



Configure the Cisco DNA Center Appliance

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Review Cisco DNA Center Configuration Wizard Parameters

When Cisco DNA Center configuration begins, an interactive configuration wizard prompts you to enter configuration parameter information. The following table describes the parameters for which the wizard will prompt you, and the information you will need to enter in order to complete the configuration.

Table 1: Cisco DNA Center Configuration Wizard Parameters

Configuration Wizard Prompt	Description	Example
Host IP address	Enter a host IP address for each of the ports you are going to use (at minimum, addresses for the ports connecting the appliance to the enterprise network and to the management network). These must be valid IPv4 addresses.	10.0.0.12
Netmask	Enter a netmask for the IP address. This must be a valid IPv4 netmask.	255.255.255.0
Default Gateway IP address	Enter a default gateway IP address. This must be a valid IPv4 address for the default gateway.	10.12.13.1

Configuration Wizard Prompt	Description	Example
DNS Servers	<p>Enter a DNS server address.</p> <p>This must be a valid IPv4 address for the primary DNS server.</p> <p>Enter either a single IP address for a single primary server, or multiple IP addresses separated by spaces for multiple DNS servers.</p>	10.15.20.25
Static Routes	<p>Enter the IP address and subnet mask for a manually specified route for this interface.</p> <p>We recommend that you always specify at least one static route for the interface connecting to the fabric underlay.</p>	<p>204.2.0.0/255.255.0.0</p> <p>Enter either a single IP address and subnet mask for a single static route, or a space-separated list of multiple IP addresses/masks for multiple static routes.</p>
HTTPS Proxy	Enter the URL of any network proxy used to access the network.	https://proxy.mycompany.com:8080
HTTPS Proxy Username	Enter the username used to access the proxy.	MyUserName
HTTPS Proxy Password	Enter the password used to access the proxy.	MyPass901&
Cluster Virtual IP Address	Leave blank. This is used only in multihost cluster deployments, which are not supported in this release.	10.25.20.25

Configuration Wizard Prompt	Description	Example
Linux Password	<p>Enter a Linux password.</p> <p>Identifies the Linux administrator password that is used for CLI access to the Maglev roots and clients. This is the password for the "maglev" user. You must create this password because there is no default. The password must meet the following requirements:</p> <ul style="list-style-type: none"> • Eight character minimum length. • Does NOT contain a tab or a line break. • Does contain characters from at least three of the following categories: <ul style="list-style-type: none"> ◦ Uppercase alphabet ◦ Lowercase alphabet ◦ Numeral ◦ Special characters (for example, ! or #) 	MyPass01
(Optional) Password Generation Seed	<p>Instead of creating and entering your own Linux administrator password, you can enter a seed phrase and press Generate Password to have the configuration wizard generate a random and secure password using that seed phrase.</p> <p>If you choose to enter a seed phrase, the generated password will be displayed in the Auto Generated Password field, where you can further edit it.</p>	WhenAprilLastInDooryard
(Optional) Auto Generated Password	<p>If you choose to enter a seed phrase, the generated password (including your seed phrase) will be displayed in this field. If desired, you can either use this password "as is", or you can further edit this auto generated password.</p> <p>You must select Use Generated Password to save the password and have it used automatically.</p>	N/A

Configuration Wizard Prompt	Description	Example
Administrator Password	<p>Enter the admin password.</p> <p>Identifies the password used for GUI access to DNA center. You must create this password because there is no default. The password must meet the following requirements:</p> <ul style="list-style-type: none"> • Eight character minimum length. • Does NOT contain a tab or a line break. • Does contain characters from at least three of the following categories: <ul style="list-style-type: none"> ◦ Uppercase alphabet ◦ Lowercase alphabet ◦ Numeral ◦ Special characters (for example, ! or #) 	MyIseYPass2
NTP Servers	<p>Enter a primary NTP server address.</p> <p>This must be a valid IPv4 address or hostname of a Network Time Protocol (NTP) server.</p> <p>Before you deploy DNA Center, make sure that the time on the DNA Center appliance system clock is current and that you are using a Network Time Protocol (NTP) server that is keeping the correct time.</p>	<p>10.12.13.10</p> <p>Enter either a single IP address for a single NTP primary server, or multiple IP addresses separated by spaces for several NTP servers. We recommend that you configure three NTP servers for your deployment.</p>
Services Subnet	<p>Enter a comma-delimited list of dedicated IP subnets for DNA Center to use in managing its own services.</p> <p>The two dedicated IPv4 service management subnets must not conflict or overlap with any other subnets in use in the enterprise network. The minimum size of the subnets is 21 bits; the recommended size is 20 bits to 16 bits. There is no default.</p>	10.60.0.0/21, 10.60.8.0/21

Configuration Wizard Prompt	Description	Example
Cluster Services Subnet	<p>Enter a dedicated IP subnet for DNA Center to use in managing its clustering services.</p> <p>The dedicated IPv4 subnet cluster-service management subnet must not conflict or overlap with any other subnet in use in the enterprise network, including the dedicated DNA services-management subnet. The default is 10.100.0.0/16.</p>	10.100.0.0/16

Configure Cisco DNA Center Using the Wizard

Perform the steps below to configure the Cisco DNA Center appliance as a single host. The entire process takes over an hour, with the installation of component packages (after your final review of all the wizard settings) taking approximately 45 minutes.

Before You Begin

Be sure that you have:

- Configured CIMC for use with the appliance. See [Configure CIMC](#).
- Used CIMC to configure the appliance hardware. See [Use CIMC to Configure the Appliance](#).
- Reviewed and gathered appropriate information about the parameters for which the configuration wizard will prompt you. See [Review Cisco DNA Center Configuration Wizard Parameters, on page 1](#).

Step 1 Boot up the host.

Step 2 Review the **Welcome to the DNA Center Configuration Wizard!** screen and choose the **Start a new DNA Center cluster** option to begin.

Step 3 Enter configuration values for the **NETWORK ADAPTER #1** on the host. The configuration wizard discovers and prompts you to confirm values for the network adapter or adapters on your host.

Host IP address	Enter the host IP address for the port that connects the appliance to the enterprise network (the first 10Gb VIC port). The wizard validates the value entered and issues an error message if incorrect. If you receive an error message, check that the IP exists and that the port is cabled correctly. If you entered the wrong IP and get an error, use <<back to re-enter the IP.
Cluster Link	Although multi-host clustering is not supported in this release, select the first checkbox.

Netmask	Enter the netmask for the network adapter's IP address.
Default Gateway IP address	Enter a default gateway IP address to use for the network adapter. If no other routes match the traffic, traffic will be routed through this IP address.
DNS Servers	Enter the DNS server or servers IP addresses (separated by spaces) for the network adapter.
Static Routes	If required for your network, enter a space separated list of static routes in this format: <network>/<netmask>/<gateway> Static routes, which define explicit paths between two routers, cannot be automatically updated; you must manually reconfigure static routes when network changes occur. You should use static routes in environments where network traffic is predictable and where the network design is simple. You should not use static routes in large, constantly changing networks because static routes cannot react to network changes.

Once satisfied with the network adapter settings, enter **next>>** to proceed. After entering **next>>**, the wizard validates the values you entered.

After validation, you are prompted to enter values for each of the remaining three adapters, in order of discovery. Repeat the process you used for the first network adapter, configuring each as per their cabling to their respective networks.

When you are finished entering and validating each of the network adapter values, enter **next>>** to proceed.

Step 4 Enter configuration values for any **NETWORK PROXY** you are using.

HTTPS Proxy	Enter the URL of the network proxy.
HTTPS Proxy Username	Enter the user name used to access the network proxy.
HTTPS Proxy Password	Enter the password used to access the network proxy.

After configuring the proxy, enter **next>>** to proceed.

Step 5 Enter configuration values for any **MAGLEV CLUSTER DETAILS**.

Cluster Virtual IP Address	Leave this blank. This is used only in multihost cluster deployments, which are not supported in this release.
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When you are finished, enter **next>>** to proceed.

Step 6 Enter values for the **USER ACCOUNT SETTINGS**.

Linux Password	<p>Enter a Linux password.</p> <p>The Linux password is used to ensure security for both the Maglev root and clients located on the host. Access to the Maglev root and clients requires this password.</p> <p>The default username is maglev and cannot be changed</p> <p>The Linux password is encrypted and hashed in the DNA Center database.</p>
Re-enter Linux Password	Confirm the Linux password by entering it a second time.
Password Generation Seed	<p>(Optional) Instead of creating and entering your own password in the above Linux Password fields, you can enter a seed phrase and have the wizard generate a random and secure password using that seed phrase.</p> <p>Enter a seed phrase and then press <Generate Password> to generate the password.</p>
Auto Generated Password	<p>(Optional) The seed phrase appears as part of a random and secure password. If desired, you can either use this password "as is", or you can further edit this auto generated password.</p> <p>Press <Use Generated Password> to save the password.</p> <p>When finished with the password, be sure to save it to a secure location for future reference.</p>
Administrator Passphrase	<p>Enter an administrator passphrase.</p> <p>The administrator passphrase is encrypted and hashed in the DNA Center database.</p>
Re-enter Administrator Passphrase	Confirm the administrator passphrase by entering it a second time.

When you are finished, enter **next>>** to proceed.

Step 7

Enter configuration values for **NTP SERVER SETTINGS**.

NTP servers	<p>Enter a single NTP server address or a list of NTP servers, each separated by a space.</p> <p>We recommend that, for redundancy purposes, you configure at least three NTP servers for your deployment.</p> <p>Cisco routers and switches can also be configured as NTP servers.</p>
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After configuring the NTP server(s), enter **next>>** to proceed.

Step 8 Enter configuration values for **MAGLEV ADVANCED SETTINGS**:

Services Subnet	Enter a comma-delimited list of dedicated IP subnets for DNA Center to use in managing its own services. There is no default.
Cluster Services Subnet	Enter a dedicated IP subnet for DNA Center to use in managing its clustering services. The default subnet is 10.100.0.0/16.

When you are finished, enter **next>>** to proceed.

Step 9 A final message appears stating that the wizard is now ready to proceed with applying the configuration. The following options are available:

- **[back]**—Review and verify your configuration settings.
- **[cancel]**—Discard your configuration settings and exit the configuration wizard.
- **[proceed]**—Save your configuration settings and begin applying them.

Enter **proceed>>** to complete the installation. After entering **proceed>>**, the configuration wizard applies the configuration values that you entered above.

At the end of the configuration process, a **CONFIGURATION SUCCEEDED!** message appears.

The appliance will reboot automatically and display messages on the KVM console as it applies your settings and brings up services. This process can take several hours; you can monitor its progress via the console.

Step 10 Open your compatible web browser and enter the DNA Center host IP address to access the DNA Center GUI. For compatible browsers, see [Access Cisco DNA Center Using a Web Browser](#).

Step 11 After entering the IP address in the browser, a message stating that "Your connection is not private" appears. Ignore the message and click the **Advanced** link.

Step 12 After clicking the **Advanced** link, a message stating that the site's security certificate is not trusted appears. Ignore the message and click the link.

This message appears because DNA Center uses a self-signed certificate. You will have the option to upload a trusted certificate using the DNA Center GUI after installation completes.

Step 13 In the DNA Center **Login** window, enter the administrator username and password that you configured earlier and click the **Log In** button.

What to Do Next

When these tasks are complete:

- 1 Log in to the DNA Center GUI for the first time and perform First-Time Setup. See [Log In to Cisco DNA Center For the First Time](#)
- 2 Integrate DNA Center with Cisco Identity Services Engine (ISE). This is a standard requirement for nearly all DNA Center deployments. See [Integrate Cisco ISE With DNA Center](#).

- 3 Start to use DNA Center to manage and configure your network. For assistance with navigating the GUI and becoming familiar with its features, see the "Getting Started" chapter in the *Cisco DNA Center User Guide*.

