



Administer and monitor NetApp Console local deployment

NetApp Console local deployment

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Administer and monitor NetApp Console local deployment

Learn about administration and monitoring in NetApp Console local deployment

After you deploy NetApp Console local deployment, use the administration and monitoring tools to review activity, maintain the VM, and manage member access.

Audit activity

Review user and API activity, track the status of Console operations, download audit logs, and export logs to external tools when you need longer retention or additional analysis.

- [Audit NetApp Console local deployment activity](#)
- [Set up notifications delivery channels in NetApp Console local deployment](#)

Licenses and subscriptions

Use the licensing and subscriptions information to understand service entitlements and subscription status for your Console environment.

[Learn about licenses and subscriptions.](#)

Maintain and troubleshoot the Console local deployment VM

Maintain the VM that hosts Console local deployment, review network and system settings, access diagnostic tools, and troubleshoot issues when the service or agent does not behave as expected.

[Maintain your vCenter or ESXi host for Console local deployment.](#)

Manage users and access

Review member access across your organization, adjust access at the fleet level, and manage security settings such as MFA recovery and service account credentials.

- [Manage member access in NetApp Console](#)
- [View or change fleet access assignments in NetApp Console local deployment](#)
- [Manage member security in NetApp Console local deployment](#)

Audit NetApp Console local deployment activity

You can audit user activity initiated from both the UI and API from the Audit page, and you can monitor the status of operations in NetApp Console local deployment and the user who initiated them.

Required roles

Super admin, Organization admin, Folder and fleet admin, Operations support analyst, Super viewer,

Organization viewer, or Folder and fleet viewer. [Learn about access roles](#).

You can view audit activity in the Console local deployment, download a CSV of the audit logs, or configure the audit logs to be sent to your own syslog server by using a webhook.

Audit user activity from the Audit page

Use the Audit page to identify who performed an action or its status.

The Audit page shows the actions that users completed within your organization. For example, you can verify who added a member to an organization or that a fleet was deleted successfully, as well as see other storage management actions that users performed in your organization.

The audit logs show activity for the following services:

- **Tenancy**: actions related to managing your organization, such as adding users, creating fleets, and associating resources.
- **Storage-management**: actions related to managing your storage resources.
- **Federation**: actions related to managing federations, such as creating federations and adding or removing federated organizations.

Steps

1. Select **Administration > Audit**.
2. Use the filters above the table to change which actions display in the table.

For example, you can use the **Service** filter to show actions related to a specific service, or you can use the **User** filter to show actions related to a specific user account.

Filter audit logs for identity and access management actions

To view only actions related to managing your organization—such as adding members, creating fleets, or deleting resources—filter the audit log by the Tenancy service.

Steps

1. Select **Administration > Audit**.
2. Use the filters to narrow the results. Select **Service** and then select **Tenancy**.
3. Use any of the other filters to further refine the results.

For example, use the **User** filter to show IAM actions performed by a specific user account.

Download audit logs from the Audit page

You can download the audit logs from the Audit page to a CSV file. This enables you to keep a record of the actions that users perform in your organization. The downloaded CSV file includes all audit log columns, regardless of the filters or displayed columns on the Audit page.

Steps

1. In the **Audit** page, select the download icon in the upper right corner of the table.

Maintain NetApp Console

Maintain your vCenter or ESXi host for NetApp Console local deployment

In NetApp Console local deployment, you can make changes to your existing VCenter or ESXi host after you deploy the Console local deployment. For example, you can increase the CPU or RAM of the VM instance that hosts the Console local deployment.

Perform these maintenance tasks using the VM web console:

- Increase disk size
- Restart the Console local deployment
- Update static routes
- Update search domains

Limitations

You can only view (not update) information about the IP address, DNS, and gateways through the maintenance console.

Access the VM maintenance console

You can access the maintenance console from the VSphere client.

Steps

1. Open the VSphere client and log in to your VCenter.
2. Select the VM instance that hosts the Console local deployment.
3. Select **Launch Web Console**.
4. Log in to the VM instance using the user name and password that you specified when you created the VM instance. The username is `maint` and the password is the one that you specified when you created the VM instance.

Change the maint user password

You can change the password for the `maint` user.

Steps

1. Open the VSphere client and log in to your VCenter.
2. Select the VM instance that hosts the Console local deployment.
3. Select **Launch Web Console**.
4. Log in to the VM instance using the user name and password that you specified when you created the VM instance. The username is `maint` and the password is the one that you specified when you created the VM instance.
5. Enter 1 to view the `System Configuration` menu.
6. Enter 1 to change the maintenance user password and follow the on-screen prompts.

Increase the CPU or RAM of the VM instance

You can increase the CPU or RAM of the VM instance that hosts Console local deployment.

Edit the VM instance settings in your VCenter or ESXi host, then use the maintenance Console to apply the changes.

Steps in the VSphere client

1. Open the VSphere client and log in to your VCenter.
2. Select the VM instance that hosts the Console local deployment.
3. Right-click the VM instance and select **Edit Settings**.
4. Increase the hard drive space used for /opt or the /var partition.
 - a. Select **Hard Disk 2** to increase the hard drive space used for /opt.
 - b. Select **Hard Disk 3** to increase the hard drive space used for /var.
5. Save your changes.

Steps in the maintenance console

1. Open the VSphere client and log in to your VCenter.
2. Select the VM instance that hosts Console local deployment.
3. Select **Launch Web Console**.
4. Log in to the VM instance using the user name and password that you specified when you created the VM instance. The username is `maint` and the password is the one that you specified when you created the VM instance.
5. Enter `1` to view the ``System Configuration` menu.
6. Enter `2` and follow the on-screen prompts. The console scans for new settings and increases the size of the partitions.

View network settings for the Console local deployment VM

View the network settings for the Console local deployment VM in the VSphere client to confirm or troubleshoot network issues. You can only view (not update) the following network settings: IP address and DNS details.

Steps

1. Open the VSphere client and log in to your VCenter.
2. Select the VM instance that hosts the Console local deployment.
3. Select **Launch Web Console**.
4. Log in to the VM instance using the user name and password that you specified when you created the VM instance. The username is `maint` and the password is the one that you specified when you created the VM instance.
5. Enter `2` to view the `Network Configuration` menu.
6. Enter a number between 1 and 6 to view the corresponding network settings.

Update the static routes for the Console local deployment VM

Add, update, or remove static routes for the Console local deployment VM as needed.

Steps

1. Open the VSphere client and log in to your VCenter.
2. Select the VM instance that hosts the Console local deployment.
3. Select **Launch Web Console**.
4. Log in to the VM instance using the user name and password that you specified when you created the VM instance. The username is `maint` and the password is the one that you specified when you created the VM instance.
5. Enter 2 to view the `Network Configuration` menu.
6. Enter 7 to update static routes and follow the on-screen prompts.
7. Press Enter.
8. Optionally, make additional changes.
9. Enter 9 to commit your changes.

Update domain search settings for the Console local deployment VM

You can update the search domain settings for the Console local deployment VM.

Steps

1. Open the VSphere client and log in to your VCenter.
2. Select the VM instance that hosts the Console local deployment.
3. Select **Launch Web Console**.
4. Log in to the VM instance using the user name and password that you specified when you created the VM instance. The username is `maint` and the password is the one that you specified when you created the VM instance.
5. Enter 2 to view the `Network Configuration` menu.
6. Enter 8 to update the domain search settings and follow the on-screen prompts.
7. Press Enter.
8. Optionally, make additional changes.
9. Enter 9 to commit your changes.

Access the Console local deployment diagnostic tools

Access diagnostic tools to troubleshoot issues with the Console local deployment. NetApp Support may ask you to do this when troubleshooting issues.

Steps

1. Open the VSphere client and log in to your VCenter.
2. Select the VM instance that hosts the Console local deployment.
3. Select **Launch Web Console**.
4. Log in to the VM instance using the user name and password that you specified when you created the VM instance. The username is `maint` and the password is the one that you specified when you created the VM instance.
5. Enter 3 to view the Support and Diagnostics menu.
6. Enter 1 to access the diagnostic tools and follow the on-screen prompts.

Access the Console local deployment diagnostic tools remotely

You can access diagnostic tools remotely with a tool such as Putty. Enable SSH access to the Console local deployment VM by assigning a one-time password.

SSH access enables advanced terminal features like copy and paste.

Steps

1. Open the VSphere client and log in to your VCenter.
2. Select the VM instance that hosts the Console local deployment.
3. Select **Launch Web Console**.
4. Log in to the VM instance using the user name and password that you specified when you created the VM instance. The username is `maint` and the password is the one that you specified when you created the VM instance.
5. Enter 3 to view the `Support and Diagnostics` menu.
6. Enter 2 to access the diagnostic tools and follow the on-screen prompts to configure a one-time password that expires in 24 hours.
7. Use an SSH tool such as Putty to connect to the Console local deployment VM using the user name `diag` and the one-time password that you configured.

Manage users and access

Manage member access in NetApp Console local deployment

In NetApp Console local deployment, review or change a user's roles across multiple folders or fleets, such as checking everything a storage engineer can access, adding a new role in another region, or removing that user's access when responsibilities change.

Required access roles

Super admin, Organization admin, or Folder or fleet admin (for folders and fleets that they are administering). [Learn about access roles](#).

You can view and manage access in two ways depending on your needs. If you want to view the roles that a particular user has across all the fleet in your organization, use the **Members** page.

If you want to confirm who can access a specific fleet, review the members assigned to that fleet instead. [Manage fleet access assignments](#).

To add a new member, service account, or directory user and assign their first role, use the onboarding task instead. [Add members and assign roles](#).

Understand how access is granted in NetApp Console

NetApp Console uses role-based access control (RBAC) to manage member permissions. You can assign predefined roles at the organization, folder, or fleet level, depending on the scope of access that a member needs.

Using role inheritance

A role that you assign at the organization or folder level is inherited by the child scopes beneath it, so change an inherited assignment at the higher scope where you originally granted it.

[Learn about role inheritance in NetApp Console local deployment.](#)

View roles assigned to a member

Confirm exactly which roles a member holds and at which scope before you make a change. For example, check whether a teammate already has the Storage admin role on the `Production-EU-West` fleet.

If you have the *Folder or fleet admin* role, the page displays all members in the organization. However, you can view and manage permissions only for the folders and fleets that you administer. [Learn about Folder or fleet admin actions in NetApp Console local deployment.](#)

1. From the **Members** page, navigate to a member in the table, select **...** and then select **View details**.
2. In the table, expand the respective row for organization, folder, or fleet where you want to view the member's assigned role and select **View** in the **Role** column.

Assign or modify member access

You can adjust a member's access whenever responsibilities change. For example, when a teammate takes on backup duties for a second region, add the Backup and Recovery admin role on that region's fleet without touching their existing storage roles.

If you need to add a new member and assign their first role, see [Add members and assign roles](#).

Add an access role to an existing member

Grant a member an additional role at the organization, folder, or fleet level when their responsibilities expand. For example, give a Storage admin the Backup and recovery admin role at the organization level so they can manage backup and recovery tasks across every fleet without losing their existing storage permissions.

You can assign a member an access role for your organization, folder, or fleet.

Members can have multiple roles within the same fleet and in different fleets. For example, smaller organizations may assign all available access roles to the same user, while larger organizations may have users do more specialized tasks. Alternatively, you could also assign one user the Ransomware resilience admin role at the organization level. In that example, the user would be able to perform Ransomware resilience tasks on all fleets within your organization.

Your access role strategy should align with the way you have organized your NetApp resources.

Steps

1. Select **Administration > Identity and access**.
2. Select **Members**.
3. Select one of the member tabs: **Users**, **Directory users**, or **Service accounts**.
4. Select the actions menu **...** next to the member that you want to assign a role and select **Add a role**.
5. To add a role, complete the steps in the dialog box:
 - **Select an organization, folder, or fleet:** Choose the level of your resource hierarchy that the member should have permissions for.

If you select the organization or a folder, the member will have permissions to everything that resides within the organization or folder.

- **Select a category:** Choose a role category. [Learn about access roles](#).
- **Select a Role:** Choose a role that provides the member with permissions for the resources that are associated with the organization, folder, or fleet that you selected.
- **Add role:** If you want to provide access to additional folders or fleets within your organization, select **Add role**, specify another folder or fleet or role category, and then select a role category and a corresponding role.

6. Select **Add new roles**.

Change a member's assigned role

Replace a member's existing role with a different one when their responsibilities shift. For example, when a Storage viewer on the `Production-US-East` fleet needs the Storage admin role instead.



Each user must have at least one role. You can't remove all roles from a user. If you need to remove all roles, delete the user from your organization.

Steps

1. Select **Administration > Identity and access**.
2. Select **Members**.
3. Select one of the member tabs: **Users**, **Directory users**, or **Service accounts**.
4. From the **Members** page, navigate to a member in the table, select **...** and then select **View details**.
5. In the table, expand the respective row for organization, folder, or fleet where you want to change the member's assigned role and select **View** in the **Role** column to view the roles assigned to this member.
6. You can change an existing role for a member or remove a role.
 - a. To change a member's role, select **Change** next to the role you want to change. You can only change a role to a role within the same role category. For example, you can change from one data service role to another. Confirm the change.
 - b. To unassign a member's role, select  next to the role to unassign the member the respective role. You'll be asked to confirm the removal.

Remove a member from your organization

Remove a member when they leave the organization or change roles in a way that ends their need for Console access. For example, when a contractor's engagement ends or an employee transfers to a team outside your Console organization.



Directory users

Removing a user from your directory prevents that user from authenticating. You should also remove the user from your Console organization to keep the member list accurate and to remove any roles that were assigned in Console local deployment.

Steps

1. Select **Administration > Identity and access**.
2. Select **Members**.

3. Select one of the member tabs: **Users**, **Directory users**, or **Service accounts**.
4. From the **Members** page, navigate to a member in the table, select **...** then select **Delete user**.
5. Confirm that you want to remove the member from your organization.

View or change fleet access assignments in NetApp Console local deployment

Audit or change member access assignments for folders and storage fleets in NetApp Console local deployment. Folder and fleet admins typically work from this view because it shows only the scopes that they administer.

Required access roles

Super admin, Organization admin, or Folder or fleet admin. [Learn about access roles](#).

Alternatively, you can manage all roles for a particular member across multiple folders or fleets. [Manage member access](#).

How folder and fleet access works

Console local deployment uses role-based access control (RBAC). A role that you assign at the folder level applies to all fleets and subfolders within that folder; a role that you assign at the fleet level applies only to that fleet's resources. [Learn about role inheritance in NetApp Console local deployment](#).



You can't change a role at the fleet level if a member inherits it from a folder or from the organization. To change inherited access, change the role at the higher scope.

View members assigned to a folder or fleet

Review exactly who can manage specific folder or fleet. For example, before associating a new production ONTAP cluster with the `Production-US-East` fleet, open the fleet's Access tab to confirm who has access.

Steps

1. Select **Administration > Identity and access**.
2. Select **Organization**.
3. From the Organization page, navigate to a folder or fleet in the table, select **...** and then select **Edit folder** or **Edit fleet**.
4. Select **Access** to view the members who have access to the folder or fleet.

Modify member access from a folder or fleet

Adjust the roles of members who already belong to your organization, scoped to a single folder or fleet. For example, when a teammate moves from a development fleet to a production fleet, promote them from Storage viewer to Storage admin on the production fleet without affecting their access elsewhere.

To add a new member and assign their first role, use the onboarding task instead. [Add members and assign roles](#).

Steps

1. From the Organization page, navigate to a folder or fleet in the table, select **...** and then select **Edit folder** or **Edit fleet**.

2. Select **Access** to view the list of members who have access.
3. Modify member access:
 - **Change a member's role:** For any member with a role other than Organization admin, select their existing role and choose a new role. The change applies only at this scope; roles inherited from a higher scope don't appear here.
 - **Remove member access at this scope:** For a member who has a role defined directly at this folder or fleet, remove the role to revoke their access at this scope. This doesn't remove the member from your organization or affect roles they have at other scopes.

[Remove a member from your organization.](#)

4. Select **Apply**.

Manage member security in NetApp Console local deployment

Secure user access to your NetApp Console local deployment organization by managing member security settings. You can direct local users to change their own passwords, manage local users' multi-factor authentication (MFA), and recreate service account credentials.

Required access roles

Super admin, Organization admin, or Folder or fleet admin. [Learn about access roles.](#)

Reset user passwords (local users only)

Administrators cannot reset local user passwords directly.

Direct local users to reset their passwords from the Console local deployment login page by selecting **Forgot password?**.



This option is not available for directory users.

Manage a local user's multi-factor authentication (MFA)

If a local user loses access to their MFA device, you can either remove or disable their MFA configuration.



Multi-factor authentication is only available for local users. Directory users cannot enable MFA through Console local deployment.

Use these guidelines to choose the right action:

- Select **Disable** when the user temporarily loses access to their MFA device. Disabling MFA allows one sign-in without MFA for eight hours and then automatically re-enables MFA.
- Select **Remove** when the user must fully reset MFA. After you remove MFA, the user signs in without MFA until they configure MFA again.

If a user has a saved recovery code, they can sign in with it. If a user does not have a recovery code, disable MFA so the user can sign in and regain access.



To manage a local user's multi-factor authentication, you must have an email address in the same domain as the affected user.

Steps

1. Select **Administration > Identity and access**.
2. Select **Members**.
3. From the Members page, navigate to a member in the table, select **...** and then select **Manage multi-factor authentication**.
4. Choose whether to remove or to disable the user's MFA configuration.

After you finish

Review the audit log to confirm who changed MFA access, when they changed it, and whether the action succeeded. [Learn how to audit NetApp Console local deployment activity](#).

Recreate the credentials for a service account

You can create new credentials for a service account if you lose or need to update them.

Creating new credentials deletes the old ones. You cannot use the old credentials.

Steps

1. Select **Administration > Identity and access**.
2. Select **Members**.
3. In the Members table, navigate to a service account, select **...** and then select **Recreate secrets**.
4. Select **Recreate**.
5. Download or copy the client ID and client secret.

The Console local deployment shows the client secret only once. Make sure you copy or download it and store it securely.

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