



# **View and create EMS role configurations**

## **ONTAP 9.13.1 REST API reference**

NetApp  
April 02, 2024

# Table of Contents

- View and create EMS role configurations ..... 1
  - Support EMS role-configs endpoint overview ..... 1
  - Retrieve EMS role-based configurations ..... 4
  - Create role configurations ..... 8

# View and create EMS role configurations

## Support EMS role-configs endpoint overview

### 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`
- `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/{access\_control\_role.name}

**Introduced In:** 9.13

Retrieves the EMS role-based configuration of the access control role.

### Related ONTAP commands

- `event role-config show`

### Parameters

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

### Response

Status: 200, Ok

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
access_control_role	<a href="#">access_control_role</a>	Access control role that the event filter is assigned to.
event_filter	<a href="#">event_filter</a>	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 response

```
{
  "_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	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	<a href="#">href</a>	

access\_control\_role

Access control role that the event filter is assigned to.

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	Role name

event\_filter

Event filter that is assigned to the access control role.

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	

error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message

Name	Type	Description
target	string	The target parameter that caused the error.

## Create role configurations

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
<code>_links</code>	<a href="#">_links</a>	
<code>access_control_role</code>	<a href="#">access_control_role</a>	Access control role that the event filter is assigned to.

Name	Type	Description
event_filter	<a href="#">event_filter</a>	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

```

{
  "_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"
  }
}

```

### Response

Status: 201, Created

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	

Name	Type	Description
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"
    }
  }
}

```

## 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.

Name	Type	Description
error	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	<a href="#">href</a>	

access\_control\_role

Access control role that the event filter is assigned to.

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	Role name

event\_filter

Event filter that is assigned to the access control role.

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	

ems\_role\_config

Name	Type	Description
_links	<a href="#">_links</a>	
access_control_role	<a href="#">access_control_role</a>	Access control role that the event filter is assigned to.
event_filter	<a href="#">event_filter</a>	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.

\_links

Name	Type	Description
next	<a href="#">href</a>	
self	<a href="#">href</a>	

records

Name	Type	Description
_links	<a href="#">_links</a>	
access_control_role	<a href="#">access_control_role</a>	Access control role that the event filter is assigned to.
event_filter	<a href="#">event_filter</a>	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.

error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Copyright information

Copyright © 2024 NetApp, Inc. All Rights Reserved. Printed in the U.S. No part of this document covered by copyright may be reproduced in any form or by any means—graphic, electronic, or mechanical, including photocopying, recording, taping, or storage in an electronic retrieval system—without prior written permission of the copyright owner.

Software derived from copyrighted NetApp material is subject to the following license and disclaimer:

THIS SOFTWARE IS PROVIDED BY NETAPP “AS IS” AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL NETAPP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NetApp reserves the right to change any products described herein at any time, and without notice. NetApp assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by NetApp. The use or purchase of this product does not convey a license under any patent rights, trademark rights, or any other intellectual property rights of NetApp.

The product described in this manual may be protected by one or more U.S. patents, foreign patents, or pending applications.

LIMITED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (b)(3) of the Rights in Technical Data -Noncommercial Items at DFARS 252.227-7013 (FEB 2014) and FAR 52.227-19 (DEC 2007).

Data contained herein pertains to a commercial product and/or commercial service (as defined in FAR 2.101) and is proprietary to NetApp, Inc. All NetApp technical data and computer software provided under this Agreement is commercial in nature and developed solely at private expense. The U.S. Government has a non-exclusive, non-transferrable, nonsublicensable, worldwide, limited irrevocable license to use the Data only in connection with and in support of the U.S. Government contract under which the Data was delivered. Except as provided herein, the Data may not be used, disclosed, reproduced, modified, performed, or displayed without the prior written approval of NetApp, Inc. United States Government license rights for the Department of Defense are limited to those rights identified in DFARS clause 252.227-7015(b) (FEB 2014).

## Trademark information

NETAPP, the NETAPP logo, and the marks listed at <http://www.netapp.com/TM> are trademarks of NetApp, Inc. Other company and product names may be trademarks of their respective owners.