



## Manage QoS policy groups

System Manager Classic

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# Manage QoS policy groups with System Manager - ONTAP 9.7 and earlier

You can use ONTAP System Manager classic (available in ONTAP 9.7 and earlier) to create storage Quality of Service (QoS) policy groups to limit the throughput of workloads and to monitor workload performance.

## Create QoS policy groups

### Steps

1. Click **Storage > SVMs**.
2. Select the SVM, and then click **SVM Settings**.
3. In the **Policies** pane, click **QoS Policy Groups**.
4. In the **QoS Policy Groups** window, click **Create**.
5. In the **Create Policy Group** dialog box, specify a group name for the policy.
6. Specify the minimum throughput limit.
  - In System Manager 9.5, you can set the minimum throughput limit only on a performance-based All Flash Optimized personality. In System Manager 9.6, you can also set the minimum throughput limit for ONTAP Select Premium systems.
  - You cannot set the minimum throughput limit for volumes on a FabricPool-enabled aggregate.
  - If you do not specify the minimum throughput value or if the minimum throughput value is set to 0, the system automatically displays “None” as the value.

This value is case-sensitive.
7. Specify the maximum throughput limit.
  - The minimum throughput limit and the maximum throughput limit must be of the same unit type.
  - If you do not specify the minimum throughput limit, you can set the maximum throughput limit in IOPS and B/s, KB/s, MB/s, and so on.
  - If you do not specify the maximum throughput limit, the system automatically displays “Unlimited” as the value.

This value is case-sensitive. The unit that you specify does not affect the maximum throughput.
8. Click **OK**.

## Delete QoS policy groups

You can use ONTAP System Manager classic (available in ONTAP 9.7 and earlier) to delete a Storage Quality of Service (QoS) policy group that is no longer required.

### Before you begin

You must have unassigned all of the storage objects that are assigned to the policy group.

### Steps

1. Click **Storage > SVMs**.
2. Select the SVM, and then click **SVM Settings**.
3. In the **Policies** pane, click **QoS Policy Groups**.
4. In the **QoS Policy Groups** window, select the policy group that you want to delete, and then click **Delete**.
5. In the confirmation dialog box, click **Delete**.

## Edit QoS policy groups

You can use the Edit Policy Group dialog box in ONTAP System Manager classic (available in ONTAP 9.7 and earlier) to modify the name and maximum throughput of an existing storage Quality of Service (QoS) policy group.

### About this task

- In System Manager 9.5, you can set the minimum throughput limit only on a performance-based All Flash Optimized personality. In System Manager 9.6, you can also set the minimum throughput limit for ONTAP Select Premium systems.
- You cannot set the minimum throughput limit for volumes on a FabricPool-enabled aggregate.

### Steps

1. Click **Storage > SVMs**.
2. Select the SVM, and then click **SVM Settings**.
3. In the **Policies** pane, click **QoS Policy Groups**.
4. Select the QoS policy group that you want to edit, and then click **Edit**.
  - The minimum throughput limit and the maximum throughput limit must be of the same unit type.
  - If you do not specify the minimum throughput limit, you can set the maximum throughput limit in IOPS and B/s, KB/s, MB/s, and so on.
  - If you do not specify the maximum throughput limit, the value is set to unlimited, and the unit that you specify does not affect the maximum throughput.
5. In the **Edit Policy Group** dialog box, edit the QoS policy group details, and then click **Save**.

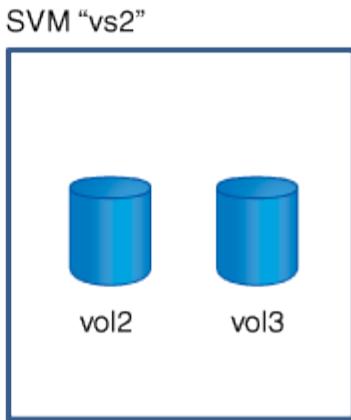
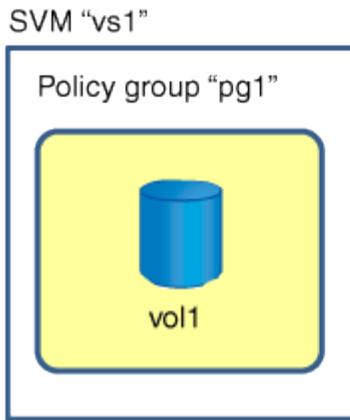
## Rules for assigning storage objects to policy groups

You should be aware of rules that dictate how you can assign storage objects to Storage QoS policy groups.

### Storage objects and policy groups must belong to the same SVM

A storage object must be contained by the SVM to which the policy group belongs. You specify the SVM to which the policy group belongs when you create the policy group. Multiple policy groups can belong to the same SVM.

In the following illustration, the policy group pg1 belongs to SVM vs1. You cannot assign volumes vol2 or vol3 to policy group pg1 because those volumes are contained by a different SVM.

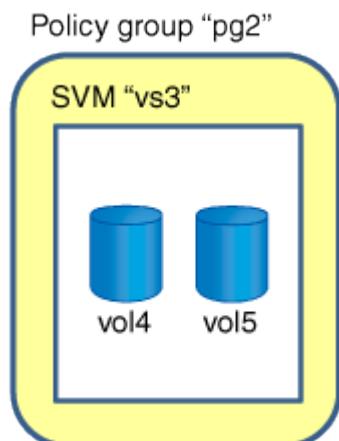


## Nested storage objects cannot belong to policy groups

You cannot assign a storage object to a policy group if its containing object or its child objects belong to a policy group. The following table lists the restrictions.

If you assign the...	Then you cannot assign...
SVM to a policy group	Any storage objects contained by the SVM to a policy group
Volume to a policy group	The volume's containing SVM or any child LUNs to a policy group
LUN to a policy group	The LUN's containing volume or SVM to a policy group
File to a policy group	The file's containing volume or SVM to a policy group

In the following illustration, the SVM vs3 is assigned to policy group pg2. You cannot assign volumes vol4 or vol5 to a policy group because an object in the storage hierarchy (SVM vs3) is assigned to a policy group.



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