Manage event filters

REST API reference

NetApp
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Overview

Manages a specific filter instance. See the documentation for /support/ems/filters for details on the various properties.

Examples

Retrieving a specific filter instance

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

# The call:
curl -X GET "https://<mgmt-ip>/api/support/ems/filters/aggregate-events"
-H "accept: application/hal+json"

# The response:
200 OK

# JSON Body
{
"name": "aggregate-events",
"rules": [
  {
    "index": 1,
    "type": "include",
    "message_criteria": {
      "name_pattern": "*",
      "severities": "emergency,alert,error,notice",
      "snmp_trap_types": "*",
      "_links": {
        "related": {
          "href":
"/api/support/ems/messages?name=*&severity=emergency,alert,error,notice&sn
mp_trap_type=*"
        }
      }
    },
    "parameter_criteria": [
      {
        "name_pattern": "type",
        "value_pattern": "aggregate"
```

```
        }
      ],
      "_links": {
        "self": {
          "href": "/api/support/ems/filters/aggregate-events/rules/1"
        }
      }
    },
    {
      "index": 2,
      "type": "exclude",
      "message_criteria": {
        "name_pattern": "*",
        "severities": "*",
        "snmp_trap_types": "*",
        "_links": {
          "related": {
            "href":
"/api/support/ems/messages?name=*&severity=*&snmp_trap_type=*"
          }
        }
      },
      "parameter_criteria": [
        {
          "name_pattern": "*",
          "value_pattern": "*"
        }
      ],
      "_links": {
        "self": {
          "href": "/api/support/ems/filters/aggregate-events/rules/2"
        }
      }
    }
  ],
  "_links": {
    "self": {
      "href": "/api/support/ems/filters/aggregate-events"
    }
  }
}
```

Updating an existing filter with a new rule

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

# The call:
curl -X PATCH "https://<mgmt-ip>/api/support/ems/filters/test-filter" -H
"accept: application/hal+json" -H "Content-Type: application/json" -d
"@test_ems_filters_patch.txt"
test_ems_filters_patch.txt(body):
{
"rules": [
  {
    "type": "include",
    "message_criteria": {
      "name_pattern": "wafl.*",
      "severities": "error"
    }
  }
]
}

# The response:
200 OK
```

Deleting an existing filter

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

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

# The response:
200 OK
```

Delete an event filter

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

Introduced In: 9.6

Deletes an event filter.

Related ONTAP commands

- `event filter delete`

Parameters

Name	Type	In	Required	Description
name	string	path	True	Filter name

Response

```
Status: 200, Ok
```

Error

```
Status: Default
```

ONTAP Error Response Codes

Error Code	Description
983113	Default filters cannot be modified or removed
983124	Filter is being referenced by a destination
983204	Filter is being used for role-based operations

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

GET `/support/ems/filters/{name}`

Introduced In: 9.6

Retrieves an event filter.

Related ONTAP commands

- `event filter show`

Parameters

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

Response

```
Status: 200, Ok
```

Name	Type	Description
_links	_links	
access_control_role	access_control_role	Indicates the access control role that created the event filter and is used to control access to the filter based on role-based access control (RBAC) rules. If created by the 'admin' user, the field is unset.
name	string	Filter name
rules	array[rules]	Array of event filter rules on which to match.
system_defined	boolean	Flag indicating system-defined filters.

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "access_control_role": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "admin"
  },
  "name": "wafl-critical-events",
  "rules": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "index": 1,
      "message_criteria": {
        "_links": {
          "related": {
            "href": "/api/resourcelink"
          }
        },
        "name_pattern": "wafl.*",
        "severities": "emergency,alert,error",
        "snmp_trap_types": "standard,built_in"
      },
      "parameter_criteria": [
        {
          "name_pattern": "vol",
          "value_pattern": "cloud*"
        }
      ],
      "type": "include"
    }
  ],
  "system_defined": 1
}
```

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	

access_control_role

Indicates the access control role that created the event filter and is used to control access to the filter based on role-based access control (RBAC) rules. If created by the 'admin' user, the field is unset.

Name	Type	Description
_links	_links	
name	string	Role name

_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.

rules

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.

Update an event filter

PATCH `/support/ems/filters/{name}`

Introduced In: 9.6

Updates an event filter.

Recommended optional properties

- `new_name` - New string that uniquely identifies a filter.
- `rules` - New list of criteria used to match the filter with an event. The existing list is discarded.

Related ONTAP commands

- `event filter rename`
- `event filter rule add`
- `event filter rule delete`
- `event filter rule reorder`

Parameters

Name	Type	In	Required	Description
name	string	path	True	Filter name
new_name	string	query	False	New filter name for renames. Valid in PATCH.

Request Body

Name	Type	Description
access_control_role	access_control_role	Indicates the access control role that created the event filter and is used to control access to the filter based on role-based access control (RBAC) rules. If created by the 'admin' user, the field is unset.
rules	array[rules]	Array of event filter rules on which to match.
system_defined	boolean	Flag indicating system-defined filters.

Example request

```
{
  "access_control_role": {
    "name": "admin"
  },
  "rules": [
    {
      "index": 1,
      "message_criteria": {
        "name_pattern": "wafl.*",
        "severities": "emergency,alert,error",
        "snmp_trap_types": "standard,built_in"
      },
      "parameter_criteria": [
        {
          "name_pattern": "vol",
          "value_pattern": "cloud*"
        }
      ],
      "type": "include"
    }
  ],
  "system_defined": 1
}
```

Response

```
Status: 200, Ok
```

Error

```
Status: Default
```

ONTAP Error Response Codes

Error Code	Description
983088	The filter name provided is empty
983089	The filter name provided cannot contain spaces
983092	The index of the rule provided is outside the allowed range for the filter provided
983094	The filter name provided is invalid. The filter name must contain between 2 and 64 characters and start and end with an alphanumeric symbol or (underscore). The allowed special characters are (underscore) and -(hyphen)
983095	The rule index provided is invalid for the filter provided
983101	No event is matched by the rule provided
983113	Default filters cannot be modified or removed
983114	The maximum number of filters is reached
983115	The maximum number of filter rules is reached
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

Error Code	Description
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.

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

access_control_role

Indicates the access control role that created the event filter and is used to control access to the filter based on role-based access control (RBAC) rules. If created by the 'admin' user, the field is unset.

Name	Type	Description
name	string	Role name

message_criteria

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

Name	Type	Description
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.

rules

Rule for an event filter

Name	Type	Description
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

ems_filter

Name	Type	Description
access_control_role	access_control_role	Indicates the access control role that created the event filter and is used to control access to the filter based on role-based access control (RBAC) rules. If created by the 'admin' user, the field is unset.
rules	array[rules]	Array of event filter rules on which to match.
system_defined	boolean	Flag indicating system-defined filters.

error_arguments

Name	Type	Description
code	string	Argument code

Name	Type	Description
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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