



Manage snapshot reserve

ASA r2

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Manage snapshot reserve

Learn about ONTAP snapshot reserve on ASA r2 storage

The snapshot reserve is the amount of space in the storage unit reserved specifically for snapshots. When snapshot reserve is set with automatic snapshot deletion, older snapshots are automatically deleted when space used by snapshots exceeds the snapshot reserve. This prevents snapshots from consuming space in your storage unit intended for user data.

Snapshot reserve is set as a percentage of the total storage unit size. For example, if the storage unit is 50 GB and you set the snapshot reserve to 10%, the amount of space reserved for snapshots is 5 GB. When the amount of space used by snapshots grows to 5 GB, older snapshots are automatically deleted to make room for new snapshots. If the storage unit size increases to 100 GB, then the snapshot reserve increases to 10 GB. The maximum snapshot reserve you can set is 200%. If your storage unit grows to the maximum size of 128 TB, a 200% snapshot reserve allows you to take 2 complete snapshots.

By default, snapshot reserve is set to 0% and snapshot auto-delete is not enabled.

Beginning with ONTAP 9.18.1, you can modify the default snapshot reserve during or after the creation of storage units and during the creation of consistency groups. You can also modify the default snapshot reserve on existing storage virtual machines (VMs). In ONTAP 9.17.1 and earlier, you cannot modify these settings.

Snapshot reserve is set to the same percentage for all storage units in a consistency group at the time the consistency group is created. Snapshot reserve must be individually set on any storage units added later.

Modify snapshot reserve on an ASA r2 storage system

The snapshot reserve is the amount of space in the storage unit reserved specifically for snapshots. By default, snapshot reserve is set to 0%. Beginning with ONTAP 9.18.1, you can modify the storage unit's default snapshot reserve and enable automatic snapshot deletion. Automatic deletion of snapshots is disabled by default. When a snapshot reserve value is set and automatic snapshot deletion is enabled, older snapshots are automatically deleted when space used by snapshots exceeds the snapshot reserve. This prevents snapshots from consuming space in your storage unit intended for user data.

[Learn more about snapshot reserve on ASA r2 storage systems.](#)

Modify snapshot reserve on storage units

To set different snapshot reserve values, configure each storage unit individually. To use the same value for all storage units, modify the snapshot reserve on the storage VM.

Steps

1. In System Manager, select **Storage**.
2. Hover over the name of the storage unit for which you want to set the snapshot reserve.
3. Select , then select **Edit**.

4. Under **Snapshot reserve %**, enter the numeric value for the percentage of the storage unit's space that you want allocated to snapshots.
5. Verify that **Automatically delete older snapshots** is selected.
6. Select **Save**.

Result

The snapshot reserve is set to the percentage you specified. If the amount of space consumed by snapshots reaches the reserve, older snapshots are automatically deleted.

Modify snapshot reserve on a storage VM

To set the same snapshot reserve for all storage units in a storage VM, apply the desired percentage to the storage VM. . When snapshot reserve is applied to the storage VM, it is applied to all newly created storage units within the storage VM. It is not applied to storage units created before you modified the setting.

Steps

1. In System Manager, select **Cluster > Storage VMs**; then select **Settings**.
2. Under **Policies**, next to **Snapshots**, select ; then select **Set/edit snapshot reserve default**.
3. Under **Snapshot reserve %**, enter the numeric value for the percentage of the storage unit's space that you want allocated to snapshots.
4. Verify that **Automatically delete older snapshots** is selected.
5. Select **Save**.

Result

The snapshot reserve for newly created storage units is set to the percentage you specified. If the amount of space consumed by snapshots in those storage units reaches the reserve, older snapshots are automatically deleted.

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