



# **Manage cluster software downloads**

## **REST API reference**

NetApp

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# Manage cluster software downloads

## Manage cluster software downloads

### Overview

You can use this API to download a software or firmware package from the server and to check the status of the software or firmware download.

### Examples

#### Downloading the software package

The following example shows how to download the software or firmware package from an HTTP or FTP server. If required, provide the url, username, and password to start the download of the package to the cluster.

```
# The API:
/api/cluster/software/download

# The call:
curl -X POST "https://<mgmt-
ip>/api/cluster/software/download?return_timeout=0" -H "accept:
application/json" -H "Content-Type: application/hal+json" -d '{ "url":
"http://server/package", "username": "admin", "password": "*****"}'

# The response:
{
  "job": {
    "uuid": "f587d316-5feb-11e8-b0e0-005056956dfc",
    "_links": {
      "self": {
        "href": "/api/cluster/jobs/f587d316-5feb-11e8-b0e0-005056956dfc"
      }
    }
  }
}
```

The call to download the software or firmware package returns the job UUID, including a HAL link to retrieve details about the job. The job object includes a `state` field and a message to indicate the progress of the job. When the job is complete and the application is fully created, the message indicates success and the job `state` field is set to success.

```
# The API:
/api/cluster/jobs/{uuid}

# The call:
curl -X GET "https://<mgmt-ip>/api/cluster/jobs/f587d316-5feb-11e8-b0e0-005056956dfc" -H "accept: application/hal+json"

# The response:
{
  "uuid": "f587d316-5feb-11e8-b0e0-005056956dfc",
  "description": "POST /api/cluster/software/download",
  "state": "success",
  "message": "success",
  "code": 0,
  "_links": {
    "self": {
      "href": "/api/cluster/jobs/f587d316-5feb-11e8-b0e0-005056956dfc"
    }
  }
}
```

---

### Checking the progress of the software package being downloaded from an HTTP or FTP server

The following example shows how to retrieve the progress status of the software package that is being downloaded from a HTTP or FTP server.

```
# The API:
/api/cluster/software/download

# The call:
curl -X GET "https://<mgmt-ip>/api/cluster/software/download" -H "accept:
application/hal+json"

# The response:
{
  "state": "running",
  "message": "Package download in progress",
  "code": 10551382,
  "_links": {
    "self": {
      "href": "/api/cluster/software/download"
    }
  }
}
```

#### Learn more

- [DOC /cluster/software/download](#)

## Retrieve software or firmware download status

GET /cluster/software/download

Introduced In: 9.7

Retrieves the software or firmware download status.

#### Learn more

- [DOC /cluster/software/download](#)

#### Parameters

Name	Type	In	Required	Description
fields	array[string]	query	False	Specify the fields to return.

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"> <li>• Default value: 15</li> <li>• Max value: 120</li> <li>• Min value: 0</li> </ul>

## Response

Status: 200, Ok

Name	Type	Description
code	integer	Code returned corresponds to a download message
message	string	Download progress details
state	string	Download status of the package

## Example response

```
{
  "code": 10551382,
  "message": "Package download in progress",
  "state": "success"
}
```

## Error

Status: Default

## ONTAP Error Response Codes

Error Code	Description
10551382	Package download is still running.
10551383	Operation took longer than the maximum 1 hour time limit.

Also see the table of common errors in the [Response body](#) overview section of this documentation.

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

## Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

## Definitions

## See Definitions

error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned\_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.

# Download a software or firmware package

POST /cluster/software/download

Introduced In: 9.6

Downloads a software or firmware package from the server.

## Required properties

- `url` - URL location of the software package

## Recommended optional parameters

- `username` - Username of HTTPS/FTP server
- `password` - Password of HTTPS/FTP server

## Related ONTAP commands

- `cluster image package get`

## Learn more

- [DOC /cluster/software/download](#)



## Parameters

Name	Type	In	Required	Description
return_timeout	integer	query	False	<p>The number of seconds to allow the call to execute before returning. When doing a POST, PATCH, or DELETE operation on a single record, the default is 0 seconds. This means that if an asynchronous operation is started, the server immediately returns HTTP code 202 (Accepted) along with a link to the job. If a non-zero value is specified for POST, PATCH, or DELETE operations, ONTAP waits that length of time to see if the job completes so it can return something other than 202.</p> <ul style="list-style-type: none"><li>• Default value: 0</li><li>• Max value: 120</li><li>• Min value: 0</li></ul>

## Request Body

Name	Type	Description
code	integer	Code returned corresponds to a download message.
message	string	Download progress details.
password	string	Password for download
state	string	Download status of the package.

Name	Type	Description
url	string	HTTP or FTP URL of the package through a server
username	string	Username for download

#### Example request

```
{
  "code": 10551382,
  "message": "Package download in progress",
  "password": "admin_password",
  "state": "success",
  "url": "http://server/package",
  "username": "admin"
}
```

#### Response

Status: 202, Accepted

Name	Type	Description
job	job_link	

#### Example response

```
{
  "job": {
    "uuid": "string"
  }
}
```

#### Headers

Name	Description	Type
Location	Useful for tracking the resource location	string

## Response

Status: 201, Created

## Error

Status: Default

### ONTAP Error Response Codes

Error Code	Description
10551327	Package image with the same name already exists.
10551357	Cannot perform an update when a previous update is still in progress.
10551359	Internal error. Failed to process the package after download completed. Try uploading the file again or contact technical support for assistance.
10551381	Package download failed.
10551382	Package download is still running.
10551384	Package download has not started.
10551391	Internal error. Contact technical support for assistance.
10551392	Internal error. Contact technical support for assistance.
10551496	Firmware file already exists.
10551797	Internal error. Failed to check if file upload is enabled. Contact technical support for assistance.
10551859	Failed to set primary and secondary nodes to store new image.
10551885	Package download failed due to invalid url.
10551892	Package download failed due to an unhealthy node. Restore the node to a healthy state, then retry the operation.
39387137	Invalid URL syntax was provided. Retry with a valid URL.
39387138	Unsupported URL scheme provided. Retry with one of FILE://, FTP://, or HTTPS://.

Also see the table of common errors in the [Response body](#) overview section of this documentation.

**Definitions**

## See Definitions

software\_package\_download

Name	Type	Description
code	integer	Code returned corresponds to a download message.
message	string	Download progress details.
password	string	Password for download
state	string	Download status of the package.
url	string	HTTP or FTP URL of the package through a server
username	string	Username for download

href

Name	Type	Description
href	string	

\_links

job\_link

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

error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned\_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.

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