View and create EMS role-based configurations

REST API reference

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View and create EMS role-based configurations

View and create EMS role-based configurations

Overview

Manages the list of access control roles that have limited access to the EMS events and configurations. Access to the EMS events and configurations are controlled by the EMS role-based configuration, which has the following two properties:

- `event_filter`
- `limit_access_to_global_configs`

Role-based event filter

A role-based event filter is a filter assigned to an access control role that limits what events users of that role have access to. It is applied transparently when a user of that role performs GET requests on the following endpoints:

- `/support/ems/events`
- `/support/ems/messages`

It is also applied when events are forwarded as notifications to destinations created by users of that role. To those destinations, only events that match the role-based filter in addition to the filters configured on the destinations are forwarded.

Limiting access to the global EMS configurations

The APIs at the `/api/support/ems` endpoint expose several configuration properties that affect how EMS handles events. The following properties are always accessible by all roles that have access to the `/api/support/ems` APIs.

- `mail_from`
- `mail_server`
- `mail_server_user`
- `mail_server_password`
- `proxy_url`
- `proxy_user`
- `proxy_password`

Access to the following property by an access control role can be restricted:

- `pubsub_enabled`

Limiting access to EMS events and configurations is typically applied for an access control role that is designed to have limited administrative capabilities. For example, when the cluster is physically managed by a service provider and the services are managed by the customer.

Examples

Retrieving the list of EMS role-based configurations

```
# The API:
GET /api/support/ems/role-configs

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

# The response:
200 OK

# JSON Body
{
"records": [
  {
    "access_control_role": {
      "name": "storage-admin",
      "_links": {
        "self": {
          "href": "/api/security/roles/0b2580c8-de36-4213-bfca-
88cdaaaf3ae6/storage-admin"
        }
      }
    },
    "event_filter": {
      "name": "storage-admin-events",
      "_links": {
        "self": {
          "href": "/api/support/ems/filters/storage-admin-events"
        }
      }
    },
    "limit_access_to_global_configs": true,
    "_links": {
      "self": {
        "href": "/api/support/ems/role-configs/storage-admin"
      }
    }
  },
  {
    "access_control_role": {
      "name": "network-admin",
      "_links": {
```

```
        "self": {
          "href": "/api/security/roles/0b2580c8-de36-4213-bfca-
88cdaaaf3ae6/network-admin"
        }
      }
    },
    "filter_filter": {
      "name": "network-admin-events",
      "_links": {
        "self": {
          "href": "/api/support/ems/filters/network-admin-events"
        }
      }
    },
    "limit_access_to_global_configs": true,
    "_links": {
      "self": {
        "href": "/api/support/ems/role-configs/network-admin"
      }
    }
  }
],
"num_records": 2,
"_links": {
  "self": {
    "href": "/api/support/ems/role-configs"
  }
}
}
```

Creating an EMS role-based configuration for an access control role

```
# The API:
POST /api/support/ems/role-configs

# The call:
curl -X POST "https://<mgmt-ip>/api/support/ems/role-configs" -H "accept:
application/hal+json" -H "Content-Type: application/json" -d
"@role_configs_post.txt"
role_configs_post.txt(body):
{
"access_control_role": {
  "name": "storage-admin"
},
"event_filter": {
  "name": "storage-admin-events"
},
"limit_access_to_global_configs": true
}

# The response:
201 Created
```

Retrieve EMS role-based configurations

GET `/support/ems/role-configs`

Introduced In: 9.13

Retrieves a collection of the EMS role-based configurations.

Related ONTAP commands

- `event role-config show`

Parameters

Name	Type	In	Required	Description
event_filter.name	string	query	False	Filter by event_filter.name
access_control_role.name	string	query	False	Filter by access_control_role.name

Name	Type	In	Required	Description
limit_access_to_global_configs	boolean	query	False	Filter by limit_access_to_global_configs
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned. • Default value: 1
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached. • Default value: 15 • Max value: 120 • Min value: 0
order_by	array[string]	query	False	Order results by specified fields and optional [asc

Response

```
Status: 200, Ok
```

Name	Type	Description
_links	_links	
num_records	integer	Number of records
records	array[records]	

Example response


```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "access_control_role": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "admin"
      },
      "event_filter": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "important-events"
      }
    }
  ]
}
```


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
next	href	
self	href	

_links

Name	Type	Description
self	href	

access_control_role

Access control role that the event filter is assigned to.

Name	Type	Description
_links	_links	
name	string	Role name

event_filter

Event filter that is assigned to the access control role.

Name	Type	Description
_links	_links	
name	string	

records

Name	Type	Description
_links	_links	
access_control_role	access_control_role	Access control role that the event filter is assigned to.
event_filter	event_filter	Event filter that is assigned to the access control role.

Name	Type	Description
limit_access_to_global_configs	boolean	Indicates whether the access control has limited access to global EMS configurations.

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.

Create an EMS role-based configuration for an access control role

POST `/support/ems/role-configs`

Introduced In: 9.13

Creates an EMS role-based configuration for an access control role.

Required properties

- `access_control_role` - Uniquely identifies the access control role.

Recommended optional properties

- `event_filter` - Identifies the event filter.
- `limit_access_to_global_configs` - Indicates whether the access control role has limited access to global EMS configurations.

Related ONTAP commands

- `event role-config create`

Parameters

Name	Type	In	Required	Description
return_records	boolean	query	False	The default is false. If set to true, the records are returned. • Default value:

Request Body

Name	Type	Description
access_control_role	access_control_role	Access control role that the event filter is assigned to.
event_filter	event_filter	Event filter that is assigned to the access control role.
limit_access_to_global_configs	boolean	Indicates whether the access control has limited access to global EMS configurations.

Example request

```
{
  "access_control_role": {
    "name": "admin"
  },
  "event_filter": {
    "name": "important-events"
  }
}
```

Response

```
Status: 201, Created
```

Name	Type	Description
num_records	integer	Number of records
records	array[records]	

Example response


```
{
  "num_records": 1,
  "records": [
    {
      "access_control_role": {
        "name": "admin"
      },
      "event_filter": {
        "name": "important-events"
      }
    }
  ]
}
```


Headers

Name	Description	Type
Location	Useful for tracking the resource location	string

Error

```
Status: Default
```

ONTAP Error Response Codes

Error Code	Description
983198	The event filter provided does not exist.
983199	The access control role provided does not exist.

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

Access control role that the event filter is assigned to.

Name	Type	Description
name	string	Role name

event_filter

Event filter that is assigned to the access control role.

Name	Type	Description
name	string	

ems_role_config

Name	Type	Description
access_control_role	access_control_role	Access control role that the event filter is assigned to.
event_filter	event_filter	Event filter that is assigned to the access control role.
limit_access_to_global_configs	boolean	Indicates whether the access control has limited access to global EMS configurations.

records

Name	Type	Description
access_control_role	access_control_role	Access control role that the event filter is assigned to.
event_filter	event_filter	Event filter that is assigned to the access control role.

Name	Type	Description
limit_access_to_global_configs	boolean	Indicates whether the access control has limited access to global EMS configurations.

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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