



Rename grid, sites, and nodes

StorageGRID

NetApp

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Rename grid, sites, and nodes

Rename grid, sites, and nodes: Overview

As required, you can change the display names that are shown throughout the Grid Manager for the entire grid, each site, and each node. You can update display names safely and whenever you need.

What is the rename procedure?

When you install StorageGRID initially, you specify a name for the grid, each site, and each node. These initial names are known as *system names*, and they are the names initially shown throughout StorageGRID.

System names are required for internal StorageGRID operations and can't be changed. However, you can use the rename procedure to define new *display names* for the grid, each site, and each node. These display names appear in various StorageGRID locations instead of (or in some cases, in addition to) the underlying system names.

Use the rename procedure to correct typos, to implement a different naming convention, or to indicate that a site and all of its nodes have been relocated. Unlike system names, display names can be updated whenever required and without impacting StorageGRID operations.

Where do system and display names appear?

The following table summarizes where system names and display names are shown in the StorageGRID user interface and in StorageGRID files.

Location	System name	Display name
Grid Manager pages	Shown unless the item is renamed	<p>If an item is renamed, shown instead of the system name in these locations:</p> <ul style="list-style-type: none"> • Dashboard • Nodes page • Configuration pages for high availability groups, load balancer endpoints, VLAN interfaces, key management servers, grid passwords, and firewall control • Alerts • Storage pool definitions • Object metadata lookup page • Pages related to maintenance procedures, including upgrade, hotfix, SANtricity OS upgrade, decommission, expansion, recovery, and object existence check • Support pages (logs and diagnostics) • Single sign-on page, next to the Admin Node hostname in the table for Admin Node details
NODES > Overview tab for a node	Always shown	Shown only if the item is renamed
Legacy pages in the Grid Manager (for example, SUPPORT > Grid Topology)	Shown	Not shown
node-health API	Always returned	Returned only if the item is renamed
Prompt when using SSH to access a node	<p>Shown as the primary name unless the item has been renamed:</p> <pre>admin@SYSTEM-NAME: ~ \$</pre> <p>Included in parentheses when the item is renamed:</p> <pre>admin@DISPLAY-NAME (SYSTEM-NAME) :~ \$</pre>	<p>Shown as the primary name when the item is renamed:</p> <pre>admin@DISPLAY-NAME (SYSTEM-NAME) :~ \$</pre>
Passwords.txt file in the Recovery Package	Shown as Server Name	Shown as Display Name

Location	System name	Display name
<p>/etc/hosts file on all nodes</p> <p>For example:</p> <pre data-bbox="137 304 507 508">10.96.99.128 SYSTEM- NAME 28989c59-a2c3- 4d30-bb09-6879adf2437f DISPLAY-NAME localhost-grid # storagegrid-gen-host</pre>	Always shown in the second column	When the item is renamed, shown in the fourth column
topology-display-names.json, included with AutoSupport data	Not included	Empty unless items have been renamed; otherwise, maps grid, site, and node IDs to their display names.

Display name requirements

Before using this procedure, review the requirements for display names.

Display names for nodes

Display names for nodes must follow these rules:

- Must be unique across your StorageGRID system.
- Can't be the same as the system name for any other item in your StorageGRID system.
- Must contain at least 1 and no more than 32 characters.
- Can contain numbers, hyphens (-), and uppercase and lowercase letters.
- Can start or end with a letter or number, but can't start or end with a hyphen.
- Can't be all numbers.
- Are case-insensitive. For example, DC1-ADM and dc1-adm are considered to be duplicates.

You can rename a node with a display name that was previously used by a different node, as long as the rename doesn't result in a duplicate display name or system name.

Display names for grid and sites

Display names for the grid and sites follow the same rules with these exceptions:

- Can include spaces.
- Can include these special characters: = - _ : , . @ !
- Can start and end with the special characters, including hyphens.
- Can be all numbers or special characters.

Display name best practices

If you plan to rename multiple items, document your general naming scheme before using this procedure. Come up with a system that ensures that names are unique, consistent, and easy to understand at a glance.

You can use any naming convention that fits your organizational requirements. Consider these basic suggestions of what to include:

- **Site indicator:** If you have multiple sites, add a site code to each node name.
- **Node type:** Node names typically indicate the node's type. You can use abbreviations like `s`, `adm`, `gw`, and `arc` (Storage Node, Admin Node, Gateway Node, and Archive Node).
- **Node number:** If a site contains more than one of a particular type of node, add a unique number to each node's name.

Think twice before adding specific details to the names that are likely to change over time. For example, don't include IP addresses in node names because these addresses can be changed. Similarly, rack locations or appliance model numbers can change if you move equipment or upgrade the hardware.

Example display names

Suppose your StorageGRID system has three data centers and has nodes of different types at each data center. Your display names might be as simple as these:

- **Grid:** StorageGRID Deployment

- **First site:** Data Center 1

- `dc1-adm1`
- `dc1-s1`
- `dc1-s2`
- `dc1-s3`
- `dc1-gw1`

- **Second site:** Data Center 2

- `dc2-adm2`
- `dc2-s1`
- `dc2-s2`
- `dc2-s3`

- **Third site:** Data Center 3

- `dc3-s1`
- `dc3-s2`
- `dc3-s3`

Add or update display names

You can use this procedure to add or update the display names used for your grid, sites,

and nodes. You can rename a single item, multiple items, or even all items at the same time. Defining or updating a display name does not affect StorageGRID operations in any way.

Before you begin

- From the **primary Admin Node**, you are signed in to the Grid Manager using a [supported web browser](#).



You can add or update display names from a non-primary Admin Node, but you must be signed in to the primary Admin Node to download a Recovery Package.

- You have the Maintenance or Root access permission.
- You have the provisioning passphrase.
- You understand the requirements and best practices for display names. See [Rename grid, sites, and nodes: Overview](#).

How to rename grid, sites, or nodes

You can rename your StorageGRID system, one or more sites, or one or more nodes.

You can use a display name that was previously used by a different node, as long as the rename doesn't result in a duplicate display name or system name.

Select items to rename

To start, select the items you want to rename.

Steps

- Select **MAINTENANCE > Tasks > Rename grid, sites, and nodes**.
- For the **Select names** step, select the items you want to rename.

Item to change	Instruction
Names of everything (or almost everything) in your system	<ol style="list-style-type: none">Select Select all.Optionally clear any items you don't want to rename.
Name of the grid	Select the checkbox for the grid.
Name of a site and some or all of its nodes	<ol style="list-style-type: none">Select the checkbox in the table header for the site.Optionally, clear any nodes you don't want to rename.
Name of a site	Select the checkbox for the site.
Name of a node	Select the checkbox for the node.

- Select **Continue**.
- Review the table, which includes the items you selected.
 - The **Display name** column shows the current name for each item. If the item has never been renamed,

its display name is the same as its system name.

- The **System name** column shows the name you entered for each item during installation. System names are used for internal StorageGRID operations and can't be changed. For example, the system name for a node might be its hostname.
- The **Type** column indicates the item's type: Grid, Site, or the specific type of node.

Propose new names

For the **Propose new names** step, you can enter a display name for each item individually, or you can rename items in bulk.

Rename items individually

Follow these steps to enter a display name for each item you want to rename.

Steps

1. In the **Display name** field, enter a proposed display name for each item in the list.

See [Rename grid, sites, and nodes: Overview](#) to learn the naming requirements.

2. To remove any items you don't want to rename, select  in the **Remove from list** column.

If you will not be proposing a new name for an item, you must remove it from the table.

3. When you have proposed new names for all items in the table, select **Rename**.

A success message appears. The new display names are now used throughout Grid Manager.

Rename items in bulk

Use the bulk rename tool if item names share a common string that you want to replace with a different string.

Steps

1. For the **Propose new names** step, select **Use bulk rename tool**.

The **Rename preview** includes all items that were shown for the **Propose new names** step. You can use the preview to see how display names will look after you replace a shared string.

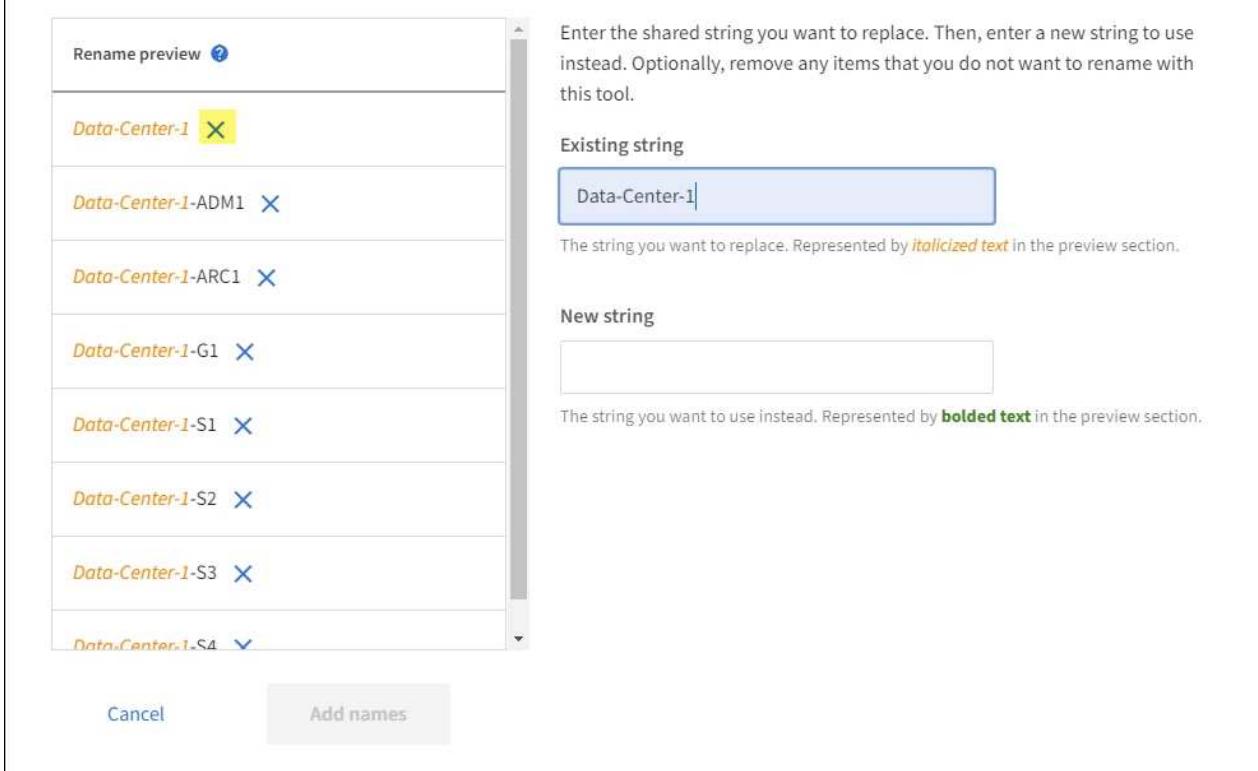
2. In the **Existing string** field, enter the shared string you want to replace. For example, if the string you want to replace is Data-Center-1, enter **Data-Center-1**.

As you type, your text is highlighted wherever it is found in the names on the left.

3. Select  to remove any items that you don't want to rename with this tool.

For example, suppose you want to rename all nodes that contain the string Data-Center-1, but you don't want to rename the Data-Center-1 site itself. Select  to remove the site from the rename preview.

Bulk rename tool

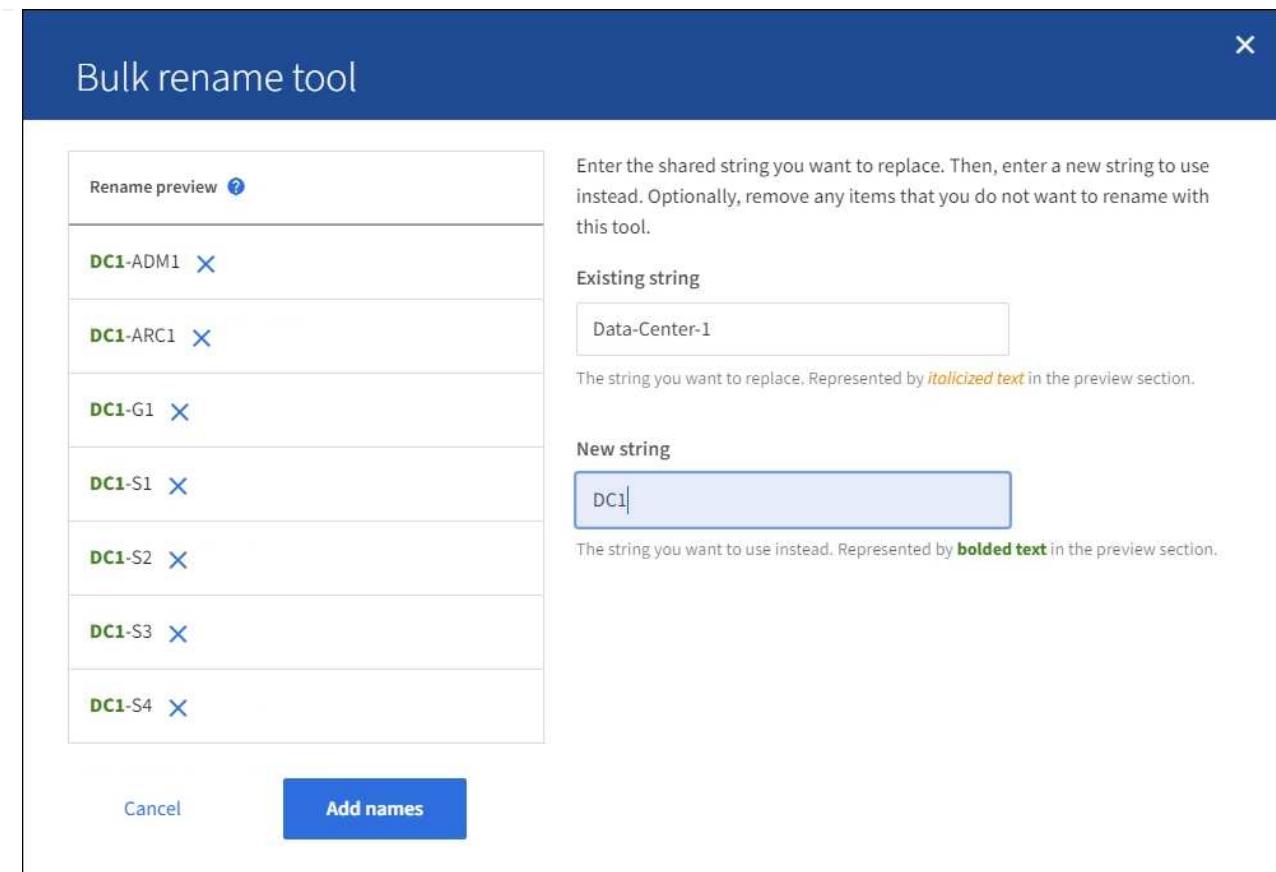


The screenshot shows the 'Bulk rename tool' interface. On the left, a 'Rename preview' section lists eight items, each with a yellow 'X' button to remove the item. The items are: *Data-Center-1*, *Data-Center-1-ADM1*, *Data-Center-1-ARC1*, *Data-Center-1-G1*, *Data-Center-1-S1*, *Data-Center-1-S2*, *Data-Center-1-S3*, and *Data-Center-1-S4*. To the right of this is a vertical scroll bar. To the right of the scroll bar is a help text: 'Enter the shared string you want to replace. Then, enter a new string to use instead. Optionally, remove any items that you do not want to rename with this tool.' Below this is a 'Existing string' input field containing 'Data-Center-1'. Below the input field is a note: 'The string you want to replace. Represented by *italicized text* in the preview section.' Below the note is a 'New string' input field, which is currently empty. Below the input field is a note: 'The string you want to use instead. Represented by **bolded text** in the preview section.' At the bottom left are 'Cancel' and 'Add names' buttons.

4. In the **New string** field, enter the replacement string you want to use instead. For example, enter **DC1**.

See [Rename grid, sites, and nodes: Overview](#) to learn the naming requirements.

As you enter the replacement string, the names on the left are updated, so you can verify that the new names will be correct.



5. When you are satisfied with the names shown in the preview, select **Add names** to add the names to the table for the **Propose new names** step.
6. Make any additional changes required, or select **X** to remove any items that you don't want to rename.
7. When you are ready to rename all items in the table, select **Rename**.

A success message is shown. The new display names are now used throughout Grid Manager.

Download the recovery package

When you are done renaming items, download and save a new Recovery Package. The new display names for the items you renamed are included in the `Passwords.txt` file.

Steps

1. Enter the provisioning passphrase.
2. Select **Download Recovery Package**.

The download starts immediately.

3. When the download completes, open the `Passwords.txt` file to see the server name for all nodes and the display names for any renamed nodes.
4. Copy the `sgws-recovery-package-id-revision.zip` file to two safe, secure, and separate locations.



The Recovery Package file must be secured because it contains encryption keys and passwords that can be used to obtain data from the StorageGRID system.

5. Select **Finish** to return to the first step.

Revert display names back to system names

You can revert a renamed grid, site, or node back to its original system name. When you revert an item back to its system name, Grid Manager pages and other StorageGRID locations no longer show a **Display name** for that item. Only the item's system name is shown.

Steps

1. Select **MAINTENANCE > Tasks > Rename grid, sites, and nodes**.
2. For the **Select names** step, select any items you want to revert back to system names.
3. Select **Continue**.
4. For the **Propose new names** step, revert display names back to system names individually or in bulk.

Revert to system names individually

- a. Copy each item's original system name and paste it into the **Display name** field, or select to remove any items you don't want to revert.

To revert a display name, the system name must appear in the **Display name** field, but the name is case insensitive.

- b. Select **Rename**.

A success message appears. The display names for these items are no longer used.

Revert to system names in bulk

- a. For the **Propose new names** step, select **Use bulk rename tool**.
- b. In the **Existing string** field, enter the display name string you want to replace.
- c. In the **New string** field, enter the system name string you want to use instead.
- d. Select **Add names** to add the names to the table for the **Propose new names** step.
- e. Confirm that each entry in the **Display name** field matches the name in the **System name** field. Make any changes or select to remove any items that you don't want to revert.

To revert a display name, the system name must appear in the **Display name** field, but the name is case insensitive.

- f. Select **Rename**.

A success message is shown. The display names for these items are no longer used.

5. [Download and save a new Recovery Package](#).

Display names for the items you reverted are no longer included in the `Passwords.txt` file.

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