



Manage event destinations

ONTAP 9.11.1 REST API reference

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Manage event destinations

Support EMS destinations endpoint overview

Overview

Manages the list of destinations. A destination is defined by a type and a place to which an event's information is transmitted.

Destination Types

An EMS destination is defined by a single type, which is one of the following:

- email
- syslog
- rest_api
- snmp

Email

The 'email' type allows you to define a mailbox where information about an observed event is sent by SMTP. Enter the address in the destination field in a valid format. For example: administrator@mycompany.com

Syslog

The 'syslog' type allows you to specify a remote syslog server that can receive information about an observed event. Enter the hostname or IP address in the destination field. For example: `syslog.mycompany.com`, `192.168.1.1`

Rest API

The 'rest_api' type allows you to define a URL where information about an observed event is sent using the REST protocol. Enter the URL in the destination field. The URL must contain a valid transmission schema which can be one of the following:

- http
- https

#

Using the 'https' schema, you can configure a client-side certificate for mutual authentication. For example: <http://rest.mycompany.com>, <https://192.168.1.1>

SNMP

The 'snmp' type describes addresses where information about an observed event is sent using SNMP traps. The system defines a default instance of this type and it is restricted to read-only. This type has the following limitations:

- Cannot create new destinations of type 'snmp'

- Cannot modify the default 'snmp' destination

SNMP trap host details need to be configured through one of the following:

Type	Command / API
CLI	'system snmp traphost'
ZAPI	'snmp-traphost-add' / 'snmp-traphost-delete'

Examples

Retrieving the list of active destinations

```
# The API:
GET /api/support/ems/destinations

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

# The response:
200 OK

# JSON Body
{
  "records": [
    {
      "name": "snmp-traphost",
      "_links": {
        "self": {
          "href": "/api/support/ems/destinations/snmp-traphost"
        }
      }
    }
  ],
  "num_records": 1,
  "_links": {
    "self": {
      "href": "/api/support/ems/destinations"
    }
  }
}
```

Creating a new 'email' destination

```

# The API:
POST /support/ems/destinations

# The call:
curl -X POST "https://<mgmt-ip>/api/support/ems/destinations" -H "accept:
application/hal+json" -H "Content-Type: application/json" -d
"@test_ems_destinations_post.txt"
test_ems_destinations_post.txt (body):

# JSON Body
{
  "name": "Technician_Email",
  "type": "email",
  "destination": "technician@mycompany.com",
  "filters": [
    { "name" : "critical-wafl" }
  ]
}

# The response:
201 Created

```

Retrieve a collection of event destinations

GET /support/ems/destinations

Introduced In: 9.6

Retrieves a collection of event destinations.

Related ONTAP commands

- event notification destination show
- event notification show

Parameters

Name	Type	In	Required	Description
connectivity.errors.node.uuid	string	query	False	Filter by connectivity.errors.node.uuid • Introduced in: 9.11

Name	Type	In	Required	Description
connectivity.errors.n ode.name	string	query	False	Filter by connectivity.errors.n ode.name • Introduced in: 9.11
connectivity.errors.m essage.arguments.m essage	string	query	False	Filter by connectivity.errors.m essage.arguments. message • Introduced in: 9.11
connectivity.errors.m essage.arguments.c ode	string	query	False	Filter by connectivity.errors.m essage.arguments.c ode • Introduced in: 9.11
connectivity.errors.m essage.code	string	query	False	Filter by connectivity.errors.m essage.code • Introduced in: 9.11
connectivity.errors.m essage.message	string	query	False	Filter by connectivity.errors.m essage.message • Introduced in: 9.11
connectivity.state	string	query	False	Filter by connectivity.state • Introduced in: 9.11
system_defined	boolean	query	False	Filter by system_defined • Introduced in: 9.10

Name	Type	In	Required	Description
certificate.name	string	query	False	Filter by certificate.name • Introduced in: 9.11
certificate.ca	string	query	False	Filter by certificate.ca • maxLength: 256 • minLength: 1
certificate.serial_number	string	query	False	Filter by certificate.serial_number • maxLength: 40 • minLength: 1
filters.name	string	query	False	Filter by filters.name
name	string	query	False	Filter by name
type	string	query	False	Filter by type
destination	string	query	False	Filter by destination
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.

Name	Type	In	Required	Description
return_timeout	integer	query	False	<p>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.</p> <ul style="list-style-type: none"> • Default value: 1 • Max value: 120 • Min value: 0
return_records	boolean	query	False	<p>The default is true for GET calls. When set to false, only the number of records is returned.</p> <ul style="list-style-type: none"> • Default value: 1
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": 3,
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "certificate": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "ca": "VeriSign",
      "name": "cert1",
      "serial_number": "1234567890"
    },
    "connectivity": {
      "errors": {
        "message": {
          "arguments": {
            "code": "string",
            "message": "string"
          },
          "code": "4",
          "message": "entry doesn't exist"
        },
        "node": {
          "_links": {
            "self": {
              "href": "/api/resourcelink"
            }
          },
          "name": "node1",
          "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
        }
      }
    }
  }
}
```

```

    }
  },
  "state": "fail"
},
"destination": "<a href="
mailto:administrator@mycompany.com">administrator@mycompany.com</a>",
"filters": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "important-events"
},
"name": "Admin_Email",
"system_defined": 1,
"type": "email"
}
}

```

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
next	href	
self	href	

_links

Name	Type	Description
self	href	

certificate

Security certificate object reference

Name	Type	Description
_links	_links	
ca	string	Client certificate issuing CA
name	string	Certificate name
serial_number	string	Client certificate serial number

arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

message

Information to be displayed to the user.

Name	Type	Description
arguments	array[arguments]	Message arguments

Name	Type	Description
code	string	Unique message code.
message	string	User message.

node

Name	Type	Description
_links	_links	
name	string	
uuid	string	

errors

Error object included in the event of connectivity failure.

Name	Type	Description
message	message	Information to be displayed to the user.
node	node	

connectivity

Name	Type	Description
errors	array[errors]	A list of errors encountered during connectivity checks.
state	string	Current connectivity state.

filters

Name	Type	Description
_links	_links	
name	string	

records

Name	Type	Description
_links	_links	
certificate	certificate	Security certificate object reference

Name	Type	Description
connectivity	connectivity	
destination	string	Event destination
filters	array[filters]	
name	string	Destination name. Valid in POST.
system_defined	boolean	Flag indicating system-defined destinations.
type	string	Type of destination. Valid in POST.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

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 event destination

POST /support/ems/destinations

Introduced In: 9.6

Creates an event destination.

Required properties

- `name` - String that uniquely identifies the destination.
- `type` - Type of destination that is to be created.
- `destination` - String that identifies the destination. The contents of this property changes depending on `type`.

Recommended optional properties

- `filters.name` - List of filter names that should direct to this destination.
- `certificate` - When specifying a rest api destination, a client certificate can be provided.

Related ONTAP commands

- `event notification destination create`
- `event notification create`

Parameters

Name	Type	In	Required	Description
<code>return_records</code>	boolean	query	False	The default is false. If set to true, the records are returned. <ul style="list-style-type: none">• Default value:

Request Body

Name	Type	Description
<code>_links</code>	_links	
<code>certificate</code>	certificate	Security certificate object reference
<code>connectivity</code>	connectivity	
<code>destination</code>	string	Event destination
<code>filters</code>	array[filters]	
<code>name</code>	string	Destination name. Valid in POST.
<code>system_defined</code>	boolean	Flag indicating system-defined destinations.
<code>type</code>	string	Type of destination. Valid in POST.

Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "certificate": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "ca": "VeriSign",
    "name": "cert1",
    "serial_number": "1234567890"
  },
  "connectivity": {
    "errors": {
      "message": {
        "arguments": {
          "code": "string",
          "message": "string"
        },
        "code": "4",
        "message": "entry doesn't exist"
      },
      "node": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "node1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      }
    },
    "state": "fail"
  },
  "destination": "<a href="
mailto:administrator@mycompany.com">administrator@mycompany.com</a>",
  "filters": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    }
  }
}
```



```
    }
  },
  "name": "important-events"
},
"name": "Admin_Email",
"system_defined": 1,
"type": "email"
}
```

Response

Status: 201, Created

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": 3,
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "certificate": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "ca": "VeriSign",
      "name": "cert1",
      "serial_number": "1234567890"
    },
    "connectivity": {
      "errors": {
        "message": {
          "arguments": {
            "code": "string",
            "message": "string"
          },
          "code": "4",
          "message": "entry doesn't exist"
        },
        "node": {
          "_links": {
            "self": {
              "href": "/api/resourcelink"
            }
          },
          "name": "node1",
          "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
        }
      }
    }
  }
}
```

```

    }
  },
  "state": "fail"
},
"destination": "<a href="
mailto:administrator@mycompany.com">administrator@mycompany.com</a>",
"filters": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "important-events"
},
"name": "Admin_Email",
"system_defined": 1,
"type": "email"
}
}

```

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
983088	The destination name provided cannot be empty
983089	The destination name provided cannot contain spaces
983094	The destination name provided is invalid. The destination 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)
983104	The syslog destination provided is invalid
983116	The number of notifications has reached maximum capacity
983117	The number of destinations has reached maximum capacity
983129	The rest-api destination provided must contain a valid scheme, such as http// or https//

Error Code	Description
983130	The rest-api destination provided contains an invalid URL
983131	The rest-api destination provided contains an invalid IPv6 URL
983144	The security certificate information provided is incomplete. Provide the certificate and serial number
983145	The rest-api destination provided has an 'http://' scheme. It is invalid to provide certificate information
983149	New SNMP destinations cannot be created
983151	A property provided cannot be configured on the requested destination type
983152	Default destinations cannot be modified or removed
983153	The security certificate provided does not exist
983154	The necessary private key is not installed on the system

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	href	

certificate

Security certificate object reference

Name	Type	Description
_links	_links	
ca	string	Client certificate issuing CA
name	string	Certificate name
serial_number	string	Client certificate serial number

arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

message

Information to be displayed to the user.

Name	Type	Description
arguments	array[arguments]	Message arguments
code	string	Unique message code.
message	string	User message.

node

Name	Type	Description
_links	_links	
name	string	
uuid	string	

errors

Error object included in the event of connectivity failure.

Name	Type	Description
message	message	Information to be displayed to the user.
node	node	

connectivity

Name	Type	Description
errors	array[errors]	A list of errors encountered during connectivity checks.
state	string	Current connectivity state.

filters

Name	Type	Description
_links	_links	
name	string	

ems_destination

Name	Type	Description
_links	_links	
certificate	certificate	Security certificate object reference
connectivity	connectivity	
destination	string	Event destination
filters	array[filters]	
name	string	Destination name. Valid in POST.

Name	Type	Description
system_defined	boolean	Flag indicating system-defined destinations.
type	string	Type of destination. Valid in POST.

_links

Name	Type	Description
next	href	
self	href	

records

Name	Type	Description
_links	_links	
certificate	certificate	Security certificate object reference
connectivity	connectivity	
destination	string	Event destination
filters	array[filters]	
name	string	Destination name. Valid in POST.
system_defined	boolean	Flag indicating system-defined destinations.
type	string	Type of destination. Valid in POST.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

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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