



# **Monitor volume efficiency operations**

**ONTAP 9**

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# Monitor volume efficiency operations

## View the status of efficiency operations

You can view whether deduplication or data compression is enabled on a volume. You can also view the status, state, type of compression, and progress of the efficiency operations on a volume by using the `volume efficiency show` command.

### Step

1. Use the `volume efficiency show` command to view the status of an efficiency operation on a volume.

The following command displays the status of an efficiency operation on volume VolA that is assigned the adaptive compression type:

```
volume efficiency show -instance -vserver vs1 -volume VolA
```

If the efficiency operation is enabled on volume VolA and the operation is idle, then you can see the following in the system output:

```
cluster1::> volume efficiency show -vserver vs1 -volume VolA

Vserver Name: vs1
Volume Name: VolA
Volume Path: /vol/VolA
      State: Enabled
      Status: Idle
      Progress: Idle for 00:03:20
```

## View efficiency space savings

You can view the amount of space savings achieved through deduplication and data compression on a volume by using the `volume show` command.

### About this task

The space savings in Snapshot copies are not included when calculating the space savings achieved on a volume. Using deduplication does not affect volume quotas. Quotas are reported at the logical level, and remain unchanged.

### Step

1. Use the `volume show` command to view space savings achieved on a volume using deduplication and data compression.

### Example

The following command enables you to view the space savings achieved by using deduplication and data compression on volume VolA: `volume show -vserver vs1 -volume VolA`

```
cluster1::> volume show -vserver vs1 -volume VolA

Vserver Name: vs1
Volume Name: VolA

...

Space Saved by Storage Efficiency: 115812B
Percentage Saved by Storage Efficiency: 97%
Space Saved by Deduplication: 13728B
Percentage Saved by Deduplication: 81%
Space Shared by Deduplication: 1028B
Space Saved by Compression: 102084B
Percentage Space Saved by Compression: 97%

...
```

## View efficiency statistics of a FlexVol volume

You can view the details of the efficiency operations run on a FlexVol volume by using the `volume efficiency stat` command.

### Step

1. Use the `volume efficiency stat` command to view the statistics of efficiency operations on a FlexVol volume.

### Example

The following command enables you to view the statistics of the efficiency operations on the volume VolA:

```
volume efficiency stat -vserver vs1 -volume VolA
```

```
cluster1::> volume efficiency stat -vserver vs1 -volume VolA

Vserver Name: vs1
Volume Name: VolA
Volume Path: /vol/VolA
Inline Compression Attempts: 0
```

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