



CreateSnapshot

Element Software

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CreateSnapshot

You can use `CreateSnapshot` to create a point-in-time copy of a volume. You can create a snapshot from any volume or from an existing snapshot.

If you do not provide a `SnapshotID` with this API method, a snapshot is created from the volume's active branch. If the volume from which the snapshot is created is being replicated to a remote cluster, the snapshot can also be replicated to the same target. Use the `enableRemoteReplication` parameter to enable snapshot replication.



You can create snapshots if cluster fullness is at stage 1, 2, or 3. You cannot create snapshots when cluster fullness reaches stage 4 or 5.

Parameters

This method has the following input parameters:

Name	Description	Type	Default value	Required
<code>attributes</code>	List of name-value pairs in JSON object format.	JSON object	None	No
<code>enableRemoteReplication</code>	Specifies whether the snapshot will be replicated to remote storage or not. Possible values: <ul style="list-style-type: none"><code>true</code>: The snapshot will be replicated to remote storage.<code>false</code>: The snapshot will not be replicated to remote storage.	boolean	false	No

Name	Description	Type	Default value	Required
ensureSerialCreation	<p>Specifies that the snapshot should not be created if a previous snapshot replication is in progress. Possible values are:</p> <ul style="list-style-type: none"> • <code>true</code>: This ensures that only one snapshot is being replicated at a time. The creation of a new snapshot will fail if a previous snapshot replication is still in progress. • <code>false</code>: Default. This snapshot creation is allowed if another snapshot replication is still in progress. 	boolean	<code>false</code>	No

Name	Description	Type	Default value	Required
expirationTime	Specify the time after which the snapshot can be removed. Cannot be used with retention. If neither expirationTime or retention are specified the snapshot will not expire. The time format is an ISO 8601 date string for time based expiration, otherwise it will not expire. A value of null causes the snapshot to be retained permanently. A value of fifo causes the snapshot to be preserved on a First-In-First-Out basis, relative to other FIFO snapshots on the volume. The API will fail if no FIFO space is available.	string	None	No
name	The name of the snapshot. If no name is entered, the date and time the snapshot was taken is used. The maximum name length allowed is 255 characters.	string	None	No

Name	Description	Type	Default value	Required
retention	This parameter is same as the expirationTime parameter, except the time format is HH:mm:ss. If neither expirationTime nor retention are specified, the snapshot will not expire.	string	None	No
snapMirrorLabel	The label used by SnapMirror software to specify the snapshot retention policy on a SnapMirror endpoint.	string	None	No
snapshotID	Unique ID of a snapshot from which the new snapshot is made. The snapshotID passed must be a snapshot on the given volume.	integer	None	No
volumeID	Unique ID of the volume image from which to copy.	integer	None	Yes

Return values

This method has the following return values:

Name	Description	Type
checksum	A string that represents the correct digits in the stored snapshot. This checksum can be used later to compare other snapshots to detect errors in the data.	string
snapshotID	Unique ID of the new snapshot.	Snapshot ID
snapshot	An object containing information about the newly created snapshot.	snapshot

Request example

Requests for this method are similar to the following example:

```
{
  "method": "CreateSnapshot",
  "params": {
    "volumeID": 1
  },
  "id": 1
}
```

Response example

This method returns a response similar to the following example:

```
{
  "id": 1,
  "result": {
    "checksum": "0x0",
    "snapshot": {
      "attributes": {},
      "checksum": "0x0",
      "createTime": "2016-04-04T17:14:03Z",
      "enableRemoteReplication": false,
      "expirationReason": "None",
      "expirationTime": null,
      "groupID": 0,
      "groupSnapshotUUID": "00000000-0000-0000-0000-000000000000",
      "name": "2016-04-04T17:14:03Z",
      "snapshotID": 3110,
      "snapshotUUID": "6f773939-c239-44ca-9415-1567eae79646",
      "status": "done",
      "totalSize": 5000658944,
      "virtualVolumeID": null,
      "volumeID": 1
    },
    "snapshotID": 3110
  }
}
```

Exception

An `xNotPrimary` exception is displayed when the `CreateSnapshot` API is called and the snapshot fails to get created. This is expected behavior. Retry the `CreateSnapshot` API call.

New since version

9.6

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