

Custom Firmware

Custom-compiled OpenWRT firmware is used by pentesters to create sniffer or hacking/pentesting platforms. The labs in this section teach you how to compile OpenWRT firmware and interact with emulated OpenWRT machines.

What will you learn?

- Compiling OpenWRT firmware for an off the shelf router
- · Customizing packages and tools for firmware
- · Interacting with emulated OpenWRT setup

References:

- 1. Make your own Hacker gadget (https://www.pentesteracademy.com/course?id=15)
- 2. Image building guide (https://openwrt.org/docs/guide-developer/quickstart-build-images)
- 3. Compiling firmware from source (https://openwrt.org/docs/guide-user/additional-software/beginners-build-guide)

Labs Covered:

• OpenWRT Compilation Setup

In this lab, you will learn to compile/build OpenWRT firmware. A non-exhaustive list of activities to be covered includes:

- Select an appropriate target, packages in the build menu
- Clean previously created image files, building new images
- Appropriate use of the created firmware files
- Emulated OpenWRT System

In this lab, you will learn to interact with the emulated OpenWRT router device. A non-exhaustive list of activities to be covered includes:

- Interact with an emulated router using console access CLI
- Check filesystem and running processes
- Use commands to interact with WiFi interfaces



Emulated OpenWRT System





OpenWRT Compilation Setup

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