# Manage cluster firmware history

## REST API reference

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# Manage cluster firmware history

## Cluster firmware history endpoint overview

### Overview

Use this API to retrieve a history of firmware update requests. This API supports GET calls.

### Examples

#### Retrieving history of firmware updates

The following example retrieves a history of firmware updates performed on the cluster. Note that if the *fields=** parameter is not specified, only the job ID and start time are returned. Filters can be added on the fields to limit the results.

```
# The API:
GET /api/cluster/firmware/history

# The call:
curl -X GET "https://<mgmt-ip>/api/cluster/firmware/history/?fields=*" -H
"accept: application/hal+json"

# The response:
200 OK
{
"records": [
  {
    "start_time": "1970-01-01T00:02:03+00:00",
    "job": {
      "uuid": "adf700c2-b50e-11ea-a54f-005056bbec43"
    },
    "node": {
      "uuid": "0530d6c1-8c6d-11e8-907f-00a0985a72ee",
      "name": "node1"
    },
    "fw_file_name": "all_disk_fw.zip",
    "fw_update_state": "starting_workers",
    "end_time": "1970-01-01T00:07:36+00:00",
    "update_status": [
      {
        "worker": {
          "node": {
            "uuid": "0530d6c1-8c6d-11e8-907f-00a0985a72ee",
            "name": "node1"
```

```
          },
          "state": "failed",
          "error": {
            "message": "A firmware file already exists.",
            "code": 2228327
          }
        }
      },
      {
        "worker": {
          "node": {
            "uuid": "0530d6c1-8c6d-11e8-907f-00a0985a72ef",
            "name": "node2"
          },
          "state": "complete",
          "error": {
            "message": "Success",
            "code": 0
          }
        }
      }
    ],
    "_links": {
      "self": {
        "href": "/api/cluster/firmware/history/1970-01-01T00%3A02%3A03-
00%3A00/adf700c2-b50e-11ea-a54f-005056bbec43"
      }
    }
  },
  {
    "start_time": "1970-01-01T00:02:03+00:00",
    "job": {
      "uuid": "f84adabe-b50e-11ea-a54f-005056bbec43"
    },
    "node": {
      "uuid": "0530d6c1-8c6d-11e8-907f-00a0985a72ee",
      "name": "node1"
    },
    "fw_file_name": "all_shelf_fw.zip",
    "fw_update_state": "completed",
    "end_time": "1970-01-01T00:07:36+00:00",
    "update_status": [
      {
        "worker": {
          "node": {
            "uuid": "0530d6c1-8c6d-11e8-907f-00a0985a72ee",
```

```
            "name": "node1"
          },
          "state": "failed",
          "error": {
            "message": "A firmware file already exists.",
            "code": 2228327
          }
        }
      },
      {
        "worker": {
          "node": {
            "uuid": "0530d6c1-8c6d-11e8-907f-00a0985a72ef",
            "name": "node2"
          },
          "state": "complete",
          "error": {
            "message": "Success",
            "code": 0
          }
        }
      }
    ],
    "_links": {
      "self": {
        "href": "/api/cluster/firmware/history/1970-01-01T00%3A02%3A03-
00%3A00/f84adabe-b50e-11ea-a54f-005056bbec43"
      }
    }
  }
],
"num_records": 2,
"_links": {
  "self": {
    "href": "/api/cluster/firmware/history/?fields=%2A"
  }
}
}
```


# Retrieve history details for firmware update requests

GET `/cluster/firmware/history`

**Introduced In:** 9.8

Retrieves the history details for firmware update requests.

## Learn more

- DOC /cluster/firmware/history

## Parameters

| Name | Type | In | Required | Description |
|---|---|---|---|---|
| update_status.worker.state | string | query | False | Filter by update_status.worker.state |
| update_status.worker.node.name | string | query | False | Filter by update_status.worker.node.name |
| update_status.worker.node.uuid | string | query | False | Filter by update_status.worker.node.uuid |
| update_status.worker.error.code | integer | query | False | Filter by update_status.worker.error.code |
| update_status.worker.error.message | string | query | False | Filter by update_status.worker.error.message |
| fw_file_name | string | query | False | Filter by fw_file_name |
| node.name | string | query | False | Filter by node.name |
| node.uuid | string | query | False | Filter by node.uuid |
| start_time | string | query | False | Filter by start_time |
| end_time | string | query | False | Filter by end_time |
| fw_update_state | string | query | False | Filter by fw_update_state |
| job.uuid | string | query | False | Filter by job.uuid |
| fields | array[string] | query | False | Specify the fields to return. |

| Name | Type | In | Required | Description |
|---|---|---|---|---|
| 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.<br>• 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.<br>• Default value: 1<br>• Max value: 120<br>• 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[firmware_history] | |

**Example response**


```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "end_time": "2019-02-02 14:00:00 -0500",
      "fw_file_name": "all_disk_fw.zip",
      "fw_update_state": "string",
      "job": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "uuid": "string"
      },
      "node": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "node1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "start_time": "2019-02-02 14:00:00 -0500",
      "update_status": [
        {
          "worker": {
            "error": {
              "code": 2228325,
              "message": "Cannot open local staging ZIP file
```

```
disk_firmware.zip"
            },
            "node": {
              "_links": {
                "self": {
                  "href": "/api/resourcelink"
                }
              },
              "name": "node1",
              "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
            },
            "state": "waiting_to_retry"
          }
        }
      ]
    }
  ]
}
```


## 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 | |

job_link

| Name | Type | Description |
|---|---|---|
| _links | _links | |
| uuid | string | The UUID of the asynchronous job that is triggered by a POST, PATCH, or DELETE operation. |

node

| Name | Type | Description |
|---|---|---|
| _links | _links | |
| name | string | |
| uuid | string | |

firmware_history_update_state_error

| Name | Type | Description |
|---|---|---|
| code | integer | Code corresponding to the status message. |
| message | string | Error message returned when a firmware update job fails. |

worker

| Name | Type | Description |
|---|---|---|
| error | firmware_history_update_state_error | |
| node | node | |
| state | string | The state of each worker that a node is controlling. |

firmware_history_update_state

| Name | Type | Description |
|---|---|---|
| worker | worker | |

firmware_history

| Name | Type | Description |
|---|---|---|
| _links | _links | |
| end_time | string | End time of this update request. |
| fw_file_name | string | Name of the firmware file. |
| fw_update_state | string | |
| job | job_link | |
| node | node | |
| start_time | string | Start time of this update request. |
| update_status | array[firmware_history_update_state] | |

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 |

| Name | Type | Description |
| --- | --- | --- |
| message | string | Error message |
| target | string | The target parameter that caused the error. |

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