Manage on-premises ONTAP clusters

On-premises ONTAP clusters

NetApp
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Manage clusters that were discovered directly in NetApp Console

If you discovered your on-premises ONTAP cluster directly without using a Console agent, you can open the system in the Console to manage the cluster and access ONTAP System Manager.

Required Console role:

Storage admin or System health specialist. Learn about Console access roles.

Before you begin

The computer that you're using to access the Console must have a network connection to the on-premises ONTAP cluster, similar to how you would provide connections to other resources in your private network.

Limitations

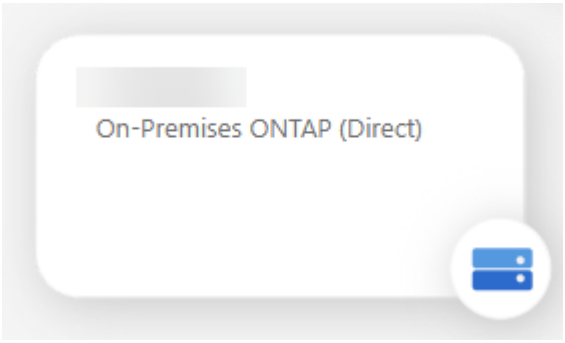
A few System Manager features are not supported from the Console.

Review the list of limitations.

Steps

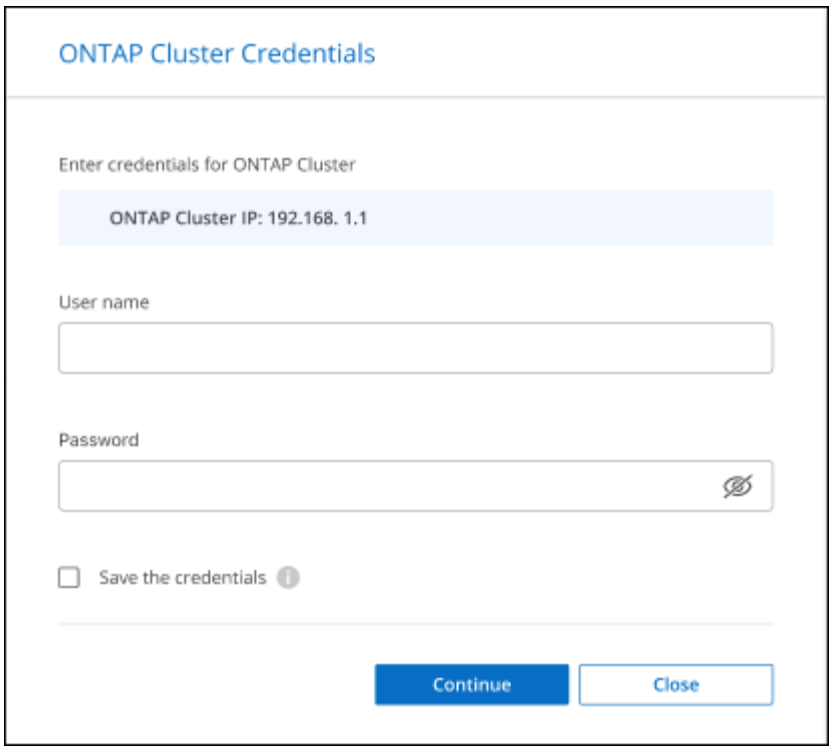
1. On the **Systems** page, select the on-premises ONTAP system.

   The word "direct" identifies clusters that were discovered directly:

2. In the **Systems details** page, select **Enter system**.
3. If prompted, enter your ONTAP credentials.

   The system prompts you to log in with your ONTAP credentials each time you open it unless you save the credentials. You have the option to save the credentials so that you don't need to enter them each time. You can manage these credentials on the User Credentials page. In some cases, your Console administrator (with the Organization admin role) might have disabled this option and require you to enter your credentials each time.



4. Use System Manager to manage ONTAP.

   If you need help using System Manager with ONTAP, you can refer to ONTAP documentation for step-by-step instructions. The following links provide additional guidance:

   - Volume and LUN management
   - Network management
   - Data protection

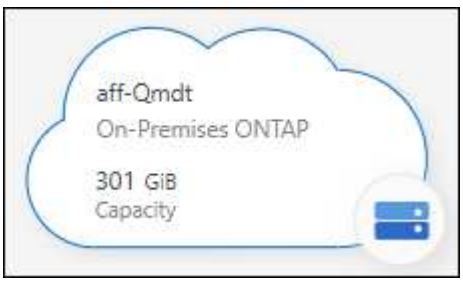
Manage clusters that were discovered with a Console agent

If you discovered an on-premises ONTAP cluster using a Console agent, you can create volumes directly from the NetApp Console, access ONTAP System Manager (directly from the Console) for advanced management, and enable NetApp data services.

Required NetApp Console role:

Storage admin or System health specialist. Learn about Console access roles.

On the **Systems** page, the system icon for a cluster that you discovered with a Console agent looks similar to the following:



If you discover a system directly, the system icon shows the word "Direct."

Create FlexVol volumes from the NetApp Console

After you add your on-premises ONTAP cluster to the Console using a Console agent, you can provision and manage FlexVol volumes directly from the Console.

The Console enables you to create NFS or CIFS volumes on existing aggregates. You can't create new aggregates on an on-premises ONTAP cluster from the native Console pages; however, you can access the respective ONTAP System Manager from the Console to create aggregates.

Steps

1. From the navigation menu, select **Storage > Management**.
2. On the **Systems** page, select the on-premises ONTAP cluster on which you want to provision volumes.
3. Select **Volumes > Add Volume**.
4. Follow the steps in the wizard to create the volume.
   a. **Details, Protection, & Tags**: Enter details about the volume like its name and size and choose a Snapshot policy.

      Some of the fields on this page are self-explanatory. The following list describes fields for which you might need guidance:

Field	Description
Size	The maximum size depends on whether you enable thin provisioning, allowing you to create a volume larger than the available physical storage.
Snapshot Policy	A Snapshot copy policy defines how often and how many NetApp Snapshot copies are created. A NetApp Snapshot copy is a point-in-time file system image that has no performance impact and requires minimal storage. You can choose the default policy or none. You may choose none for transient data, such as the temporary database (tempdb) for Microsoft SQL Server.

   b. **Protocol**: Choose the protocol for the volume (NFS, CIFS, or iSCSI) and then set the access control or permissions for the volume.

      If you choose CIFS without a server, the system prompts you to configure one using Active Directory or a workgroup.

      The following list describes fields for which you might need guidance:

Field	Description
Access Control	An NFS export policy defines the clients in the subnet that can access the volume. By default, the Console enters a value that provides access to all instances in the subnet.
Permissions and Users/Groups	These fields enable you to control the level of access to an SMB share for users and groups (also called access control lists or ACLs). You can specify local or domain Windows users or groups, or UNIX users or groups. If you specify a domain Windows user name, you must include the user's domain using the format domain\username.

c. **Usage Profile**: Choose whether to enable or disable storage efficiency features on the volume in order to reduce the total amount of storage that you need.

d. **Review**: Review details about the volume and then select **Add**.

Create FlexGroup volumes with the NetApp Console API

You can use the NetApp Console API to create FlexGroup volumes. A FlexGroup volume is a scale-out volume that provides high performance along with automatic load distribution.

- Learn how to create a FlexGroup volume using the API
- Learn what a FlexGroup volume is

Access ONTAP System Manager from NetApp Console

You can access the ONTAP System Manager interface directly inside the Console.

Features

When you access ONTAP System Manager from the Console you have access to additional management features:

- Advanced storage management

  Manage consistency groups, shares, qtrees, quotas, and Storage VMs.

- Networking management

  Manage IPspaces, network interfaces, portsets, and Ethernet ports.

- Events and jobs

  View event logs, system alerts, jobs, and audit logs.

- Advanced data protection

  Protect storage VMs, LUNs, and consistency groups.

- Host management

  Set up SAN initiator groups and NFS clients.

Supported configurations

Advanced management through System Manager is supported with on-premises ONTAP clusters running 9.10.0 or later.

System Manager integration is not supported in GovCloud regions or in regions that have no outbound internet access.

Limitations

A few System Manager features are not supported with on-premises ONTAP clusters when accessing ONTAP System Manager through the Console.

Review the list of limitations.

Access ONTAP System Manager from NetApp Console

Open the System Manager for the system.

Steps

1. On the **Systems** page, select the on-premises ONTAP cluster on which you want to provision volumes.
2. From the right panel, under **Services**, find **System Manager** and select **Open**.
3. If you see the confirmation message, read through it and select **Close**.
4. Use System Manager to manage ONTAP.
5. If needed, select **Go back** to return to standard management through the Console.

Get help with System Manager

If you need help using System Manager with ONTAP, you can refer to ONTAP documentation for step-by-step instructions. Here are a few links that might help:

- Volume and LUN management
- Network management
- Data protection

Enable NetApp data services

Enable NetApp data services on your systems to replicate data, back up data, tier data, and more.

Replicate data

Replicate data between Cloud Volumes ONTAP systems, Amazon FSx for ONTAP file systems, and ONTAP clusters. Choose a one-time data replication, which can help you move data to and from the cloud, or a recurring schedule, which can help with disaster recovery or long-term data retention.

NetApp Replication documentation

Back up data

Back up data from your on-premises ONTAP system to low-cost object storage in the cloud.

NetApp Backup and Recovery documentation

Scan, map, and classify your data

Scan your corporate on-premises clusters to map and classify data, and to identify private information. This can help reduce your security and compliance risk, decrease storage costs, and assist with your data migration projects.

NetApp Data Classification documentation

Tier data to the cloud

Extend your data center to the cloud by automatically tiering inactive data from ONTAP clusters to object storage.

NetApp Cloud Tiering documentation

Identify clusters with low capacity

Identify clusters with low capacity and review their current and forecasted capacity.

NetApp Lifecycle planning documentation

View cluster information and contract details

You can view capacity information as well as licensing information directly from the NetApp Console.

View capacity information

When you select an on-premises ONTAP cluster from the **Systems** page, the **System details** page displays capacity information for the cluster, including total capacity, used capacity, and available capacity.

View license and contract details

You can view contract details for each of your on-premises ONTAP clusters from the **Subscriptions and licenses** page.

Learn more about managing licenses for on-prem ONTAP clusters from the Console

Optimize clusters using NetApp Digital Advisor

NetApp Digital advisor enables you to optimize the operations, security, and performance of your ONTAP clusters.

Features

You can view the overall status of your storage system, high-level information about the wellness of the system, inventory, planning, upgrades, and valuable insights at a watchlist level using Digital Advisor.

- Analyze and optimize the health of your storage systems
- Gain insights regarding all the risks to your storage systems and the actions to mitigate the risks
- Analyze the performance of your storage devices by viewing the graphical format of performance data
- Get details about systems that have exceeded 90% capacity or are nearing 90% capacity
- Get information about the hardware and software that have expired or are near-expiration within the next 6 months
- Upgrade your storage system software, and update your ONTAP firmware using Ansible

Supported ONTAP systems

Digital Advisor provides information for all the on-premises ONTAP systems and Cloud Volumes ONTAP systems associated with your NetApp Support Site (NSS) account.

More information

Digital Advisor documentation

Remove an on-prem ONTAP system from NetApp Console

Remove an on-premises ONTAP system if you no longer want to manage it from the Console.

Required Console role:

Storage admin. Learn about NetApp Console access roles.

Removing the system doesn't affect the ONTAP cluster. You can rediscover it from the Console at any time.

Steps

1. From the navigation menu, select **Storage > Management**.
2. Select the on-premises ONTAP system on the **Systems** page.
3. Select the menu icon and select **Remove from workspace**.
4. Select **Remove** to confirm.

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