Manage application logs

ONTAP 9.12.1 REST API reference

NetApp
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Table of Contents

Manage application logs . . . 1
Support EMS application-logs endpoint overview . . . 1
Create an application log . . . 3

Manage application logs

Support EMS application-logs endpoint overview

Overview

A POST request allows a standalone application to log its events on the ONTAP system as EMS events and optionally generate AutoSupports. This event information is encapsulated in an app.log.x event, or callhome.client.app.x event in case AutoSupport generation is required, based on the event's severity.

This API only supports POST. Generated events can be retrieved using the /api/support/ems/events API.

Examples

Creating a new app.log.* event

The following example generates an app.log.error event.

```
# The API:
POST /api/support/ems/application-logs

# The call:
curl -X POST "https://<mgmt-ip>/api/support/ems/application-logs" -H
"accept: application/hal+json" -H "Content-Type: application/json" -d "{
\"computer_name\": \"W12-R2-DC\", \"event_source\": \"SnapCenter
Software\", \"app_version\": \"3.0.0.2373\", \"event_id\": 10001,
\"category\": \"error\", \"event_description\": \"Clone split job
failed\", \"severity\": \"error\", \"autosupport_required\": false}"

# The response:
201 CREATED
{}
```

Retrieving a list of events generated by this API

The following example retrieves all app.log.* events.

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

# The call:
curl -X GET "https://<mgmt-
ip>/api/support/ems/events?message.name=app.log.*" -H "accept:
application/hal+json"

# The response:
200 OK
{
"records": [
  {
    "node": {
      "name": "node1",
      "uuid": "d96d5d8d-118a-11ec-aad8-005056bb974c",
      "_links": {
        "self": {
          "href": "/api/cluster/nodes/d96d5d8d-118a-11ec-aad8-
005056bb974c"
        }
      }
    },
    "index": 7865,
    "time": "2021-09-17T09:36:28-04:00",
    "message": {
      "severity": "emergency",
      "name": "app.log.emerg"
    },
    "log_message": "app.log.emerg: iMac: iPad ipad3: (10001) handheld:
TestLine1",
    "_links": {
      "self": {
        "href": "/api/support/ems/events/node1/7865"
      }
    }
  }
],
"num_records": 1,
"_links": {
  "self": {
    "href": "/api/support/ems/events?message.name=app.log.*"
  }
}
}
```

Create an application log

POST `/support/ems/application-logs`

Introduced In: 9.11

Creates an app.log.* event. Setting the "autosupport_required" flag causes callhome.client.app.* events also to be generated, which in turn triggers AutoSupports.

Required properties

- `computer_name` - Client computer connected to the cluster.
- `event_source` - Client application that generated this event.
- `app_version` - Client application version.
- `event_id` - Application eventID.
- `category` - Event category.
- `event_description` - Event description.
- `severity` - Severity of the event.
- `autosupport_required` - Indicates whether AutoSupport generation is required.

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
app_version	string	Client application version.
autosupport_required	boolean	Indicates whether AutoSupport generation is required.
category	string	Event category.
computer_name	string	Client computer connected to the cluster.

Name	Type	Description
event_description	string	Event description, which corresponds to the subject parameter in the generated event.
event_id	integer	Application eventID.
event_source	string	Client application that generated this event.
severity	string	Severity

Example request


```
{
  "app_version": "3.0.0.2373",
  "autosupport_required": "",
  "category": "Error",
  "computer_name": "W12-R2-DC",
  "event_description": "Clone split job failed",
  "event_id": 10001,
  "event_source": "SnapCenter Software",
  "severity": "error"
}
```


Response

```
Status: 201, Created
```

Headers

Name	Description	Type
Location	Useful for tracking the resource location	string

Error

```
Status: Default
```

ONTAP Error Response Codes

Error Code	Description
983146	Invalid value specified for the field "severity".
983173	Application log event generation failed.

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

ems_application_log

Input for generation of app.log.x and callhome.client.app.x events.

Name	Type	Description
app_version	string	Client application version.
autosupport_required	boolean	Indicates whether AutoSupport generation is required.
category	string	Event category.
computer_name	string	Client computer connected to the cluster.
event_description	string	Event description, which corresponds to the subject parameter in the generated event.
event_id	integer	Application eventID.
event_source	string	Client application that generated this event.
severity	string	Severity

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

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

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