



Integrating an IPAM Server

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Basics

Why Is This Task Important?

Integrating an IP address management (IPAM) server with Cisco DNA Center is an initial task that you can perform to prepare the system for use.


IPAM integration provides the ability to see network IP address scopes and determine the scopes that the enterprise owns.

In SD-Access deployments, IPAM integration provides:

- Access to existing IP address scopes, referred to as IP address pools in Cisco DNA Center.
- When configuring new IP address pools in Cisco DNA Center, the pools populate to the IPAM server automatically, reducing IP address management tasks.

This training introduces you to key IPAM integration concepts and provides the steps that you take to integrate an IPAM server.

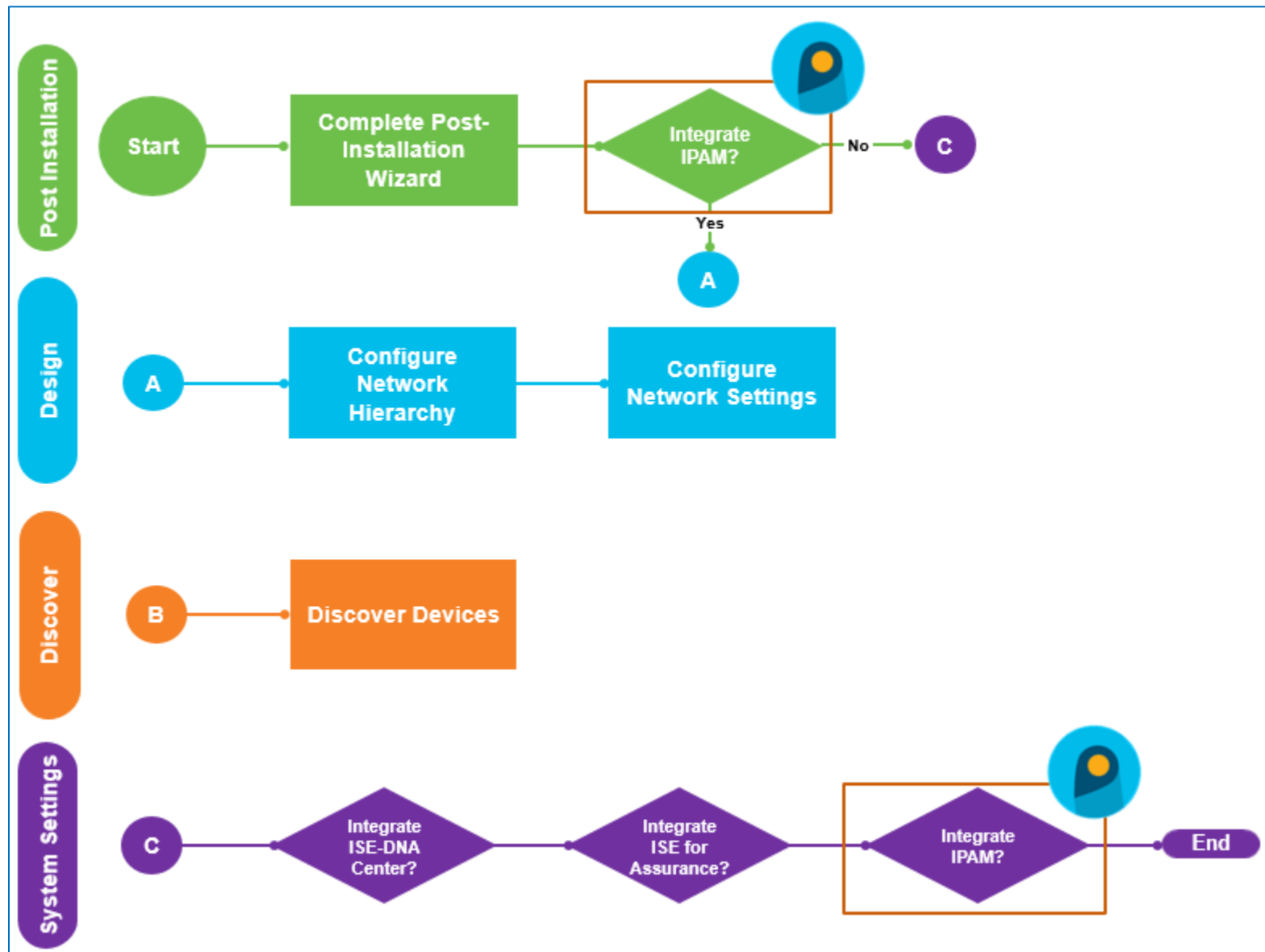
When Does It Happen?

 **Tip:** For optimal legibility, set the PDF zoom level to 100%.

In the Post-Installation Workflow or in System Settings

In the Cisco DNA Center system configuration workflow, integrating an IPAM server is an initial network task after installing the appliance. You can complete the task either:

- When logging in for the first time, in the post-installation wizard.
- In the Cisco DNA Center interface, in the administrative system settings.

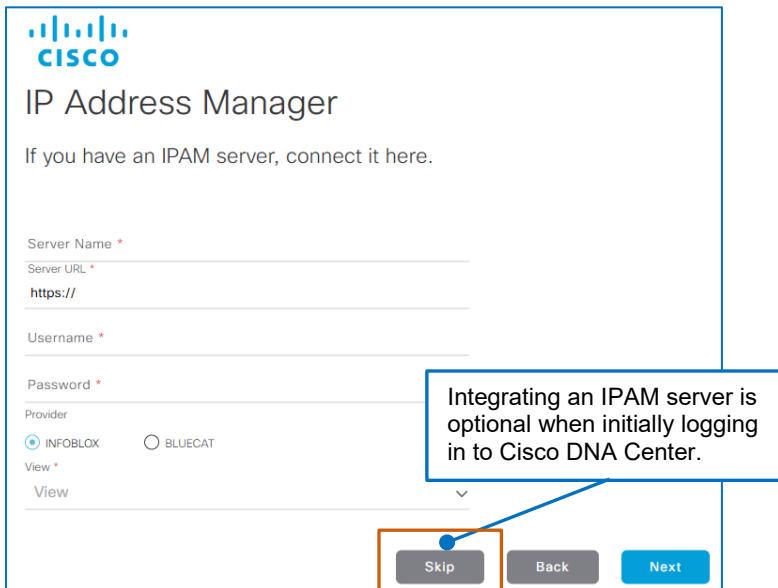


Where Does It Happen?

When Logging In the First Time

When an administrator initially logs in to Cisco DNA Center after installation, the system provides a post-installation wizard with configuration steps, including one for integrating an IPAM server.

The administrator can bypass these tasks at this point.



IP Address Manager

If you have an IPAM server, connect it here.

Server Name *

Server URL *
https://

Username *

Password *

Provider
 INFOBLOX BLUECAT

View *

View

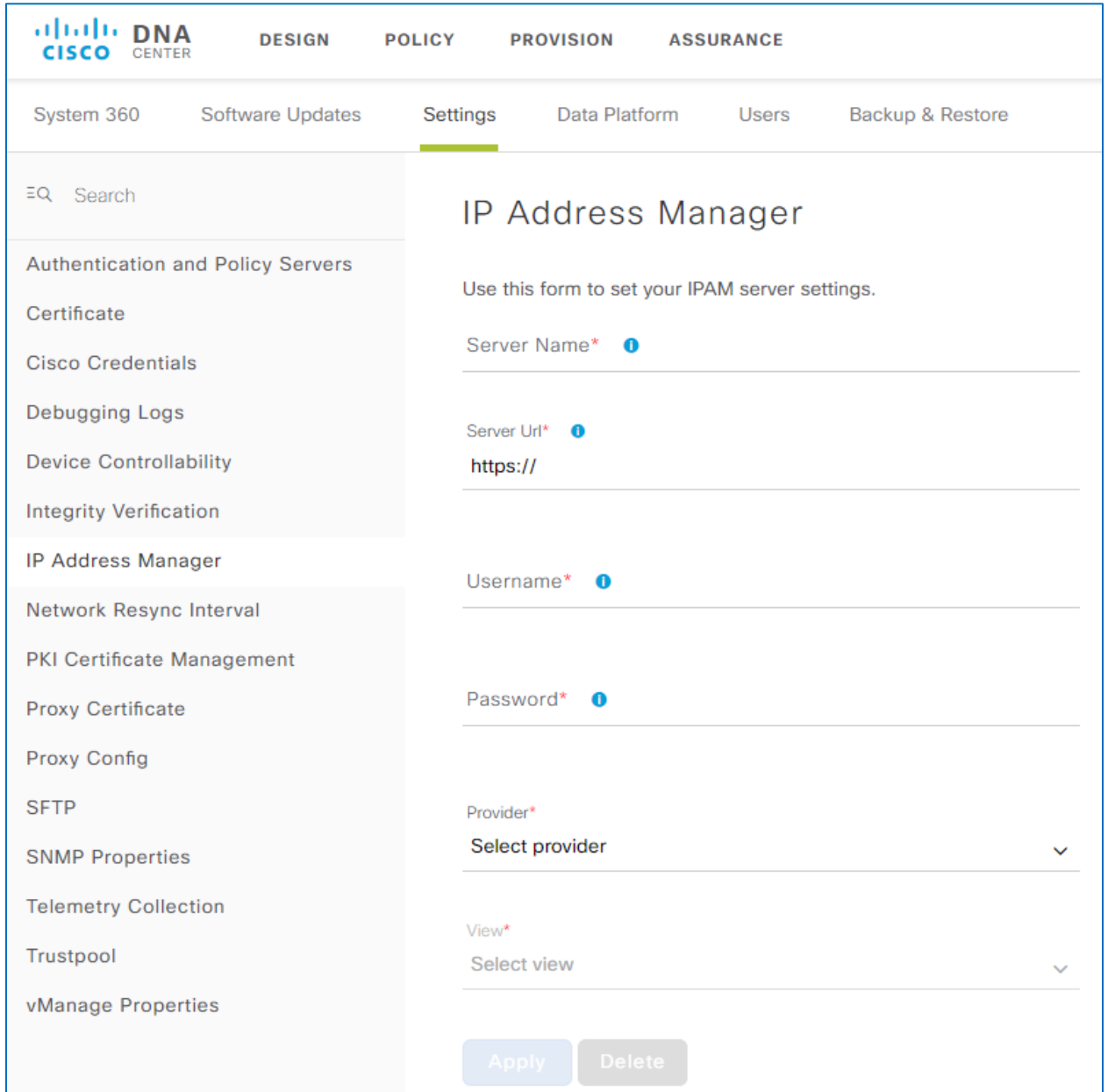
Skip Back Next

Integrating an IPAM server is optional when initially logging in to Cisco DNA Center.

In that case, you can integrate an IPAM server [in the Cisco DNA Center user interface](#).

Or, In the Cisco DNA Center User Interface

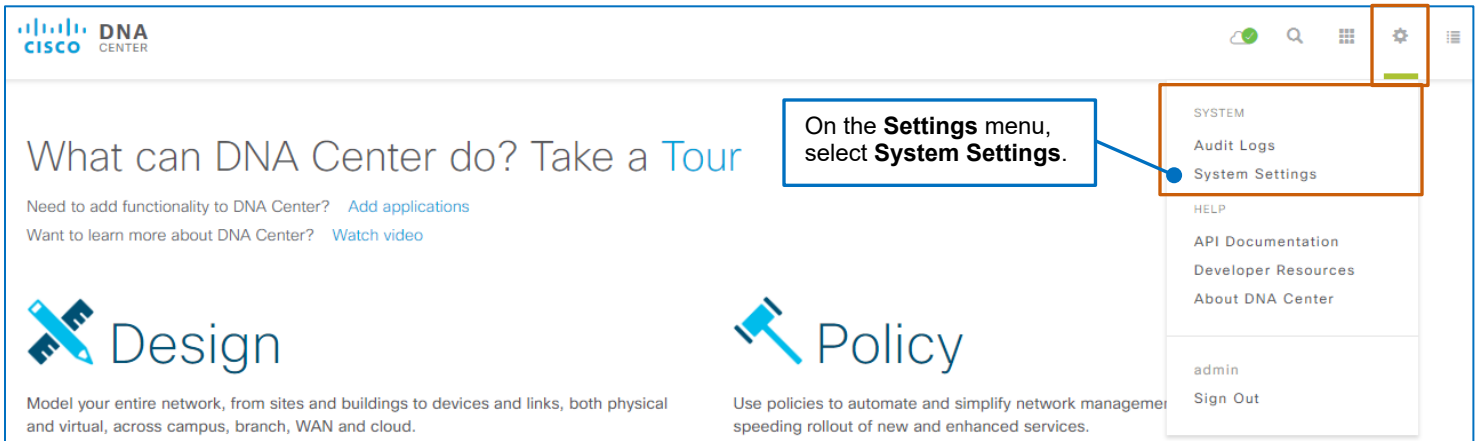
You integrate the IPAM servers in administrative **System Settings** on the **IP Address Manager** page.



The screenshot shows the Cisco DNA Center user interface. At the top, there is a navigation bar with the Cisco DNA Center logo and tabs for DESIGN, POLICY, PROVISION, and ASSURANCE. Below this is a secondary navigation bar with links for System 360, Software Updates, Settings (highlighted), Data Platform, Users, and Backup & Restore. A search bar is located on the left side of the main content area. The main content area is titled "IP Address Manager" and contains a form for configuring IPAM server settings. The form includes fields for Server Name*, Server Url* (with a value of https://), Username*, Password*, Provider* (a dropdown menu set to "Select provider"), and View* (a dropdown menu set to "Select view"). At the bottom of the form are "Apply" and "Delete" buttons. The left sidebar contains a list of system settings categories, including Authentication and Policy Servers, Certificate, Cisco Credentials, Debugging Logs, Device Controllability, Integrity Verification, IP Address Manager (highlighted), Network Resync Interval, PKI Certificate Management, Proxy Certificate, Proxy Config, SFTP, SNMP Properties, Telemetry Collection, Trustpool, and vManage Properties.

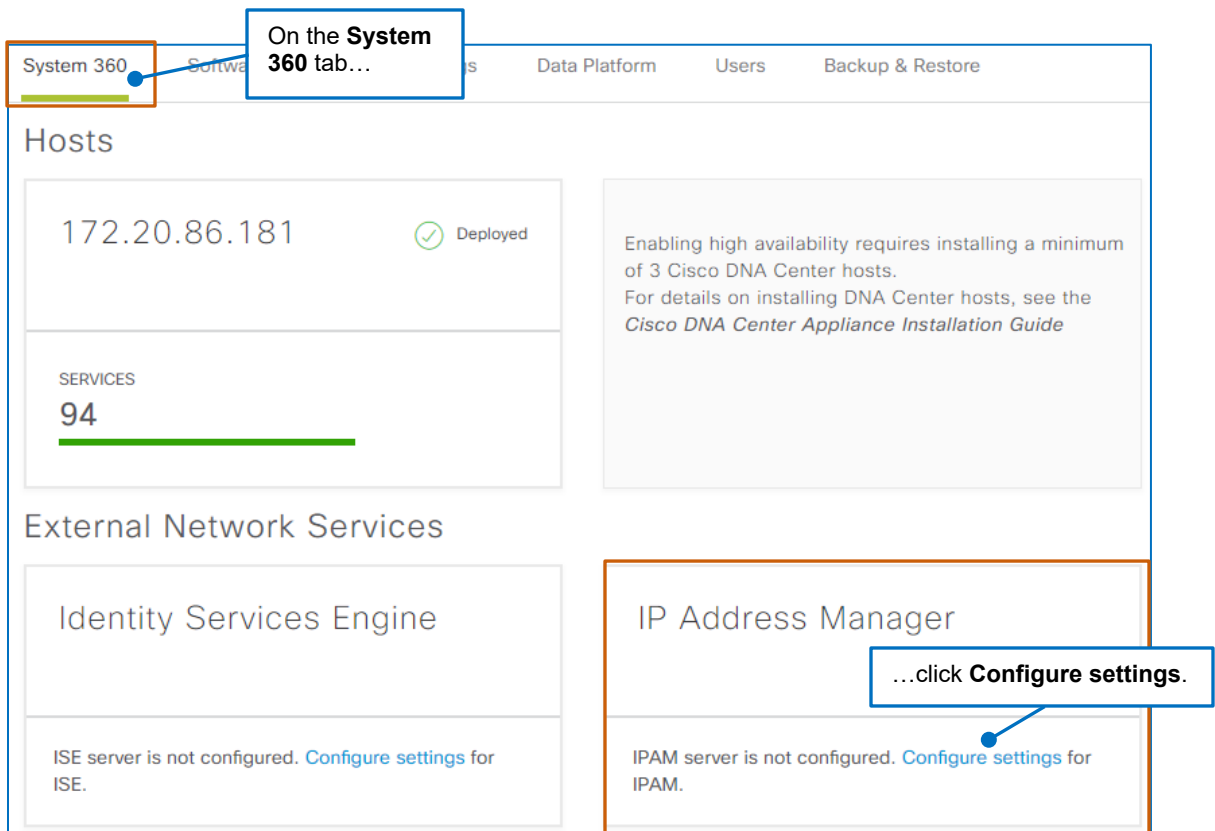
To open system settings in the application, on any Cisco DNA Center page:

1. On the **Settings** menu, select **System Settings**.



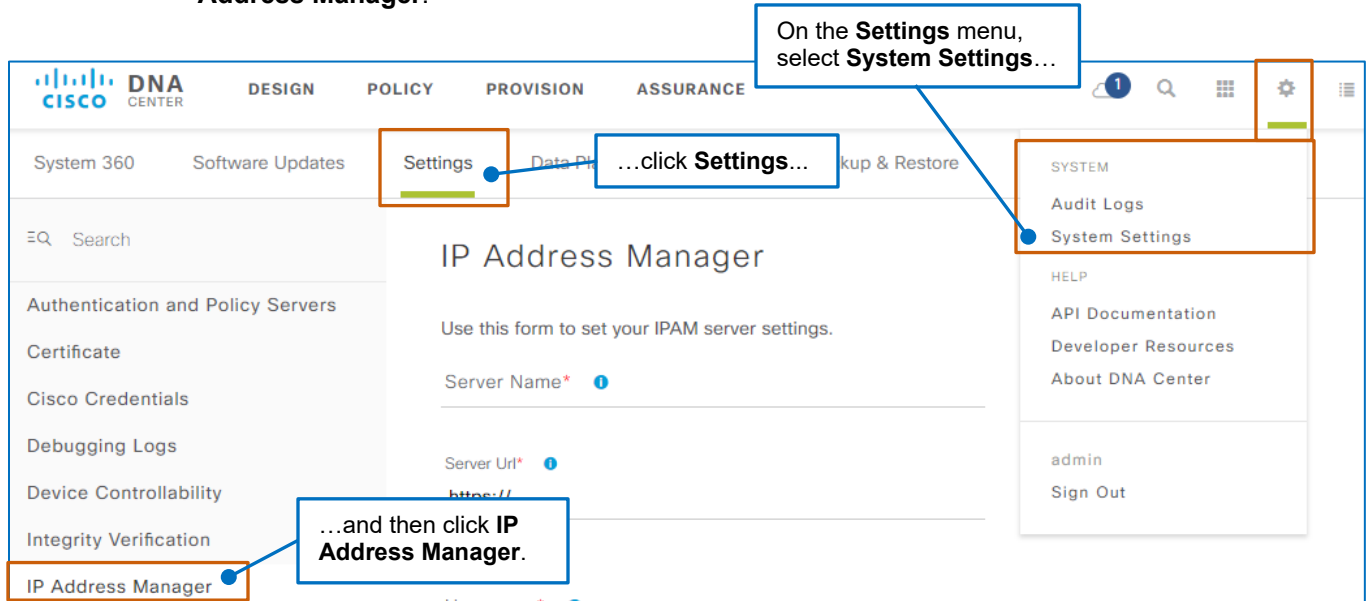
Cisco DNA Center navigates to the **System 360** tab.

2. Under **External Network Services**, in the **IP Address Manager** placeholder, click **Configure settings**.



To navigate to the page manually:

- On the **Settings** menu, select **System Settings**, click the **Settings** tab, and then click **IP Address Manager**.



How Do I Prepare To Integrate an IPAM Server?

By Ensuring IPAM Availability

You need to ensure that the IPAM server is up and running.

By Getting IPAM Access Information

To complete the integration steps, you need the IPAM server's host name and IP address, and its access credentials, including the administrative user name and administrative password.

What Skills Do I Need?

To integrate an IPAM server, you need the following experience.

Basic

- Cisco DNA Center navigation and concepts
- InfoBlox and BlueCat configuration concepts and practical experience

Proficient

- IP address management concepts
- Network operations practical experience

What Terms Should I Know?

IP Address Pools

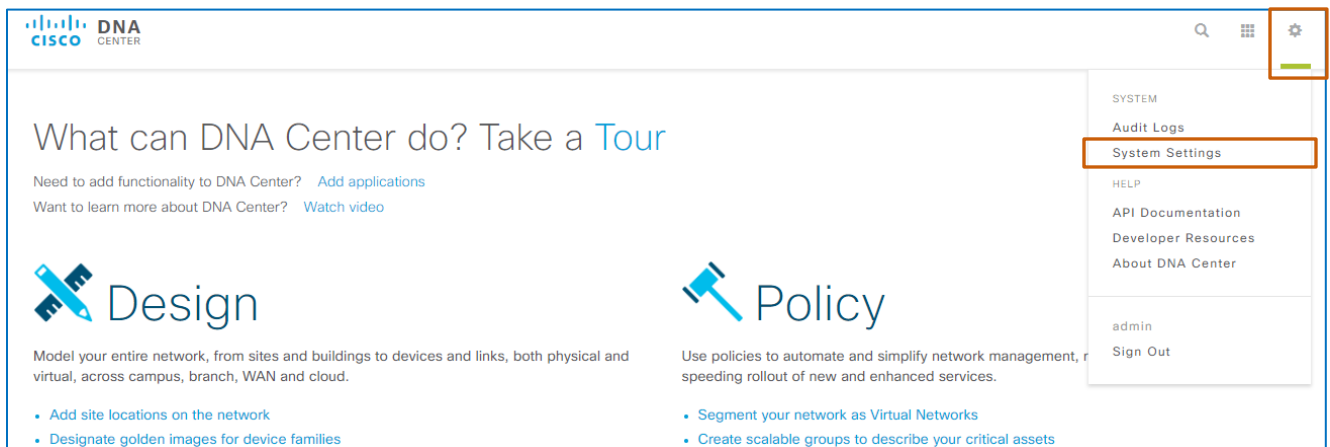
In Cisco DNA Center, IP address pools refer to the IP address scopes in IP address management servers

What Are The Steps That I Take To...

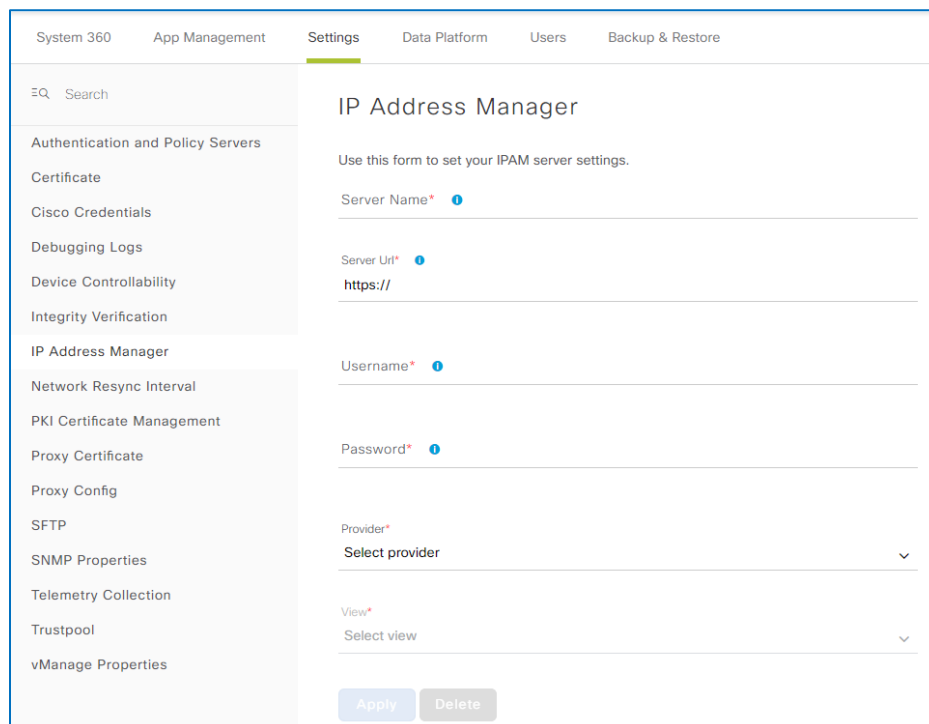
...Integrate an IPAM Server?

To integrate an IPAM server:

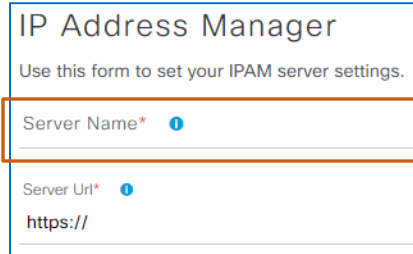
1. On the Cisco DNA Center home page, [follow the steps to navigate to administrative Settings...](#)



...to open the IP Address Manager page.



- To add the server name and allow the URL to populate automatically with the server's URL, in the **Server Name** field, type the IPAM server's IP address or fully qualified domain name (FQDN).



IP Address Manager

Use this form to set your IPAM server settings.

Server Name* ⓘ

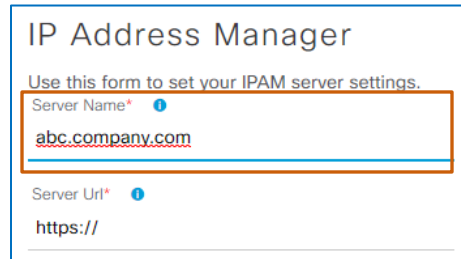
Server Url* ⓘ

https://



Note: While you can add a different character string to indicate the server name, Cisco DNA Center applies the data that you type to the **Server Url** field automatically.

When you do not use the server's IP address or FQDN, you will need to type the applicable URL in the field manually.



IP Address Manager

Use this form to set your IPAM server settings.

Server Name* ⓘ

abc.company.com

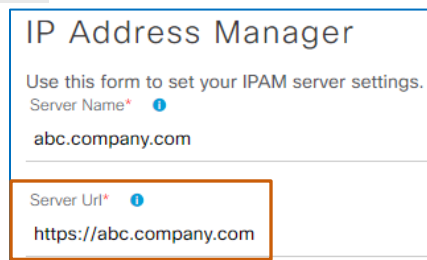
Server Url* ⓘ

https://

- To populate the server URL, click the **Server Url** field. Beside **https://**, the field populates with the server name.



Note: After initial integration, you can change the server URL manually, as needed.



IP Address Manager

Use this form to set your IPAM server settings.

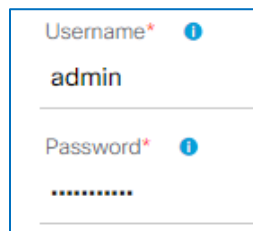
Server Name* ⓘ

abc.company.com

Server Url* ⓘ

https://abc.company.com

- In the **Username** and **Password** fields, type the access credentials for the IPAM server.



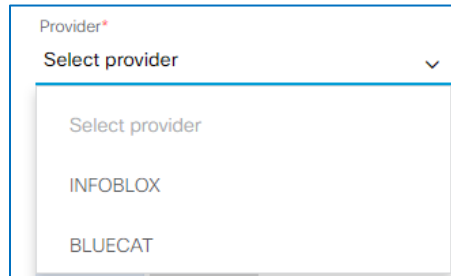
Username* ⓘ

admin

Password* ⓘ

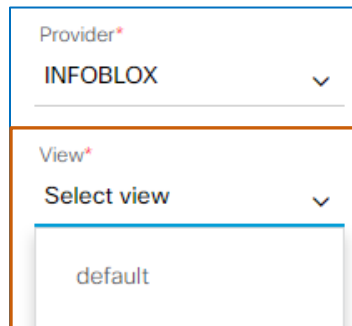
.....

- 5. To indicate the vendor of the IPAM server that you are integrating, in the **Provider** drop-down list, select the vendor.



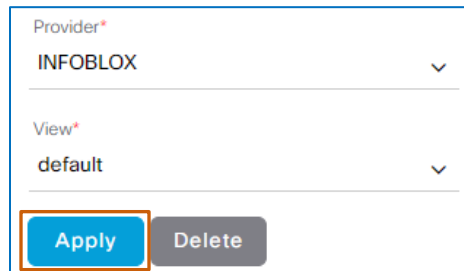
The screenshot shows a dropdown menu for the 'Provider' field. The menu is open, displaying the text 'Select provider' at the top and two options: 'INFOBLOX' and 'BLUECAT'.

- 6. To indicate the specific view of the IP addresses available in the IPAM server database that you want to apply in Cisco DNA Center, in the **View** drop-down list, select the view name.



The screenshot shows two dropdown menus. The top one is for 'Provider' and is set to 'INFOBLOX'. The bottom one is for 'View' and is set to 'default'.

- 7. To integrate the IPAM server, click **Apply**.



The screenshot shows the final configuration form with the 'Provider' dropdown set to 'INFOBLOX' and the 'View' dropdown set to 'default'. Below the dropdowns are two buttons: 'Apply' and 'Delete'. The 'Apply' button is highlighted with a red box.

A system message opens and indicates the success or failure of the integration.

When the IPAM server integration is successful, a description of the server populates the **IP Address Manager** placeholder on the **System 360** tab.

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