



Manage the device using Web User Interface

The Web User Interface (Web UI) is an embedded GUI-based device-management tool that provides the ability to provision the device, to simplify device deployment and manageability, and to enhance the user experience. It comes with the default image, so there is no need to enable anything or install any license on the device. You can use WebUI to build configurations, and to monitor and troubleshoot the device without having CLI expertise. This chapter includes these sections:

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Use Basic or Advanced Mode Setup Wizard

To configure the router using the basic or advanced mode setup:

Procedure

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|---------------|---|
| Step 1 | Choose the Basic Mode or Advanced Mode and click Go To Account Creation Page . |
| Step 2 | Enter the username and password. Reenter the password to confirm. |
| Step 3 | Click Create and Launch Wizard . |
| Step 4 | Enter the device name and domain name. |
| Step 5 | Select the appropriate time zone from the Time Zone drop-down list. |
| Step 6 | Select the appropriate date and time mode from the Date and Time drop-down list. |
| Step 7 | Click LAN Settings . |
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Configure LAN Settings

LAN settings are configured for network devices primarily to manage and control the local network environment effectively. This process provides details on how to configure LAN settings for a device.

Procedure

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- Step 1** Choose the **Web DHCP Pool/DHCP Pool** name or the **Create and Associate Access VLAN** option.
- a) If you choose the Web DHCP Pool, specify the following:
 - Pool Name** —Enter the DHCP Pool Name.
 - Network** —Enter network address and the subnet mask.
 - b) If you choose the Create and Associate Access VLAN option, specify the following:
 - Access VLAN** —Enter the Access VLAN identification number. The range is from 1 to 4094.
 - Network** —Enter the IP address of the VLAN.
 - Management Interfaces** —Select the interface and move to the selected list box using the right and left arrows. You can also double click or drag and drop to move the interface to the selected list box.
- Step 2** Click **Primary WAN Settings** .
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Configure Primary WAN Settings

The purpose of configuring WAN (Wide Area Network) settings on network devices is to establish and manage the connection between a local network and external networks.

Procedure

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- Step 1** Select the primary WAN type. You can configure Serial, 3G/4G, Ethernet, or Broadband (xDSL) as primary WAN depending on the WAN types supported by the router.
- Step 2** Select the interface from the drop-down list.
- Step 3** Check the **Get DNS Server info directly from ISP** check box to get the DNS server information directly from the service provider. You can also manually enter the Primary DNS and Secondary DNS.
- Step 4** Check the **Get IP automatically from ISP** check box to get the IP address information directly from the service provider. You can also manually enter the IP address and subnet mask.
- Step 5** Check the **Enable NAT** check box to enable NAT. It is recommended to enable NAT.
- Step 6** Check the **Enable PPPOE** check box to enable PPPoE. If you have enabled PPPoE, select the required authentication mode. The options are: **PAP** and **CHAP** .
- Step 7** Enter the user name and password provided by the service provider.
- Step 8** Click **Security / APP Visibility WAN Settings** .
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Configure Secondary WAN Settings

The purpose of configuring secondary WAN settings on network devices is to provide an additional WAN connection that can serve as a backup or load-sharing link to the primary WAN. This secondary WAN connection enhances network reliability and availability by allowing failover in case the primary WAN link fails or experiences issues.

Procedure

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- Step 1** Select the secondary WAN type. You can configure Serial, 3G/4G, Ethernet, or Broadband (xDSL) as a secondary WAN depending on the WAN types supported by the router.
 - Step 2** Select the interface from the drop-down list.
 - Step 3** Check the **Get DNS Server info directly from ISP** check box to get the DNS server information directly from the service provider. You can also manually enter the Primary DNS and Secondary DNS.
 - Step 4** Check the **Get IP automatically from ISP** check box to get the IP address information directly from the service provider. You can also manually enter the IP address and subnet mask.
 - Step 5** Check the **Enable NAT** check box to enable NAT. It is recommended to enable NAT.
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 - Step 7** Enter the user name and password provided by the service provider.
 - Step 8** Click **Security / APP Visibility WAN Settings**.
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Using Web User Interface for day one setup

The purpose of the web user interface (Web UI) for devices is to provide an embedded, graphical user interface that simplifies device management by allowing users to provision, configure, monitor, and troubleshoot the device without requiring command-line interface (CLI) expertise. It enhances the user experience by offering an intuitive, GUI-based tool to build configurations and manage the device efficiently.

Procedure

- Step 1** Configure the HTTP server. By default, the HTTP server configuration should be present on the device. Ensure the configuration by checking if the **ip http server** and **ip http secure-server** commands are present in the running configuration.

```
Device #  
configure terminal  
Device (config)#  
ip http server  
Device (config)#ip http secure-server
```

- Step 2** Set up the authentication options to log into Web UI. You can use one of these methods to authenticate:
- a) You can authenticate using local database. To use a local database for Web UI authentication, ensure to have the **ip http authentication local** command in the running configuration. This command is preconfigured on the device. If the command is not present, configure the device as shown in this example:

```
Device #  
configure terminal  
Device (config)#  
ip http authentication local
```

Note

You need a user with privilege 15 to access the configuration screens on Web UI. If the privilege is less than 15, you can access only the Dashboard and Monitoring screens on Web UI.

- b) Authenticate using AAA options. To use AAA authentication for Web UI, ensure to configure 'ip http authentication aaa' on the device. Also, ensure that the required AAA server configuration is present on the device.

```
Device #  
configure terminal  
Device (config)#  
ip http authentication local
```

- Step 3** Launch the browser. In the address bar, type the IP address of the device. For a secure connection, type https://ip-address.
- Step 4** Enter the default username (cisco) and password provided with the device.
- Step 5** Click **Log In**.
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Monitor and Troubleshoot Device Plug and Play (PnP) Onboarding using WebUI

A device can be automatically onboarded to Cisco vManage through either Zero Touch Provisioning (ZTP) or the Plug and Play (PnP) process. This section describes the procedure to monitor and troubleshoot device onboarding through the PnP method. This feature on WebUI enables you to monitor and troubleshoot the PnP onboarding process, and also see its real-time status. If this onboarding is stuck or fails, you can terminate the process and onboard your device manually.

- Your device (a computer that can run a web browser) running the WebUI and the device you are onboarding must be connected through an L2 switch port (NIM) on the device.
- The DHCP client-identifier on your device must be set to string “webui”.
- Your device must support Cisco SD-WAN Day-0 device onboarding on WebUI.

Procedure

- Step 1** Enter the controller mode in WebUI
- Note**
If the device does not have start-up configuration at the time of PnP onboarding, the WebUI is enabled by default on supported devices.
- Step 2** On the **Welcome to Cisco SDWAN Onboarding Wizard** page, click **Reset Default Password**.
- Note**
The default password of your Day-0 device is weak. Therefore, for a secure log in, you must reset the password when you first log in to the device on WebUI. The WebUI configuration is automatically deleted after the device is onboarded successfully. In rare cases where the template configuration for your device on Cisco vManage has the WebUI configuration, it is not deleted even after a successful device onboarding.
- Step 3** You are redirected to the Device hardware and software details page. Enter your password and click **Submit**.
- The next page displays the onboarding progress and lists statuses of different components of the PnP Connect Portal and Cisco SD-WAN controllers. If the PnP IPv4 component fails, it indicates that the device PnP onboarding has failed.
- To view and download logs for the onboarding process, click the information icon on the right hand side of the SDWAN Onboarding Progress bar.
- Step 4** The next page displays the onboarding progress and lists statuses of different components of the PnP Connect Portal and Cisco SD-WAN controllers. If the PnP IPv4 component fails, it indicates that the device PnP onboarding has failed.
- Step 5** If the automated PnP onboarding fails, click **Terminate Automated Onboarding**. This allows you to onboard your device manually.

The dialogue box appears. To continue with the termination, click **Yes** . It might take a few minutes for the termination to complete.

- Step 6** On the Bootstrap Configuration page click **Select File** and choose the bootstrap file for your device. This file can be either a generic bootstrap file (common platform-specific file) or a full configuration bootstrap file that you can download from Cisco Catalyst SD-WAN Manager. This file must contain details such as the vBond number, UUID, WAN interface, root CA and configuration.
- Step 7** Click **Upload** .
- Step 8** After your file is successfully uploaded, click **Submit**.
- Step 9** You can see the SDWAN Onboarding Progress page again with statuses of the Cisco SD-WAN controllers. To open the Controller Connection History table click the information icon on the right hand side of the SDWAN Control Connections bar. In this table you can see the state of your onboarded device. After the onboarding is complete, the state of your device changes to **connect** .
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