



Chassis Profiles

- [Chassis Profiles in Cisco UCS Manager, on page 1](#)
- [Guidelines and Recommendations for Chassis Profiles, on page 2](#)
- [Creating a Chassis Profile with the Wizard, on page 2](#)
- [Renaming a Chassis Profile, on page 3](#)
- [Cloning a Chassis Profile, on page 4](#)
- [Deleting a Chassis Profile, on page 5](#)
- [Chassis Profile Association, on page 5](#)
- [Chassis Profile Template, on page 6](#)
- [Chassis Maintenance Policy, on page 11](#)
- [Compute Connection Policy, on page 13](#)

Chassis Profiles in Cisco UCS Manager

A chassis profile defines the storage, firmware, and maintenance characteristics of a chassis. You can create a chassis profile for the Cisco UCS S3260 chassis. When a chassis profile is associated to a chassis, Cisco UCS Manager automatically configures the chassis to match the configuration specified in the chassis profile.



Important At any given time, each S3260 chassis can be associated with only one chassis profile. Similarly, each chassis profile can be associated with only one S3260 chassis at a time.

A chassis profile includes the following information:

- **Chassis definition**—Defines the specific chassis to which the profile is assigned.
- **Maintenance policy**—Includes the maintenance policy to be applied to the profile.
- **Firmware specifications**—Defines the chassis firmware package that can be applied to a chassis through this profile.
- **Disk zoning policy**—Includes the zoning policy to be applied to the storage disks.
- **Compute Connection policy** — Defines the data path between the primary, auxiliary SIOC, and server.

Guidelines and Recommendations for Chassis Profiles

In addition to any guidelines or recommendations that are specific to the policies included in chassis profiles and chassis profile templates, such as the disk zoning policy, adhere to the following guidelines and recommendations that impact the ability to associate a chassis profile with a chassis:

- Each S3260 chassis can be associated with only one chassis profile. Similarly, each chassis profile can be associated with only one S3260 chassis at a time.
- Chassis profiles are supported only on the Cisco UCS S3260 chassis. The Cisco UCS 5108 blade server chassis does not support chassis profiles and cannot be associated to a chassis profile.
- For Cisco UCS S3260 chassis, S-Series server software bundles earlier than Cisco UCS Manager Release 3.1(2) are not supported.

Creating a Chassis Profile with the Wizard

Procedure

Step 1 In the **Navigation** pane, click **Chassis**.

Step 2 Expand **Chassis > Chassis Profiles**.

Step 3 Expand the node for the organization where you want to create the chassis profile.

If the system does not include multi tenancy, expand the **root** node.

Step 4 Right-click the organization and select **Create Chassis Profile**.

Step 5 In the **Identify Chassis Profile** panel, specify the chassis profile **Name** and click **Next**.

This name can be between 1 and 16 alphanumeric characters. You cannot use spaces or any special characters other than - (hyphen), _ (underscore), : (colon), and . (period), and you cannot change this name after the object is saved.

You can provide an optional description for this chassis profile.

Note To create a chassis profile quickly, you can click **Finish** after specifying the name. Cisco UCS Manager creates a new chassis profile with the specified name and all system default values.

Step 6 (Optional) In the **Chassis Maintenance Policy** panel, specify the maintenance policy, then click **Next**.

You can create a new maintenance policy from this panel. [Creating a Chassis Maintenance Policy, on page 11](#) provides more information about creating a chassis maintenance policy.

Step 7 (Optional) In the **Chassis Assignment** panel, specify the following, and then click **Next**.

a) Specify the **Chassis Assignment** from the drop-down list.

You can specify **Chassis Assignment** as one of the following:

- **Assign Later**—Allows you to assign a chassis after you have created and configured the chassis profile.

- **Select existing Chassis**—Displays a table of available, unassociated chassis that you can use to select the chassis which will be assigned to the chassis profile.

To restrict the migration of the chassis profile after it has been associated with a chassis, check the **Restrict Migration** check box.

If you choose not to restrict migration, Cisco UCS Manager does not perform any compatibility checks on the new chassis before migrating the existing chassis profile. If the chassis types are not similar, the association might fail.

- b) To associate a **Chassis Firmware Package** with this chassis profile, expand the **Chassis Firmware Package** area and specify a chassis firmware package.

You can create a chassis firmware package from this panel. [Creating a Chassis Firmware Package](#) provides more information about creating a chassis firmware package.

- c) To associate a **Compute Connection Policy** with this chassis profile, expand the **Compute Connection Policy** area and specify a compute connection policy. See [Server SIOC Connectivity Functionality](#) for more details on **Compute Connection Policy** and Server SIOC Connectivity functionality.

You can create a compute connection policy from this panel. [Creating a Compute Connection Policy, on page 13](#) provides more information about creating a compute connection policy.

Step 8 (Optional) In the **Disk Zoning Policy** panel, specify the disk zoning policy, then click **Next**.

You can create a disk zoning policy from this panel. [Creating a Disk Zoning Policy](#) provides more information about creating a disk zoning policy.

Note If you do not select a disk zoning policy, the default disk zoning policy is used. **Preserve Config** is selected by default in the default disk zoning policy.

Step 9 (Optional) In the **Sas Expander Configuration Policy** panel, specify the SAS Expander Configuration policy, then click **Next**.

You can create a Sas Expander Configuration policy from this panel. [Creating Sas Expander Configuration Policy](#) provides more information about creating a Sas Expander Configuration policy.

Note If you do not select a Sas Expander Configuration policy, the default Sas Expander Configuration policy is used. **No Change** is selected by default in the default Sas Expander Configuration policy.

Step 10 Click **Finish**.

Renaming a Chassis Profile

When you rename a chassis profile, the following occurs:

- Event logs and audit logs that reference the previous name for the chassis profile are retained under that name.
- A new audit record is created to log the rename operation.
- All records of faults against the chassis profile under its previous name are transferred to the new chassis profile name.



Note You cannot rename a chassis profile with pending changes.

Procedure

- Step 1** In the **Navigation** pane, click **Chassis**.
 - Step 2** Expand **Chassis > Chassis Profiles**.
 - Step 3** Expand the node for the organization that includes the chassis profile you want to rename.
If the system does not include multi tenancy, expand the **root** node.
 - Step 4** Click the chassis profile you want to rename.
 - Step 5** In the **Work** pane, click the **General** tab.
 - Step 6** In the **Actions** area, click **Rename Chassis Profile**.
 - Step 7** In the **Rename Chassis Profile** dialog box, enter the new name for the chassis profile in the **New Name** field.
This name can be between 1 and 16 alphanumeric characters. You cannot use spaces or any special characters other than - (hyphen), _ (underscore), : (colon), and . (period), and you cannot change this name after the object is saved.
 - Step 8** Click **OK**.
-

Cloning a Chassis Profile

Procedure

- Step 1** In the **Navigation** pane, click **Chassis**.
- Step 2** Expand **Chassis > Chassis Profiles**.
- Step 3** Expand the node for the organization that includes the chassis profile you want to clone.
If the system does not include multi tenancy, expand the **root** node.
- Step 4** Right-click the chassis profile you want to clone and select **Create a Clone**.
- Step 5** In the **Create Clone From Chassis Profile** dialog box:
 - a) Enter the name you want to use for the new profile in the **Clone Name** field.
This name can be between 1 and 16 alphanumeric characters. You cannot use spaces or any special characters other than - (hyphen), _ (underscore), : (colon), and . (period), and you cannot change this name after the object is saved.

This name must be unique within the organization or sub-organization in which you are creating the chassis profile.
 - b) (Optional) Select the organization or sub-organization in which you want to create the chassis profile.
 - c) Click **OK**.

- Step 6** Navigate to the chassis profile you just created and make sure that all options are correct.
-

Deleting a Chassis Profile

Procedure

- Step 1** In the **Navigation** pane, click **Chassis**.
- Step 2** Expand **Chassis > Chassis Profiles**.
- Step 3** Right-click the chassis profile that you want to delete and select **Delete**.
- Step 4** If a confirmation dialog box displays, click **Yes**.
- Step 5** Click **OK**.
-

Chassis Profile Association

Associating a Chassis Profile with a Chassis

Follow this procedure if you did not associate the chassis profile with a chassis when you created it or to change the chassis with which a chassis profile is associated.

Procedure

- Step 1** In the **Navigation** pane, click **Chassis**.
- Step 2** Expand **Chassis > Chassis Profiles**.
- Step 3** Expand the node for the organization that contains the chassis profile that you want to associate with a new chassis.
- If the system does not include multi tenancy, expand the **root** node.
- Step 4** Right-click the chassis profile that you want to associate with a chassis and select **Change Chassis Profile Association**.
- Step 5** In the **Associate Chassis Profile** dialog box, select the **Select existing Chassis** option from the drop-down list.
- This displays a table of available, unassociated chassis that you can use to select the chassis which will be assigned to the chassis profile.
- Step 6** In the **Select** column of the table of available chassis, click the radio button for the chassis that you want to associate with this chassis profile.
- Step 7** (Optional) To restrict the migration of the chassis profile after it has been associated with a chassis, check the **Restrict Migration** check box.

If you choose not to restrict migration, Cisco UCS Manager does not perform any compatibility checks on the new chassis before migrating the existing chassis profile. If the hardware of both chassis are not similar, the association might fail.

Step 8 Click OK.

Disassociating a Chassis Profile from a Chassis

Procedure

- Step 1** In the **Navigation** pane, click **Chassis**.
- Step 2** Expand **Chassis > Chassis Profiles**.
- Step 3** Expand the node for the organization that contains the chassis profile that you want to disassociate from a chassis.
- If the system does not include multi tenancy, expand the **root** node.
- Step 4** Right-click the chassis profile you want to disassociate from a chassis and select **Disassociate Chassis Profile**.
- Step 5** In the **Disassociate Chassis Profile** dialog box, click **Yes** to confirm.
- Step 6** (Optional) Monitor the status and FSM for the chassis to confirm that the disassociation is complete.
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Chassis Profile Template

Chassis Profile Templates

With a chassis profile template, you can quickly create several chassis profiles with the same basic parameters, such as the maintenance policy and the disk zoning policy.



Tip If you need only one chassis profile with similar values to an existing chassis profile, you can clone a chassis profile in the Cisco UCS Manager GUI.

For example, if you need several chassis profiles with similar values, you can create a chassis profile template, either manually or from an existing chassis profile. You can then use the template to create the chassis profiles.

Cisco UCS supports the following types of chassis profile templates:

Initial template

Chassis profiles created from an initial template inherit all the properties of the template. Chassis profiles created from an initial chassis profile template are bound to the template. However, changes to the initial template do not automatically propagate to the bound chassis profiles. If you want to propagate changes to bound chassis profiles, unbind and rebind the chassis profile to the initial template.

Updating template

Chassis profiles created from an updating template inherit all the properties of the template and remain connected to the template. Any changes to the template automatically update the chassis profiles created from the template.

Creating a Chassis Profile Template

Procedure

- Step 1** In the **Navigation** pane, click **Chassis**.
- Step 2** Expand **Chassis > Chassis Profile Templates**.
- Step 3** Expand the node for the organization where you want to create the chassis profile template.
If the system does not include multi tenancy, expand the **root** node.
- Step 4** Right-click the organization and choose **Create Chassis Profile Template**.
- Step 5** In the **Identify Chassis Profile Template** panel, specify the chassis profile **Name** and **Type**, and then click **Next**.
You can provide an optional description for this chassis profile template.
- Note** To create a chassis profile template quickly, you can click **Finish** after specifying the name. Cisco UCS Manager creates a new chassis profile template with the specified name and all system default values.
- Step 6** (Optional) In the **Chassis Maintenance Policy** panel, specify the chassis maintenance policy, then click **Next**.
You can create a new chassis maintenance policy from this panel.
- Step 7** (Optional) In the **Policies** panel, specify the following, then click **Next**.
- To associate a **Chassis Firmware Package**, expand the **Chassis Firmware Package** area and specify a chassis firmware package.
You can create a chassis firmware package from this panel. [Creating a Chassis Firmware Package](#) provides more information about creating a chassis firmware package.
 - To associate a **Compute Connection Policy**, expand the **Compute Connection Policy** area and specify a compute connection policy. See [Server SIOC Connectivity Functionality](#) for more details on **Compute Connection Policy** and Server SIOC Connectivity functionality.
You can create a compute connection policy from this panel. [Creating a Compute Connection Policy, on page 13](#) provides more information about creating a compute connection policy.
- Step 8** (Optional) In the **Disk Zoning Policy** panel, specify the disk zoning policy, then click **Next**.
You can create a disk zoning policy from this panel.
- Step 9** Click **Finish**.
-

Creating One or More Chassis Profiles from a Chassis Profile Template

Procedure

- Step 1** In the **Navigation** pane, click **Chassis**.
- Step 2** Expand **Chassis > Chassis Profile Templates**.
- Step 3** Expand the node for the organization that contains the chassis profile template that you want to use as the basis for your chassis profiles.
- If the system does not include multi tenancy, expand the **root** node.
- Step 4** Right-click the chassis profile template from which you want to create the profiles and select **Create Chassis Profiles From Template**.
- Step 5** In the **Create Chassis Profiles From Template** dialog box, complete the following fields:

| Name | Description |
|--|---|
| Naming Prefix field | The prefix to use for the template name. When the system creates the chassis profile, it appends a unique numeric identifier to this prefix. This number begins with the number specified in the Name Suffix Starting Number field. Enter between 1 and 29 alphanumeric characters. You cannot use spaces or any special characters other than - (hyphen), _ (underscore), : (colon), and . (period). |
| Name Suffix Starting Number field | The first unique numeric identifier that is assigned as a suffix to a chassis profile Naming Prefix . |
| Number of Instances field | The number of chassis profiles to create. Enter a number between 1 and 255. For example, if you specify the Naming Prefix as MyProfile , the Name Suffix Starting Number as 1, and the Number of Instances as 2, the first chassis profile would be called MyProfile1 and the second would be MyProfile2. |
| Chassis Profile Template field | The name of the chassis profile template. |

- Step 6** Click **OK**.

Creating a Chassis Profile Template from a Chassis Profile

Procedure

- Step 1** In the **Navigation** pane, click **Chassis**.
- Step 2** Expand **Chassis > Chassis Profiles**.

Step 3 Expand the node for the organization that contains the chassis profile that you want to use as the basis for your template.

If the system does not include multi tenancy, expand the **root** node.

Step 4 Right-click the chassis profile from which you want to create the template and select **Create a Chassis Profile Template**.

Step 5 In the **Create Template From Chassis Profile** dialog box, complete the following fields:

| Name | Description |
|---------------------|---|
| Template Name field | The name of the chassis profile template |
| Org drop-down list | Select the organization that you want this template to be associated with. |
| Type field | The type of template. This can be one of the following: <ul style="list-style-type: none"> • Initial Template—Any chassis profiles created from this template are not updated if the template changes. • Updating Template—Any chassis profiles created from this template are updated if the template changes. |

Step 6 Click **OK**.

Cloning a Chassis Template Profile

Procedure

Step 1 In the **Navigation** pane, click **Chassis**.

Step 2 Expand **Chassis > Chassis Profile Templates**.

Step 3 Expand the node for the organization that includes the chassis template profile you want to clone.

If the system does not include multi tenancy, expand the **root** node.

Step 4 Right-click the chassis template profile you want to clone and select **Create a Clone**.

Step 5 In the **Create Clone From Chassis Template Profile** dialog box:

a) Enter the name you want to use for the new profile in the **Clone Name** field.

This name can be between 1 and 16 alphanumeric characters. You cannot use spaces or any special characters other than - (hyphen), _ (underscore), : (colon), and . (period), and you cannot change this name after the object is saved.

This name must be unique within the organization or sub-organization in which you are creating the chassis template profile.

b) (Optional) Select the organization or sub-organization in which you want to create the chassis template profile.

c) Click **OK**.

- Step 6** Navigate to the chassis template profile you just created and make sure that all options are correct.
-

Changing the Maintenance Policy for a Chassis Profile Template

Procedure

- Step 1** In the **Navigation** pane, click **Chassis**.
- Step 2** Expand **Chassis > Chassis Profile Templates**.
- Step 3** Expand the node for the organization that includes the chassis profile template whose chassis maintenance policy you want to change.
- If the system does not include multi tenancy, expand the **root** node.
- Step 4** Click the chassis profile template you want to modify.
- Step 5** In the **Work** pane click the **General** tab.
- Step 6** In the **Actions** area, click **Change Chassis Maintenance Policy**
- Step 7** In the **Change Chassis Maintenance Policy** dialog box, specify the chassis maintenance policy from the **Chassis Maintenance Policy** drop-down list, then click **OK**.
- You can create a new maintenance policy from this panel.
-

Binding a Chassis Profile to a Chassis Profile Template

You can bind a chassis profile to a chassis profile template. When you bind the chassis profile to a template, Cisco UCS Manager configures the chassis profile with the values defined in the chassis profile template. If the existing chassis profile configuration does not match the template, Cisco UCS Manager reconfigures the chassis profile. You can only change the configuration of a bound chassis profile through the associated template.

Procedure

- Step 1** In the **Navigation** pane, click **Chassis**.
- Step 2** Expand **Chassis > Chassis Profiles**.
- Step 3** Expand the node for the organization that includes the chassis profile that you want to bind.
- If the system does not include multi-tenancy, expand the **root** node.
- Step 4** Click the chassis profile that you want to bind.
- Step 5** In the **Work** pane, click the **General** tab.
- Step 6** In the **Actions** area, click **Bind to a Template**.
- Step 7** In the **Bind to a Chassis Profile Template** dialog box, do the following:
- From the **Chassis Profile Template** drop-down list, choose the template to which you want to bind the chassis profile.

- b) Click **OK**.

Unbinding a Chassis Profile from a Chassis Profile Template

Procedure

- Step 1** In the **Navigation** pane, click **Chassis**.
- Step 2** Expand **Chassis > Chassis Profiles**.
- Step 3** Expand the node for the organization that includes the chassis profile that you want to unbind.
If the system does not include multi-tenancy, expand the **root** node.
- Step 4** Click the chassis profile that you want to unbind.
- Step 5** In the **Work** pane, click the **General** tab.
- Step 6** In the **Actions** area, click **Unbind from the Template**.
- Step 7** If a confirmation dialog box displays, click **Yes**.

Chassis Maintenance Policy

Creating a Chassis Maintenance Policy

Procedure

- Step 1** In the **Navigation** pane, click **Chassis**.
- Step 2** Expand **Chassis > Policies**.
- Step 3** Expand the node for the organization where you want to create the policy.
If the system does not include multi tenancy, expand the **root** node.
- Step 4** Right-click **Chassis Maintenance Policies** and choose **Create Chassis Maintenance Policy**.
- Step 5** In the **Create Chassis Maintenance Policy** dialog box, complete the following fields:

| Name | Description |
|------------|---|
| Name field | <p>The name of the policy.</p> <p>This name can be between 1 and 16 alphanumeric characters. You cannot use spaces or any special characters other than - (hyphen), _ (underscore), : (colon), and . (period), and you cannot change this name after the object is saved.</p> |

| Name | Description |
|----------------------------|---|
| Description field | <p>A description of the policy. Cisco recommends including information about where and when to use the policy.</p> <p>Enter up to 256 characters. You can use any characters or spaces except ` (accent mark), \ (backslash), ^ (carat), " (double quote), = (equal sign), > (greater than), < (less than), or ' (single quote).</p> |
| Reboot Policy field | <p>When a chassis profile is associated with a chassis, or when changes are made to a chassis profile that is already associated with a chassis, you must power cycle the chassis to complete the process. The Reboot Policy field determines when the power cycle occurs for chassis associated with any chassis profiles that include this chassis maintenance policy. Chassis profiles and chassis profile templates support only one reboot policy:</p> <p>User Ack—The user must power cycle the chassis manually after the chassis profile association is complete or changes are made.</p> |

Step 6 Click **OK**.

What to do next

Include the policy in a chassis profile or chassis profile template.

Changing the Maintenance Policy for a Chassis Profile

Procedure

- Step 1** In the **Navigation** pane, click **Chassis**.
- Step 2** Expand **Chassis > Chassis Profiles**.
- Step 3** Expand the node for the organization that includes the chassis profile whose maintenance policy you want to change.
- If the system does not include multi tenancy, expand the **root** node.
- Step 4** Right-click the chassis profile you want to modify and select **Change Chassis Maintenance Policy**.
- Step 5** In the **Change Chassis Maintenance Policy** dialog box, specify the chassis maintenance policy from the **Chassis Maintenance Policy** drop-down list, then click **OK**.
- You can create a new chassis maintenance policy from this panel.

Note The chassis profile will immediately reboot when disruptive changes are applied.

Deleting a Chassis Maintenance Policy

Procedure

- Step 1** In the **Navigation** pane, click **Chassis**.
 - Step 2** Expand **Chassis > Policies > Organization_Name**.
 - Step 3** Expand **Chassis Maintenance Policies**.
 - Step 4** Right-click the chassis maintenance policy you want to delete and choose **Delete**.
 - Step 5** If a confirmation dialog box displays, click **Yes**.
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Compute Connection Policy

Compute Connection Policy is used to store the user configuration of the server SIOC connectivity. The configuration settings are done using the property **Server SIOC Connectivity**, which can be set to:

- **single-server-single-sioc** (default) - The data path is configured through one SIOC when the chassis has single server and single SIOC or dual server and dual SIOCs.
- **single-server-dual-sioc** - When enabled, you can configure the data path through both the primary and auxiliary SIOCs when the chassis has single server and dual SIOCs. See [Server SIOC Connectivity Functionality](#) for more details.

Creating a Compute Connection Policy

Procedure

- Step 1** In the **Navigation** pane, click **Chassis**.
- Step 2** Expand **Chassis > Policies > Organization_Name**.
- Step 3** Right-click **Compute Connection Policies** and select **Create Compute Connection Policy**.
- Step 4** In the **Create Compute Connection Policy** pane, enter the following:
 - **Name** - Enter a name for the policy.
 - **Description** - A brief description of the policy.
 - **Server SIOC Connectivity** - Select one of the following:
 - **single-server-single-sioc** (default) - The data path is configured through one SIOC when the chassis has single server and single SIOC or dual server and dual SIOCs.

- **single-server-dual-sioc** - When enabled, you can configure the data path through both the primary and auxiliary SIOCs when the chassis has single server and dual SIOCs. See [Server SIOC Connectivity Functionality](#) for more details.

Step 5 Click **OK**.

Note In GUI, once **Compute Conn Policy** property is set to **single-server-dual-sioc**, then Cisco UCS Manager displays a message, warning that this operation causes server reboot. After acknowledging the message, chassis association is triggered. When Server SIOC Connectivity configuration is successfully deployed, Cisco UCS Manager automatically triggers server deep discovery.

Associating a Compute Connection Policy to Chassis Profile

Procedure

- Step 1** In the **Navigation** pane, click **Chassis**.
- Step 2** Expand **Chassis > Chassis Profiles > Chassis_Profile_Name**.
- Step 3** Select the **Policies** tab.
- Step 4** Expand **Compute Connection Policies** area.
- Step 5** Select a policy from the **Compute Connection Policies** drop-down list.
- Step 6** Click **Save Changes**.
-