



# Configuring the Switch Using the Web User Interface

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

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- [Setting up the Switch, on page 1](#)
- [Connecting to the Switch, on page 2](#)
- [Creating User Accounts, on page 4](#)
- [Choosing Setup Options, on page 5](#)
- [Configuring Basic Device Settings, on page 5](#)
- [Configuring Your Device Based on a Site Profile, on page 7](#)
- [Configuring VLAN Settings, on page 9](#)
- [Configure STP Settings, on page 9](#)
- [Configuring DHCP, NTP, DNS and SNMP Settings, on page 10](#)
- [Configuring Port Settings, on page 11](#)

## Setting up the Switch

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. 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.

# 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.

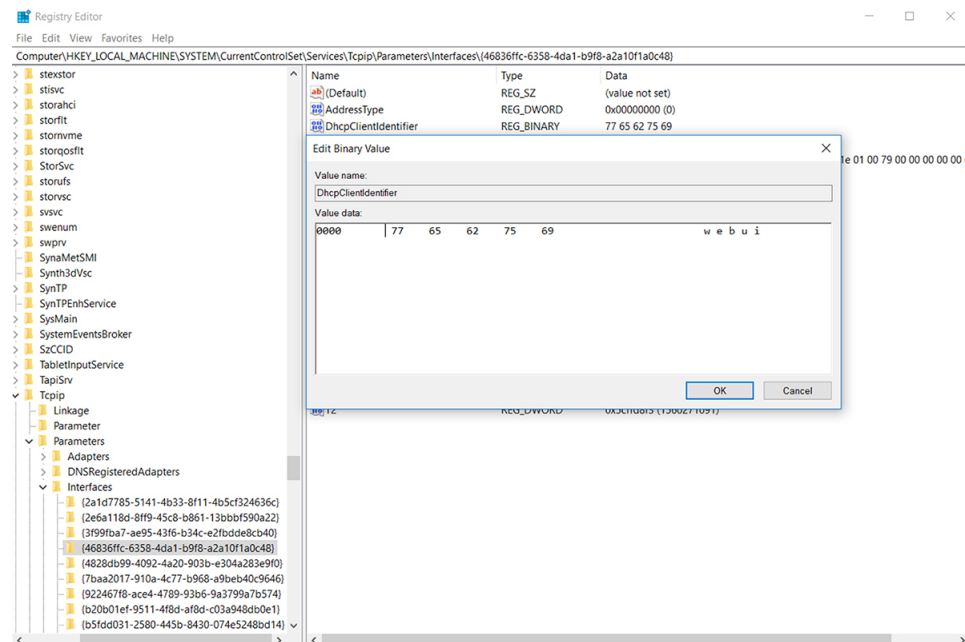
## Setting up the DHCP Client Identifier on the client for Windows

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 1: Setting up DHCP Client Identifier on Windows**

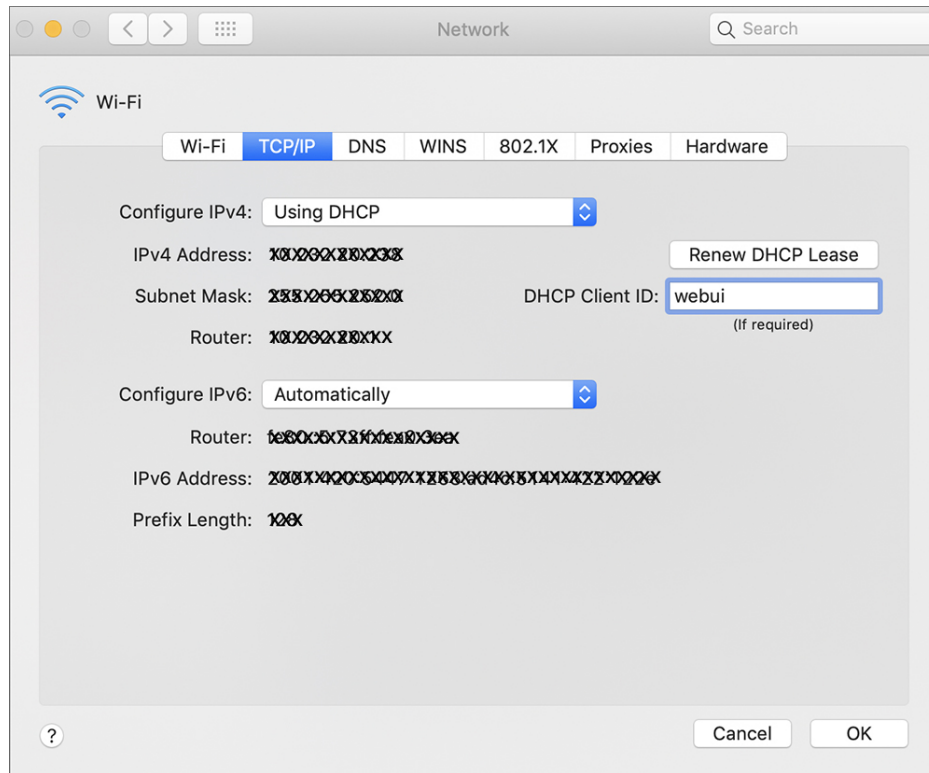


5. Restart the PC for the configuration to take effect.

## 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 2: Setting up DHCP Client Identifier on MAC

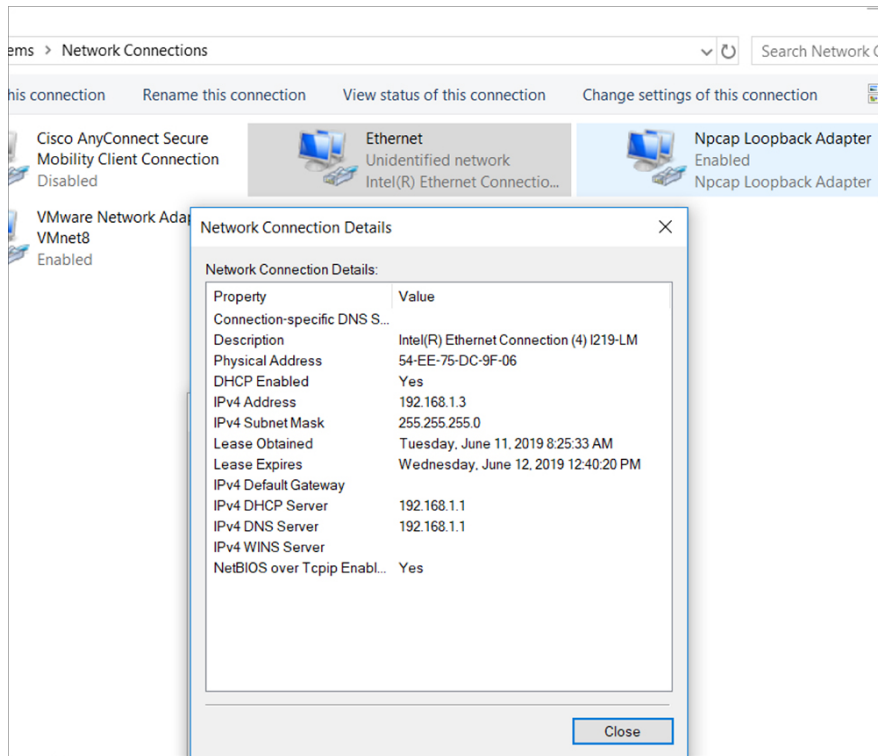


2. Click **OK** to save the changes.

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:

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- 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 3: 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 serial number** of the switch.

The serial number is case sensitive.

### 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.

**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 4: Create Account

The screenshot shows the 'Create Account' step of the Cisco Configuration Setup Wizard. The page has a breadcrumb trail at the top: CREATE ACCOUNT (active), BASIC SETTINGS, SITE PROFILE, SWITCH WIDE SETTINGS, PORT SETTINGS, and SUMMARY. The main content area is divided into two columns. The left column contains three input fields: 'Login Name', 'Password', and 'Confirm password'. Below these fields is a 'Create New Account' button. The right column is titled 'Hardware and Software details of the device.' and contains five sections, each with a dropdown menu: 'Platform Type:', 'IOS Installed:', 'Serial Number:', 'Modules:', and 'License Installed:'. At the bottom right of the right column is a 'Basic Device Settings >' button.

## 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:

- 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 5: 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 6: 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.

**Table 1: Default Configuration Loaded with Each Site Profile (Access Switches)**

Setting	Single Access Switch (Single Uplink)	Single Access Switch (Single Port Channel Uplink)	Single Access Switch (Redundant Port Channel Uplink)
Hostname	The hostname or device name you provided as part of Quick Setup	The hostname or device name you provided as part of Quick Setup	The hostname or device name you provided as part of Quick Setup
Spanning Tree Mode	RPVST+	RPVST+	RPVST+
VTP	Mode Transparent	Mode Transparent	Mode Transparent
UDLD	Enabled	Enabled	Enabled
Error Disable Recovery	Recovery mode set to Auto	Recovery mode set to Auto	Recovery mode set to Auto
Port Channel Load Balance	Source Destination IP	Source Destination IP	Source Destination IP
SSH	Version 2	Version 2	Version 2
SCP	Enabled	Enabled	Enabled
VTY Access to Switch	Enabled	Enabled	Enabled
Service Timestamp	Enabled	Enabled	Enabled
VLAN	The following VLANs are created: <ul style="list-style-type: none"> <li>• Default VLAN</li> <li>• Data VLAN</li> <li>• Voice VLAN</li> <li>• Management VLAN</li> </ul>	The following VLANs are created: <ul style="list-style-type: none"> <li>• Default VLAN</li> <li>• Data VLAN</li> <li>• Voice VLAN</li> <li>• Management VLAN</li> </ul>	The following VLANs are created: <ul style="list-style-type: none"> <li>• Default VLAN</li> <li>• Data VLAN</li> <li>• Voice VLAN</li> <li>• Management VLAN</li> </ul>

Setting	Single Access Switch (Single Uplink)	Single Access Switch (Single Port Channel Uplink)	Single Access Switch (Redundant Port Channel Uplink)
Management Interface	Layer 3 settings configured on the management port, based on Quick Setup	Layer 3 settings configured on the management port, based on Quick Setup	Layer 3 settings configured on the management port, based on Quick Setup
IPv6 Host Policy	IPv6 host policy created	IPv6 host policy created	IPv6 host policy created
QoS Policy for Downlink Ports	Auto QoS Policy for Access defined	Auto QoS Policy for Access defined	Auto QoS Policy for Access defined
QoS Policy for Uplink Ports	QoS Policy for Distribution created	QoS Policy for Distribution created	QoS Policy for Distribution created
Uplink Interfaces	Selected uplink interfaces configured as trunk ports, set to allow all VLANs	Selected ports configured as Port-channel in trunk mode, set to allow all VLANs.	Selected ports configured as Port-channel in trunk mode, set to allow all VLANs.
Downlink Interfaces	Downlink ports configured in Access mode	Downlink ports configured in Access mode	Downlink ports configured in Access mode
Port-channel	Not configured	Port-channel to distribution created	Port-channel to distribution created

Figure 7: Site Profile - Access Switches

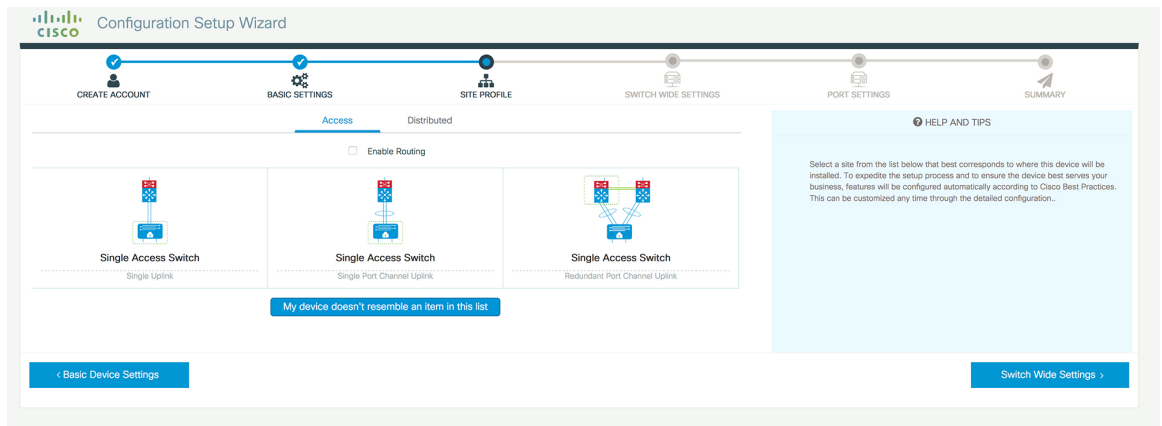
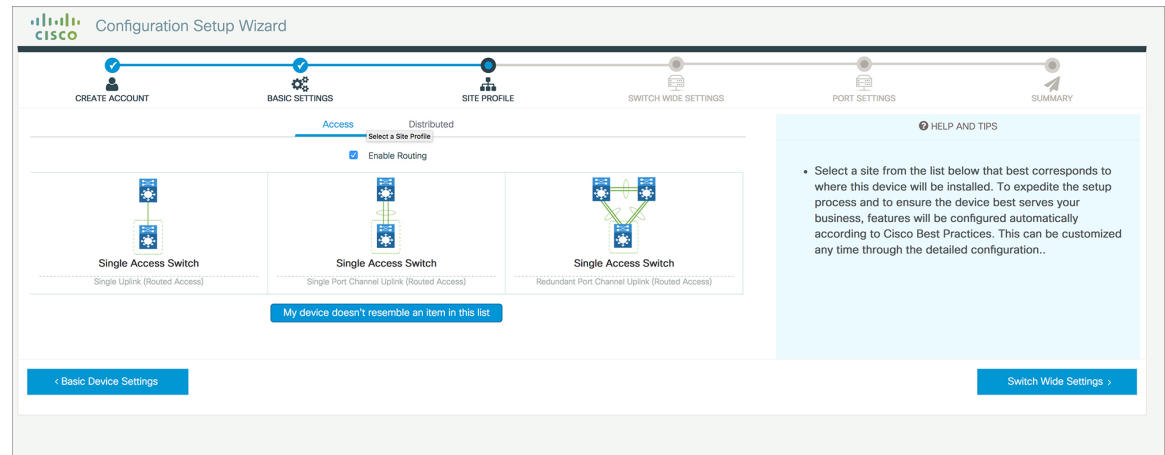




Figure 8: Site Profile - Access Switches (with Routed Access)



## Configuring VLAN Settings

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- 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.
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## Configure STP Settings

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- 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 32748, change **Bridge Priority** to Yes and choose a priority number from the drop-down list.

Figure 9: VLAN and STP 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 current step is SWITCH WIDE SETTINGS.

The main content area is divided into three sections:

- VLAN Configuration:** Contains three checkboxes: Data VLAN, Voice VLAN, and Management Vlan (Switch Wide Settings).
- STP Configuration:** Contains a dropdown menu for STP Mode (set to RPVST), a checked checkbox for Bridge Priority, and a dropdown menu for Bridge Priority Number (set to 32768).
- General Configuration:** Contains a left navigation button labeled '< Site Profile' and a right navigation button labeled 'Port Settings >'. A 'HELP AND TIPS' section is also visible on the right side of the page.

The 'HELP AND TIPS' section contains the following text:

- A data VLAN is a VLAN that is configured to carry user-generated traffic. Voice VLAN allows you to enhance VoIP service by configuring ports to carry IP voice traffic from IP phones on a specific VLAN.
- STP is to prevent bridge loops and the broadcast radiation that results from them.
- The part of a network address which identifies it as belonging to a particular domain. Configure Syslog Client within the Cisco Device, use a severity level of warnings through emergencies to generate error message about software and hardware malfunctions.
- Protocol for network management and its collecting information from, and configuring, network devices, such as switches, and routers on an IP network.

## Configuring DHCP, NTP, DNS and SNMP Settings

- 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 10: DHCP, NTP, DNS and SNMP Settings

The screenshot shows the Cisco Configuration Setup Wizard interface. At the top, there's a progress bar with six steps: CREATE ACCOUNT, BASIC SETTINGS, SITE PROFILE, SWITCH WIDE SETTINGS, PORT SETTINGS (current), and SUMMARY. The main content area is titled 'General Configuration' and is divided into three sections: 'Domain Details' with fields for Domain Name and DNS Server; 'Server Details' with fields for DHCP Server, Syslog Server, and NTP Server; and 'Management Details'. On the right, a 'HELP AND TIPS' panel provides information about VLANs, STP, and Syslog. At the bottom, there are navigation buttons: '< Site Profile' and 'Port Settings >'.

**What to do next**

Configure port settings.

## Configuring Port Settings

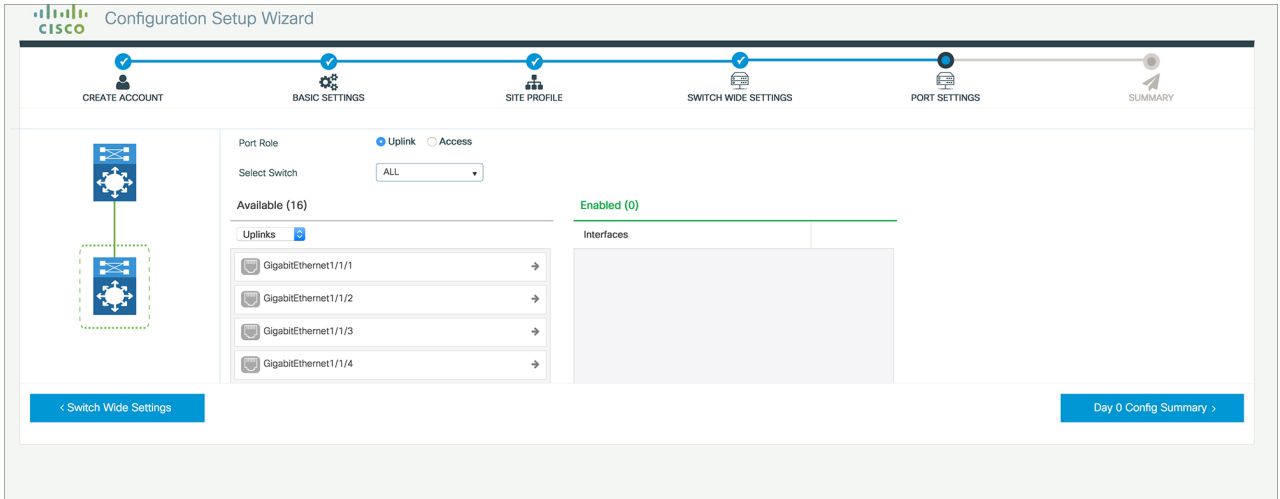
**Step 1** Based on the site profile chosen in the earlier step which is displayed in the left-pane, select the **Port Role** from among the following options:

- 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 11: Port Settings



**What to do next**

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

Figure 12: Day 0 Config Summary

