



# **Efficiency policies**

## **System Manager Classic**

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# Efficiency policies

You can use System Manager to create, edit, and delete efficiency policies.

## Add efficiency policies

You can use System Manager to add efficiency policies for running the deduplication operation on a volume on a specified schedule or when the change in volume data reaches a specified threshold value.

### Steps

1. Click **Storage > SVMs**.
2. Select the SVM, and then click **SVM Settings**.
3. In the **Policies** pane, click **Efficiency Policies**.
4. Click **Add**, and then specify the policy name.
5. Specify how the storage efficiency policy should be run:
  - Select **Schedule**, and specify the schedule name and the schedule details.

You can specify the maximum run-time duration of the efficiency policy, if required.
  - Select **ChangeLog Threshold**, and specify the threshold value (in percent) for the change in volume data.
6. Select the **Set QoS policy to background** check box to reduce performance impact on client operations.
7. Click **Add**.

## Editing efficiency policies

You can use System Manager to modify the attributes of an efficiency policy such as the policy name, schedule name, and maximum runtime.

### Steps

1. Click **Storage > SVMs**.
2. Select the SVM, and then click **SVM Settings**.
3. In the **Policies** pane, click **Efficiency Policies**.
4. In the **Efficiency Policies** window, select the policy that you want to edit, and then click **Edit**.
5. In the **Edit Efficiency Policy** dialog box, make the required changes.
6. Click **Save**.

## Deleting efficiency policies

You can use System Manager to delete an efficiency policy that is no longer required.

### Before you begin

The efficiency policy must be disabled.

### Steps

1. Click **Storage > SVMs**.
2. Select the SVM, and then click **SVM Settings**.
3. In the **Policies** pane, click **Efficiency Policies**.
4. Select the efficiency policy that you want to delete, and then click **Delete**.
5. Select the confirmation check box, and then click **Delete**.

## Enabling or disabling efficiency policies

You can use System Manager to enable or disable an efficiency policy.

### Steps

1. Click **Storage > SVMs**.
2. Select the SVM, and then click **SVM Settings**.
3. In the **Policies** pane, click **Efficiency Policies**.
4. Select one or more efficiency policies that you want to enable or disable.
5. Click **Status > Enable** or **Status > Disable**, as required.
6. If you are disabling an efficiency policy, select the confirmation check box, and then click **OK**.

## What an efficiency policy is

An efficiency policy is a job schedule for a deduplication operation on a FlexVol volume.

You can run deduplication on a FlexVol volume either by scheduling the operations to start at a specific time or by specifying that the operations are triggered if a threshold percentage is exceeded. You can schedule a deduplication operation by creating job schedules that are enclosed within the efficiency policies. The volume efficiency policies support only job schedules that are of type cron. Alternately, you can specify a threshold percentage. When new data exceeds the specified percentage, the deduplication operation is started.

## Understanding predefined efficiency policies

You can configure a volume with efficiency policies to achieve additional space savings. You can configure a volume to run inline compression without a scheduled or manually started background efficiency operation configured on the volume.

When you create an SVM, the following efficiency policies are created automatically and cannot be deleted:

- Default

You can configure a volume with the efficiency policy to run the scheduled deduplication operations on the volume.

- Inline-only

You can configure a volume with the inline-only efficiency policy and enable inline compression, to run inline compression on the volume without any scheduled or manually started background efficiency operations.

For more information about the inline-only and default efficiency policies, see the man pages.

## Efficiency Policies window

You can use the Efficiency Policies window to create, display, and manage information about efficiency policies.

### Command buttons

- **Add**

Opens the Add Efficiency Policy dialog box, which enables you to run a deduplication operation on a volume for a specified duration (schedule-based) or when the change in volume data reaches a specified threshold value (threshold-based).

- **Edit**

Opens the Edit Efficiency Policy dialog box, which enables you to modify the schedule, threshold value, QoS type, and maximum run time for a deduplication operation.

- **Delete**

Opens the Delete Efficiency Policy dialog box, which enables you to delete the selected efficiency policy.

- **Status**

Open a drop-down menu, which provides options to enable or disable the selected efficiency policy.

- **Refresh**

Updates the information in the window.

### Efficiency policies list

- **Policy**

Specifies the name of an efficiency policy.

- **Status**

Specifies the status of an efficiency policy. The status can be one of the following:

- Enabled

Specifies that the efficiency policy can be assigned to a deduplication operation.

- Disabled

Specifies that the efficiency policy is disabled. You can enable the policy by using the status drop-down menu and assign it later to a deduplication operation.

- **Run By**

Specifies whether the storage efficiency policy is run based on a schedule or based on a threshold value

(change log threshold).

- **QoS Policy**

Specifies the QoS type for the storage efficiency policy. The QoS type can be one of the following:

- **Background**

Specifies that the QoS policy is running in the background, which reduces potential performance impact on the client operations.

- **Best-effort**

Specifies that the QoS policy is running on a best-effort basis, which enables you to maximize the utilization of system resources.

- **Maximum Runtime**

Specifies the maximum run-time duration of an efficiency policy. If this value is not specified, the efficiency policy is run till the operation is complete.

## **Details area**

The area below the efficiency policy list displays additional information about the selected efficiency policy, including the schedule name and the schedule details for a schedule-based policy, and the threshold value for a threshold-based policy.

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