



# **How a FlexVol volume can reclaim free space with autodelete setting**

**ONTAP 9**

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# Table of Contents

- How a FlexVol volume can reclaim free space with autodelete setting ..... 1
  - FlexVol volumes and reclaiming free space with autodelete overview ..... 1
  - Configure a FlexVol volume to automatically delete FlexClone files and FlexClone LUNs ..... 1
  - Prevent automatic deletion of a FlexClone file or FlexClone LUN ..... 4
  - Commands for configuring deletion of FlexClone files ..... 5

# How a FlexVol volume can reclaim free space with autodelete setting

## FlexVol volumes and reclaiming free space with autodelete overview

You can enable the autodelete setting of a FlexVol volume to automatically delete FlexClone files and FlexClone LUNs. By enabling autodelete, you can reclaim a target amount of free space in the volume when a volume is nearly full.

You can configure a volume to automatically start deleting FlexClone files and FlexClone LUNs when the free space in the volume decreases below a particular threshold value, and automatically stop deleting clones when a target amount of free space in the volume is reclaimed. Although, you cannot specify the threshold value that starts the automatic deletion of clones, you can specify whether a clone is eligible for deletion, and you can specify the target amount of free space for a volume.

A volume automatically deletes FlexClone files and FlexClone LUNs when the free space in the volume decreases below a particular threshold and when *both* of the following requirements are met:

- The autodelete capability is enabled for the volume that contains the FlexClone files and FlexClone LUNs.

You can enable the autodelete capability for a FlexVol volume by using the `volume snapshot autodelete modify` command. You must set the `-trigger` parameter to `volume` or `snap_reserve` for a volume to automatically delete FlexClone files and FlexClone LUNs. Learn more about `volume snapshot autodelete modify` in the [ONTAP command reference](#).

- The autodelete capability is enabled for the FlexClone files and FlexClone LUNs.

You can enable autodelete for a FlexClone file or FlexClone LUN by using the `file clone create` command with the `-autodelete` parameter. As a result, you can preserve certain FlexClone files and FlexClone LUNs by disabling autodelete for the clones and ensuring that other volume settings do not override the clone setting. Learn more about `file clone create` in the [ONTAP command reference](#).

## Configure a FlexVol volume to automatically delete FlexClone files and FlexClone LUNs

You can configure a volume to automatically start deleting FlexClone files and FlexClone LUNs when the free space in the volume decreases below a particular threshold value, and automatically stop deleting clones when a target amount of free space in the volume is reclaimed. Although, you cannot specify the threshold value that starts the automatic deletion of clones, you can specify whether a clone is eligible for deletion, and you can specify the target amount of free space for a volume.

A volume automatically deletes FlexClone files and FlexClone LUNs when the free space in the volume decreases below a particular threshold and when *both* of the following requirements are met:

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You can enable the autodelete capability for a FlexVol volume by using the `volume snapshot autodelete modify` command. You must set the `-trigger` parameter to `volume` or `snap_reserve` for a volume to automatically delete FlexClone files and FlexClone LUNs.

- The autodelete capability is enabled for the FlexClone files and FlexClone LUNs.

You can enable autodelete for a FlexClone file or FlexClone LUN by using the `file clone create` command with the `-autodelete` parameter. As a result, you can preserve certain FlexClone files and FlexClone LUNs by disabling autodelete for the clones and ensuring that other volume settings do not override the clone setting.

### Before you begin

- The FlexVol volume must contain FlexClone files and FlexClone LUNs, and be online.
- The FlexVol volume must not be a read-only volume.

### Steps

1. Enable automatic deletion of FlexClone files and FlexClone LUNs in the FlexVol volume by using the `volume snapshot autodelete modify` command. Learn more about `volume snapshot autodelete modify` in the [ONTAP command reference](#).
  - For the `-trigger` parameter, you can specify `volume` or `snap_reserve`.
  - For the `-destroy-list` parameter, you must always specify `lun_clone`, `file_clone` regardless of whether you want to delete only one type of clone. The following example shows how you can enable volume `vol1` to trigger the automatic deletion of FlexClone files and FlexClone LUNs for space reclamation until 25% of the volume consists of free space:

```
cluster1::> volume snapshot autodelete modify -vserver vs1 -volume  
vol1 -enabled true -commitment disrupt -trigger volume -target-free  
-space 25 -destroy-list lun_clone,file_clone
```

```
Volume modify successful on volume:vol1
```



While enabling FlexVol volumes for automatic deletion, if you set the value of the `-commitment` parameter to `destroy`, all the FlexClone files and FlexClone LUNs with the `-autodelete` parameter set to `true` might be deleted when the free space in the volume decreases below the specified threshold value. However, FlexClone files and FlexClone LUNs with the `-autodelete` parameter set to `false` will not be deleted.

2. Verify that automatic deletion of FlexClone files and FlexClone LUNs is enabled in the FlexVol volume by using the `volume snapshot autodelete show` command. Learn more about `volume snapshot autodelete show` in the [ONTAP command reference](#).

The following example shows that volume `vol1` is enabled for automatic deletion of FlexClone files and FlexClone LUNs:

```
cluster1::> volume snapshot autodelete show -vserver vs1 -volume vol1

Vserver Name: vs1
Volume Name: vol1
Enabled: true
Commitment: disrupt
Defer Delete: user_created
Delete Order: oldest_first
Defer Delete Prefix: (not specified)
Target Free Space: 25%
Trigger: volume
*Destroy List: lun_clone,file_clone*
Is Constituent Volume: false
```

3. Ensure that autodelete is enabled for the FlexClone files and FlexClone LUNs in the volume that you want to delete by performing the following steps:

- a. Enable automatic deletion of a particular FlexClone file or FlexClone LUN by using the `volume file clone autodelete` command. Learn more about `volume file clone autodelete` in the [ONTAP command reference](#).

You can force a specific FlexClone file or FlexClone LUN to be automatically deleted by using the `volume file clone autodelete` command with the `-force` parameter.

The following example shows that automatic deletion of the FlexClone LUN `lun1_clone` contained in volume `vol1` is enabled:

```
cluster1::> volume file clone autodelete -vserver vs1 -clone-path
/vol/vol1/lun1_clone -enabled true
```

You can enable autodelete when you create FlexClone files and FlexClone LUNs.

- b. Verify that the FlexClone file or FlexClone LUN is enabled for automatic deletion by using the `volume file clone show-autodelete` command. Learn more about `volume file clone show-autodelete` in the [ONTAP command reference](#).

The following example shows that the FlexClone LUN `lun1_clone` is enabled for automatic deletion:

```
cluster1::> volume file clone show-autodelete -vserver vs1 -clone
-path vol/vol1/lun1_clone
Vserver Name: vs1
Clone Path: vol/vol1/lun1_clone
**Autodelete Enabled: true**
```

Learn more about the commands described in this procedure in the [ONTAP command reference](#).

# Prevent automatic deletion of a FlexClone file or FlexClone LUN

If you configure a FlexVol volume to automatically delete FlexClone files and FlexClone LUNs, any clone that fits the criteria you specify might be deleted. If you have specific FlexClone files or FlexClone LUNs that you want to preserve, you can exclude them from the automatic FlexClone deletion process.

## Before you begin

A FlexClone license must be installed. This license is included with [ONTAP One](#).

## About this task

When you create a FlexClone file or FlexClone LUN, by default the autodelete setting for the clone is disabled. FlexClone files and FlexClone LUNs with autodelete disabled are preserved when you configure a FlexVol volume to automatically delete clones to reclaim space on the volume.



If you set the `commitment` level on the volume to `try` or `disrupt`, you can individually preserve specific FlexClone files or FlexClone LUNs by disabling autodelete for those clones. However, if you set the `commitment` level on the volume to `destroy` and the destroy lists include `lun_clone`, `file_clone`, the volume setting overrides the clone setting, and all FlexClone files and FlexClone LUNs can be deleted regardless of the autodelete setting for the clones.

## Steps

1. Prevent a specific FlexClone file or FlexClone LUN from being automatically deleted by using the `volume file clone autodelete` command.

The following example shows how you can disable autodelete for FlexClone LUN `lun1_clone` contained in `vol1`:

```
cluster1::> volume file clone autodelete -vserver vs1 -volume vol1
-clone-path lun1_clone -enable false
```

A FlexClone file or FlexClone LUN with autodelete disabled cannot be deleted automatically to reclaim space on the volume.

2. Verify that autodelete is disabled for the FlexClone file or FlexClone LUN by using the `volume file clone show-autodelete` command.

The following example shows that autodelete is false for the FlexClone LUN `lun1_clone`:

```
cluster1::> volume file clone show-autodelete -vserver vs1 -clone-path
vol/vol1/lun1_clone
```

	Vserver
Name: vs1	
	Clone Path:
vol/vol1/lun1_clone	
	Autodelete
Enabled: false	

## Commands for configuring deletion of FlexClone files

When clients delete FlexClone files without using the NetApp Manageability SDK, you can use the `volume file clone deletion` commands to enable faster deletion of FlexClone files from a FlexVol volume. Extensions for and minimum size of FlexClone files are used to enable faster deletion.

You can use the `volume file clone deletion` commands to specify a list of supported extensions and a minimum size requirement for FlexClone files in a volume. The faster deletion method is used only for FlexClone files that meet the requirements. For FlexClone files that do not meet the requirements, the slower deletion method is used.

When clients delete FlexClone files and FlexClone LUNs from a volume by using the NetApp Manageability SDK, the extension and size requirements do not apply because the faster deletion method is always used.

To...	Use this command...
Add an extension to the supported list of extensions for the volume	<code>volume file clone deletion add-extension</code>
Change the minimum size of FlexClone files that can be deleted from the volume by using the faster deletion method	<code>volume file clone deletion modify</code>
Remove an extension from the supported list of extensions for the volume	<code>volume file clone deletion remove-extension</code>
View the supported list of extensions and the minimum size of FlexClone files that clients can delete from the volume by using the faster deletion method	<code>volume file clone deletion show</code>

Learn more about the commands described in this procedure in the [ONTAP command reference](#).

### Related information

- [volume file clone deletion](#)

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