



Configuring and Accessing the Web User Interface

The Cisco ASR 1000 Series Routers introduce a web user interface that expands on the functionality of web user interfaces available in other Cisco routers.

This chapter is about this web user interface and covers the following topics:

- [Web User Interface Overview, on page 1](#)
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Web User Interface Overview

This section covers the following topics:

Web User Interface General Overview

The web user interface is available on Cisco ASR 1000 Series Routers starting in Cisco IOS XE Release 2.1.1. The web user interface is not available in Cisco IOS XE Release 2.1.0.

The Cisco ASR 1000 Series Routers can be accessed using a web user interface. This web user interface allows users to monitor router performance using an easy-to-read graphical interface. Most aspects of a Cisco ASR 1000 Series Router can be monitored using the web user interface.

The web user interface has the following features:

- An interface that presents information in an easy-to-read graphical format.
- An interface that allows users to monitor most software processes, including processes related to the IOS and nonIOS subpackages within the Cisco IOS XE consolidated package.
- An interface that allows users to monitor most hardware components, including all RPs, ESPs, SIPs, and SPAs installed in the router.

- Access to the legacy web user interface in addition to the enhanced web user interface.
- The ability to gather the output of **show** commands from the web user interface.

Legacy Web User Interface Overview

Previous Cisco routers have a legacy web user interface that can be used to monitor the router. This legacy web user interface presents information in a straightforward manner without using any graphics. On the Cisco ASR 1000 Series Routers, this interface is part of the larger web user interface and can be accessed by clicking the “IOS Web UI” option in the left-hand menu.

On the Cisco ASR 1000 Series Routers, the legacy web user interface can only be used to configure and monitor the IOS subpackage. In some scenarios, most notably when an **ip http** command has been successfully entered to enable the HTTP or HTTPS server while a properly configured web user interface transport map has not yet been applied on the Cisco ASR 1000 Series Router, the legacy web user interface will be accessible while the graphics-based web user interface will be inaccessible.

See the following figure for an example of the legacy web user interface home page.

Figure 1: Legacy Web User Interface Home Page

The screenshot shows the legacy web user interface for a Cisco Router. The top navigation bar includes the Cisco logo, the word "Router", and the time "11:58 am". Below the navigation bar, there is a breadcrumb trail "Home > IOS WebUI". The left sidebar contains a navigation menu with the following categories and sub-items:

- IOS WebUI**
- System**
 - Version
 - Running Configuration
 - Content
 - Status
- Chassis**
 - Environment
 - Fans
 - File System
 - IO-Ports
- Memory**
 - Free
 - Summary
 - Mounts
- Process Resource**
 - Memory
 - CPU
 - CPU History
 - Process List
 - Sensors
 - UDS
- Alarms**
 - Audible
 - Visual
- CEF**
 - All
 - VRF Summary
- Diagnostics**
 - Chassis Manager
 - Slots
- Interfaces**
 - Forwarding Manager
 - IP
 - OS-Interfaces
 - Summary
- Modules**
 - FPD
 - Subslot OIR
- Peers**
 - Chassis Manager
 - Forwarding Manager
 - Interface Manager
 - Shell Manager
- WebCLI**

The main content area displays "IOS WebUI" with a refresh timer set to 15 seconds. Below this, there is a section for "Cisco Systems" titled "Accessing Cisco ASR1006 Router" with the following links:

- Show diagnostic log - display the diagnostic log.
- Monitor the router - HTML access to the command line interface at level 0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15
- Show tech-support - display information commonly needed by tech support.
- Extended Ping - Send extended ping commands.

A "Help resources" section lists the following information:

1. CCO at www.cisco.com - Cisco Connection Online, including the Technical Assistance Center (TAC).
2. tac@cisco.com - e-mail the TAC.
3. **1-800-553-2447 or +1-408-526-7209** - phone the TAC.
4. cs-html@cisco.com - e-mail the HTML interface development group.

The footer includes copyright information: "(c) 2004-2007 Cisco Systems, Inc. All rights reserved." and a timestamp: "10:52:00 AM Thu Apr 03 2008 GMT".

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Graphics-Based Web User Interface Overview

The web user interface on the Cisco ASR 1000 Series Routers expands the legacy web user interface available on other platforms by presenting information in easy-to-read graphics-based tables, graphs, or charts, depending on the information presented. The web user interface on the Cisco ASR 1000 Series Routers is also able to present monitoring information stored in both the IOS and nonIOS subpackages, allowing for a complete view of the router using the web user interface.

See the following figure for an example of the graphics-based web user interface home page.

Figure 2: Graphics-Based Web User Interface Home Page



Persistent Web User Interface Transport Maps Overview

To enable the graphics-based web user interface, a persistent web user interface transport map must be configured. The persistent web user interface transport map, when successfully configured and applied to the router, defines how the router handles incoming web user interface requests. In the persistent web user interface transport map, users define whether the graphics-based web user interface can be accessed through HTTP, HTTPS, or both protocols. Only one persistent web user interface transport map can be applied to a Cisco ASR 1000 Series Router at a time.

The persistent web user interface transport map configuration must be performed in addition to the legacy web user interface configuration, which is configured using the **ip http** command set. The **ip http** command settings define which ports are used by HTTP or HTTPS for both the legacy and graphics-based web user interface.

Configuring the Router for Web User Interface Access

The ability to access either web user interface on the Cisco ASR 1000 Series Routers is disabled by default.

The legacy web user interface must be configured before the graphics-based web user interface can be enabled.



Note The web user interface will not work if the Management Ethernet interface has not been configured or is not working; specifically, the default route must be specified in the Management Ethernet VRF before the web user interface can be configured.

To enable the entire web user interface, perform the following tasks:

SUMMARY STEPS

1. (Optional) Ensure the clock setting on your router is accurate by entering the **show clock** command.
2. Connect to your router and enter the **configure terminal** command to enter global configuration mode.
3. Set the HTTP server authentication method to local by entering the **ip http authentication local** command.
4. Enable the legacy web user interface by entering one of the following global configuration commands:
5. Create and name a persistent web user interface transport map by entering the **transport-map type persistent webui transport-map-name** command.
6. Enable HTTP, HTTPS, or both by entering the following commands in transport map configuration mode:
7. (Optional) Enter the **show transport-map name transport-map-name** privileged EXEC command to verify that your transport map is properly configured.
8. Enable the transport map by entering the **transport type persistent webui input transport-map-name** global configuration command.

DETAILED STEPS

Step 1 (Optional) Ensure the clock setting on your router is accurate by entering the **show clock** command.

Example:

```
Router# show clock
*13:56:59.257 DST Mon May 5 2008
```

If the router time is not properly set, use the **clock set** and **clock timezone** commands for setting the router clock.

Step 2 Connect to your router and enter the **configure terminal** command to enter global configuration mode.

Step 3 Set the HTTP server authentication method to local by entering the **ip http authentication local** command.

Step 4 Enable the legacy web user interface by entering one of the following global configuration commands:

- **ip http server**—Enables HTTP on port 80, which is the default HTTP port.
- **ip http port port-number**—Enables HTTP on the nondefault user-specified port.

- **ip http secure-server**—Enables HTTPS on port 443, the default HTTPS port.
- **ip http secure-port *port-number***—Enables HTTPS on the nondefault user-specified port.

The legacy web user interface becomes available at this point of the procedure. Users attempting to access the web user interface after this step is completed will see the legacy web user interface only.

To enable the graphics-based web user interface, proceed to Step 5 and complete the remaining steps in this procedure.

- Step 5** Create and name a persistent web user interface transport map by entering the **transport-map type persistent webui *transport-map-name*** command.
- Step 6** Enable HTTP, HTTPS, or both by entering the following commands in transport map configuration mode:
- **server**—Enables HTTP.
 - **secure-server**—Enables HTTPS.
- Port numbers cannot be set within the transport map. The port numbers defined in Step 4 are also used with these settings in the persistent web user interface transport map.
- Step 7** (Optional) Enter the **show transport-map name *transport-map-name*** privileged EXEC command to verify that your transport map is properly configured.
- Step 8** Enable the transport map by entering the **transport type persistent webui input *transport-map-name*** global configuration command.

What to do next

Examples

In the following example, the HTTP server authentication method is set to local:

```
Router# configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)# ip http authentication local
```

```
Router(config)# exit
```

In the following example, the web user interface using the default HTTP port is enabled:

```
Router# configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)# ip http server
Router(config)# transport-map type persistent webui http-webui
Router(config-tmap)# server
Router(config-tmap)# exit
Router(config)# exit
Router# show transport-map name http-webui
Transport Map:
  Name: http-webui
  Type: Persistent Webui Transport
Webui:
  Server:          enabled
  Secure Server:  disabled
Router# configure terminal
Router(config)# transport type persistent webui input http-webui
*Apr 22 02:43:55.798: %UICFGEXP-6-SERVER_NOTIFIED_START: R0/0: psd: Server wui has been notified to start
```

In the following example, the web user interface using the default HTTPs port is enabled:

```

Router# configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)# ip http secure-server
Router(config)# transport-map type persistent webui https-webui

Router(config-tmap)# secure-server
Router(config-tmap)# exit
Router(config)# transport type persistent webui input https-webui
*Apr 22 02:38:43.597: %UICFGEXP-6-SERVER_NOTIFIED_START: R0/0: psd: Server wui has been notified to start

```

In the following example, the web user interface using the default HTTP and HTTPS ports is enabled:

```

Router# configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)# ip http server
Router(config)# ip http secure-server
Router(config)# transport-map type persistent webui http-https-webui
Router(config-tmap)# server
Router(config-tmap)# secure-server
Router(config-tmap)# exit
Router(config)# transport type persistent webui input http-https-webui
*Apr 22 02:47:22.981: %UICFGEXP-6-SERVER_NOTIFIED_START: R0/0: psd: Server wui has been notified to start

```

Authentication and the Web User Interface

Users attempting to access the web user interface for a router are subject to the same authentication requirements configured for that router. The web browser prompts all users for a name and password combination, and the web browser then looks to the router configuration to see if a user should or should not be granted access to the web user interface.

Only users with a privilege level of 15 can access the web user interface. Otherwise, authentication of web user interface traffic is governed by the authentication configuration for all other traffic.

To configure authentication on your router, see {start cross reference} Configuring Authentication {end cross reference}. {start hypertext}

http://www.cisco.com/en/US/docs/ios/12_2/security/configuration/guide/scfathen.html {end hypertext}

Domain Name System and the Web User Interface

The Domain Name System (DNS) is a distributed database in which you can map hostnames to IP addresses through the DNS protocol from a DNS server.

If the router is configured to participate in the Domain Name System, users can access the web user interface by entering **http://<dns-hostname>** as the web browser address.

For information on configuring DNS, see {start cross reference} Configuring DNS {end cross reference}. {start hypertext}http://www.cisco.com/en/US/docs/ios/ipaddr/configuration/guide/ip_addr_config_dns_ps6922_TSD_Products_Configuration_Guide_Chapter.html {end hypertext}

Clocks and the Web User Interface

Requests to view the web user interface can be rejected by certain web browsers if the time as seen by the web browser differs from the time as seen by the router by an hour or more.

For this reason, we recommend checking the router time using the **show clock** command before configuring the router and, if the router time is not properly set, use the **clock set** and **clock timezone** commands for setting the router clock.

Similarly, the web browser's clock source, which is usually the personal computer, must also have an accurate time to properly access the web user interface.

The following message appears when the web browser and the router clocks are more than an hour apart:

```
Your access is being denied for one of the following reasons:. Your previous session has
timed-out, or. You have been logged out from elsewhere, or. You have not yet logged in, or.
The resource requires a higher privilege level login.
```

If you see this message and fixing the other possible causes of the issue still does not make the web user interface accessible, check both the router clock and the PC clock to ensure both clocks reflect the accurate day and time and then retry your connection to the web user interface.

Also note that if one clock changes at daylight savings time while another clock does not, clock-related issues can occur.

Accessing the Web User Interface

To access the web user interface, perform the following tasks:

SUMMARY STEPS

1. Open your web browser. The web user interface supports the following web browsers:
2. Enter the address of the router in the address field of the web browser. The format for the address of the router in the address field is **http://<routername or management-ethernet-ip-address>:http-port]** or **https://<routername or management-ethernet-ip-address>:https-port]**, and the addresses that are acceptable depend upon your web browser user interface configurations and whether your router is participating in DNS. Following are some examples of acceptable address field web browser entries:
3. If prompted, enter your username and password. The username and password combination required to enter the web user interface is the same combination required to access the router.
4. The graphics-based web user interface similar to should appear in your web browser.

DETAILED STEPS

-
- Step 1** Open your web browser. The web user interface supports the following web browsers:
- Microsoft Internet Explorer 6 or later
 - Mozilla Firefox 2.0 or later

Step 2 Enter the address of the router in the address field of the web browser. The format for the address of the router in the address field is **http://<routername or management-ethernet-ip-address>:http-port** or **https://<routername or management-ethernet-ip-address>:https-port** , and the addresses that are acceptable depend upon your web browser user interface configurations and whether your router is participating in DNS. Following are some examples of acceptable address field web browser entries:

Example:

```
HTTP Using Default Port Example
http://198.51.100.1
HTTPS Using Default Port Example
https://198.51.100.1
HTTP Using NonDefault Port Example
http://198.51.100.1:94
HTTPS Using NonDefault Port Example
https://198.51.100.1:530/
HTTP Using Default Port Participating in DNS Example
http://router1
HTTPS Using Default Port Participating in DNS Example
https://router1
HTTP Using NonDefault Port Participating in DNS Example
http://router1:94
HTTPS Using NonDefault Port Participating in DNS Example
https://router1:530/
```

Step 3 If prompted, enter your username and password. The username and password combination required to enter the web user interface is the same combination required to access the router.

Step 4 The graphics-based web user interface similar to should appear in your web browser.

Using Auto Refresh

The web user interface does not refresh content automatically by default.

To set an auto-refresh interval, follow these steps:

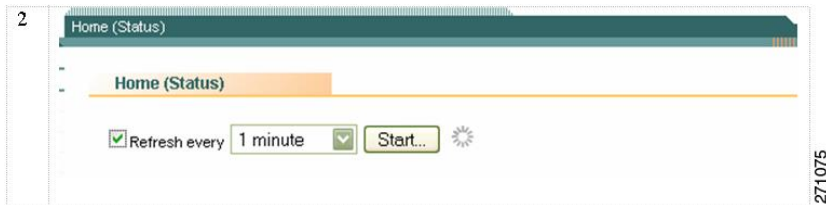
SUMMARY STEPS

1. Check the **Refresh every** check box on the graphical web user interface home page. A check mark appears in the check box.
2. Set the frequency of the auto-refresh interval using the drop-down menu.
3. Click the **Start** button to the right of the drop-down menu. After hitting this button, the **Start** button becomes the **Stop** button and a countdown timer placed to the right of the **Stop** button begins to increment.

DETAILED STEPS

Step 1 Check the **Refresh every** check box on the graphical web user interface home page. A check mark appears in the check box.

Figure 3: Checking Auto Refresh Check Box



Step 2 Set the frequency of the auto-refresh interval using the drop-down menu.

Step 3 Click the **Start** button to the right of the drop-down menu. After hitting this button, the **Start** button becomes the **Stop** button and a countdown timer placed to the right of the **Stop** button begins to increment.

Figure 4: Auto Refresh Counter Example



The web user interface screen refreshes every time this counter reaches 0 seconds.

If you would like to stop the auto-refresh update, click the **Stop** button to return to the default setting of no auto-refresh update.

Web User Interface Tips and Tricks

This section provides some useful information about using the web user interface once the interface has been accessed:

- If you know a Cisco IOS command-line interface command to gather information that you are unable to gather using the web user interface, you can click **IOS Web UI** followed by **Monitor the Router** to enter commands.
- If you know a diagnostic mode command to gather information that you are unable to gather using the web user interface, you can click **WebCLI** to enter **show** commands.
- The WebCLI command line has a context-sensitive help feature that shows the options available in a certain keyword sequence using a drop-down menu. The following figure shows an example of this drop-down menu context-sensitive help feature.

Figure 5: Web CLI Drop-Down Menu

The screenshot displays the Cisco WebUI interface for a Router. The top navigation bar includes the Cisco logo, the word 'Router', and the time '10:44 am'. A breadcrumb trail shows 'Home > WebCLI'. The left sidebar is a navigation menu with the following categories and sub-items:

- IOS WebUI**
- System**
 - Version
 - Running Configuration
 - Content
 - Status
- Chassis**
 - Environment
 - Fans
 - File System
 - IO-Ports
- Memory**
 - Free
 - Summary
 - Mounts
- Process Resource**
 - Memory
 - CPU
 - CPU History
 - Process List
 - Sensors
 - UDS
- Alarms**
 - Audible
 - Visual
- CEF**
 - All
 - VRF Summary
- Diagnostics**
 - Chassis Manager
 - Slots
- Interfaces**
 - Forwarding Manager
 - IP
 - OS-Interfaces
 - Summary
- Modules**
 - FPD
 - Subslot OIR
- Peers**
 - Chassis Manager
 - Forwarding Manager
 - Interface Manager
 - Shell Manager
- WebCLI**

The main content area is titled 'WebCLI' and contains the following text:

To conserve resources, the webCLI requires the following steps:

- . In the *command* field, start entering "show" to see all start-phrases for supported **show** commands
- . After entering the entire start-phrase or selecting one, enter a **<space>** to see all possible matching commands
- . Enter the remainder of the command or select one. Hit **<enter>** to execute the command

The **Command** field contains the text 'show platform software process list'. A dropdown menu is open, showing a list of commands:

- show platform software process list 0
- show platform software process list 0 summary
- show platform software process list 1
- show platform software process list 1 summary
- show platform software process list 2
- show platform software process list 2 summary
- show platform software process list F0
- show platform software process list F0 summary
- show platform software process list F1
- show platform software process list F1 summary
- show platform software process list FP active
- show platform software process list FP active summary
- show platform software process list FP standby
- show platform software process list FP standby summary
- show platform software process list R0
- show platform software process list R0 summary
- show platform software process list R1
- show platform software process list R1 summary
- show platform software process list RP active
- show platform software process list RP active summary
- show platform software process list RP standby
- show platform software process list RP standby summary

At the bottom right of the page, the text 'rights reserved. GMT' is visible. The page number '271031' is located at the bottom right corner.

Configuring Web User Interface in Cisco IOS XE 16 Releases

Web User Interface

The Web User Interface (WebUI) is a graphical user interface that allows you to provision, monitor, and optimize your device. These sections explain how to access the web user interface and bring up the device:

Setting Up Factory Default Device Using WebUI

Quick Setup Wizard allows you to perform the basic router configuration. To configure the router:

Before you begin

- Before you access the WebUI, you need to have the basic configuration on the device.

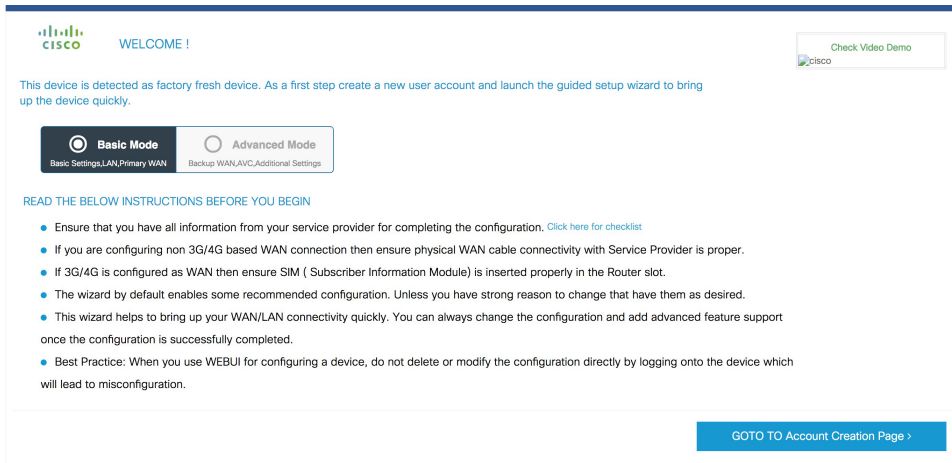
-
- Step 1** Connect the RJ-45 end of a serial cable to the RJ-45 console port on the router.
- Step 2** After the device initial configuration wizard appears, enter **No** to get into the device prompt when the following system message appears on the router.
- Would you like to enter the initial configuration dialog? [yes/no]: no
- Step 3** From the configuration mode, enter the following configuration parameters.
- ```
!
ip dhcp pool WEBUIPool
network 192.168.1.0 255.255.255.0
default-router 192.168.1.1
username webui privilege 15 password cisco
!
interface gig 0/0/1
ip address 192.168.1.1 255.255.255.0
!
```
- Step 4** Connect your device to the router using an Ethernet cable to the gig 0/0/1 interface.
- Step 5** Set up your system as a DHCP client to obtain the IP address of the router automatically.
- Step 6** Launch the browser and enter the device IP address in your browser's address line. For a secure connection, type <https://192.168.1.1/#/dayZeroRouting>. For a less secure connection, enter <http://192.168.1.1/#/dayZeroRouting>.
- Step 7** Enter the default username (webui) and default password (cisco).
- 

**Using Basic or Advanced Mode Setup Wizard**

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

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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**.



## Configure LAN Settings

### 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:

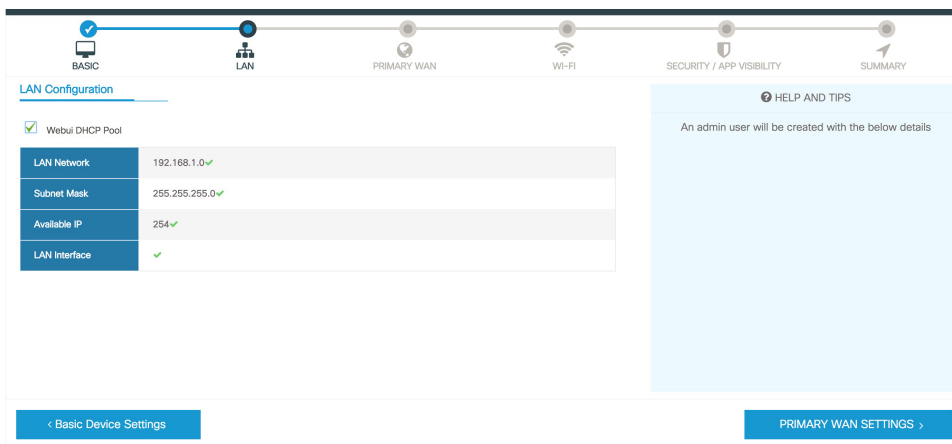
**Access VLAN**—Enter the Access VLAN identification number. The range is from 1 to 4094.

**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**.



## Configure Primary WAN Settings

- 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 username and password provided by the service provider.
- Step 8** Click **Security / APP Visibility WAN Settings**.

## Configure Secondary WAN Settings

For advanced configuration, you should configure the secondary WAN connection.

- 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.
- 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 username and password provided by the service provider.

**Step 8** Click **Security / APP Visibility WAN Settings**.

## Configure Security Settings

**Step 1** Check the **Enable Cisco Recommended Security Settings** check box to ensure that all passwords are not shown in plain text. The passwords are encrypted.

**Step 2** Click **Day 0 Config Summary**.

**Step 3** To preview the configuration, click **CLI Preview** to preview the configuration.

**Step 4** Click **Finish** to complete the Day Zero setup.

The screenshot displays the 'SUMMARY' page of the Day 0 configuration wizard. At the top, a progress bar shows six steps: BASIC, LAN, PRIMARY WAN, WI-FI, SECURITY / APP VISIBILITY, and SUMMARY. The 'SUMMARY' step is currently selected. Below the progress bar, a 'CLI Preview' button is visible. The main content area contains a table summarizing the configuration for each step:

| Step                      | Configuration Details                                                                                                                |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Basic                     | Router Name: geo, Domain Name: mydomain.com, Time Zone: 5:30, Date & Time Mode: Automatic                                            |
| LAN                       | LAN Interface: , IP Address: , Subnet Mask: , Use as DHCP Server: Yes, Pool Name: , Network: (), Management Interface Configured: No |
| Primary WAN               | WAN Interface: , IP Address: Automatic, DNS: Automatic, NAT: Enabled                                                                 |
| Wi-Fi                     | Wi-Fi Configuration:                                                                                                                 |
| Security / App Visibility | Cisco recommended security settings: Enabled, Application Visibility: Disabled                                                       |

At the bottom of the page, there is a navigation bar with a '< SECURITY / APP VISIBILITY' button on the left and a 'Finish >' button on the right.

