

# Make your own Hacker Gadget

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# Firmware Rebuilding with the Firmware Mod Kit (FMK)

# Limitations of Binwalk

- What if we would like to add more features to our firmware?
- Maybe package a new version of Busybox? Or add more commands?
- Binwalk does not allow us to rebuild firmware from modifications

# Firmware Mod Kit

## Firmware Modification Kit

This kit is a collection of scripts and utilities to extract and rebuild linux based firmware images.

1. Extract a firmware image into its component parts
2. User makes desired modification to the firmware's file system or web UI (webif)
3. Rebuild firmware
4. Flash modified firmware onto device and brick it (ha)

<https://code.google.com/p/firmware-mod-kit/>

# Disclaimer

- This is an education exercise and we do not encourage illegal behavior using Firmware Modifications
- You might brick your device if something goes wrong and **YOU WILL BE RESPONSIBLE** for this
- You are liable for your own actions

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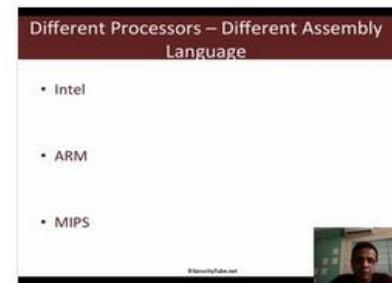
Challenge 7: Cracking Digest Authentication Solution in WAP Challenges



Challenge 7: Cracking Digest Authentication in WAP Challenges



Module 1: GDB Test Solution in x86\_64 Assembly Language and Shellcoding on Linux



Module 1: CPU Information in x86\_64 Assembly Language and Shellcoding on Linux