



# **Manage application consistency group Snapshot copies**

ONTAP 9.14.1 REST API reference

NetApp  
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# Manage application consistency group Snapshot copies

## Application consistency-groups consistency\_group.uuid snapshots endpoint overview

### Overview

Consistency groups support Snapshot copy create, inventory, and restore. Snapshot copies can be created on a specified schedule or on-demand. On-demand Snapshot copies can have a type of application consistent or crash consistent. Crash consistent is the default. Scheduled Snapshot copies are always crash consistent. There is no functional difference in ONTAP between crash consistent or application consistent Snapshot copies.

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.

### On-Demand Snapshot Copies

A manual Snapshot copy may be created on-demand for a parent consistency group and for any of the children consistency groups within it.

Scheduled and manual Snapshot copy creation operations are subject to a pre-defined seven second internal timeout. If the Snapshot copy creation operation does not complete within this time, it is aborted.

Individual volume Snapshot copies within a consistency group Snapshot copies can be accessed and used with native volume Snapshot copy operations.

When an individual volume Snapshot copy is deleted that is part of a consistency group Snapshot copy, then that consistency group Snapshot copy becomes invalid and which cannot be used for restoring the consistency group.

### Restoring to a Previous Snapshot Copy

A Snapshot copy restores to a parent consistency group from an existing parent consistency group's Snapshot copy. A Snapshot copy restores to any of the children's consistency groups within it from an existing children's consistency group. Granular Snapshot copies are supported. This is performed by a PATCH operation on the specific consistency group for the restore. An example is shown in [PATCH /application/consistency-groups/{uuid}](#) .

Any existing Snapshot copies that were created chronologically after the time of the Snapshot copy used in a successful restore operation is deleted, in compliance with existing ONTAP "future-snapshot" handling principles.

On failures during consistency group restores, any volumes that have been restored will remain so and will not be rolled back. The user must retry the failed restore operation until it is successful. The user can retry with consistency group restore or individual volume-granular restore.

## Consistency group Snapshot APIs

The following APIs are used to perform operations related to consistency group Snapshot copies:

&ndash; GET /api/application/consistency-groups/snapshots

&ndash; POST /api/application/consistency-groups/snapshots

&ndash; POST /api/application/consistency-groups/snapshots?action=start

&ndash; GET /api/application/consistency-groups/snapshots/{uuid}

&ndash; PATCH /api/application/consistency-groups/snapshots/{uuid}?action=commit

&ndash; DELETE /api/application/consistency-groups/snapshots/{uuid}

## Examples

### Required properties

- `consistency_group.uuid` - Existing consistency group UUID in which to create the Snapshot copy.

### Retrieving the list of existing Snapshot copies for a consistency group

Retrieves the list of consistency group granular Snapshot copies for a specific consistency group.

```
curl -X GET 'https://<mgmt-ip>/api/application/consistency-  
groups/92c6c770-17a1-11eb-b141-005056acd498/snapshots'
```

```
#### Response:
```

```
{  
  "records": [  
    {  
      "uuid": "92c6c770-17a1-11eb-b141-005056acd498",  
      "name": "sa3s1",  
      "_links": {  
        "self": {  
          "href": "/api/application/consistency-groups/a8d0626a-17a0-11eb-  
b141-005056acd498/snapshots/92c6c770-17a1-11eb-b141-005056acd498"  
        }  
      }  
    },  
    {  
      "uuid": "c5a250ba-17a1-11eb-b141-005056acd498",  
      "name": "sa3s2",  
      "_links": {  
        "self": {  
          "href": "/api/application/consistency-groups/a8d0626a-17a0-11eb-  
b141-005056acd498/snapshots/c5a250ba-17a1-11eb-b141-005056acd498"  
        }  
      }  
    }  
  ],  
  "num_records": 2,  
  "_links": {  
    "self": {  
      "href": "/api/application/consistency-groups/a8d0626a-17a0-11eb-b141-  
005056acd498/snapshots"  
    }  
  }  
}
```

### Retrieves details of a specific Snapshot copy for a consistency group

Retrieves details for a specific Snapshot copy in a consistency group.

```
curl -X GET 'https://<mgmt-ip>/api/application/consistency-  
groups/92c6c770-17a1-11eb-b141-005056acd498/snapshots/a175c021-4199-11ec-  
8674-005056accf3f'
```

```
#### Response:
```

```
{  
  "consistency_group": {  
    "uuid": "ddabc6a5-4196-11ec-8674-005056accf3f",  
    "name": "CG_1",  
    "_links": {  
      "self": {  
        "href": "/api/application/consistency-groups/ddabc6a5-4196-11ec-  
8674-005056accf3f"  
      }  
    }  
  },  
  "uuid": "a175c021-4199-11ec-8674-005056accf3f",  
  "name": "sa3s2",  
  "consistency_type": "crash",  
  "comment": "manually created snapshot",  
  "create_time": "2021-11-09T15:14:23-05:00",  
  "svm": {  
    "uuid": "7379fecb-4195-11ec-8674-005056accf3f",  
    "name": "vs1",  
    "_links": {  
      "self": {  
        "href": "/api/svm/svms/7379fecb-4195-11ec-8674-005056accf3f"  
      }  
    }  
  },  
  "_links": {  
    "self": {  
      "href": "/api/application/consistency-groups/ddabc6a5-4196-11ec-8674-  
005056accf3f/snapshots/a175c021-4199-11ec-8674-005056accf3f"  
    }  
  }  
}
```

### **Creating a crash-consistent Snapshot copy of a consistency group**

Creates an on-demand crash-consistent Snapshot copy of an existing consistency group.

```
curl -X POST 'https://<mgmt-ip>/api/application/consistency-  
groups/a8d0626a-17a0-11eb-b141-005056acd498/snapshots' -d '{ "name":  
"name_of_this_snapshot", "consistency_type": "crash", "comment": "this is  
a manually created on-demand snapshot", "snapmirror_label":  
"my_special_sm_label" }' -H "accept: application/hal+json"
```

#### Response:

```
{  
}
```

### Creating a app-consistent Snapshot copy of a consistency group

Creates an on-demand crash-consistent Snapshot copy of an existing consistency group.

```
curl -X POST 'https://<mgmt-ip>/api/application/consistency-  
groups/a8d0626a-17a0-11eb-b141-005056acd498/snapshots' -d '{ "name":  
"name_of_this_snapshot", "consistency_type": "application", "comment":  
"this is a manually created on-demand snapshot", "snapmirror_label":  
"my_special_sm_label" }' -H "accept: application/hal+json"
```

#### Response:

```
{  
}
```

### Starting a two-phase crash-consistent Snapshot copy creation for a consistency group

Starts a two-phase on-demand crash-consistent Snapshot copy creation for an existing consistency group.

```
curl -X POST 'https://<mgmt-ip>/api/application/consistency-  
groups/a8d0626a-17a0-11eb-b141-  
005056acd498/snapshots?action=start&action_timeout=7' -d '{ "name":  
"name_of_this_snapshot", "consistency_type": "application", "comment":  
"this is a manually created on-demand snapshot", "snapmirror_label":  
"my_special_sm_label" }' -H "accept: application/hal+json"
```

#### Response:

```
Location: /api/application/consistency-groups/a8d0626a-17a0-11eb-b141-  
005056acd498/snapshots/7aac0607-0c4d-11ee-ad32-005056a73101  
{  
}
```

## Committing a previously started two-phase crash-consistent Snapshot copy creation for a consistency group

Commits a previously started two-phase on-demand crash-consistent Snapshot copy creation for an existing consistency group.

```
curl -X PATCH 'https://<mgmt-ip>/api/application/consistency-  
groups/a8d0626a-17a0-11eb-b141-005056acd498/snapshots/7aac0607-0c4d-11ee-  
ad32-005056a73101?action=commit' -H "accept: application/hal+json"
```

#### Response:

```
{  
}
```

## Deleting a Snapshot copy from a consistency group

Deletes an existing Snapshot copy from a consistency group.

```
curl -X DELETE 'https://<mgmt-ip>/api/application/consistency-  
groups/a8d0626a-17a0-11eb-b141-005056acd498/snapshots/92c6c770-17a1-11eb-  
b141-005056acd498'
```

#### Response:

```
{  
}
```

## Retrieve consistency group Snapshot copies

GET /application/consistency-groups/{consistency\_group.uuid}/snapshots

**Introduced In:** 9.10

Retrieves Snapshot copies for a consistency group.

### Expensive properties

There is an added computational cost to retrieving values for these properties. They are not included by default in GET results and must be explicitly requested using the `fields` query parameter. See [DOC Requesting specific fields](#) to learn more.

- `is_partial`
- `missing_volumes.uuid`
- `missing_volumes.name`



## Parameters

Name	Type	In	Required	Description
consistency_group.uuid	string	path	True	The unique identifier of the consistency group to retrieve.
snapmirror_label	string	query	False	Filter by snapmirror_label
is_partial	boolean	query	False	Filter by is_partial
snapshot_volumes.volume.name	string	query	False	Filter by snapshot_volumes.volume.name  • Introduced in: 9.12
snapshot_volumes.volume.uuid	string	query	False	Filter by snapshot_volumes.volume.uuid  • Introduced in: 9.12
snapshot_volumes.snapshot.uuid	string	query	False	Filter by snapshot_volumes.snapshot.uuid  • Introduced in: 9.12
snapshot_volumes.snapshot.name	string	query	False	Filter by snapshot_volumes.snapshot.name  • Introduced in: 9.12
write_fence	boolean	query	False	Filter by write_fence  • Introduced in: 9.14
consistency_group.name	string	query	False	Filter by consistency_group.name

Name	Type	In	Required	Description
missing_volumes.name	string	query	False	Filter by missing_volumes.name
missing_volumes.uuid	string	query	False	Filter by missing_volumes.uuid
svm.uuid	string	query	False	Filter by svm.uuid
svm.name	string	query	False	Filter by svm.name
uuid	string	query	False	Filter by uuid
comment	string	query	False	Filter by comment
name	string	query	False	Filter by name
create_time	string	query	False	Filter by create_time
consistency_type	string	query	False	Filter by consistency_type
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	<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>

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>
order_by	array[string]	query	False	Order results by specified fields and optional [asc

## Response

Status: 200, Ok

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

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "comment": "My Snapshot copy comment",
    "consistency_group": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "my_consistency_group",
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    },
    "consistency_type": "crash",
    "create_time": "2020-10-25 07:20:00 -0400",
    "is_partial": "",
    "missing_volumes": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "volume1",
      "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
    },
    "snapmirror_label": "sm_label",
    "snapshot_volumes": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      }
    }
  }
}
```

```

    },
    "snapshot": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "this_snapshot",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "volume": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "volume1",
      "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
    }
  },
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
}
}

```

## Error

Status: Default, Error

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

href

Name	Type	Description
href	string	

collection\_links

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

self\_link

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

consistency\_group

The consistency group of the Snapshot copy.

Name	Type	Description
_links	<a href="#">self_link</a>	
name	string	The name of the consistency group.
uuid	string	The unique identifier of the consistency group.

\_links

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

volume\_reference

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the volume. This field cannot be specified in a POST or PATCH method.

Name	Type	Description
uuid	string	<p>Unique identifier for the volume. This corresponds to the instance-uuid that is exposed in the CLI and ONTAPI. It does not change due to a volume move.</p> <ul style="list-style-type: none"> <li>• example: 028baa66-41bd-11e9-81d5-00a0986138f7</li> <li>• Introduced in: 9.6</li> <li>• x-nullable: true</li> </ul>

#### snapshot\_reference

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	
uuid	string	

#### consistency\_group\_volume\_snapshot

Name	Type	Description
_links	<a href="#">self_link</a>	
snapshot	<a href="#">snapshot_reference</a>	
volume	<a href="#">volume_reference</a>	

#### svm\_reference

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

#### records



Name	Type	Description
_links	<a href="#">self_link</a>	
comment	string	Comment for the Snapshot copy.
consistency_group	<a href="#">consistency_group</a>	The consistency group of the Snapshot copy.
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	Time the snapshot copy was created
is_partial	boolean	Indicates whether the Snapshot copy taken is partial or not.
missing_volumes	array[ <a href="#">volume_reference</a> ]	List of volumes which are not in the Snapshot copy.
name	string	Name of the Snapshot copy.
snapmirror_label	string	Snapmirror Label for the Snapshot copy.
snapshot_volumes	array[ <a href="#">consistency_group_volume_snapshot</a> ]	List of volume and snapshot identifiers for each volume in the Snapshot copy.
svm	<a href="#">svm_reference</a>	SVM, applies only to SVM-scoped objects.
uuid	string	The unique identifier of the Snapshot copy. The UUID is generated by ONTAP when the Snapshot copy is created. <ul style="list-style-type: none"> <li>• example: 1cd8a442-86d1-11e0-ae1c-123478563412</li> <li>• readOnly: 1</li> <li>• Introduced in: 9.6</li> <li>• x-nullable: true</li> </ul>

Name	Type	Description
write_fence	boolean	Specifies whether a write fence will be taken when creating the Snapshot copy. The default is false if there is only one volume in the consistency group, otherwise the default is true.

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.

## Create a consistency group Snapshot copy

POST /application/consistency-groups/{consistency\_group.uuid}/snapshots

**Introduced In:** 9.10

Creates a Snapshot copy of an existing consistency group.

### Required properties

- `consistency_group.uuid` - Existing consistency group UUID in which to create the Snapshot copy.

### Parameters

Name	Type	In	Required	Description
consistency_group.uid	string	path	True	The unique identifier of the consistency group to retrieve.
action	string	query	False	<p>Initiates the Snapshot copy create operation. The start of the Snapshot copy operation can optionally use a timeout value specified by "action_timeout". The Snapshot copy is committed by calling PATCH on the Snapshot copy href link with action specified as "commit".</p> <ul style="list-style-type: none"> <li>• Introduced in: 9.11</li> <li>• enum: ["start"]</li> </ul>
action_timeout	integer	query	False	<p>Duration to complete the 2-phase Snapshot copy operation. This also specifies the maximum duration that the write-fence remains in effect on the volumes associated with this consistency group. Default is 7 seconds with a valid range of 5 to 120 seconds.</p> <ul style="list-style-type: none"> <li>• Introduced in: 9.11</li> </ul>

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="#">self_link</a>	
comment	string	Comment for the Snapshot copy.

Name	Type	Description
consistency_group	<a href="#">consistency_group</a>	The consistency group of the Snapshot copy.
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	Time the snapshot copy was created
is_partial	boolean	Indicates whether the Snapshot copy taken is partial or not.
missing_volumes	array[ <a href="#">volume_reference</a> ]	List of volumes which are not in the Snapshot copy.
name	string	Name of the Snapshot copy.
snapmirror_label	string	Snapmirror Label for the Snapshot copy.
snapshot_volumes	array[ <a href="#">consistency_group_volume_snapshot</a> ]	List of volume and snapshot identifiers for each volume in the Snapshot copy.
svm	<a href="#">svm_reference</a>	SVM, applies only to SVM-scoped objects.
uuid	string	The unique identifier of the Snapshot copy. The UUID is generated by ONTAP when the Snapshot copy is created. <ul style="list-style-type: none"> <li>• example: 1cd8a442-86d1-11e0-ae1c-123478563412</li> <li>• readOnly: 1</li> <li>• Introduced in: 9.10</li> <li>• x-nullable: true</li> </ul>

<b>Name</b>	<b>Type</b>	<b>Description</b>
write_fence	boolean	Specifies whether a write fence will be taken when creating the Snapshot copy. The default is false if there is only one volume in the consistency group, otherwise the default is true.

## Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "comment": "My Snapshot copy comment",
  "consistency_group": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "my_consistency_group",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "consistency_type": "crash",
  "create_time": "2020-10-25 07:20:00 -0400",
  "is_partial": "",
  "missing_volumes": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "volume1",
    "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
  },
  "snapmirror_label": "sm_label",
  "snapshot_volumes": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    }
  },
  "snapshot": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "this_snapshot",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
}
```

```

    "volume": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "volume1",
      "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
    },
    "svm": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "svm1",
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    },
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  }

```

## 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

## Response

Status: 201, Created

## Error

Status: Default, Error

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

href

Name	Type	Description
href	string	

self\_link

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

consistency\_group

The consistency group of the Snapshot copy.

Name	Type	Description
_links	<a href="#">self_link</a>	
name	string	The name of the consistency group.
uuid	string	The unique identifier of the consistency group.

\_links

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

volume\_reference

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the volume. This field cannot be specified in a POST or PATCH method.

Name	Type	Description
uuid	string	<p>Unique identifier for the volume. This corresponds to the instance-uuid that is exposed in the CLI and ONTAPI. It does not change due to a volume move.</p> <ul style="list-style-type: none"> <li>• example: 028baa66-41bd-11e9-81d5-00a0986138f7</li> <li>• Introduced in: 9.6</li> <li>• x-nullable: true</li> </ul>

#### snapshot\_reference

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	
uuid	string	

#### consistency\_group\_volume\_snapshot

Name	Type	Description
_links	<a href="#">self_link</a>	
snapshot	<a href="#">snapshot_reference</a>	
volume	<a href="#">volume_reference</a>	

#### svm\_reference

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

#### consistency\_group\_snapshot

Name	Type	Description
_links	<a href="#">self_link</a>	
comment	string	Comment for the Snapshot copy.
consistency_group	<a href="#">consistency_group</a>	The consistency group of the Snapshot copy.
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	Time the snapshot copy was created
is_partial	boolean	Indicates whether the Snapshot copy taken is partial or not.
missing_volumes	array[ <a href="#">volume_reference</a> ]	List of volumes which are not in the Snapshot copy.
name	string	Name of the Snapshot copy.
snapmirror_label	string	Snapmirror Label for the Snapshot copy.
snapshot_volumes	array[ <a href="#">consistency_group_volume_snapshot</a> ]	List of volume and snapshot identifiers for each volume in the Snapshot copy.
svm	<a href="#">svm_reference</a>	SVM, applies only to SVM-scoped objects.
uuid	string	The unique identifier of the Snapshot copy. The UUID is generated by ONTAP when the Snapshot copy is created. <ul style="list-style-type: none"> <li>• example: 1cd8a442-86d1-11e0-ae1c-123478563412</li> <li>• readOnly: 1</li> <li>• Introduced in: 9.10</li> <li>• x-nullable: true</li> </ul>

Name	Type	Description
write_fence	boolean	Specifies whether a write fence will be taken when creating the Snapshot copy. The default is false if there is only one volume in the consistency group, otherwise the default is true.

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

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.

## Delete a consistency group Snapshot copy

DELETE /application/consistency-groups/{consistency\_group.uuid}/snapshots/{uuid}

**Introduced In:** 9.10

Deletes a Snapshot copy of a consistency group.

## Examples

## Parameters

Name	Type	In	Required	Description
consistency_group.uuid	string	path	True	The unique identifier of the Snapshot copy of the consistency group to delete.
uuid	string	path	True	Snapshot copy UUID
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: 200, Ok

## Response

Status: 202, Accepted

## Error

Status: Default, Error

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.

## Retrieve a consistency group Snapshot copy

GET /application/consistency-groups/{consistency\_group.uuid}/snapshots/{uuid}

**Introduced In:** 9.10

Retrieves details of a specific snapshot for a consistency group.

### Expensive properties

There is an added computational cost to retrieving values for these properties. They are not included by default in GET results and must be explicitly requested using the `fields` query parameter. See [DOC Requesting specific fields](#) to learn more.

- `is_partial`
- `missing_volumes.uuid`
- `missing_volumes.name`

### Parameters



Name	Type	In	Required	Description
consistency_group.uuid	string	path	True	The unique identifier of the consistency group to retrieve.
uuid	string	path	True	The unique identifier of the Snapshot copy of the consistency group to retrieve.
snapmirror_label	string	query	False	Filter by snapmirror_label
is_partial	boolean	query	False	Filter by is_partial
snapshot_volumes.volume.name	string	query	False	Filter by snapshot_volumes.volume.name  • Introduced in: 9.12
snapshot_volumes.volume.uuid	string	query	False	Filter by snapshot_volumes.volume.uuid  • Introduced in: 9.12
snapshot_volumes.snapshot.uuid	string	query	False	Filter by snapshot_volumes.snapshot.uuid  • Introduced in: 9.12
snapshot_volumes.snapshot.name	string	query	False	Filter by snapshot_volumes.snapshot.name  • Introduced in: 9.12
write_fence	boolean	query	False	Filter by write_fence  • Introduced in: 9.14

Name	Type	In	Required	Description
consistency_group.name	string	query	False	Filter by consistency_group.name
missing_volumes.name	string	query	False	Filter by missing_volumes.name
missing_volumes.uuid	string	query	False	Filter by missing_volumes.uuid
svm.uuid	string	query	False	Filter by svm.uuid
svm.name	string	query	False	Filter by svm.name
comment	string	query	False	Filter by comment
name	string	query	False	Filter by name
create_time	string	query	False	Filter by create_time
consistency_type	string	query	False	Filter by consistency_type
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	<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>

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>
order_by	array[string]	query	False	Order results by specified fields and optional [asc

## Response

Status: 200, Ok

Name	Type	Description
_links	<a href="#">self_link</a>	
comment	string	Comment for the Snapshot copy.
consistency_group	<a href="#">consistency_group</a>	The consistency group of the Snapshot copy.
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	Time the snapshot copy was created

Name	Type	Description
is_partial	boolean	Indicates whether the Snapshot copy taken is partial or not.
missing_volumes	array[volume_reference]	List of volumes which are not in the Snapshot copy.
name	string	Name of the Snapshot copy.
snapmirror_label	string	Snapmirror Label for the Snapshot copy.
snapshot_volumes	array[consistency_group_volume_snapshot]	List of volume and snapshot identifiers for each volume in the Snapshot copy.
svm	svm_reference	SVM, applies only to SVM-scoped objects.
uuid	string	The unique identifier of the Snapshot copy. The UUID is generated by ONTAP when the Snapshot copy is created. <ul style="list-style-type: none"> <li>• example: 1cd8a442-86d1-11e0-ae1c-123478563412</li> <li>• readOnly: 1</li> <li>• Introduced in: 9.10</li> <li>• x-nullable: true</li> </ul>
write_fence	boolean	Specifies whether a write fence will be taken when creating the Snapshot copy. The default is false if there is only one volume in the consistency group, otherwise the default is true.

## Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "comment": "My Snapshot copy comment",
  "consistency_group": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "my_consistency_group",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "consistency_type": "crash",
  "create_time": "2020-10-25 07:20:00 -0400",
  "is_partial": "",
  "missing_volumes": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "volume1",
    "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
  },
  "snapmirror_label": "sm_label",
  "snapshot_volumes": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "snapshot": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "this_snapshot",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    }
  },
}
```

```
"volume": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "volume1",
  "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
},
"svm": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "svm1",
  "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
},
"uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
}
```

## Error

Status: Default, Error

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

href

Name	Type	Description
href	string	

self\_link

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

consistency\_group

The consistency group of the Snapshot copy.

Name	Type	Description
_links	<a href="#">self_link</a>	
name	string	The name of the consistency group.
uuid	string	The unique identifier of the consistency group.

\_links

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

volume\_reference

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the volume. This field cannot be specified in a POST or PATCH method.



Name	Type	Description
uuid	string	<p>Unique identifier for the volume. This corresponds to the instance-uuid that is exposed in the CLI and ONTAPI. It does not change due to a volume move.</p> <ul style="list-style-type: none"> <li>• example: 028baa66-41bd-11e9-81d5-00a0986138f7</li> <li>• Introduced in: 9.6</li> <li>• x-nullable: true</li> </ul>

#### snapshot\_reference

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	
uuid	string	

#### consistency\_group\_volume\_snapshot

Name	Type	Description
_links	<a href="#">self_link</a>	
snapshot	<a href="#">snapshot_reference</a>	
volume	<a href="#">volume_reference</a>	

#### svm\_reference

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

#### 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.

## Complete a consistency group Snapshot copy operation

PATCH /application/consistency-groups/{consistency\_group.uuid}/snapshots/{uuid}

**Introduced In:** 9.11

Completes a Snapshot copy operation of a consistency group.

### Example

#### Completing a Snapshot copy operation

The following example shows how to complete the Snapshot copy operation by committing an existing Snapshot copy to disk:

```
curl -X PATCH https://<mgmt-ip>/api/application/consistency-
groups/a8d0626a-17a0-11eb-b141-005056acd498/snapshots/92c6c770-17a1-11eb-
b141-005056acd498?action=commit
```

**Response:**

```
{
}
```

## Parameters

Name	Type	In	Required	Description
consistency_group.uuid	string	path	True	Unique identifier of the consistency group's Snapshot copy for deletion.
uuid	string	path	True	Snapshot copy UUID.
action	string	query	False	Commits the Snapshot copy. The commit must be called within the timeout value specified during POST. If the commit is not called within the specified time, then the Snapshot copy create operation is aborted.  • enum: ["commit"]

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: 200, Ok

## Response

Status: 202, Accepted

## Error

Status: Default

## ONTAP Error Response Codes

Error Code	Description
53411925	Failed to find a previously initiated two-phase Snapshot copy operation for consistency group.

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.

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