



# CloneVolume

## Element Software

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# CloneVolume

You can use the `CloneVolume` method to create a copy of a volume. This method is asynchronous and might take a variable amount of time to complete.

The cloning process begins immediately when you make the `CloneVolume` request and is representative of the state of the volume when the API method is issued. You can use the `GetAsyncResult` method to determine when the cloning process is complete and the new volume is available for connections. You can use `ListSyncJobs` to see the progress of creating the clone. The initial attributes and quality of service settings for the volume are inherited from the volume being cloned. You can change these settings with `ModifyVolume`.



Cloned volumes do not inherit volume access group membership from the source volume.

## Parameters

This method has the following input parameters:

Name	Description	Type	Default value	Required
access	<p>Access allowed for the new volume. If a value is not specified, the access value does not change. Possible values:</p> <ul style="list-style-type: none"> <li>• <code>readOnly</code>: (Optional) Only read operations are allowed.</li> <li>• <code>readWrite</code>: (Optional) Reads and writes are allowed.</li> <li>• <code>locked</code>: (Optional) No reads or writes are allowed. If not specified, the access value of the volume being cloned is used.</li> <li>• <code>replicationTarget</code>: (Optional) Identify a volume as the target volume for a paired set of volumes. If the volume is not paired, the access status is locked.</li> </ul>	string	None	No
attributes	List of name-value pairs in JSON object format.	JSON object	None	No

Name	Description	Type	Default value	Required
enable512e	Specifies whether the new volume should use 512-byte sector emulation. If unspecified, the setting of the volume being cloned is used.	boolean	Setting of original volume	No
enableSnapMirrorReplication	Determines whether the volume can be used for replication with SnapMirror endpoints. Possible values: <ul style="list-style-type: none"> <li>• true</li> <li>• false</li> </ul>	boolean	false	No
name	Name of the new cloned volume; must be 1 to 64 characters in length.	string	None	Yes
newAccountID	AccountID for the owner of the new volume. If unspecified, the accountID of the owner of the volume being cloned is used.	integer	AccountID of the owner of original volume	No
newSize	New size of the volume, in bytes. Might be greater or less than the size of the volume being cloned. If not specified, the volume size is not changed. Size is rounded up to the nearest 1MB in size.	integer	None	No

Name	Description	Type	Default value	Required
snapshotID	ID of the snapshot that is used as the source of the clone. If no ID is provided, the current active volume is used.	integer	None	No
volumeID	VolumeID for the volume to be cloned.	integer	None	Yes

## Return values

This method has the following return values:

Name	Description	Type
asyncHandle	The handle value used to obtain the operation result.	integer
cloneID	The cloneID for the newly cloned volume.	integer
curve	The QoS curve values applied to the clone.	JSON object
volume	An object containing information about the newly cloned volume.	<a href="#">volume</a>
volumeID	VolumeID for the newly cloned volume.	integer

## Request example

Requests for this method are similar to the following example:

```
{
  "method": "CloneVolume",
  "params": {
    "volumeID" : 5,
    "name" : "mysqldata-snapshot1",
    "access" : "readOnly"
  },
  "id" : 1
}
```

## Response example

This method returns a response similar to the following example:

```
{
  "id": 1,
  "result": {
    "asyncHandle": 42,
    "cloneID": 37,
    "volume": {
      "access": "readOnly",
      "accountID": 1,
      "attributes": {},
      "blockSize": 4096,
      "createTime": "2016-03-31T22:26:03Z",
      "deleteTime": "",
      "enable512e": true,
      "iqn": "iqn.2010-01.com.solidfire:jyay.mysqldata-snapshot1.680",
      "name": "mysqldata-snapshot1",
      "purgeTime": "",
      "qos": {
        "burstIOPS": 100,
        "burstTime": 60,
        "curve": {
          "4096": 100,
          "8192": 160,
          "16384": 270,
          "32768": 500,
          "65536": 1000,
          "131072": 1950,
          "262144": 3900,
          "524288": 7600,
          "1048576": 15000
        },
        "maxIOPS": 100,
        "minIOPS": 50
      },
      "scsiEUIDeviceID": "6a796179000002a8f47acc0100000000",
      "scsiNAADeviceID": "6f47acc1000000006a796179000002a8",
      "sliceCount": 0,
      "status": "init",
      "totalSize": 1000341504,
      "virtualVolumeID": null,
      "volumeAccessGroups": [],
      "volumeID": 680,
      "volumePairs": []
    }
  }
}
```

```
    },  
    "volumeID": 680  
  }  
}
```

## New since version

9.6

## Find more information

- [GetAsyncResult](#)
- [ListSyncJobs](#)
- [ModifyVolume](#)



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