



Volume and LUN management with System Manager

ONTAP 9

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Table of Contents

- Volume and LUN management with System Manager 1
 - Volume administration overview with System Manager 1
 - Manage volumes 1
 - Add a volume 2
 - Add LUNs 5
 - Expand storage 7
 - Recover deleted volumes 8
 - Save storage space using compression, compaction, and deduplication 9
 - Balance loads by moving LUNs 10
 - Balance loads by moving volumes to another tier 10
 - Use Ansible Playbooks to add or edit volumes or LUNs 11
 - Manage storage efficiency policies 13
 - Manage resources using quotas 14
 - Set quotas to limit resource use 15
 - Clone volumes and LUNs for testing 15
 - Search, filter, and sort information in System Manager 16

Volume and LUN management with System Manager

Volume administration overview with System Manager

Beginning with ONTAP 9.7, you can use System Manager to manage logical storage, such as FlexVol volumes and LUNs, qtrees, storage efficiency, and quotas.

If you are using the classic System Manager (available only in ONTAP 9.7 and earlier), refer to [Managing logical storage](#)

Manage volumes

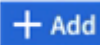



After you display a list of volumes in System Manager, you can perform various actions to manage the volumes.

Steps

1. In System Manager, click **Storage > Volumes**.

The list of volumes is displayed.

2. You can perform the following:

To perform this task...	Take these actions...
Add a volume	Click  Add . See Add a volume .
Manage multiple volumes	<p>Check the boxes next to the volumes.</p> <ul style="list-style-type: none">• Click  Delete to delete the selected volumes.• Click  Protect to assign a protection policy to the selected volumes.• Click  More to select one of the following actions to perform for all selected volumes:<ul style="list-style-type: none">◦ Enable quota◦ Take offline◦ Move◦ Show Deleted Volumes

Manage a single volume

Next to the volume, click , then select one of the following actions to perform:

- Edit
- Resize (Beginning with ONTAP 9.10.1, and only for online volumes and DP FlexVol volumes)
- Delete
- Clone
- Take Offline (or Bring Online)
- Enable Quota (or Disable Quota)
- Edit Export Policy
- Edit Mount Path
- Move
- Edit Cloud Tier Settings
- Protect

Add a volume

You can create a volume and add it to an existing storage VM that is configured for NFS or SMB service.



Before you Start

A storage VM that is configured for NFS or SMB service should exist in the cluster.

Steps

1. Go to **Storage > Volumes**.
2. Click **+ Add**.
3. Specify a name and size for the volume.
4. Perform one of the following steps:

Click this button...	To perform this action...
Save	The volume is created and added using the system defaults. No additional steps are required.
More Options	Proceed to Step 5 to define the specifications for the volume.

5. The volume name and size are shown if you previously specified them. Otherwise, enter the name and size.
6. Select a storage VM from the pull-down list.

Only storage VMs configured with the NFS protocol are listed. If only one storage VM configured with the NFS protocol is available, the **Storage VM** field is not shown.

7. To add a cache for the remote volume, select **Add a cache for remote volume** and specify the following values:
 - Select a cluster.
 - Select a storage VM.
 - Select the volume that you want to be a cache volume.
8. In the **Storage and Optimization** section, specify the following values:
 - a. The capacity of the volume is already shown, but you can modify it.
 - b. In the **Performance Service Level** field, select a service level:

When you select this service level...	This occurs...
An existing service level, such as "Extreme", "Performance", or "Value". Only the service levels that are valid for the system platform (AFF, FAS, or others) are displayed.	A local tier or tiers are automatically chosen. Proceed to Step 9 .
Custom	
	Proceed to Step 8c to define a new service level.

- c. Beginning with ONTAP 9.9.1, you can use System Manager to manually select the local tier on which you want to place the volume you are creating (if you have selected the "Custom" service level).



This option is not available if you select **Add as a cache for a remote volume** or **Distribute volume data across the cluster** (see below).

When you make this choice...	You perform these steps...
Manual placement	Manual placement is enabled. The Distribute volume data across the cluster selection is disabled (see below). Proceed to Step 8d to complete the process.
No selection	Manual placement is not enabled. The local tier is automatically selected. Proceed to Step 9 .

- d. Select a local tier from the pull-down menu.
- e. Select a QoS policy.

Select "Existing" to choose from a list of existing policies, or select "New" to enter the specifications of a new policy.

9. In the **Optimization options** section, determine if you want to distribute the volume data across the cluster:

When you make this choice...	This occurs...
Distribute volume data across the cluster	The volume you are adding becomes a FlexGroup volume. This option is not available if you previously selected Manual placement .
No selection	The volume you are adding becomes a FlexVol volume by default.

10. In the **Access Permissions** section, specify the access permissions for the protocols for which the volume is configured.

Beginning with ONTAP 9.11.1, the new volume will not be shareable by default. You can specify the default access permissions by ensuring the following check boxes are checked:

- **Export via NGS:** Creates the volume with the “default” export policy that grants users full access to the data.
- **Share via SMB/CIFS:** Creates a share with an auto-generated name, which you can edit. Access is granted to “Everyone”. Also, you can specify the permission level.

11. In the **Protection** section, specify the protections for the volume.

- **Beginning with ONTAP 9.12.1, you can select *Enable Snapshot Copies (Local)** and choose a Snapshot copy policy rather than using the default.
- **If you select *Enable SnapMirror (Local or Remote)**, then specify the protection policy and settings for the destination cluster from the pull-down lists.

12. Click **Save**.

The volume is created and added to the cluster and storage VM.



You can also save the specifications of this volume to an Ansible Playbook. For more details, go to [Use Ansible Playbooks to add or edit volumes or LUNs](#).

Add LUNs

You can create LUNs and add them to an existing storage VM that is configured with the SAN protocol.



Before you Start

A storage VM that is configured for SAN service should exist in the cluster.

Steps

1. Go to **Storage > LUNs**.
2. Click **+ Add**.
3. Specify a prefix that will be used at the start of each LUN name. (If you are creating only one LUN, enter the LUN name.)
4. Select a storage VM from the pull-down list.

Only storage VMs that are configured for the SAN protocol are listed. If only one storage VM that is configured for the SAN protocol is available, then the **Storage VM** field is not displayed.

5. Indicate how many LUNs you want to create and the size of each LUN.
6. Select the host operating system and LUN format from the pull-down lists.
7. Enter the host initiators, and separate them with commas.
8. Perform one of the following actions:

Click this button...	To perform this action...
Save	The LUNs are created with the specifications you entered. System defaults are used for other specifications. No additional steps are required.

More Options	Proceed to Step 9 to define additional specifications for the LUNs.
---------------------	---

9. The LUN prefix is already shown if you previously entered it, but you can modify it. Otherwise, enter the prefix.
10. Select a storage VM from the pull-down list.

Only storage VMs that are configured for the SAN protocol are listed. If only one storage VM that is configured for the SAN protocol is available, then the **Storage VM** field is not displayed.

11. Determine how you want the LUNs to be grouped:

When you make this choice...	This occurs...
Group with related LUNs	The LUNs will be grouped together with related LUNs on an existing volume on the storage VM.
No selection	The LUNs will be grouped together on a volume called "container".

12. In the **Storage and Optimization** section, specify the following values:

- a. The number and capacity of the LUNs are already shown if you previously entered them, but you can modify them. Otherwise, enter the values.
- b. In the **Performance Service Level** field, select a service level:

When you select this service level...	This occurs...
An existing service level, such as "Extreme", "Performance", or "Value". Only the service levels that are valid for the system platform (AFF, FAS, or others) are displayed.	A local tier is automatically chosen. Proceed to Step 13 .
Custom	Proceed to Step 12c to define a new service level.

- c. Beginning with ONTAP 9.9.1, you can use System Manager to manually select the local tier on which you want to place the LUNs you are creating (if you have selected the "Custom" service level).

When you make this choice...	You perform these steps...
Manual placement	Manual placement is enabled. Proceed to Step 12d to complete the process.
No selection	Manual selection is not enabled. The local tier is automatically selected. Proceed to Step 13 .

- d. Select a local tier from the pull-down menu.
- e. Select a QoS policy.

Select "Existing" to choose from a list of existing policies, or select "New" to enter the specifications of a new policy.

13. In the **Host Information** section, the host operating system and LUN format are already shown, but you can modify them.
14. Under **Host Mapping**, select the type of initiators for the LUNs:
 - **Existing initiator group**: Select an initiator group for the list that displays.
 - **New initiator group using existing initiator groups**: Specify the name of the new group, and select the group or groups that you want to use to create the new group.
 - **Host initiators**: Specify a name from the new initiator group, and click **+Add Initiator** to add initiators to the group.
15. In the **Protection** section, specify the protections for the LUNs.

If you select **Enable SnapMirror (Local or Remote)**, then specify the protection policy and settings for the destination cluster from the pull-down lists.

16. Click **Save**.

The LUNs are created and added to the cluster and storage VM.



You can also save the specifications of these LUNs to an Ansible Playbook. For more details, go to [Use Ansible Playbooks to add or edit volumes or LUNs](#).

Expand storage

Using System Manager, you can increase the size of your volume or LUN so that more space is available to your host. The size of a LUN cannot exceed the size of the containing volume.

Beginning with ONTAP 9.12.1, when you enter the new capacity for a volume, the **Resize Volume** window displays the impact that resizing the volume will have on data space and Snapshot copy reserve.

- [Increase the size of a volume](#)
- [Increase the size of a LUN](#)

Also, you can add a LUN to an existing volume. The processes are different when using System Manager with ONTAP 9.7 or 9.8

- [Add a LUN to an existing volume \(ONTAP 9.7\)](#)
- [Add a LUN to an existing volume \(ONTAP 9.8\)](#)

Also, beginning with ONTAP 9.8, you can use System Manager to add a LUN to an existing volume.

Increase the size of a volume

Steps

1. Click **Storage > Volumes**.
2. Hover over the name of the volume you want to increase in size.
3. Click
4. Select **Edit**.

5. Increase the capacity value.
6. Review the **Existing** and **New** data space and Snapshot reserve details.

Increase the size of a LUN

Steps

1. Click **Storage > LUNs**.
2. Hover over the name of the LUN you want to increase in size.
3. Click .
4. Select **Edit**.
5. Increase the capacity value.

Add a LUN to an existing volume (ONTAP 9.7)

To use System Manager with ONTAP 9.7 to add a LUN to an existing volume, you should switch to the Classical View first.

Steps

1. Log in to System Manager in ONTAP 9.7.
2. Click **Classical View**.
3. Select **Storage > LUNs > Create**
4. Specify the details to create the LUN.
5. Specify to which existing volume or qtree the LUN should be added.

Add a LUN to an existing volume (ONTAP 9.8)

Beginning with ONTAP 9.8, you can use System Manager to add a LUN to an existing volume that already has a least one LUN.

Steps

1. Click **Storage > LUNs**.
2. Click **Add+**.
3. Complete the fields in the **Add LUNs** window.
4. Select **More Options**.
5. Select the checkbox labeled **Group with related LUNs**.
6. In the drop-down field, select a LUN that exists on the volume to which you want to add another LUN.
7. Complete the rest of the fields. For **Host Mapping**, click one of the radio buttons:
 - **Existing initiator group** lets you select an existing group from a list.
 - **New initiator group** lets you enter a new group in the field.

Recover deleted volumes

If you have accidentally deleted one or more FlexVol volumes, you can use System Manager to recover these volumes. Beginning with ONTAP 9.8, you can also user

System Manager to recover FlexGroup volumes. You can also delete the volumes permanently by purging the volumes.

The volume retention time can be set on a storage VM level. By default, the volume retention time is set to 12 hours.

Selecting deleted volumes

Steps

1. Click **Storage > Volumes**.
2. Click **More > Show Deleted Volumes**.
3. Select the volumes and click the desired action to recover or permanently delete the volumes.

Resetting the volume configurations

Deleting a volume deletes the associated configurations of the volume. Recovering a volume does not reset all the configurations. Perform the following tasks manually after recovering a volume to bring the volume back to its original state:

Steps

1. Rename the volume.
2. Set up a junction path (NAS).
3. Create mappings for LUNs in the volume (SAN).
4. Associate a Snapshot policy and export policy with the volume.
5. Add new quota policy rules for the volume.
6. Add a QOS policy for the volume.

Save storage space using compression, compaction, and deduplication

For volumes on non-AFF clusters, you can run deduplication, data compression, and data compaction together or independently to achieve optimal space savings.

- Deduplication eliminates duplicate data blocks.
- Data compression compresses the data blocks to reduce the amount of physical storage that is required.
- Data compaction stores more data in less space to increase storage efficiency.



These tasks are supported for volumes on non-AFF clusters. Beginning with ONTAP 9.2, all inline storage efficiency features, such as inline deduplication and inline compression, are enabled by default on AFF volumes.

Steps

1. Click **Storage > Volumes**.
2. Next to the name of the volume for which you want to save storage, click .
3. Click **Edit** and scroll to **Storage Efficiency**.

4. *Optional:* If you want to enable background deduplication, ensure the checkbox is checked.
5. *Optional:* If you want to enable background compression, specify the storage efficiency policy and ensure the checkbox is checked.
6. *Optional:* If you want to enable inline compression, ensure the checkbox is checked.

Balance loads by moving LUNs

You can move a LUN to another volume within the storage VM to balance the load, or you can move it to a volume with a higher performance service level to improve performance.

Move restrictions

- A LUN cannot be moved to a qtree within the same volume.
- A LUN created from a file using the CLI cannot be moved with System Manager.
- LUNs that are online and serving data cannot be moved.
- LUNs cannot be moved if the allocated space in the destination volume cannot contain the LUN (even if autogrow is enabled on the volume).
- LUNs on SnapLock volumes cannot be moved with System Manager.



Steps

1. Click **Storage > LUNs**.
2. Select the LUN that you want to move and click **Move**.
3. Select an existing volume to which you want to move the LUN. If the volume contains qtrees, select the qtree.



While the Move operation is in progress, the LUN is displayed on both the origin and destination volume.

Balance loads by moving volumes to another tier

Beginning with ONTAP 9.8, you can use System Manager to move a volume to another tier to balance the load.

Beginning with ONTAP 9.9.1, you can also move volumes based on analysis of active and inactive data storage. For more information, see [File System Analytics overview](#).

Steps

1. Click **Storage > Volumes**.
2. Select the volume or volumes that you want to move, and then click **Move**.

3. Select an existing tier (aggregate) to which you want to move the volume or volumes.

Use Ansible Playbooks to add or edit volumes or LUNs

Beginning with ONTAP 9.9.1, you can use Ansible Playbooks with System Manager when you want to add or edit volumes or LUNs.

This feature lets you use the same configuration multiple times or use the same configuration with slight changes when you add or edit volumes or LUNs.

Enable or disable Ansible Playbooks

You can enable or disable the use of Ansible Playbooks with System Manager.

Steps

1. In System Manager, go to the UI settings in the cluster settings page:

Cluster > Settings

2. Under **UI Settings**, change the slider switch to "Enabled" or "Disabled".

Save a volume configuration to an Ansible Playbook

When you create or modify the configuration of a volume, you can save the configuration as Ansible Playbook files.

Steps

1. Add or Edit the volume:

Volume > Add (or **Volume > Edit**)

2. Specify or edit the configuration values of the volume.
3. Select **Save to Ansible Playbook** to save the configuration to Ansible Playbook files.

A zip file is downloaded that contains the following files:

- **variable.yaml**: The values you entered or modified to add or edit the volume.
- **volumeAdd.yaml** (or **volumeEdit.yaml**): The test cases that are required to create or modify the values when reading the inputs from the `variable.yaml` file.

Save a LUN configuration to an Ansible Playbook

When you create or modify the configuration of a LUN, you can save the configuration as Ansible Playbook files.

Steps

1. Add or Edit the LUN:

LUN > Add (or **LUN > Edit**)

2. Specify or edit the configuration values of the LUN.

3. Select **Save to Ansible Playbook** to save the configuration to Ansible Playbook files:


A zip file is downloaded that contains the following files:

- **variable.yaml**: The values you entered or modified to add or edit the LUN.
- **lunAdd.yaml** (or **lunEdit.yaml**): The test cases that are required to create or modify the values when reading the inputs from the `variable.yaml` file.

Download Ansible Playbook files from global search results

You can download Ansible Playbook files when you do a global search.

Steps

1. In the search field, enter “volume” or “LUN” or “Playbook”.
2. Find the search result, either “Volume Management (Ansible Playbook)” or “LUN Management (Ansible Playbook)”.
3. Click on  to download the Ansible Playbook files.

Work with Ansible Playbook files

Ansible Playbook files can be modified and run to specify configurations for volumes and LUNs.

About this task

You use two files to perform an operation (either an “add” or an “edit”):

If you want to...	Use this variable file...	And use this run file...
Add a volume	volumeAdd-variable.yaml	valueAdd.yaml
Edit a volume	volumeEdit-variable.yaml	volumeEdit.yaml
Add a LUN	lunAdd-variable.yaml	lunAdd.yaml
Edit a LUN	lunEdit-variable.yaml	lunEdit.yaml

Steps

1. Modify the variables file.

The file contains the various values that you use to configure the volume or LUN.

- If you do not change the values, leave them commented.
- If you modify the values, remove the commenting.

2. Run the associated run file.

The run file contains the test cases that are required to create or modify the values when reading the inputs from the variable file.

3. Enter your user login credentials.

Manage storage efficiency policies

Beginning with ONTAP 9.8, you can use System Manager to enable, disable, add, edit, or delete efficiency policies for storage VMs on FAS systems.



This function is not available on AFF systems.

Steps

1. Select **Storage > Storage VMs**
2. Select the storage VM for which you want to manage efficiency policies.
3. On the **Settings** tab, select  in the **Efficiency Policy** section. The efficiency policies for that storage VM are displayed.

You can perform the following tasks:

- **Enable or disable** an efficiency policy by clicking the toggle button in the Status column.
- **Add** an efficiency policy by clicking on **Add+**.
- **Edit** an efficiency policy by clicking on  to the right of the policy name and selecting **Edit**.
- **Delete** an efficiency policy by clicking on  to the right of the policy name and selecting **Delete**.

Efficiency policies list

• Auto

Specifies that deduplication is continuously performed in the background. This policy is set for all newly created volumes and for all upgraded volumes that have not been manually configured for background deduplication. If you change the policy to “default” or any other policy, the “auto” policy is disabled.

If a volume moves from a non-AFF system to an AFF system, the “auto” policy is enabled on the destination node by default. If a volume moves from an AFF node to a non-AFF node, the “auto” policy on the destination node is replaced by the “inline-only” policy by default.

• 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.

Manage resources using quotas

Beginning with ONTAP 9.7, you can configure and manage usage quotas with System Manager.

If you are using the ONTAP CLI to configure and manage usage quotas, refer to [Logical Storage Management](#).

If you are using legacy OnCommand System Manager for ONTAP 9.7 and earlier releases to configure and manage usage quotas, see the following for your release:

- [ONTAP 9.6 and 9.7 Documentation](#)
- [ONTAP 9.5 Documentation](#)
- [ONTAP 9.4 Documentation](#)
- [ONTAP 9.3 Documentation](#)
- [ONTAP 9.2 Archived Documentation](#)
- [ONTAP 9.0 Archived Documentation](#)

Quota overview

Quotas provide a way to restrict or track the disk space and number of files used by a user, group, or qtree. Quotas are applied to a specific volume or qtree.

You can use quotas to track and limit resource usage in volumes and provide notification when resource usage

reaches specific levels.

Quotas can be soft or hard. Soft quotas cause ONTAP to send a notification when specified limits are exceeded, and hard quotas prevent a write operation from succeeding when specified limits are exceeded.

Set quotas to limit resource use

Add quotas to limit the amount of disk space the quota target can use.

You can set a hard limit and a soft limit for a quota.

Hard quotas impose a hard limit on system resources; any operation that would result in exceeding the limit fails. Soft quotas send a warning message when resource usage reaches a certain level, but they do not affect data access operations, so you can take appropriate action before the quota is exceeded.

Steps

1. Click **Storage > Quotas**.
2. Click **Add**.

Clone volumes and LUNs for testing

You can clone volumes and LUNs to create temporary, writable copies for testing. The clones reflect the current, point-in-time state of the data. You can also use clones to give additional users access to data without giving them access to production data.



The FlexClone license should be installed on the storage system.

Cloning a volume

Create a clone of a volume, as follows:

Steps

1. Click **Storage > Volumes**.
2. Click  next to the name of the volume you want to clone.
3. Select **Clone** from the list.
4. Specify a name for the clone and complete the other selections.
5. Click **Clone** and verify that the volume clone appears in the list of volumes.

Alternatively, you can clone a volume from the **Overview** that displays when you view volume details.

Cloning a LUN

Create a clone of a LUN, as follows:

Steps

1. Click **Storage > LUNs**.
2. Click  next to the name of the LUN you want to clone.

3. Select **Clone** from the list.
4. Specify a name for the clone and complete the other selections.
5. Click **Clone** and verify that the LUN clone appears in the list of LUNs.

Alternatively, you can clone a LUN from the **Overview** that displays when you view LUN details.

When you create a LUN clone, System Manager automatically enables the deletion of the clone when space is needed.

Search, filter, and sort information in System Manager

You can search for various actions, objects, and information topics in System Manager. You can also search table data for specific entries.

System Manager provides two types of searching:

- [Global searching](#)

When you enter a search argument in the field at the top of each page, System Manager searches throughout the interface to find matches. You can then sort and filter the results.

Beginning with ONTAP 9.12.1, System Manager also provides search results from the NetApp Support Site to provide links to relevant support information.

- [Table-grid searching](#)

Beginning with ONTAP 9.8, when you enter a search argument in the field at the top of a table grid, System Manager searches only the columns and rows of that table to find matches.

Global searching

At the top of each page in System Manager, you can use a global search field to search various objects and actions in the interface. For example, you can search for different objects by name, pages available in the navigator column (on the left side), various action items, like "Add Volume" or "Add License", and links to external help topics. You can also filter and sort the results.



For better results, perform searching, filtering, and sorting one minute after logging in and five minutes after creating, modifying, or deleting an object.

Getting search results

The search is not case-sensitive. You can enter a variety of text strings to find the page, actions, or information topics you need. Up to 20 results are listed. If more results are found, you can click **Show more** to view all results. The following examples describe typical searches:

Type of search	Sample search string	Sample search results
----------------	----------------------	-----------------------

By object name	vol_	vol_lun_dest on storage VM: svm0 (Volume) /vol/vol...est1/lun on storage VM: svm0 (LUN) svm0:vol_lun_dest1 role: Destination (Relationship)
By location in interface	volume	Add Volume (Action) Protection – Overview (Page) Recover deleted volume (Help)
By actions	add	Add Volume (Action) Network – Overview (Page) Expand volumes and LUNs (Help)
By help content	san	Storage – Overview (Page) SAN overview (Help) Provision SAN storage for databases (Help)

Global search results from NetApp Support Site

Beginning with ONTAP 9.12.1, for users who are registered with Active IQ, System Manager displays another column of results that provide links to NetApp Support Site information, including System Manager product information.

Search results contain the following information:

- **Title** of the information which is a link to the document in HTML, PDF, EPUB, or other format.
- **Content type**, which identifies whether it is a product documentation topic, a KnowledgeBase article, or another type of information.
- **Summary description** of the content.
- **Created** date when it was first published.
- **Updated** date when it was last updated.

You can perform the following actions:

Action	Result
Click ONTAP System Manager , then enter text in the search field.	The search results include NetApp Support Site information about System Manager.
Click All products , then enter text in the search field.	The search results include NetApp Support Site information for all NetApp products, not only for System Manager.
Click a search result.	The information from the NetApp Support Site is displayed in a separate browser window or tab.
Click See more results .	If there are more than ten results, you can click See more results after the tenth result to view more results. Each time you click See more results , another ten results are displayed, if available.

Copy the link.	The link is copied to the clipboard. You can paste the link in a file or in a browser window.
Click  .	The panel where the results are displayed is pinned so it remains displayed when you work in another panel.
Click  .	The results panel is no longer pinned and is closed.

Filtering search results

You can narrow the results with filters, as shown in the following examples:

Filter	Syntax	Sample search string
By object type	<type>:<objectName>	volume:vol_2
By object size	<type><size-symbol><number><units>	luns<500mb
By broken disks	"broken disk" or "unhealthy disk"	unhealthy disk
By network interface	<IP address>	172.22.108.21

Sorting search results

When you view all the search results, they are sorted alphabetically. You can sort the results by clicking  **Filter** and selecting how you want to sort the results.

Table-grid searching

Beginning with ONTAP 9.8, whenever System Manager displays information in a table-grid format, a search button appears at the top of the table.

When you click **Search**, a text field appears in which you can enter a search argument. System Manager searches the entire table and displays only the rows that contain text that matches your search argument.

You can use an asterisk (*) as a "wildcard" character as a substitute for characters. For example, searching for vol_* might provide rows that contain the following:

- vol_122_D9
- vol_lun_dest1
- vol2866
- volspec1
- volum_dest_765
- volume
- volume_new4
- volume9987

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