Router Firmware Update

Step 1 : Save the firmware you want to upload on a folder

Step 2 : Get TFTP client software

Step 3 : Connect a PC wired to router and set it to have a static IP address

Step 4 : Open Network Sharing center -> Local Area Connection -> Properties -> IPV4 -> Configure & Save

Step 5 : Run the TFTP-Client

Step 5.a : Enter the default router IP in server field

Step 5.b : In the file field, browse by clicking the square button next to it, locate the firmware, but do not updrade yet.

Step 6 : Unplug all port connections from router except the PC used to upload

Step 7 : Turn off the router for 10s.

Step 8 : Hold on the reset button on the back of the router.

Step 9 : Power On the router while holding the reset button.

Step 10 : Watch the power LED.

Step 11 : Power LED will turn to flashing green. Wait at least 10 flash and release the reset button.

Step 12 : Click Upgrade button to do firmware upgrade.

Step 13 : You should see a note saying “Firmware was upgraded successfully”.

Step 14 : The firmware has been uploaded but need to wait ~4min for the router to finish storing firmware into its flash memory. Once it’s done, you will see the Power LED will turn green and the Wireless LEDs are both lit.

Description**:** You need a wireless client device, such as an 802.11n- or 802.11ac-  
equipped laptop, and an access point. You also need a wireless protocol analyzer, such as WireShark (which is freely available) or another protocol analyzers.

I used my phone as an access point, and wireshark as protocol analyzer.

Step: 1.2 : Configure the protocol analyzer

Description : The protocol analyzer should record 802.11 frame transmissions on all RF channels

I had some struggle doing this, as windows does not allow the *monitor mode* which is what we need to capture 802.11 frames with wireshark. As a result, I had to find a laptop with a Linux based installation on it.

First, I had to activate the *monitor mode* on my computer.

Configurations steps :

command + purpose + screenshots

Question : <question>

Answer