



Web User Interface Configuration Guide (Catalyst 9000 Switches)

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Americas Headquarters

Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
<http://www.cisco.com>
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 527-0883



CHAPTER

1

Configuring the Switch Using the Web User Interface

This document walks you through the steps to access and configure your switch using the Web UI.



Note Any figures included in the document are shown for illustrative purposes only.

- [Introduction to Day 0 WebUI Configuration, on page 1](#)
- [Cisco DNA Center Cloud Onboarding Day 0 Wizard, on page 2](#)
- [Classic Day 0 Wizard, on page 5](#)

Introduction to Day 0 WebUI Configuration

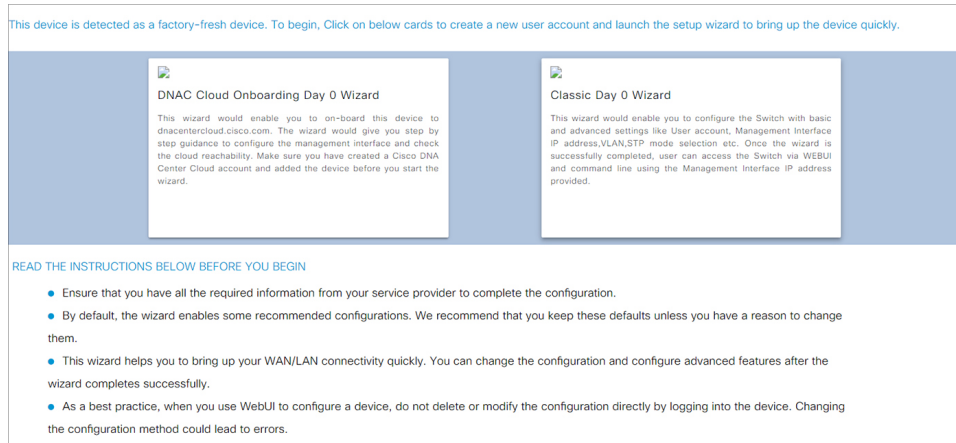
After you complete the hardware installation, you need to setup the switch with configuration required to enable traffic to pass through the network. On your first day with your new device, you can perform a number of tasks to ensure that your device is online, reachable and easily configured.

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. You can use WebUI to build configurations, monitor, and troubleshoot the device without having CLI expertise.

You have two methods to configure the switch using the WebUI.

- [Cisco DNA Center Cloud Onboarding Day 0 Wizard](#)
- [Classic Day 0 Wizard](#)

Figure 1: WebUI Day 0 Wizard



Cisco DNA Center Cloud Onboarding Day 0 Wizard

Use this wizard to configure the management interface and check if it is reachable through the cloud.



Note You must add the device to your Cisco DNA Center Cloud account before proceeding with this wizard.

Configuring Account Settings

Setting a username and password is the first task you will perform on your device. Typically, as a network administrator, you will want to control access to your device and prevent unauthorized users from seeing your network configuration or manipulating your settings.

Procedure

- Step 1** Log on using the default username **webui** and password **cisco**.
- Step 2** Set a password of up to 25 alphanumeric characters.
The username password combination you set gives you privilege 15 access. The string cannot start with a number, is case sensitive, and allows spaces but ignores leading spaces.
- Step 3** In the **Device ID Settings** section, type a unique name in the **Device Name** field to identify your device in the network.
- Step 4** Enter the date and time for your device manually in the **Time & Device Mode** field. To synchronize your device with an external timing mechanism such as a Network Time Protocol (NTP) clock source, enter the IP address in the **NTP Server** field.

Figure 2: Account Settings

The screenshot shows the 'Configuration Setup Wizard' interface. At the top, there are four progress indicators: 'ACCOUNT SETTINGS' (active), 'BASIC SETTINGS', 'TEST CONNECTIVITY', and 'SUMMARY'. Below the progress indicators, the 'ACCOUNT SETTINGS' section is expanded, showing three input fields: 'Login Name*' with the value 'testuser', 'Login User Password*' with masked characters, and 'Confirm Login User Password*'. Below this is the 'Device ID Settings' section with three fields: 'Device Name*' with 'testdevice', 'NTP Server' with 'x.x.x.x', and 'Date & Time Mode' with a dropdown menu set to 'NTP Time'. On the right side, there is a 'HELP AND TIPS' section with a light blue background containing text about establishing a new username and password, and explaining the NTP server field. At the bottom of the wizard, there are two blue buttons: '< Welcome Page' on the left and 'Basic Settings >' on the right.

Configuring Basic Device Settings

On the **Basic Settings** page configure the following information:

Procedure

-
- Step 1** In the **Device Management Settings** section, assign an IP address to the management interface using either *Static* or *DHCP* address.
- Step 2** If you chose *Static*, perform the following steps:
- Enter a VLAN ID to associate with the interface in the **Associate VLAN Interface** drop-down list.
 - Ensure that the IP address you assign is part of the subnet mask you enter.
 - Optionally, enter an IP address to specify the default gateway.
 - Enter the address of the DNS Server.

Figure 3: Basic Settings - Static Configuration

The screenshot shows the Cisco Configuration Setup Wizard interface. The progress bar indicates that the 'ACCOUNT SETTINGS' step is complete, and the 'BASIC SETTINGS' step is currently active. The 'Device Management Settings' section includes the following fields:

- IP Address:** Radio buttons for 'Static' (selected) and 'DHCP'.
- VLAN ID*:** Text input field containing the value '2'.
- IP Address*:** Text input field with a placeholder 'x.x.x.x'.
- Subnet Mask*:** Text input field with a placeholder 'x.x.x.x'.
- Default Gateway (optional):** Text input field with a placeholder 'x.x.x.x (optional)'.
- Associate VLAN Interface:** Dropdown menu showing 'GigabitEthernet1/0/2'.
- DNS Server:** Text input field with a placeholder 'x.x.x.x'.

At the bottom of the form, there are two buttons: '< Create New Account' on the left and 'Test Connectivity >' on the right. A 'HELP AND TIPS' sidebar on the right provides instructions for enabling Telnet, SSH, and VTP.

Step 3 If you chose *DHCP*, perform the following steps:

- Enter a value in the VLAN ID field.
VLAN ID must be a value other than 1.
- Ensure that the IP address you assign is part of the subnet mask you enter.
- Optionally, enter an IP address to specify the default gateway.
- Enter the address of the DNS Server.

Figure 4: Basic Settings - DHCP Configuration

The screenshot shows the Cisco Configuration Setup Wizard interface, similar to Figure 3, but with the 'DHCP' radio button selected under 'IP Address'. The 'Device Management Settings' section includes the following fields:

- IP Address:** Radio buttons for 'Static' and 'DHCP' (selected).
- VLAN ID*:** Text input field containing the value '2'.
- IP Address*:** Text input field with a placeholder 'x.x.x.x'.
- Subnet Mask*:** Text input field with a placeholder 'x.x.x.x'.
- Default Gateway (optional):** Text input field with a placeholder 'x.x.x.x (optional)'.
- DNS Server:** Text input field with a placeholder 'x.x.x.x'.

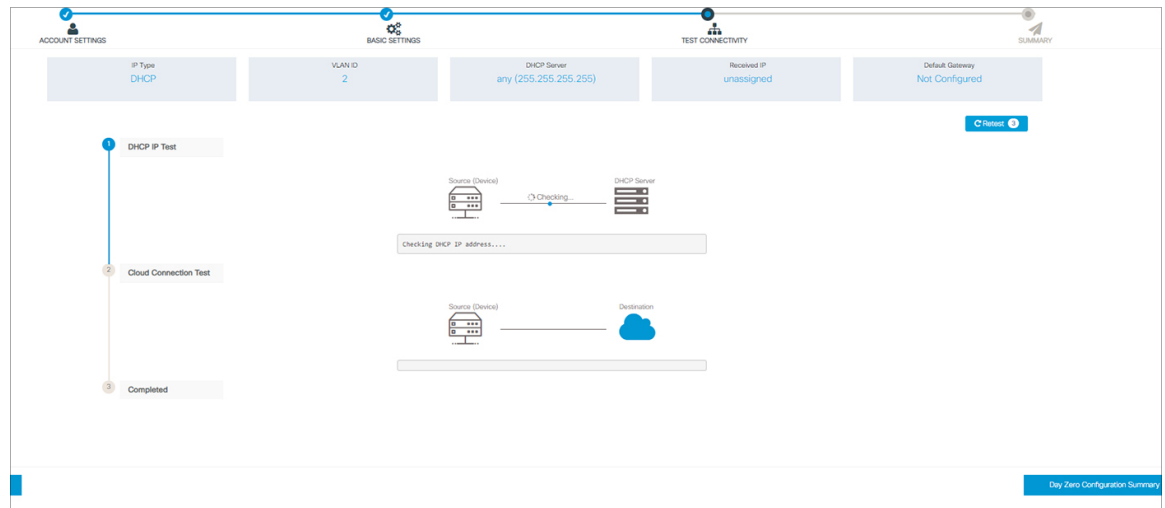
The 'HELP AND TIPS' sidebar on the right is identical to the one in Figure 3.

Configuring Test Connectivity

Procedure

- Step 1** Use the **Test Connectivity/Retest** button to ensure that connection is established between the device to the Cisco DNAC Cloud.
- Step 2** If connection is not established, click the **Retest** button.
- If connection still fails, go to the previous **Basic Settings** page, make changes to the settings, and test connectivity again.
- Step 3** Once connectivity is established, go to the **Day Zero Configuration Summary** to save the configurations.

Figure 5: Test Connectivity



- Step 4** Verify that the configurations are applied successfully, and the device is redirected to Cisco DNAC Cloud.

What to do next

If redirection does not succeed, verify if the device is associated with a redirection controller profile on *Cisco PnP Connect (devicehelper)*.

Classic Day 0 Wizard

Use this wizard to configure the device with basic and advanced settings. Once complete, you can access the device through the WebUI using the management interface IP address.

Connecting to the Switch

Before you begin

Set up the DHCP Client Identifier on the client to get the IP address from the switch, and to be able to authenticate with Day 0 login credentials.

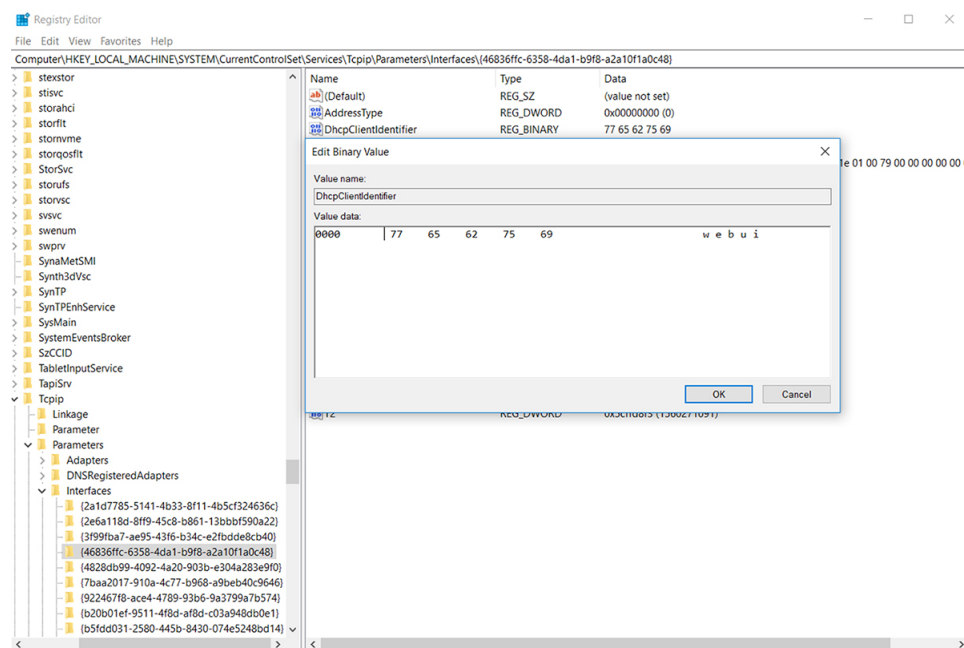
Setting up the DHCP Client Identifier on the client for Windows

1. Type **regedit** in the Windows search box on the taskbar and press *enter*.
2. If prompted by User Account Control, click **Yes** to open the Registry Editor.
3. Navigate to

Computer\HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Tcpip\Parameters\Interfaces and locate the **Ethernet Interface** Global Unique Identifier (GUID).

4. Add a new REG_BINARY **DhcpClientIdentifier** with Data **77 65 62 75 69** for **webui**. You need to manually type in the value.

Figure 6: Setting up DHCP Client Identifier on Windows

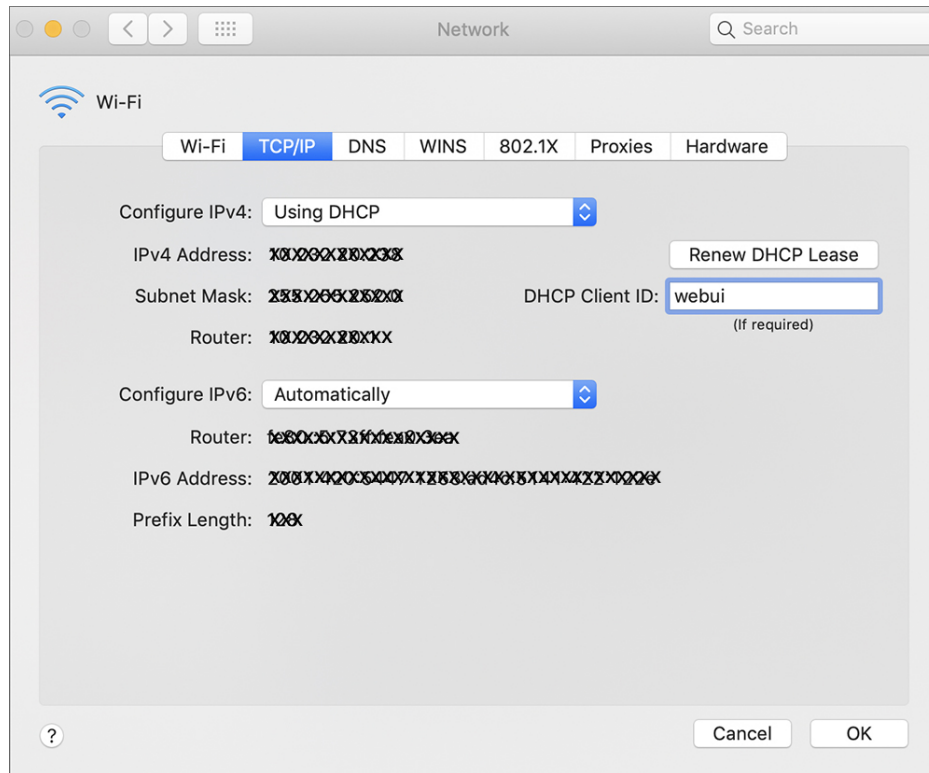


5. Restart the PC for the configuration to take effect.

Setting up the DHCP Client Identifier on the client for MAC

1. Go to **System Preferences > Network > Advanced > TCP > DHCP Client ID:** and enter **webui**.

Figure 7: Setting up DHCP Client Identifier on MAC



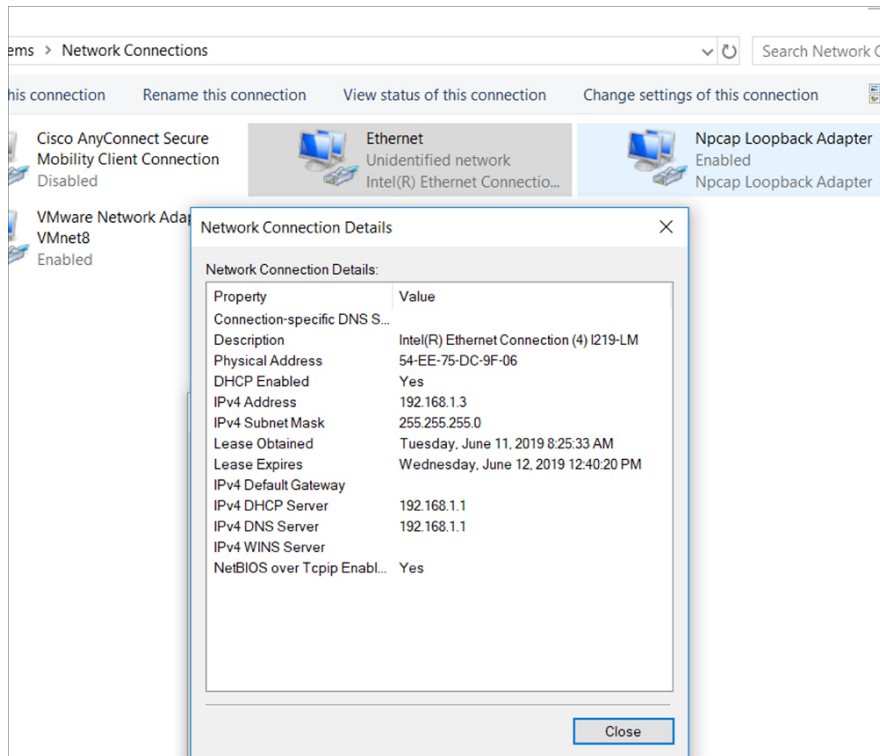
2. Click **OK** to save the changes.

The bootup script runs the configuration wizard, which prompts you for basic configuration input: **(Would you like to enter the initial configuration dialog? [yes/no]:)**. To configure Day 0 settings using the web UI, do not enter a response. Perform the following tasks instead:

Procedure

-
- Step 1** Make sure that no devices are connected to the switch.
 - Step 2** Connect one end of an ethernet cable to one of the downlink (non-management) ports on the active supervisor and the other end of the ethernet cable to the host (PC/MAC).
 - Step 3** Set up your PC/MAC as a DHCP client, to obtain the IP address of the switch automatically. You should get an IP address within the 192.168.1.x/24 range.

Figure 8: Obtaining the IP Address



It may take up to three mins. You must complete the Day 0 setup through the web UI before using the device terminal.

- Step 4** Launch a web browser on the PC and enter the device IP address (**https://192.168.1.1**) in the address bar.
- Step 5** Enter the Day 0 **username webui** and **password cisco**.

What to do next

Create a user account.

Creating User Accounts

Setting a username and password is the first task you will perform on your device. Typically, as a network administrator, you will want to control access to your device and prevent unauthorized users from seeing your network configuration or manipulating your settings.

Procedure

- Step 1** Log on using the default username and password provided with the device.

- Step 2** Set a password of up to 25 alphanumeric characters. The username password combination you set gives you privilege 15 access. The string cannot start with a number, is case sensitive, and allows spaces but ignores leading spaces.

Figure 9: Create Account

Choosing Setup Options

Select **Wired Network** to configure your device based on a site profile, and continue to configure switch wide settings. Otherwise, continue to the next step and configure only basic settings for your device.

Configuring Basic Device Settings

On the **Basic Device Settings** page configure the following information:

Procedure

- Step 1** In the **Device ID and Location Settings** section, type a unique name to identify your device in the network.
- Step 2** Choose the date and time settings for your device. To synchronize your device with a valid outside timing mechanism, such as an NTP clock source, choose Automatic, or choose Manual to set it yourself.

Figure 10: Basic Settings - Device ID and Location Settings

- Step 3** In the **Device Management Settings** section, assign an **IP address** to the management interface. Ensure that the IP address you assign is part of the subnet mask you enter.
- Step 4** Optionally, enter an **IP address** to specify the default gateway.
- Step 5** To enable access to the device using telnet, check the **Telnet** check box.
- Step 6** To enable secure remote access to the device using Secure Shell (SSH), check the **SSH** check box.
- Step 7** Check the **VTP transparent mode** check box to disable the device from participating in VTP.

If you did not select **Wired Network**, in the earlier step, continue to the next screen to verify your configuration on the **Day 0 Config Summary** screen, and click **Finish**. To automatically configure your device based on a site profile, click **Setup Options**, and select **Wired Network**.

Figure 11: Basic Settings - Device Management Settings

Configuring Your Device Based on a Site Profile

To ease your configuration tasks and save time, choose a site profile based on where your device may be installed and managed in your network. Based on the site profile you choose, your device is automatically

configured according to Cisco best practices. You can easily modify this default configuration, from the corresponding detailed configuration screens.

Choosing a site profile as part of Quick Setup allows you to configure your device based on the business needs of your enterprise. For example, you could use your device as an access switch, to connect client nodes and endpoints on your network, or as a distribution switch, to route packets between subnets and VLANs.

Configuring VLAN Settings

Procedure

-
- Step 1** In the **VLAN Configuration** section, you can configure both data and voice VLANs. Type a name for your data VLAN.
 - Step 2** To configure a data VLAN, ensure that the **Data VLAN** check box is checked, type a name for your VLAN, and assign a VLAN ID to it. If you are creating several VLANs, indicate only a VLAN range.
 - Step 3** To configure a voice VLAN, ensure that the **Voice VLAN** check box is checked, type a name for your VLAN, and assign a VLAN ID to it. If you are creating several VLANs, indicate a VLAN range.
-

Configuring STP Settings

Procedure

-
- Step 1** RPVST is the default STP mode configured on your device. You can change it to PVST from the **STP Mode** drop-down list.
 - Step 2** To change a bridge priority number from the default value 32768, change **Bridge Priority** to Yes and choose a priority number from the drop-down list.

Figure 12: VLAN and STP Settings

The screenshot displays the 'Configuration Setup Wizard' interface. At the top, a progress bar shows six steps: CREATE ACCOUNT, BASIC SETTINGS, SITE PROFILE, SWITCH WIDE SETTINGS, PORT SETTINGS, and SUMMARY. The 'VLAN Configuration' section is active, showing three checkboxes: 'Data VLAN' (unchecked), 'Voice VLAN' (unchecked), and 'Management VLAN (Switch Wide Settings)' (unchecked). Below this, the 'STP Configuration' section shows 'STP Mode' set to 'RPVST' and 'Bridge Priority' checked with a value of '32768'. A 'General Configuration' section at the bottom has a '< Site Profile' button. On the right, a 'HELP AND TIPS' panel provides information about data VLANs and STP. Navigation buttons '< Site Profile' and 'Port Settings >' are visible at the bottom of the wizard.

Configuring DHCP, NTP, DNS and SNMP Settings

Procedure

- Step 1** In the **Domain Details** section, enter a domain name that the software uses to complete unqualified hostnames.
- Step 2** Type an IP address to identify the DNS server. This server is used for name and address resolution on your device.
- Step 3** In the **Server Details** section, type the IP address of the DNS server that you want to make available to DHCP clients.
- Step 4** In the **Syslog Server** field, type the IP address of the server to which you want to send syslog messages.
- Step 5** To ensure that your device is configured with the right time, date and timezone, enter the IP address of the NTP server with which you want to synchronize the device time.
- Step 6** In the **Management Details** section, type an IP address to identify the SNMP server. SNMPv1, SNMPv2, and SNMPv3 are supported on your device.
- Step 7** Specify the **SNMP community** string to permit access to the SNMP protocol.

Figure 13: DHCP, NTP, DNS and SNMP Settings

The screenshot shows the Cisco Configuration Setup Wizard interface. At the top, there is a progress bar with six steps: CREATE ACCOUNT, BASIC SETTINGS, SITE PROFILE, SWITCH WIDE SETTINGS, PORT SETTINGS, and SUMMARY. The 'General Configuration' section is active, showing three sub-sections: Domain Details, Server Details, and Management Details. Each sub-section has input fields for configuration. A 'HELP AND TIPS' panel is visible on the right side, providing information about VLANs, STP, and Syslog Client. Navigation buttons for '< Site Profile' and 'Port Settings >' are located at the bottom of the form.

What to do next

Configure port settings.

Configuring Port Settings

Procedure

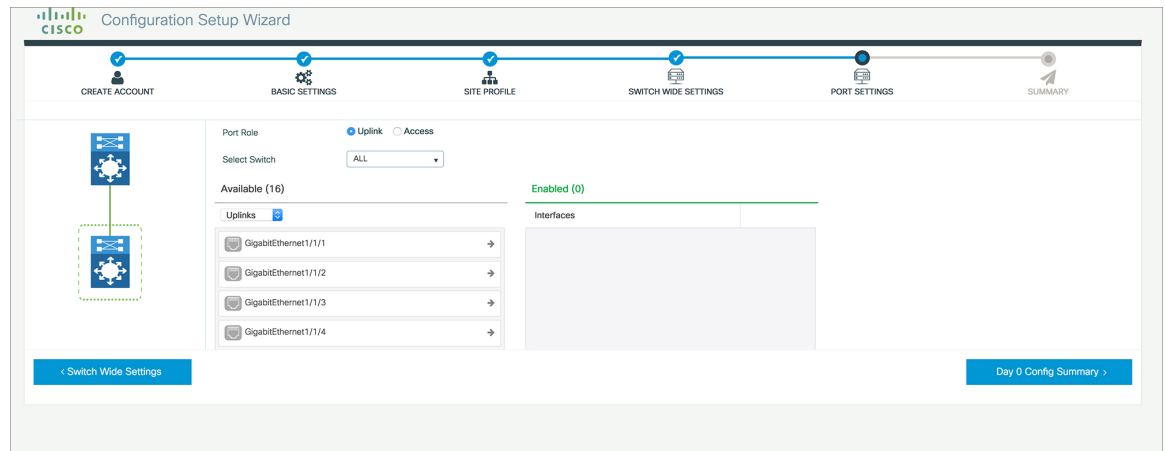
- Step 1** Based on the site profile chosen in the earlier step which is displayed in the left-pane, select the **Port Role** from among the following options:
- Uplink – For connecting to devices towards the core of the network.

- Downlink – For connecting to devices further down in the network topology.
- Access – For connecting guest devices that are VLAN-unaware.

Step 2 Choose an option from the **Select Switch** drop-down list.

Step 3 Make selections from the **Available** list of interfaces based on how you want to enable them and move them to the **Enabled** list.

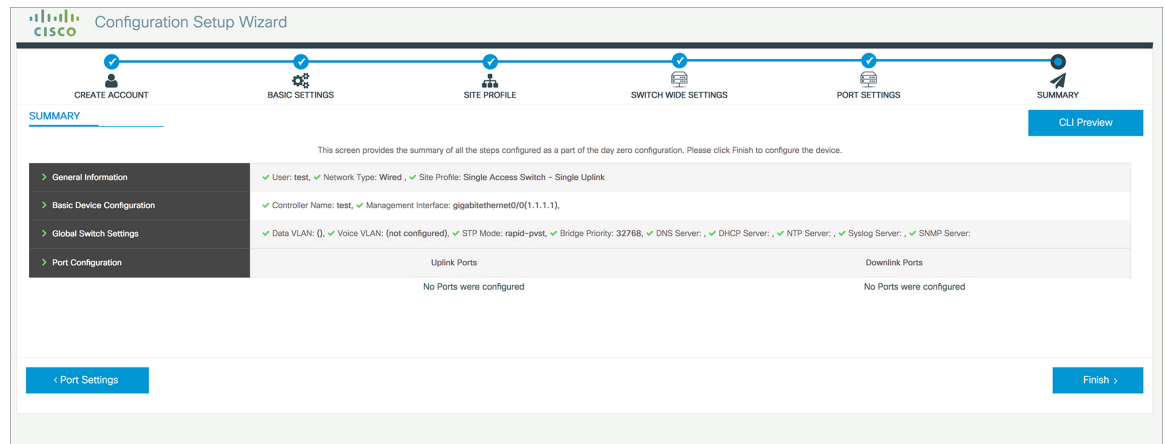
Figure 14: Port Settings



What to do next

- Click **Day 0 Config Summary** to verify your setup.
- Click **Finish**.

Figure 15: Day 0 Config Summary



Configuring VTY Lines

For connecting to the device through Telnet or SSH, the Virtual Terminal Lines or Virtual TeleType (VTY) is used. The number of VTY lines is the maximum number of simultaneous access to the device remotely. If the device is not configured with sufficient number of VTY lines, users might face issues with connecting to the WebUI. The default value for VTY Line is . The device allows up to simultaneous sessions.

Procedure

- Step 1** From the WebUI, navigate through **Administration > Device** and select the **General** page.
- Step 2** In the **VTY Line** field, enter **0-xx**, depending on how many VTY lines you want to configure.

Figure 16: Configuring VTY Line

The screenshot displays the Web User Interface for configuring a switch. The breadcrumb navigation shows 'Administration > Device'. The left sidebar contains menu items: Dashboard, Monitoring, Configuration, Administration (highlighted), Licensing, and Troubleshooting. The main configuration area is titled 'General' and includes the following settings:

- IP Routing:** DISABLED
- Host Name*:** SW-9200
- Banner:** (Empty text area)
- Management Interface:** GigabitEthernet0/0
- IP Address*:** (Empty input field)
- Subnet Mask*:** (Empty input field)
- System MTU(Bytes):** 1500
- VTY Line:** 0-30 (This field is highlighted in the image)
- VTY Transport Mode:** Select a value (Dropdown menu)

A link labeled 'View VTY options' is located to the right of the VTY Line field.