



Manage cluster software

ONTAP 9.7 REST API reference

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Manage cluster software

Cluster software endpoint overview

Overview

You can use the ONTAP cluster software API to retrieve and display relevant information about a software profile, software packages collection, and software history collection. This API retrieves the information about all software packages present in the cluster, or a specific software package.

You can use the POST request to download a software package from an HTTP or FTP server. The PATCH request provides the option to upgrade the cluster software version. Select the `validate_only` field to validate the package before triggering the update. Set the `version` field to trigger the installation of the package in the cluster. You can pause, resume, or cancel any ongoing software upgrade by selecting `action`. You can use the DELETE request to remove a specific software package present in the cluster.

Examples

Retrieving software profile information

The following example shows how to retrieve software profile information. You can check the validation results after selecting the `validate_only` field. Upgrade progress information is available after an upgrade has started.

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

# The call:
curl -X GET "https://<mgmt-ip>/api/cluster/software?return_timeout=15" -H
"accept: application/hal+json"

# The response:
{
  "validation_results": [
    {
      "update_check": "NFS mounts",
      "status": "warning",
      "issue": {
        "code": 166,
        "message": "Use NFS hard mounts, if possible.",
      }
    },
    {
      "action": {
        "code": 166,
        "message": "Use NFS hard mounts, if possible.",
      }
    }
  ]
}
```

```

    }
  ],
  "version": "9.5.0",
  "pending_version": "9.6.0",
  "nodes": [
    {
      "node": "sti70-vsim-ucsl65n",
      "version": "9.5.0"
    }
  ],
  "metrocluster": {
    "progress_summary": {
      "message": "Update paused by user"
    },
    "progress_details": {
      "message": "Installing software image on cluster \"sti70-vsim-ucsl65n_siteA\"."
    },
    "clusters": [
      {
        "name": "sti70-vsim-ucsl65n_siteA",
        "uuid": "720f046c-4b13-11e9-9c34-005056ac5626",
        "estimated_duration": 3480,
        "elapsed_duration": 0,
        "state": "waiting"
      }
    ]
  },
  "state": "in_progress",
  "start_time": "2018-05-21T09:53:04+05:30",
  "end_time": "2018-05-21T11:53:04+05:30",
  "estimated_time": 5220,
  "elapsed_time": 2140,
  "update_details": [
    {
      "phase": "Data ONTAP updates",
      "state": "in_progress",
      "estimated_duration": 4620,
      "elapsed_duration": 29,
      "node": {
        "name": "sti70-vsim-ucsl65n"
      }
    }
  ],
  "status_details": [
    {

```

```

    "name": "do-download-job",
    "state": "completed",
    "issue": {
        "message": "Image update complete"
    },
    "start_time": "2018-05-21T09:53:04+05:30",
    "end_time": "2018-05-21T11:53:04+05:30",
    "node": {
        "name": "sti70-vsim-ucs165n"
    }
},
"_links": {
    "self": {
        "href": "/api/cluster/software/"
    }
}
}

```

Upgrading the software version

The following example shows how to upgrade cluster software. Set the `version` field to trigger the installation of the package. You can select the `validate_only` field to validate the package before the installation starts. Setting `skip_warning` as `true` ignores the validation warning before the installation starts. Setting the `action` field performs a pause, resume, or 'cancel' operation on an ongoing upgrade. An upgrade can only be resumed if it is in the paused state.

You can start the upgrade process at the cluster level. There are no options available to start the upgrade for a specific node or HA pair.

1. Validating the package and verifying the validation results

The following example shows how to validate a cluster software package. You must validate the package before the software upgrade. Set the `validate_only` field to `true` to start the validation. You can check for validation results in the GET `/cluster/software` endpoint.

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

# The call:
curl -X PATCH "https://<mgmt_ip>/api/cluster/software?validate_only=true"
-H "accept: application/json" -H "Content-Type: application/hal+json" -d
'{ "version": "9.5.0"}'

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

The call to validate the software cluster version 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 `state` field of the job 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": "PATCH /api/cluster/software",
  "state": "success",
  "message": "success",
  "code": 0,
  "_links": {
    "self": {
      "href": "/api/cluster/jobs/f587d316-5feb-11e8-b0e0-005056956dfc"
    }
  }
}
```

You can check for validation results in the GET /cluster/software endpoint. The following example shows how to check the validation warnings and errors after setting the `validate_only` field to `true`.

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

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

# The response:
{
  "version": "9.7.0",
  "validation_results": [
    {
      "update_check": "High Availability status",
      "status": "error",
      "issue": {
        "message": "Cluster HA is not configured in the cluster. Storage failover is not enabled on node \"node1\", \"node2\".",
      },
      "action": {
```

```

    "message": "Check cluster HA configuration. Check storage failover
status."
  },
  {
    "update_check": "Manual checks",
    "status": "warning",
    "issue": {
      "message": "Manual validation checks need to be performed. Refer to
the Upgrade Advisor Plan or \"Performing manual checks before an automated
cluster upgrade\" section in the \"Clustered Data ONTAP Upgrade Express
Guide\" for the remaining validation checks that need to be performed
before update. Failing to do so can result in an update failure or an I/O
disruption."
    },
    "action": {
      "message": "Refer to the Upgrade Advisor Plan or \"Performing manual
checks before an automated cluster upgrade\" section in the \"Clustered
Data ONTAP Upgrade Express Guide\" for the remaining validation checks
that need to be performed before update."
    }
  }
],
"nodes": [
  {
    "node": "node1",
    "version": "9.7.0"
  },
  {
    "node": "node2",
    "version": "9.7.0"
  }
],
"state": "failed",
"elapsed_duration": 56,
"estimated_duration": 600,
"_links": {
  "self": {
    "href": "/api/cluster/software"
  }
}
}

```


2. Updating the cluster

The following example shows how to initiate a cluster software upgrade. You must validate the package before the software upgrade starts. Set the `skip_warnings` field to `true` to skip validation warnings and start the software package upgrade.

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

# The call:
curl -X PATCH "https://<mgmt_ip>/api/cluster/software?skip_warnings=true"
-H "accept: application/json" -H "Content-Type: application/hal+json" -d
'{ "version": "9.5.0" }'

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

The call to update the software cluster version 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 `state` field of the job 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": "PATCH /api/cluster/software",
  "state": "success",
  "message": "success",
  "code": 0,
  "_links": {
    "self": {
      "href": "/api/cluster/jobs/f587d316-5feb-11e8-b0e0-005056956dfc"
    }
  }
}

```

You can check the update progress information in the GET /cluster/software endpoint. The following example shows how to check the progress of an update after setting the `skip_warnings` field to true.

```

# The API:
/api/cluster/software

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

# The response:
{
  "version": "9.7.0",
  "validation_results": [
    {
      "update_check": "Manual checks",
      "status": "warning",
      "issue": {
        "message": "Manual validation checks need to be performed. Refer to the Upgrade Advisor Plan or \"Performing manual checks before an automated cluster upgrade\" section in the \"Clustered Data ONTAP Upgrade Express Guide\" for the remaining validation checks that need to be performed"
      }
    }
  ]
}

```

```

before update. Failing to do so can result in an update failure or an I/O
disruption."
    },
    "action": {
        "message": "Refer to the Upgrade Advisor Plan or \"Performing manual
checks before an automated cluster upgrade\" section in the \"Clustered
Data ONTAP Upgrade Express Guide\" for the remaining validation checks
that need to be performed before update."
    }
}
],
"nodes": [
    {
        "node": "node1",
        "version": "9.7.0"
    },
    {
        "node": "node2",
        "version": "9.7.0"
    }
],
"pending_version": "9.7.0",
"state": "in_progress",
"elapsed_duration": 63,
"estimated_duration": 5220,
"status_details": [
    {
        "name": "do-download-job",
        "status": "running",
        "issue": {
            "message": "Installing software image."
        },
        "start_time": "2019-01-14T23:12:14+05:30",
        "end_time": "2019-01-14T23:12:14+05:30",
        "node": {
            "name": "node1"
        }
    },
    {
        "name": "do-download-job",
        "status": "running",
        "issue": {
            "message": "Installing software image."
        },
        "start_time": "2019-01-14T23:12:14+05:30",
        "end_time": "2019-01-14T23:12:14+05:30",
    }
]

```

```

    "node": {
      "name": "node2"
    }
  },
  "update_details": [
    {
      "phase": "Data ONTAP updates",
      "status": "in-progress",
      "estimated_duration": 4620,
      "elapsed_duration": 10,
      "node": {
        "name": "node1"
      }
    },
    {
      "phase": "Data ONTAP updates",
      "status": "in-progress",
      "estimated_duration": 4620,
      "elapsed_duration": 10,
      "node": {
        "name": "node2"
      }
    }
  ],
  "_links": {
    "self": {
      "href": "/api/cluster/software"
    }
  }
}

```

3. Pausing/resuming/canceling the upgrade

The following example shows how to pause an ongoing cluster software package upgrade. Set the `action` field to `pause`, `resume`, or `cancel` to pause, resume or cancel the upgrade respectively. Not all update operations support these actions. An update can only be resumed if it is in the paused state.

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

# The call:
curl -X PATCH "https://<mgmt_ip>/api/cluster/software?action=pause" -H
"accept: application/json" -H "Content-Type: application/hal+json" -d '{
"version": "9.5.0"}'

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

The call to update the software cluster version 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 `state` field of the job 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": "PATCH /api/cluster/software",
  "state": "success",
  "message": "success",
  "code": 0,
  "_links": {
    "self": {
      "href": "/api/cluster/jobs/f587d316-5feb-11e8-b0e0-005056956dfc"
    }
  }
}
```

You can check the progress of the upgrade in the GET /cluster/software endpoint. The following example shows how to check the progress of the pause upgrade state after setting the action field to pause.

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

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

# The response:
{
  "version": "9.7.0",
  "validation_results": [
    {
      "update_check": "Manual checks",
      "status": "warning",
      "issue": {
        "message": "Manual validation checks need to be performed. Refer to the Upgrade Advisor Plan or \"Performing manual checks before an automated cluster upgrade\" section in the \"Clustered Data ONTAP Upgrade Express Guide\" for the remaining validation checks that need to be performed"
      }
    }
  ]
}
```

```

before update. Failing to do so can result in an update failure or an I/O
disruption."
    },
    "action": {
        "message": "Refer to the Upgrade Advisor Plan or \"Performing manual
checks before an automated cluster upgrade\" section in the \"Clustered
Data ONTAP Upgrade Express Guide\" for the remaining validation checks
that need to be performed before update."
    }
}
],
"nodes": [
    {
        "node": "node1",
        "version": "9.7.0"
    },
    {
        "node": "node2",
        "version": "9.7.0"
    }
],
"pending_version": "9.7.0",
"state": "pause_pending",
"elapsed_duration": 103,
"estimated_duration": 5220,
"status_details": [
    {
        "status": "in-progress",
        "issue": {
            "message": "Installing software image."
        },
        "start_time": "2019-01-08T02:54:36+05:30",
        "node": {
            "name": "node1"
        }
    },
    {
        "status": "in-progress",
        "issue": {
            "message": "Installing software image."
        },
        "start_time": "2019-01-08T02:54:36+05:30",
        "node": {
            "name": "node2"
        }
    }
]
}

```

```

],
"update_details": [
  {
    "phase": "Pre-update checks",
    "status": "completed",
    "estimated_duration": 600,
    "elapsed_duration": 54,
    "node": {
      "name": "node1"
    }
  },
  {
    "phase": "Data ONTAP updates",
    "status": "pause-pending",
    "estimated_duration": 4620,
    "elapsed_duration": 49,
    "node": {
      "name": "node2"
    }
  },
  {
    "phase": "Data ONTAP updates",
    "status": "pause-pending",
    "estimated_duration": 4620,
    "elapsed_duration": 49
  }
],
"_links": {
  "self": {
    "href": "/api/cluster/software"
  }
}
}

```

Downloading the software package

The following example shows how to download the software package from an HTTP or FTP server. Provide the url, username, and password, if required, to start the download of the software 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://nbsweb.eng.btc.netapp.in/~suvadipd/99/image1.tgz", "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 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 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": 10551760,
  "_links": {
    "self": {
      "href": "/api/cluster/software/download"
    }
  }
}
```

Retrieving cluster software packages information

The following example shows how to retrieve the ONTAP software packages in a cluster.

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

# The call:
curl -X GET "https://<mgmt-
ip>/api/cluster/software/packages?return_records=true&return_timeout=15"
-H "accept: application/hal+json"

# The response:
{
  "records": [
    {
      "version": "9.7.0",
      "_links": {
        "self": {
          "href": "/api/cluster/software/packages/9.7.0"
        }
      }
    },
    {
      "version": "9.5.0",
      "_links": {
        "self": {
          "href": "/api/cluster/software/packages/9.5.0"
        }
      }
    }
  ],
  "num_records": 2,
  "_links": {
    "self": {
      "href": "/api/cluster/software/packages"
    }
  }
}
```

The following example shows how to retrieve the details of a given cluster software package.

```
# The API:
/api/cluster/software/packages/{version}

# The call:
curl -X GET "https://<mgmt-ip>/api/cluster/software/packages/9.7.0" -H
"accept: application/hal+json"

# The response:
{
  "version": "9.7.0",
  "create_time": "2018-05-21T10:06:59+05:30",
  "_links": {
    "self": {
      "href": "/api/cluster/software/packages/9.7.0"
    }
  }
}
```

Deleting a cluster software package

The following example shows how to delete a package from the cluster. You need to provide the package version that you want to delete. The software package delete creates a job to perform the delete operation.

```
# The API:
/api/cluster/software/packages/{version}

# The call:
curl -X DELETE "https://<mgmt-ip>/api/cluster/software/packages/9.6.0" -H
"accept: application/hal+json"

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

The call to delete the 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": "DELETE /api/cluster/software/packages/9.6.0",
  "state": "success",
  "message": "success",
  "code": 0,
  "_links": {
    "self": {
      "href": "/api/cluster/jobs/f587d316-5feb-11e8-b0e0-005056956dfc"
    }
  }
}
```

HTTPS error codes

The following is a list of possible error codes that can be returned during a package delete operation.

ONTAP Error Response codes

| Error codes | Description |
|-------------|---|
| 10551315 | Package store is empty |
| 10551322 | Error in retrieving package cleanup status |
| 10551323 | Error in cleaning up package information on a node |
| 10551324 | Error in cleaning up package information on both nodes |
| 10551325 | Package does not exist on the system |
| 10551326 | Error in deleting older package cleanup tasks |
| 10551346 | Package delete failed since a validation is in progress |
| 10551347 | Package delete failed since an update is in progress |

| Error codes | Description |
|-------------|--|
| 10551367 | A package synchronization is in progress |
| 10551388 | Package delete operation timed out |

Retrieving software installation history information

The following example shows how to:

- retrieve the software package installation history information.
- display specific node level software installation history information.
- provide all the attributes by default in response when the self referential link is not present.

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

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

# The response:
{
  "node": {
    "uuid": "58cd3a2b-af63-11e8-8b0d-0050568e7279",
    "name": "sti70-vsim-ucsl65n",
    "_links": {
      "self": {
        "href": "/api/cluster/nodes/58cd3a2b-af63-11e8-8b0d-0050568e7279"
      }
    }
  },
  "start_time": "2018-09-03T16:18:46+05:30",
  "state": "successful"
  "from_version": "9.4.0",
  "to_version": "9.5.0",
  "end_time": "2018-05-21T10:14:51+05:30"
}
```

Retrieve the cluster software profile

GET /cluster/software

Retrieves the software profile of a cluster.

Related ONTAP commands

- `cluster image show`
- `cluster image show-update-progress`

Learn more

- [DOC /cluster/software](#)

Parameters

| 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. |
| order_by | array[string] | query | False | Order results by specified fields and optional [asc |
| desc] direction. Default direction is 'asc' for ascending. | fields | array[string] | query | False |
| Specify the fields to return. | return_timeout | integer | query | False |

Response

Status: 200, Ok

| Name | Type | Description |
|------------------|------------------------|---|
| _links | _links | |
| action | string | User triggered action to apply to the install operation |
| elapsed_duration | integer | Elapsed time during the upgrade or validation operation |

| Name | Type | Description |
|--------------------|--|---|
| estimated_duration | integer | Estimated time remaining until completion of the upgrade or validation operation. |
| metrocluster | metrocluster | |
| nodes | array[software_node_reference] | List of nodes and active versions. |
| pending_version | string | Version being installed on the system. <ul style="list-style-type: none"> • example: ONTAP_X_1 • readOnly: 1 |
| state | string | Operational state of the upgrade |
| status_details | array[software_status_details_reference] | Display status details. |
| update_details | array[software_update_details_reference] | Display update progress details. |
| validation_results | array[software_validation_reference] | List of validation warnings, errors, and advice. |
| version | string | Version of ONTAP installed and currently active on the system. During PATCH, using the 'validate_only' parameter on the request executes pre-checks, but does not perform the full installation. <ul style="list-style-type: none"> • example: ONTAP_X |

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "action": "pause",
  "elapsed_duration": 2140,
  "estimated_duration": 5220,
  "metrocluster": {
    "clusters": {
      "elapsed_duration": 2140,
      "estimated_duration": 3480,
      "name": "cluster_A",
      "state": "in_progress"
    },
    "progress_details": {
      "message": "Switchover in progress"
    },
    "progress_summary": {
      "message": "MetroCluster updated successfully."
    }
  },
  "nodes": {
    "name": "node1",
    "version": "ONTAP_X"
  },
  "pending_version": "ONTAP_X_1",
  "state": "completed",
  "status_details": {
    "end_time": "2019-02-02 19:00:00 UTC",
    "issue": {
      "message": "Image update complete"
    },
    "name": "initialize",
    "node": {
      "name": "node1"
    },
    "start_time": "2019-02-02 19:00:00 UTC",
    "state": "failed"
  },
  "update_details": {
    "elapsed_duration": 2100,
    "estimated_duration": 4620,
```

```

    "node": {
      "name": "node1"
    },
    "phase": "Pre-update checks",
    "state": "failed"
  },
  "validation_results": {
    "issue": {
      "message": "Validation error: Cluster HA is not configured in the cluster"
    },
    "status": "warning",
    "update_check": "nfs_mounts"
  },
  "version": "ONTAP_X"
}

```

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 |
|------|----------------------|-------------|
| self | href | |

software_mcc_reference

| Name | Type | Description |
|--------------------|---------|---|
| elapsed_duration | integer | Elapsed duration of update time (in seconds) of MetroCluster. |
| estimated_duration | integer | Estimated duration of update time (in seconds) of MetroCluster. |
| name | string | Name of the site in MetroCluster. |
| state | | Upgrade state of MetroCluster. |

progress_details

| Name | Type | Description |
|---------|--------|---------------------------------------|
| message | string | MetroCluster update progress details. |

progress_summary

| Name | Type | Description |
|---------|--------|---------------------------------------|
| message | string | MetroCluster update progress summary. |

metrocluster

| Name | Type | Description |
|------------------|---|---|
| clusters | array[software_mcc_reference] | List of MetroCluster sites, statuses, and active ONTAP versions. • readOnly: 1 |
| progress_details | progress_details | |
| progress_summary | progress_summary | |

software_node_reference

| Name | Type | Description |
|---------|--------|---|
| name | string | Name of the node. |
| version | string | ONTAP version of the node. • example: ONTAP_X • readOnly: 1 |

action

| Name | Type | Description |
|---------|--------|-------------|
| message | string | |

issue

| Name | Type | Description |
|---------|--------|-------------|
| message | string | |

node

| Name | Type | Description |
|------|--------|--|
| name | string | Name of the node to be retrieved for status details. |

software_status_details_reference

| Name | Type | Description |
|----------|------------------------|---------------------------------|
| action | action | |
| end_time | string | End time for each status phase. |
| issue | issue | |

| Name | Type | Description |
|------------|----------------------|---|
| name | string | Name of the phase to be retrieved for status details. |
| node | node | |
| start_time | string | Start time for each status phase. |
| state | string | Status of the phase |

node

| Name | Type | Description |
|------|--------|--|
| name | string | Name of the node to be retrieved for update details. |

software_update_details_reference

| Name | Type | Description |
|--------------------|----------------------|--|
| elapsed_duration | integer | Elapsed duration for each update phase |
| estimated_duration | integer | Estimated duration for each update phase |
| node | node | |
| phase | string | Phase details |
| state | string | State of the update phase |

action

| Name | Type | Description |
|---------|--------|---|
| message | string | Specifies the corrective action to be taken to resolve a validation error |

issue

| Name | Type | Description |
|---------|--------|--|
| message | string | Details of the error or warning encountered by the update checks |

software_validation_reference

| Name | Type | Description |
|--------------|------------------------|---|
| action | action | |
| issue | issue | |
| status | string | Status of this update check. |
| update_check | string | Name of the update check to be validated. |

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. |

Update the cluster software version

PATCH `/cluster/software`

Updates the cluster software version. Important note:

- Setting 'version' triggers the package installation.
- To validate the package for installation but not perform the installation, use the `validate_only` field on the request.

Required properties

- `version` - Software version to be installed on the cluster.

Recommended optional parameters

- `validate_only` - Required to validate a software package before an upgrade.
- `skip_warnings` - Used to skip validation warnings when starting a software upgrade.
- `action` - Used to pause, resume, or cancel an ongoing software upgrade.

Related ONTAP commands

- `cluster image validate`
- `cluster image update`
- `cluster image pause-update`
- `cluster image resume-update`
- `cluster image cancel-update`

Learn more

- [DOC /cluster/software](#)

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. |

| Name | Type | In | Required | Description |
|----------------|---------|-------|----------|--|
| return_timeout | integer | query | False | 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. |
| validate_only | boolean | query | False | Validate the operation and its parameters, without actually performing the operation. |
| skip_warnings | boolean | query | False | Ignore warnings and proceed with the install. |

| Name | Type | In | Required | Description |
|--------|--------|-------|----------|---|
| action | string | query | False | <p>Requests an upgrade to pause, resume, or cancel. Note that not all upgrades support these actions. An upgrade can only be resumed if it is in the paused state. When a request to cancel an upgrade is successful, the upgrade state changes to either <code>success</code> or <code>failure</code>.</p> <ul style="list-style-type: none"> enum: ["pause", "resume", "cancel"] |

Request Body

| Name | Type | Description |
|--------------------|--|---|
| _links | _links | |
| action | string | User triggered action to apply to the install operation |
| elapsed_duration | integer | Elapsed time during the upgrade or validation operation |
| estimated_duration | integer | Estimated time remaining until completion of the upgrade or validation operation. |
| metrocluster | metrocluster | |
| nodes | array[software_node_reference] | List of nodes and active versions. |
| pending_version | string | <p>Version being installed on the system.</p> <ul style="list-style-type: none"> example: ONTAP_X_1 readOnly: 1 |
| state | string | Operational state of the upgrade |

| Name | Type | Description |
|--------------------|--|--|
| status_details | array[software_status_details_reference] | Display status details. |
| update_details | array[software_update_details_reference] | Display update progress details. |
| validation_results | array[software_validation_reference] | List of validation warnings, errors, and advice. |
| version | string | <p>Version of ONTAP installed and currently active on the system. During PATCH, using the 'validate_only' parameter on the request executes pre-checks, but does not perform the full installation.</p> <ul style="list-style-type: none"> • example: ONTAP_X |

Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "action": "pause",
  "elapsed_duration": 2140,
  "estimated_duration": 5220,
  "metrocluster": {
    "clusters": {
      "elapsed_duration": 2140,
      "estimated_duration": 3480,
      "name": "cluster_A",
      "state": "in_progress"
    },
    "progress_details": {
      "message": "Switchover in progress"
    },
    "progress_summary": {
      "message": "MetroCluster updated successfully."
    }
  },
  "nodes": {
    "name": "node1",
    "version": "ONTAP_X"
  },
  "pending_version": "ONTAP_X_1",
  "state": "completed",
  "status_details": {
    "end_time": "2019-02-02 19:00:00 UTC",
    "issue": {
      "message": "Image update complete"
    },
    "name": "initialize",
    "node": {
      "name": "node1"
    },
    "start_time": "2019-02-02 19:00:00 UTC",
    "state": "failed"
  },
  "update_details": {
    "elapsed_duration": 2100,
    "estimated_duration": 4620,
```

```

    "node": {
      "name": "node1"
    },
    "phase": "Pre-update checks",
    "state": "failed"
  },
  "validation_results": {
    "issue": {
      "message": "Validation error: Cluster HA is not configured in the cluster"
    },
    "status": "warning",
    "update_check": "nfs_mounts"
  },
  "version": "ONTAP_X"
}

```

Response

Status: 202, Accepted

| Name | Type | Description |
|------|--------------------------|-------------|
| job | job_link | |

Example response

```

{
  "job": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "uuid": "string"
  }
}

```

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 |
|------|----------------------|-------------|
| self | href | |

software_mcc_reference

| Name | Type | Description |
|--------------------|---------|---|
| elapsed_duration | integer | Elapsed duration of update time (in seconds) of MetroCluster. |
| estimated_duration | integer | Estimated duration of update time (in seconds) of MetroCluster. |
| name | string | Name of the site in MetroCluster. |
| state | | Upgrade state of MetroCluster. |

progress_details

| Name | Type | Description |
|---------|--------|---------------------------------------|
| message | string | MetroCluster update progress details. |

progress_summary

| Name | Type | Description |
|---------|--------|---------------------------------------|
| message | string | MetroCluster update progress summary. |

metrocluster

| Name | Type | Description |
|------------------|---|---|
| clusters | array[software_mcc_reference] | List of MetroCluster sites, statuses, and active ONTAP versions. • readOnly: 1 |
| progress_details | progress_details | |
| progress_summary | progress_summary | |

software_node_reference

| Name | Type | Description |
|---------|--------|---|
| name | string | Name of the node. |
| version | string | ONTAP version of the node. • example: ONTAP_X • readOnly: 1 |

action

| Name | Type | Description |
|---------|--------|-------------|
| message | string | |

issue

| Name | Type | Description |
|---------|--------|-------------|
| message | string | |

node

| Name | Type | Description |
|------|--------|--|
| name | string | Name of the node to be retrieved for status details. |

software_status_details_reference

| Name | Type | Description |
|----------|------------------------|---------------------------------|
| action | action | |
| end_time | string | End time for each status phase. |
| issue | issue | |

| Name | Type | Description |
|------------|----------------------|---|
| name | string | Name of the phase to be retrieved for status details. |
| node | node | |
| start_time | string | Start time for each status phase. |
| state | string | Status of the phase |

node

| Name | Type | Description |
|------|--------|--|
| name | string | Name of the node to be retrieved for update details. |

software_update_details_reference

| Name | Type | Description |
|--------------------|----------------------|--|
| elapsed_duration | integer | Elapsed duration for each update phase |
| estimated_duration | integer | Estimated duration for each update phase |
| node | node | |
| phase | string | Phase details |
| state | string | State of the update phase |

action

| Name | Type | Description |
|---------|--------|---|
| message | string | Specifies the corrective action to be taken to resolve a validation error |

issue

| Name | Type | Description |
|---------|--------|--|
| message | string | Details of the error or warning encountered by the update checks |

software_validation_reference

| Name | Type | Description |
|--------------|------------------------|---|
| action | action | |
| issue | issue | |
| status | string | Status of this update check. |
| update_check | string | Name of the update check to be validated. |

software_reference

| Name | Type | Description |
|--------------------|--|--|
| _links | _links | |
| action | string | User triggered action to apply to the install operation |
| elapsed_duration | integer | Elapsed time during the upgrade or validation operation |
| estimated_duration | integer | Estimated time remaining until completion of the upgrade or validation operation. |
| metrocluster | metrocluster | |
| nodes | array[software_node_reference] | List of nodes and active versions. |
| pending_version | string | Version being installed on the system. <ul style="list-style-type: none"> • example: ONTAP_X_1 • readOnly: 1 |
| state | string | Operational state of the upgrade |
| status_details | array[software_status_details_reference] | Display status details. |
| update_details | array[software_update_details_reference] | Display update progress details. |
| validation_results | array[software_validation_reference] | List of validation warnings, errors, and advice. |

| Name | Type | Description |
|---------|--------|--|
| version | string | Version of ONTAP installed and currently active on the system. During PATCH, using the 'validate_only' parameter on the request executes pre-checks, but does not perform the full installation. • example: ONTAP_X |

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. |

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. |

Retrieve the software or firmware download status

GET /cluster/software/download

Retrieves the software download status.

Related ONTAP commands

- `cluster image package check-download-progress`

Learn more

- [DOC /cluster/software](#)

Parameters

| 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. |
| order_by | array[string] | query | False | Order results by specified fields and optional [asc |
| desc] direction. Default direction is 'asc' for ascending. | fields | array[string] | query | False |
| Specify the fields to return. | return_timeout | integer | query | False |

Response

Status: 200, Ok

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

Example response

```
{
  "code": 10551496,
  "message": "Package download in progress",
  "state": "success"
}
```

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

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. |

Download a software or firmware package

POST `/cluster/software/download`

Downloads a software 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](#)

Parameters

| Name | Type | In | Required | Description |
|----------------|---------|-------|----------|--|
| return_records | boolean | query | False | The default is false. If set to true, the records are returned. |
| return_timeout | integer | query | False | 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. |

Request Body

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

Example request

```
{
  "password": "admin_password",
  "url": "http://server/package",
  "username": "admin"
}
```

Response

Status: 202, Accepted

| Name | Type | Description |
|------|--------------------------|-------------|
| job | job_link | |

Example response

```
{
  "job": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "uuid": "string"
  }
}
```

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

software_package_download

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

href

| Name | Type | Description |
|------|--------|-------------|
| href | string | |

_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. |

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

| Name | Type | Description |
|-----------|--|-------------------|
| arguments | array[error_arguments] | Message arguments |

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

Retrieve the software installation request history details

GET /cluster/software/history

Retrieves the history details for software installation requests.

Related ONTAP commands

- `cluster image show-update-history`

Learn more

- [DOC /cluster/software](#)

Parameters

| Name | Type | In | Required | Description |
|--------------|---------------|-------|----------|-------------------------------|
| to_version | string | query | False | Filter by to_version |
| state | string | query | False | Filter by state |
| node.uuid | string | query | False | Filter by node.uuid |
| node.name | string | query | False | Filter by node.name |
| start_time | string | query | False | Filter by start_time |
| end_time | string | query | False | Filter by end_time |
| from_version | string | query | False | Filter by from_version |
| 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. |
| 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. |
| 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 | |
| records | array[software_history] | |

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": {
    "end_time": "2019-02-02 20:00:00 UTC",
    "from_version": "ONTAP_X1",
    "node": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "node1",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "start_time": "2019-02-02 19:00:00 UTC",
    "state": "successful",
    "to_version": "ONTAP_X2"
  }
}
```

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 | |

node

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

software_history

| Name | Type | Description |
|--------------|----------------------|--|
| end_time | string | Completion time of this installation request. |
| from_version | string | Previous version of node <ul style="list-style-type: none">• example: ONTAP_X1• readOnly: 1 |
| node | node | |
| start_time | string | Start time of this installation request. |
| state | string | Status of this installation request. |

| Name | Type | Description |
|------------|--------|--|
| to_version | string | Updated version of node <ul style="list-style-type: none"> • example: ONTAP_X2 • readOnly: 1 |

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. |

Retrieve the cluster software packages

GET /cluster/software/packages

Retrieves the software packages for a cluster.

Related ONTAP commands

- `cluster image package show-repository`

Learn more

- [DOC /cluster/software](#)

Parameters

| Name | Type | In | Required | Description |
|----------------|---------------|-------|----------|--|
| version | string | query | False | Filter by version |
| create_time | string | query | False | Filter by create_time |
| 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. |
| 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. |
| 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 | |
| records | array[software_package] | |

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "create_time": "2019-02-04 19:00:00 UTC",
    "version": "ONTAP_X"
  }
}
```

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 | |

software_package

| Name | Type | Description |
|-------------|------------------------|--|
| _links | _links | |
| create_time | string | Indicates when this package was loaded |
| version | string | Version of this package <ul style="list-style-type: none">• example: ONTAP_X• readOnly: 1 |

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 |

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

Delete a software package from the cluster

DELETE /cluster/software/packages/{version}

Deletes a software package from the cluster. The delete operation fails if the package is currently installed.

Related ONTAP commands

- `cluster image package delete`

Learn more

- [DOC /cluster/software](#)

Parameters

| Name | Type | In | Required | Description |
|----------------|---------|-------|----------|--|
| return_timeout | integer | query | False | 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. |
| version | string | path | True | |

Response

Status: 202, Accepted

Error

Status: Default

ONTAP error response codes

| Error codes | Description |
|-------------|--|
| 10551315 | Package store is empty |
| 10551322 | Error in retrieving package cleanup status |
| 10551323 | Error in cleaning up package information on a node |

| Error codes | Description |
|-------------|---|
| 10551324 | Error in cleaning up package information on multiple nodes |
| 10551325 | Package does not exist on the system |
| 10551326 | Error in deleting older package cleanup tasks. Clean up images from the store and retry |
| 10551346 | Package delete failed since a validation is in progress |
| 10551347 | Package delete failed since an update is in progress |
| 10551367 | A package synchronization is in progress |
| 10551388 | Package delete operation timed out |

| 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

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. |

Retrieve software package information

GET /cluster/software/packages/{version}

Retrieves the software package information.

Related ONTAP commands

- `cluster image package show-repository`

Learn more

- [DOC /cluster/software](#)

Parameters

| Name | Type | In | Required | Description |
|---------|---------------|-------|----------|-------------------------------|
| version | string | path | True | |
| fields | array[string] | query | False | Specify the fields to return. |

Response

Status: 200, Ok

| Name | Type | Description |
|-------------|------------------------|--|
| _links | _links | |
| create_time | string | Indicates when this package was loaded |
| version | string | Version of this package <ul style="list-style-type: none">• example: ONTAP_X• readOnly: 1 |

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "create_time": "2019-02-04 19:00:00 UTC",
  "version": "ONTAP_X"
}
```

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 |
|------|----------------------|-------------|
| self | href | |

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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