SnapMirror API methods

Element Software

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SnapMirror API methods

AbortSnapMirrorRelationship

The Element software web UI uses the `AbortSnapMirrorRelationship` method to stop SnapMirror transfers that have started but are not yet complete.

Parameters

This method has the following input parameters:

Name	Description	Type	Default value	Required
snapMirrorEndpointID	The endpoint ID of the remote ONTAP storage system communicating with the Element storage cluster.	integer	None	Yes
destinationVolume	The destination volume in the SnapMirror relationship.	snapMirrorVolumeInfo	None	Yes
clearCheckpoint	Determines whether or not to clear the restart checkpoint. Possible values: • true • false	boolean	false	No

Return values

This method has the following return values:

Name	Description	Type
snapMirrorRelationship	An object containing information about the aborted SnapMirror relationship.	snapMirrorRelationship

New since version

10.1

BreakSnapMirrorRelationship

The Element web UI uses the `BreakSnapMirrorRelationship` method to break a SnapMirror relationship. When a SnapMirror relationship is broken, the destination volume is made read-write and independent, and can then diverge from the source. You can reestablish the relationship with the `ResyncSnapMirrorRelationship` API method. This method requires the ONTAP cluster to be available.

Parameters

This method has the following input parameters:

Name	Description	Type	Default value	Required
snapMirrorEndpointID	The endpoint ID of the remote ONTAP storage system communicating with the Element storage cluster.	integer	None	Yes
destinationVolume	The destination volume in the SnapMirror relationship.	snapMirrorVolumeInfo	None	Yes

Return values

This method has the following return values:

Name	Description	Type
snapMirrorRelationship	An object containing information about the broken SnapMirror relationship.	snapMirrorRelationship

New since version

10.1

Find more information

BreakSnapMirrorVolume

BreakSnapMirrorVolume

The Element web UI uses the `BreakSnapMirrorVolume` method to break the SnapMirror relationship between an ONTAP source container and Element target volume.

Breaking an Element SnapMirror volume is useful if an ONTAP system becomes unavailable while replicating data to an Element volume. This feature enables a storage administrator to take control of an Element SnapMirror volume, break its relationship with the remote ONTAP system, and revert the volume to a previous snapshot.

Parameter

This method has the following input parameter:

Name	Description	Type	Default value	Required
volumeID	The volume on which to perform the break operation. The volume access mode must be snapMirrorTarget.	integer	None	Yes
snapshotID	Roll back the volume to the snapshot identified by this ID. The default behavior is to roll back to the most recent snapshot.	integer	None	No
preserve	Preserve any snapshots newer than the snapshot identified by snapshotID. Possible values: • true: Preserve snapshots newer than snapshotID. • false: Do not preserve snapshots newer than snapshotID. If false, any snapshots newer than snapshotID are deleted.	boolean	false	No

Name	Description	Type	Default value	Required
access	Resulting volume access mode. Possible values: • readWrite • readOnly • locked	string	readWrite	No

Return values

This method has no return values.

New since version

10.0

Find more information

BreakSnapMirrorRelationship

CreateSnapMirrorEndpoint

The Element web UI uses the `CreateSnapMirrorEndpoint` method to create a relationship with a remote SnapMirror endpoint.

Parameters

This method has the following input parameters:

Name	Description	Type	Default value	Required
managementIP	The management IP address of the remote SnapMirror endpoint.	string	None	Yes
username	The management user name for the ONTAP system.	string	None	Yes
password	The management password for the ONTAP system.	string	None	Yes

Return values

This method has the following return values:

Name	Description	Type
snapMirrorEndpoint	The newly created SnapMirror endpoint.	snapMirrorEndpoint

New since version

10.0

CreateSnapMirrorEndpointUnmanaged

The Element software storage system uses the `CreateSnapMirrorEndpointUnmanaged` method to enable remote, unmanaged SnapMirror endpoints to communicate with a Element storage cluster. Unmanaged endpoints cannot be administered using the Element SnapMirror APIs. They must be managed with ONTAP management software or APIs.

Parameters

This method has the following input parameters:

Name	Description	Type	Default value	Required
clusterName	The name of the endpoint.	string	None	Yes
ipAddresses	The list of IP addresses for a cluster of ONTAP storage systems that should communicate with this Element storage cluster.	string array	None	Yes

Return values

This method has the following return values:

Name	Description	Type
snapMirrorEndpoint	The newly created SnapMirror endpoint.	snapMirrorEndpoint

New since version

10.3

CreateSnapMirrorRelationship

The Element web UI uses the `CreateSnapMirrorRelationship` method to create a SnapMirror extended data protection relationship between a source and destination endpoint.

Parameters

This method has the following input parameters:

Name	Description	Type	Default value	Required
snapMirrorEndpointID	The endpoint ID of the remote ONTAP storage system communicating with the Element storage cluster.	integer	None	Yes
sourceVolume	The source volume in the relationship.	snapMirrorVolumeInfo	None	Yes
destinationVolume	The destination volume in the relationship.	snapMirrorVolumeInfo	None	Yes
relationshipType	The type of relationship. On storage systems running Element software, this value is always “extended_data_protection”.	string	None	No
policyName	Specifies the name of the ONTAP SnapMirror policy for the relationship. If not specified, the default policy name is MirrorLatest.	string	None	No

Name	Description	Type	Default value	Required
scheduleName	The name of the pre-existing cron schedule on the ONTAP system that is used to update the SnapMirror relationship. If no schedule is designated, snapMirror updates are not scheduled and must be updated manually.	string	None	No
maxTransferRate	Specifies the maximum data transfer rate between the volumes in kilobytes per second. The default value, 0, is unlimited and permits the SnapMirror relationship to fully utilize the available network bandwidth.	integer	None	No

Return values

This method has the following return values:

Name	Description	Type
snapMirrorRelationship	Information about the newly created SnapMirror relationship.	snapMirrorRelationship

New since version

10.1

CreateSnapMirrorVolume

The Element web UI uses the `CreateSnapMirrorVolume` method to create a volume on the remote ONTAP system.

Parameters

This method has the following input parameters:

Name	Description	Type	Default value	Required
snapMirrorEndpointID	The endpoint ID of the remote ONTAP storage system communicating with the Element storage cluster.	integer	None	Yes
vserver	The name of the Vserver.	string	None	Yes
name	The destination ONTAP volume name.	string	None	Yes
type	The volume type. Possible values: • rw: Read-write volume • ls: Load-sharing volume • dp: Data protection volume If no type is provided, the default type is dp.	string	None	No
aggregate	The containing ONTAP aggregate in which to create the volume. You can use ListSnapMirrorAggregates to get information about available ONTAP aggregates.	string	None	Yes
size	The size of the volume in bytes.	integer	None	Yes

Return values

This method has the following return values:

Name	Description	Type
snapMirrorVolume	Information about a SnapMirror volume.	snapMirrorVolume

New since version

10.1

DeleteSnapMirrorEndpoints

The Element web UI uses `DeleteSnapMirrorEndpoints` to delete one or more SnapMirror endpoints from the system.

Parameter

This method has the following input parameter:

Name	Description	Type	Default value	Required
snapMirrorEndpointIDs	An array of IDs of SnapMirror endpoints to delete.	integer array	None	Yes

Return values

This method has no return values.

New since version

10.0

DeleteSnapMirrorRelationships

The Element web UI uses the `DeleteSnapMirrorRelationships` method to remove one or more SnapMirror relationships between a source and destination endpoint.

Parameters

This method has the following input parameters:

Name	Description	Type	Default value	Required
snapMirrorEndpointID	The endpoint ID of the remote ONTAP storage system communicating with the Element storage cluster.	integer	None	Yes
destinationVolumes	The destination volume or volumes in the SnapMirror relationship.	snapMirrorVolumeInfo array	None	Yes

Return values

This method has the following return values:

Name	Description	Type
result	If the delete action succeeded, this object contains a success message. If the action failed, it contains an error message.	JSON object

New since version

10.1

GetOntapVersionInfo

The Element web UI uses `GetOntapVersionInfo` to get information about API version support from the ONTAP cluster in a SnapMirror relationship.

Parameter

This method has the following input parameter:

Name	Description	Type	Default value	Required
snapMirrorEndpointID	If provided, the system lists the version information from the endpoint with the specified snapMirrorEndpointID. If not provided, the system lists the version information of all known SnapMirror endpoints.	integer	None	No

Return value

This method has the following return value:

Name	Description	Type
ontapVersionInfo	The software version information of the ONTAP endpoint.	ontapVersionInfo array

New since version

10.1

GetSnapMirrorClusterIdentity

The Element software web UI uses `GetSnapMirrorClusterIdentity` to get identity information about the ONTAP cluster.

Parameter

This method has the following input parameter:

Name	Description	Type	Default value	Required
snapMirrorEndpointID	If provided, the system lists the cluster identity of the endpoint with the specified snapMirrorEndpointID. If not provided, the system lists the cluster identity of all known SnapMirror endpoints.	integer	None	No

Return value

This method has the following return value:

Name	Description	Type
snapMirrorClusterIdentity	A list of cluster identities of SnapMirror endpoints.	snapMirrorClusterIdentity array

New since version

10.1

InitializeSnapMirrorRelationship

The Element software web UI uses the `InitializeSnapMirrorRelationship` method to initialize the destination volume in a SnapMirror relationship by performing an initial baseline transfer between clusters.

Parameters

This method has the following input parameters:

Name	Description	Type	Default value	Required
snapMirrorEndpointID	The ID of the remote ONTAP system.	integer	None	Yes
destinationVolume	The destination volume in the SnapMirror relationship.	snapMirrorVolumeInfo	None	Yes
maxTransferRate	Specifies the maximum data transfer rate between the volumes in kilobytes per second. The default value, 0, is unlimited and permits the SnapMirror relationship to fully utilize the available network bandwidth.	integer	None	No

Return value

This method has the following return value:

Name	Description	Type
snapMirrorRelationship	Information about the initialized SnapMirror relationship.	snapMirrorRelationship

New since version

10.1

ListSnapMirrorAggregates

The Element software web UI uses the `ListSnapMirrorAggregates` method to list all SnapMirror aggregates that are available on the remote ONTAP system. An aggregate describes a set of physical storage resources.

Parameter

This method has the following input parameter:

Name	Description	Type	Default value	Required
snapMirrorEndpointID	Return only the aggregates associated with the specified endpoint ID. If no endpoint ID is provided, the system lists aggregates from all known SnapMirror endpoints.	integer	None	No

Return value

This method has the following return value:

Name	Description	Type
snapMirrorAggregates	A list of the aggregates available on the ONTAP storage system.	snapMirrorAggregate array

New since version

10.1

ListSnapMirrorEndpoints

The Element software web UI uses the `ListSnapMirrorEndpoints` method to list all SnapMirror endpoints that the Element storage cluster is communicating with.

Parameter

This method has the following input parameter:

Name	Description	Type	Default value	Required
snapMirrorEndpointIDs	Return only the objects associated with these IDs. If no IDs are provided or the array is empty, the method returns all SnapMirror endpoint IDs.	integer array	None	No

Return value

This method has the following return value:

Name	Description	Type
snapMirrorEndpoints	A list of existing SnapMirror endpoints.	snapMirrorEndpoint array

New since version

10.0

ListSnapMirrorLuns

The Element software web UI uses the `ListSnapMirrorLuns` method to list the LUN information for the SnapMirror relationship from the remote ONTAP cluster.

Parameters

This method has the following input parameters:

Name	Description	Type	Default value	Required
snapMirrorEndpointID	List only the LUN information associated with the specified endpoint ID.	integer	None	Yes
destinationVolume	The destination volume in the SnapMirror relationship.	snapMirrorVolumeInfo	None	Yes

Return values

This method has the following return values:

Name	Description	Type
snapMirrorLunInfos	A list of objects containing information about SnapMirror LUNs.	snapMirrorLunInfo array

New since version

10.1

ListSnapMirrorNetworkInterfaces

The Element software web UI uses the `ListSnapMirrorNetworkInterfaces` method to list all available SnapMirror interfaces on a remote ONTAP system.

Parameter

This method has the following input parameters:

Name	Description	Type	Default value	Required
snapMirrorEndpointID	Return only the network interfaces associated with the specified endpoint ID. If no endpoint ID is provided, the system lists interfaces from all known SnapMirror endpoints.	integer	None	No

Name	Description	Type	Default value	Required
interfaceRole	List only the network interface serving the specified role.	string	None	No

Return value

This method has the following return value:

Name	Description	Type
snapMirrorNetworkInterfaces	A list of the SnapMirror network interfaces available on the remote ONTAP storage system.	snapMirrornetworkInterface array

New since version

10.1

ListSnapMirrorNodes

The Element software web UI uses the `ListSnapMirrorNodes` method to get a list of nodes in a remote ONTAP cluster.

Parameter

This method has the following input parameter:

Name	Description	Type	Default value	Required
snapMirrorEndpointID	If provided, the system lists the nodes of the endpoint with the specified snapMirrorEndpointID. If not provided, the system lists the nodes of all known SnapMirror endpoints.	integer	None	No

Return value

This method has the following return value:

Name	Description	Type
snapMirrorNodes	A list of the nodes on the ONTAP cluster.	snapMirrorNode array

New since version

10.1

ListSnapMirrorPolicies

The Element software web UI uses the `ListSnapMirrorPolicies` method to list all SnapMirror policies on a remote ONTAP system.

Parameter

This method has the following input parameter:

Name	Description	Type	Default value	Required
snapMirrorEndpointID	List only the policies associated with the specified endpoint ID. If no endpoint ID is provided, the system lists policies from all known SnapMirror endpoints.	integer	None	No

Return value

This method has the following return value:

Name	Description	Type
snapMirrorPolicies	A list of the SnapMirror policies on the ONTAP storage system.	snapMirrorPolicy array

New since version

10.1

ListSnapMirrorSchedules

The Element software web UI uses the `ListSnapMirrorSchedules` method to get a list of schedules that are available on a remote ONTAP cluster.

Parameter

This method has the following input parameter:

Name	Description	Type	Default value	Required
snapMirrorEndpointID	If provided, the system lists the schedules of the endpoint with the specified SnapMirror endpoint ID. If not provided, the system lists the schedules of all known SnapMirror endpoints.	integer	None	No

Return value

This method has the following return value:

Name	Description	Type
snapMirrorSchedules	A list of the SnapMirror schedules on the remote ONTAP cluster.	snapMirrorJobScheduleCronInfo array

New since version

10.1

ListSnapMirrorRelationships

The Element software web UI uses the `ListSnapMirrorRelationships` method to list one or all SnapMirror relationships on an Element storage cluster.

Parameters

This method has the following input parameters:

Name	Description	Type	Default value	Required
snapMirrorEndpointID	List only the relationships associated with the specified endpoint ID. If no endpoint ID is provided, the system lists relationships from all known SnapMirror endpoints.	integer	None	No
destinationVolume	List relationships associated with the specified destination volume.	snapMirrorVolumeInfo	None	No
sourceVolume	List relationships associated with the specified source volume.	snapMirrorVolumeInfo	None	No
vserver	List relationships on the specified Vserver.	string	None	No
relationshipID	List relationships associated with the specified relationship ID.	string	None	No

Return value

This method has the following return value:

Name	Description	Type
snapMirrorRelationships	A list of objects containing information about SnapMirror relationships.	snapMirrorRelationship array

New since version

10.1

ListSnapMirrorVolumes

The Element software web UI uses the `ListSnapMirrorVolumes` method to list all

SnapMirror volumes available on a remote ONTAP system.

Parameter

This method has the following input parameter:

Name	Description	Type	Default value	Required
snapMirrorEndpointID	List only the volumes associated with the specified endpoint ID. If no endpoint ID is provided, the system lists volumes from all known SnapMirror endpoints.	integer	None	No
vserver	List volumes hosted on the specified Vserver. The Vserver must be of type "data".	string	None	No
name	List only ONTAP volumes with the specified name.	string	None	No
type	List only ONTAP volumes of the specified type. Possible values: • rw: Read-write volumes • ls: Load-sharing volumes • dp: Data protection volumes	string	None	No

Return value

This method has the following return value:

Name	Description	Type

snapMirrorVolumes	A list of the SnapMirror volumes available on the ONTAP storage system.	snapMirrorVolume array

New since version

10.1

ListSnapMirrorVservers

The Element software web UI uses the `ListSnapMirrorVservers` method to list all SnapMirror Vservers available on a remote ONTAP system.

Parameter

This method has the following input parameter:

Name	Description	Type	Default value	Required
snapMirrorEndpointID	List only the Vservers associated with the specified endpoint ID. If no endpoint ID is provided, the system lists Vservers from all known SnapMirror endpoints.	integer	None	No
vserverType	List only Vservers of the specified type. Possible values: • admin • data • node • system	string	None	No
vserverName	List only Vservers with the specified name.	string	None	No

Return value

This method has the following return value:

Name	Description	Type
snapMirrorVservers	A list of the SnapMirror Vservers available on the ONTAP storage system.	snapMirrorVserver array

New since version

10.1

ModifySnapMirrorEndpoint

The Element software web UI uses the `ModifySnapMirrorEndpoint` method to change the name and management attributes for a SnapMirror endpoint.

Parameters

This method has the following input parameters:

Name	Description	Type	Default value	Required
SnapMirrorEndpointID	The SnapMirror endpoint to modify.	integer	None	Yes
managementIP	The new management IP Address for the ONTAP system.	string	None	No
username	The new management user name for the ONTAP system.	string	None	No
password	The new management password for the ONTAP system.	string	None	No

Return value

This method has the following return value:

Name	Description	Type
snapMirrorEndpoint	Information about the modified SnapMirror endpoint.	snapMirrorEndpoint

New since version

10.0

ModifySnapMirrorEndpoint (unmanaged)

Element software uses this version of the `ModifySnapMirrorEndpoint` method to modify the storage cluster name or IP address attributes for an unmanaged SnapMirror endpoint. Unmanaged endpoints cannot be administered using the Element SnapMirror APIs. They must be managed with ONTAP management software or APIs.

Parameters

This method has the following input parameters:

Name	Description	Type	Default value	Required
SnapMirrorEndpointID	The SnapMirror endpoint to modify.	integer	None	Yes
clusterName	The new name of the endpoint.	string	None	No
ipAddresses	The new list of IP addresses for a cluster of ONTAP storage systems that should communicate with this Element storage cluster.	string array	None	No

Return value

This method has the following return value:

Name	Description	Type
snapMirrorEndpoint	Information about the modified SnapMirror endpoint.	snapMirrorEndpoint

New since version

10.3

ModifySnapMirrorRelationship

You can use `ModifySnapMirrorRelationship` to change the intervals at which a scheduled snapshot occurs. You can also delete or pause a schedule by using this

method.

Parameters

This method has the following input parameters:

Name	Description	Type	Default value	Required
destinationVolume	The destination volume in the SnapMirror relationship.	snapMirrorVolumeinfo	None	Yes
maxTransferRate	Specifies the maximum data transfer rate between the volumes in kilobytes per second. The default value, 0, is unlimited and permits the SnapMirror relationship to fully utilize the available network bandwidth.	integer	None	No
policyName	Specifies the name of the ONTAP SnapMirror policy for the relationship.	string	None	No
scheduleName	The name of the pre-existing cron schedule on the ONTAP system that is used to update the SnapMirror relationship.	string	None	No
snapMirrorEndpointID	The endpoint ID of the remote ONTAP storage system communicating with the Element storage cluster.	integer	None	Yes

Return value

This method has the following return value:

Name	Description	Type
snapMirrorRelationship	An object containing the modified SnapMirror relationship attributes.	snapMirrorRelationship

New since version

10.1

UpdateSnapMirrorRelationship

The Element software web UI uses the `UpdateSnapMirrorRelationship` method to make the destination volume in a SnapMirror relationship an up-to-date mirror of the source volume.

Parameters

This method has the following input parameters:

Name	Description	Type	Default value	Required
snapMirrorEndpointID	The endpoint ID of the remote ONTAP storage system communicating with the Element storage cluster.	integer	None	Yes
destinationVolume	The destination volume in the SnapMirror relationship.	snapMirrorVolumeinfo	None	Yes
maxTransferRate	Specifies the maximum data transfer rate between the volumes in kilobytes per second. The default value, 0, is unlimited and permits the SnapMirror relationship to fully utilize the available network bandwidth.	integer	None	No

Return value

This method has the following return value:

Name	Description	Type
snapMirrorRelationship	An object containing information about the updated SnapMirror relationship.	snapMirrorRelationship

New since version

10.1

QuiesceSnapMirrorRelationship

The Element software web UI uses the `QuiesceSnapMirrorRelationship` method to disable future data transfers for a SnapMirror relationship. If a transfer is in progress, the relationship status becomes "quiescing" until the transfer is complete. If the current transfer is aborted, it will not restart. You can reenable data transfers for the relationship using the `ResumeSnapMirrorRelationship` API method.

Parameters

This method has the following input parameters:

Name	Description	Type	Default value	Required
snapMirrorEndpointID	The endpoint ID of the remote ONTAP storage system communicating with the Element storage cluster.	integer	None	Yes
destinationVolume	The destination volume in the SnapMirror relationship.	snapMirrorVolumeinfo	None	Yes

Return value

This method has the following return value:

Name	Description	Type
snapMirrorRelationship	An object containing information about the quiesced SnapMirror relationship.	snapMirrorRelationship

New since version

10.1

ResumeSnapMirrorRelationship

The Element software web UI uses the `ResumeSnapMirrorRelationship` method to enable future transfers for a quiesced SnapMirror relationship.

Parameters

This method has the following input parameters:

Name	Description	Type	Default value	Required
snapMirrorEndpointID	The endpoint ID of the remote ONTAP storage system communicating with the Element storage cluster.	integer	None	Yes
destinationVolume	The destination volume in the SnapMirror relationship.	snapMirrorVolumeinfo	None	Yes

Return value

This method has the following return value:

Name	Description	Type
snapMirrorRelationship	An object containing information about the resumed SnapMirror relationship.	snapMirrorRelationship

New since version

10.1

ResyncSnapMirrorRelationship

The Element software web UI uses the `ResyncSnapMirrorRelationship` method to establish or reestablish a mirror relationship between a source and destination endpoint. When you resync a relationship, the system removes snapshots on the destination volume that are newer than the common snapshot copy, and then mounts the destination volume as a data protection volume with the common snapshot copy as the exported snapshot copy.

Parameters

This method has the following input parameters:

Name	Description	Type	Default value	Required
snapMirrorEndpointID	The endpoint ID of the remote ONTAP storage system communicating with the Element storage cluster.	integer	None	Yes
destinationVolume	The destination volume in the SnapMirror relationship.	snapMirrorVolumeinfo	None	Yes
maxTransferRate	Specifies the maximum data transfer rate between the volumes in kilobytes per second. The default value, 0, is unlimited and permits the SnapMirror relationship to fully utilize the available network bandwidth.	integer	None	No
sourceVolume	The source volume in the SnapMirror relationship.	snapMirrorVolumeinfo	None	No

Return value

This method has the following return value:

Name	Description	Type
snapMirrorRelationship	An object containing information about the resynced SnapMirror relationship.	snapMirrorRelationship

New since version

10.1

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