



Retrieve events

ONTAP 9.11.1 REST API reference

NetApp
April 02, 2024

Table of Contents

- Retrieve events 1
- Support EMS events endpoint overview 1
- Retrieve observed events 3

Retrieve events

Support EMS events endpoint overview

Overview

Queries a live collection of observed events on the system. Note: The `filter.name` parameter is used to pass a filter to be applied to the event collection returned. To retrieve the list of available filters, refer to </support/ems/filters>

Example

Querying for the latest event received by EMS

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

# The call:
curl -X GET "https://<mgmt-
ip>/api/support/ems/events?fields=message.name&max_records=1" -H "accept:
application/hal+json"

# The response:
200 OK

# JSON Body
{
  "records": [
    {
      "node": {
        "name": "node1",
        "uuid": "f087b8e3-99ac-11e8-b5a5-005056bb4ec7",
        "_links": {
          "self": {
            "href": "/api/cluster/nodes/f087b8e3-99ac-11e8-b5a5-
005056bb4ec7"
          }
        }
      },
      "index": 661,
      "message": {
        "name": "raid.aggr.log.CP.count"
      },
      "_links": {
        "self": {
          "href": "/api/support/ems/events/node1/661"
        }
      }
    }
  ],
  "num_records": 1,
  "_links": {
    "self": {
      "href": "/api/support/ems/events?fields=message.name&max_records=1"
    }
  }
}
```

Retrieve observed events

GET /support/ems/events

Introduced In: 9.6

Retrieves a collection of observed events.

Related ONTAP commands

- `event log show`

Parameters

Name	Type	In	Required	Description
stateful	boolean	query	False	Filter by stateful <ul style="list-style-type: none">• Introduced in: 9.11
uuid	string	query	False	Filter by uuid <ul style="list-style-type: none">• Introduced in: 9.11
action.possible_actions.action	string	query	False	Filter by action.possible_actions.action <ul style="list-style-type: none">• Introduced in: 9.11
action.possible_actions.parameters.format	string	query	False	Filter by action.possible_actions.parameters.format <ul style="list-style-type: none">• Introduced in: 9.11
action.possible_actions.parameters.name	string	query	False	Filter by action.possible_actions.parameters.name <ul style="list-style-type: none">• Introduced in: 9.11

Name	Type	In	Required	Description
action.possible_actions.parameters.type	string	query	False	Filter by action.possible_actions.parameters.type • Introduced in: 9.11
action.possible_actions.invoke.verb	string	query	False	Filter by action.possible_actions.invoke.verb • Introduced in: 9.11
message.name	string	query	False	Filter by message.name
message.severity	string	query	False	Filter by message.severity
time	string	query	False	Filter by time
source	string	query	False	Filter by source
creation_time	string	query	False	Filter by creation_time • Introduced in: 9.11
log_message	string	query	False	Filter by log_message
state	string	query	False	Filter by state • Introduced in: 9.11
node.uuid	string	query	False	Filter by node.uuid
node.name	string	query	False	Filter by node.name
parameters.name	string	query	False	Filter by parameters.name
parameters.value	string	query	False	Filter by parameters.value

Name	Type	In	Required	Description
index	integer	query	False	Filter by index
last_update_time	string	query	False	Filter by last_update_time <ul style="list-style-type: none"> • Introduced in: 9.11
filter.name	string	query	False	Filter the collection returned using an event filter <ul style="list-style-type: none"> • Introduced in: 9.8
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. <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • Default value: 1 • Max value: 120 • Min value: 0

Name	Type	In	Required	Description
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"
      }
    },
    "action": {
      "possible_actions": {
        "action": "scheduled",
        "invoke": {
          "_links": {
            "href": "/api/resourcelink"
          },
          "verb": "patch"
        }
      },
      "parameters": {
        "format": "date-time",
        "name": "schedule-at",
        "type": "string"
      }
    }
  },
  "creation_time": "string",
  "index": 1,
  "last_update_time": "string",
  "log_message": "string",
  "message": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    }
  },
  "name": "callhome.spares.low",
  "severity": "emergency"
}
```

```

    },
    "node": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "node1",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "parameters": {
      "name": "numOps",
      "value": "123"
    },
    "source": "string",
    "state": "auto_healing",
    "time": "string",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  }
}

```

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	

invoke

Opaque URL and HTTP verb used to perform the action.

Name	Type	Description
_links	href	
verb	string	

parameters

Name	Type	Description
format	string	Indicates the contents and format of the string.
name	string	Parameter name.
type	string	Parameter type.

possible_actions

Name	Type	Description
action	string	Name of the action.
invoke	invoke	Opaque URL and HTTP verb used to perform the action.

Name	Type	Description
parameters	array[parameters]	Parameter list for the action.

action

Actions that can be performed on the alert. To perform an action, send a POST request to the "invoke" URL with appropriate set of parameter values from the "possible_actions" list.

Name	Type	Description
possible_actions	array[possible_actions]	A list of possible actions along with the parameter names and types that can be used with the opaque URL.

message

Name	Type	Description
_links	_links	
name	string	Message name of the event. Returned by default.
severity	string	Severity of the event. Returned by default.

node

Name	Type	Description
_links	_links	
name	string	
uuid	string	

parameters

Name	Type	Description
name	string	Name of parameter
value	string	Value of parameter

records

Name	Type	Description
_links	_links	

Name	Type	Description
action	action	Actions that can be performed on the alert. To perform an action, send a POST request to the "invoke" URL with appropriate set of parameter values from the "possible_actions" list.
creation_time	string	Timestamp of the event creation.
index	integer	Index of the event. Returned by default.
last_update_time	string	Timestamp of the last update to the alert.
log_message	string	A formatted text string populated with parameter details. Returned by default.
message	message	
node	node	
parameters	array[parameters]	A list of parameters provided with the EMS event.
source	string	Source
state	string	Indicates the event state. A stateful event tracks the state changes of a system condition and reflects the current system condition.
stateful	boolean	Indicates whether the event is stateful. A stateful event tracks the state changes of a system condition and reflects the current system condition while a stateless event simply reports a certain system condition that has occurred sometime in the past.
time	string	Timestamp of the event. Returned by default.
uuid	string	The UUID that uniquely identifies the alert.

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.

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.