name	Type	Description
_links	_links	
name_pattern	string	Message name filter on which to match. Supports wildcards. Defaults to * if not specified.
severities	string	A comma-separated list of severities or a wildcard.
snmp_trap_types	string	A comma separated list of snmp_trap_types or a wildcard.

parameter_criteria

Criterion used for parameter based filtering

Name	Type	Description
name_pattern	string	Parameter name pattern. Wildcard character '*' is supported.
value_pattern	string	Parameter value pattern. Wildcard character '*' is supported.

ems_filter_rule

Rule for an event filter

Name	Type	Description
_links	_links	
index	integer	Rule index. Rules are evaluated in ascending order. If a rule's index order is not specified during creation, the rule is appended to the end of the list.
message_criteria	message_criteria	Matching message definitions for the filter. A property must be specified.
parameter_criteria	array[parameter_criteria]	Parameter criteria used to match against events' parameters. Each parameter consists of a name and a value. When multiple parameter criteria are provided in a rule, all must match for the rule to be considered matched. A pattern can include one or more wildcard '*' characters.
type	string	Rule type

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

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