

Lab: Configure SOHO Router Security (5)

Lab 1: Connect to the Router (1)

The screenshot shows a Linux desktop environment with a terminal window open. The terminal window displays a command-line interface for the OpenWrt router. The browser window shows the OpenWrt admin login page at <https://192.168.1.1/cgi-bin/luci/>. The login form has 'root' entered in the Username field. A message in the browser says, "It looks like you haven't started Firefox in a while. Do you want to clean it up for a fresh, like-new experience? And by the way, welcome back!" Below the browser is a terminal window showing the date and time: "1 06/30/2023 Zhaire T Robinson". The terminal also shows some file operations like "Open", "Save", and "Plain Text". On the right side of the screen, there is a sidebar titled "Assisted Lab: Configure SOHO Router Security" with a progress bar indicating "1 Hr 22 Min Remaining". It lists several tasks numbered 12 through 17, with task 15 highlighted as completed. Task 15 involved selecting a "Score" button to validate the task. A note below task 15 explains that the password "Pa\$\$w0rd" is strong because it contains a mix of character types and includes substitutions for 's' and 'o'.

Lab 2: Configure Secure Wireless

The screenshot shows a Firefox browser window with multiple tabs open. The active tab is labclient.labondemand.com/LabClient/475bed8d-ca83-4c35-aea5-7bbec67263f9?rc=10. The page title is "Assisted Lab: Configure SOHO Router Security" with "1 Hr 17 Min Remaining". The main content area shows the "Network" settings in the OpenWrt LuCI interface. It lists two wireless interfaces: "radio0" (SSID: home, Mode: Master, BSSID: 02:00:00:00:00:00) and "radio1" (SSID: generic, Channel: 36 (5.180 GHz), Bitrate: ? Mbit/s). A modal window is open in the foreground, displaying the date and time (Jul 2 15:57) and the user's name (Zhaire T Robinson). The right sidebar contains instructions and a checklist for the lab task:

- 10. Select the Score button to validate this task:
Score
✓ radio0 Network ID and security parameters correct ... Task complete
- 11. Use the same process to configure a 5 GHz network on radio1:
 - Use AX mode on the 5 GHz frequency band and auto channels.
 - Use the same SSID and security.
- 12. Select the Score button to validate this task:
Score
✓ radio1 Network ID and security parameters correct ... Task complete
- 13. Stay logged in to the admin app and leave the browser window open.

At the bottom right, it says "36% Tasks Complete".

Lab 3: Configure Port Forwarding (1)

The screenshot shows a Linux desktop environment with a terminal window and a browser window. The browser window displays the OpenWrt 21.02 firewall configuration interface. A specific rule is selected:

```
server protocol TCP
From [wan] Forward to [lan] IP 192.168.1.2 port 80
To [this device], port 80
```

The sidebar on the right contains a task list for "Assisted Lab: Configure SOHO Router Security". The tasks are:

- Select the **OpenWrt** tab again. In the app, select **Network > Firewall**. Select the **Port Forwards** tab.
- Click the **Add** button and complete the web dialog with the following configuration:
 - Name: Type **Home web server**.
 - Protocol: Click the drop-down and uncheck **UDP**. Only **TCP** should be selected.
 - Source zone: Leave set to **WAN**.
 - External port: Type **80**.
 - Destination zone: Leave set to **LAN**.
 - Internal IP address: Select **192.168.1.2 (HOMESERVER1.lan)**.
 - Internal port: Type **80**.
- Select the **Save** button. In the main window, click the **Save & Apply** button.
- Select the **Score** button to validate this task:

✓ Forwarding rule parameters correct ...
Task complete
- Stay logged in to the admin app and leave the browser window open.

At the bottom of the sidebar, it says "65% Tasks Complete".

Lab 4: Testing Forwarding (1)

The screenshot shows a Linux desktop environment with a terminal window open. The terminal window displays a message from a website: "It looks like you have just opened a new tab in Firefox. And by the way, we're excited to bring you a-new experience?". Below this message is the date and time: "1 06/30/2023 Zhaire T Robinson". The terminal also shows standard file operations like "Open", "Save", and "Search". To the right of the terminal, there is a "Text Editor" window showing a profile picture of a man wearing a VR headset. On the far right, there is a "Assisted Lab: Configure SOHO Router Security" interface with instructions, resources, and help sections. It includes a checklist for tasks such as connecting to the router's WAN IP address and validating answers.

Lab 5: Update Firmware (1)

