



# **Manage application Snapshot copies**

ONTAP 9.12.1 REST API reference

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# Manage application Snapshot copies

## Application applications application.uuid snapshots endpoint overview

### Overview

Applications support Snapshot copies across all member storage elements. These Snapshot copies can be created and restored at any time or as scheduled. Most applications have hourly Snapshot copies enabled by default, unless the RPO setting is overridden during the creation of the application. An application Snapshot copy can be flagged as either *application consistent*, or *crash consistent*. From an ONTAP perspective, there is no difference between these two consistency types. These types are available for record keeping so that Snapshot copies taken after the application is quiesced (application consistent) can be tracked separately from those Snapshot copies taken without first quiescing the application (crash consistent). By default, all application Snapshot copies are flagged to be *crash consistent*, and Snapshot copies taken at a scheduled time are also considered *crash consistent*.

The functionality provided by these APIs is not integrated with the host application. Snapshot copies have limited value without host coordination, so the use of the SnapCenter Backup Management suite is recommended to ensure correct interaction between host applications and ONTAP.

## Retrieve an application Snapshot copy

GET /application/applications/{application.uuid}/snapshots

**Introduced In:** 9.6

Retrieves Snapshot copies of an application.

### Query examples

The following query returns all Snapshot copies from May 4, 2017 EST. For readability, the colon (:) is left in this example. For an actual call, they should be escaped as %3A.

```
GET
/application/applications/{application.uuid}/snapshots?create_time=2017-
05-04T00:00:00-05:00..2017-05-04T23:59:59-05:00
```

The following query returns all Snapshot copies that have been flagged as *application consistent*.

```
GET
/application/applications/{application.uuid}/snapshots?consistency_type=ap
plication
```

## Learn more

- [DOC /application/applications/{application.uuid}/snapshots](#)
- [DOC /application](#)

## Parameters

| Name             | Type          | In    | Required | Description                           |
|------------------|---------------|-------|----------|---------------------------------------|
| application.uuid | string        | path  | True     | Application UUID                      |
| uuid             | string        | query | False    | Filter by UUID                        |
| name             | string        | query | False    | Filter by name                        |
| consistency_type | string        | query | False    | Filter by consistency_type            |
| components.name  | string        | query | False    | Filter by components.name             |
| components.uuid  | string        | query | False    | Filter by components.uuid             |
| comment          | string        | query | False    | Filter by comment                     |
| create_time      | string        | query | False    | Filter by create_time                 |
| is_partial       | string        | query | False    | Filter by is_partial                  |
| fields           | array[string] | query | False    | Specify the fields to return.         |
| max_records      | integer       | query | False    | Limit the number of records returned. |

| 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: 1</li> <li>• Max value: 120</li> <li>• Min value: 0</li> </ul> |
| return_records | boolean       | query | False    | <p>The default is true for GET calls. When set to false, only the number of records is returned.</p> <ul style="list-style-type: none"> <li>• Default value: 1</li> </ul>  |
| order_by       | array[string] | query | False    | Order results by specified fields and optional [asc  |

## Response

Status: 200, Ok

| Name        | Type  | Description       |
|-------------|---|-------------------|
| _links      | <a href="#">_links</a>                        |                   |
| num_records | integer                                       | Number of records |
| records     | array[ <a href="#">application_snapshot</a> ] |                   |

**Example response**

```

{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "application": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "string",
      "uuid": "string"
    },
    "comment": "string",
    "components": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "string",
      "uuid": "string"
    },
    "consistency_type": "crash",
    "create_time": "string",
    "svm": {
      "name": "string",
      "uuid": "string"
    },
    "uuid": "string"
  }
}

```

## Error

Status: Default, Error

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

### 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 | <a href="#">href</a> |             |
| self | <a href="#">href</a> |             |

\_links

| Name | Type                 | Description |
|------|----------------------|-------------|
| self | <a href="#">href</a> |             |

application

| Name   | Type                   | Description                         |
|--------|------------------------|-------------------------------------|
| _links | <a href="#">_links</a> |                                     |
| name   | string                 | Application name                    |
| uuid   | string                 | The application UUID. Valid in URL. |

components

| Name   | Type                   | Description    |
|--------|------------------------|----------------|
| _links | <a href="#">_links</a> |                |
| name   | string                 | Component name |
| uuid   | string                 | Component UUID |

svm

| Name | Type   | Description |
|------|--------|-------------|
| name | string | SVM name    |
| uuid | string | SVM UUID    |

application\_snapshot

| Name             | Type                                | Description   |
|------------------|-------------------------------------|---|
| _links           | <a href="#">_links</a>              |   |
| application      | <a href="#">application</a>         |   |
| comment          | string                              | Comment. Valid in POST.   |
| components       | array[ <a href="#">components</a> ] |   |
| consistency_type | string                              | Consistency type. This is for categorization purposes only. A Snapshot copy should not be set to 'application consistent' unless the host application is quiesced for the Snapshot copy. Valid in POST. |
| create_time      | string                              | Creation time   |
| is_partial       | boolean                             | A partial Snapshot copy means that not all volumes in an application component were included in the Snapshot copy.  |
| name             | string                              | The Snapshot copy name. Valid in POST.  |
| svm              | <a href="#">svm</a>                 |   |
| uuid             | string                              | The Snapshot copy UUID. Valid in URL.   |

#### error\_arguments

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

#### error

| Name      | Type                                     | Description       |
|-----------|--|-------------------|
| arguments | array[ <a href="#">error_arguments</a> ] | Message arguments |
| code      | string                                   | Error code        |
| message   | string                                   | Error message     |

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

## Create an application Snapshot copy

POST /application/applications/{application.uuid}/snapshots

**Introduced In:** 9.6

Creates a Snapshot copy of the application.

### Required properties

- name

### Recommended optional properties

- `consistency_type` - Track whether this snapshot is *application* or *crash* consistent.

### Learn more

- [DOC /application/applications/{application.uuid}/snapshots](#)
- [DOC /application](#)

### Parameters

| Name             | Type   | In   | Required | Description      |
|------------------|--------|------|----------|------------------|
| application.uuid | string | path | True     | Application UUID |

| 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: 1</li> <li>• Max value: 120</li> <li>• Min value: 0</li> </ul> |
| return_records | boolean | query | False    | <p>The default is false. If set to true, the records are returned.</p> <ul style="list-style-type: none"> <li>• Default value:</li> </ul>  |

## Request Body

| Name        | Type                        | Description             |
|-------------|-----------------------------|-------------------------|
| _links      | <a href="#">_links</a>      |                         |
| application | <a href="#">application</a> |                         |
| comment     | string                      | Comment. Valid in POST. |

| Name             | Type                                | Description   |
|------------------|-------------------------------------|---|
| components       | array[ <a href="#">components</a> ] |   |
| consistency_type | string                              | Consistency type. This is for categorization purposes only. A Snapshot copy should not be set to 'application consistent' unless the host application is quiesced for the Snapshot copy. Valid in POST. |
| create_time      | string                              | Creation time   |
| is_partial       | boolean                             | A partial Snapshot copy means that not all volumes in an application component were included in the Snapshot copy.  |
| name             | string                              | The Snapshot copy name. Valid in POST.  |
| svm              | <a href="#">svm</a>                 |   |
| uuid             | string                              | The Snapshot copy UUID. Valid in URL.   |

## Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "application": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "string",
    "uuid": "string"
  },
  "comment": "string",
  "components": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "string",
    "uuid": "string"
  },
  "consistency_type": "crash",
  "create_time": "string",
  "svm": {
    "name": "string",
    "uuid": "string"
  },
  "uuid": "string"
}
```

## Response

Status: 202, Accepted

| Name | Type                     | Description |
|------|--------------------------|-------------|
| job  | <a href="#">job_link</a> |             |

## Example response

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

## Headers

| Name     | Description                               | Type   |
|----------|---|--------|
| Location | Useful for tracking the resource location | 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 | <a href="#">href</a> |             |

application

| Name   | Type                   | Description                         |
|--------|------------------------|-------------------------------------|
| _links | <a href="#">_links</a> |                                     |
| name   | string                 | Application name                    |
| uuid   | string                 | The application UUID. Valid in URL. |

components

| Name   | Type                   | Description    |
|--------|------------------------|----------------|
| _links | <a href="#">_links</a> |                |
| name   | string                 | Component name |
| uuid   | string                 | Component UUID |

svm

| Name | Type   | Description |
|------|--------|-------------|
| name | string | SVM name    |
| uuid | string | SVM UUID    |

application\_snapshot

| Name        | Type                        | Description |
|-------------|-----------------------------|-------------|
| _links      | <a href="#">_links</a>      |             |
| application | <a href="#">application</a> |             |

| Name             | Type                                | Description   |
|------------------|-------------------------------------|---|
| comment          | string                              | Comment. Valid in POST.   |
| components       | array[ <a href="#">components</a> ] |   |
| consistency_type | string                              | Consistency type. This is for categorization purposes only. A Snapshot copy should not be set to 'application consistent' unless the host application is quiesced for the Snapshot copy. Valid in POST. |
| create_time      | string                              | Creation time   |
| is_partial       | boolean                             | A partial Snapshot copy means that not all volumes in an application component were included in the Snapshot copy.  |
| name             | string                              | The Snapshot copy name. Valid in POST.  |
| svm              | <a href="#">svm</a>                 |   |
| uuid             | string                              | The Snapshot copy UUID. Valid in URL.   |

#### job\_link

| Name   | Type                   | Description   |
|--------|------------------------|---|
| _links | <a href="#">_links</a> |   |
| 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[ <a href="#">error_arguments</a> ] | Message arguments                           |
| code      | string                                   | Error code                                  |
| message   | string                                   | Error message                               |
| target    | string                                   | The target parameter that caused the error. |

## Delete an application Snapshot copy

DELETE /application/applications/{application.uuid}/snapshots/{uuid}

**Introduced In:** 9.6

Delete a Snapshot copy of an application

### Query examples

Individual Snapshot copies can be destroyed with no query parameters, or a range of Snapshot copies can be destroyed at one time using a query.

The following query deletes all application Snapshot copies created before May 4, 2017

```
DELETE
/application/applications/{application.uuid}/snapshots?create_time=<2017-
05-04T00:00:00-05:00
```

### Parameters

| Name             | Type   | In   | Required | Description        |
|------------------|--------|------|----------|--------------------|
| application.uuid | string | path | True     | Application UUID   |
| uuid             | string | path | True     | Snapshot copy UUID |

| 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: 1</li> <li>• Max value: 120</li> <li>• Min value: 0</li> </ul> |

## Response

Status: 202, Accepted

| Name | Type                     | Description |
|------|--------------------------|-------------|
| job  | <a href="#">job_link</a> |             |

## 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 | <a href="#">href</a> |             |

job\_link

| Name   | Type                   | Description   |
|--------|------------------------|---|
| _links | <a href="#">_links</a> |   |
| 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[ <a href="#">error_arguments</a> ] | Message arguments                           |
| code      | string                                   | Error code                                  |
| message   | string                                   | Error message                               |
| target    | string                                   | The target parameter that caused the error. |

## Retrieve an application Snapshot copy

GET /application/applications/{application.uuid}/snapshots/{uuid}

## Introduced In: 9.6

Retrieve a Snapshot copy of an application component.

This endpoint is only supported for Maxdata template applications.

Component Snapshot copies are essentially more granular application Snapshot copies. There is no difference beyond the scope of the operation.

## Learn more

- [DOC /application/applications/{application.uuid}/snapshots](#)
- [GET /application/applications/{uuid}/snapshots](#)
- [DOC /application](#)

## Parameters

| Name             | Type          | In    | Required | Description                   |
|------------------|---------------|-------|----------|-------------------------------|
| application.uuid | string        | path  | True     | Application UUID              |
| uuid             | string        | path  | True     | Snapshot copy UUID            |
| fields           | array[string] | query | False    | Specify the fields to return. |

## Response

Status: 200, Ok

| Name             | Type                                | Description   |
|------------------|-------------------------------------|---|
| _links           | <a href="#">_links</a>              |   |
| application      | <a href="#">application</a>         |   |
| comment          | string                              | Comment. Valid in POST.   |
| components       | array[ <a href="#">components</a> ] |   |
| consistency_type | string                              | Consistency type. This is for categorization purposes only. A Snapshot copy should not be set to 'application consistent' unless the host application is quiesced for the Snapshot copy. Valid in POST. |
| create_time      | string                              | Creation time   |

| Name       | Type                | Description  |
|------------|---------------------|--|
| is_partial | boolean             | A partial Snapshot copy means that not all volumes in an application component were included in the Snapshot copy. |
| name       | string              | The Snapshot copy name. Valid in POST.   |
| svm        | <a href="#">svm</a> |  |
| uuid       | string              | The Snapshot copy UUID. Valid in URL.  |



## Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "application": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "string",
    "uuid": "string"
  },
  "comment": "string",
  "components": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "string",
    "uuid": "string"
  },
  "consistency_type": "crash",
  "create_time": "string",
  "svm": {
    "name": "string",
    "uuid": "string"
  },
  "uuid": "string"
}
```

## Error

Status: Default, Error

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

### 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 | <a href="#">href</a> |             |

application

| Name   | Type                   | Description                         |
|--------|------------------------|-------------------------------------|
| _links | <a href="#">_links</a> |                                     |
| name   | string                 | Application name                    |
| uuid   | string                 | The application UUID. Valid in URL. |

components

| Name   | Type                   | Description    |
|--------|------------------------|----------------|
| _links | <a href="#">_links</a> |                |
| name   | string                 | Component name |
| uuid   | string                 | Component UUID |

svm

| Name | Type   | Description |
|------|--------|-------------|
| name | string | SVM name    |
| uuid | string | SVM UUID    |

error\_arguments

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

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. |

## Restore an application Snapshot copy

POST /application/applications/{application.uuid}/snapshots/{uuid}/restore

**Introduced In:** 9.6

Restore an application snapshot

Restoring an application Snapshot copy reverts all storage elements in the Snapshot copy to the state in which the Snapshot copy was in when the Snapshot copy was taken. This restoration does not apply to access settings that might have changed since the Snapshot copy was created.

### Learn more

- [DOC /application](#)
- [Asynchronous operations](#)

### Parameters

| Name             | Type   | In   | Required | Description        |
|------------------|--------|------|----------|--------------------|
| application.uuid | string | path | True     | Application UUID   |
| uuid             | string | path | True     | Snapshot copy UUID |

| 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: 1</li> <li>• Max value: 120</li> <li>• Min value: 0</li> </ul> |
| return_records | boolean | query | False    | <p>The default is false. If set to true, the records are returned.</p> <ul style="list-style-type: none"> <li>• Default value:</li> </ul>  |

## Response

Status: 202, Accepted

| Name | Type                     | Description |
|------|--------------------------|-------------|
| job  | <a href="#">job_link</a> |             |

## 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 | <a href="#">href</a> |             |

job\_link

| Name   | Type                   | Description   |
|--------|------------------------|---|
| _links | <a href="#">_links</a> |   |
| 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[ <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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