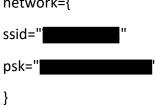
I will need to revert my Raspberry PI to a USB ethernet device. Used sudo nano /boot/cmdline.txt and changed the line modules- load=dwc2,g hit to modules-load=dwc, g ether and pressed CRTL and X, then Y, and enter for save to file. Rebooted, and updated using sudo apt update && sudo apt upgrade -y.

I then installed the re4son-kernel to enable monitoring mode on the onboard Wi-Fi adapter.

After I had installed the kernel/rebooted, I was not able to access Wi-Fi any longer. I inserted looked at the micro SD card and put in a new ssh file and a new wpa\_supplicant.conf. I plugged it back in and let it boot up, but I could not see it in the client list on my router. I looked at the microSD card again and saw that the ssh file and wpa\_supplicant.conf had disappeared, so I figured that the raspberry pi Zero W just had not booted at all. The version was still 11 and not 10 and after it was reimaged, I could continue.

I connected the device, and it would not connect to WiFi. I looked at the client list and it was not there. I created a new ssh file and a new wpa supplicant.conf:

```
country=us
update_config=1
ctrl_interface=/var/run/wpa_supplicant
network={
```



I had to delete the keys entered in the known hosts in my .ssh file under C:\\Users\\\_\_\_/.ssh/known\_hosts and I was let in. I updated and upgraded using the command:

sudo apt update && sudo apt upgrade -y

This update took over 15 minutes.

I downloaded the re4son kernel, extracted it using tar -xjf re4son-kernel\_current.tar.xz and installed using commands cd re4son-kernel\_4\* sudo ./install.sh and it took about 40 minutes, but this time when I rebooted, I was able to connect to WiFi.

I used command iw phy phy0 info to make sure the wireless adapter was placed in monitor mode and when looked for the list of modes supported, I saw that monitor was there.

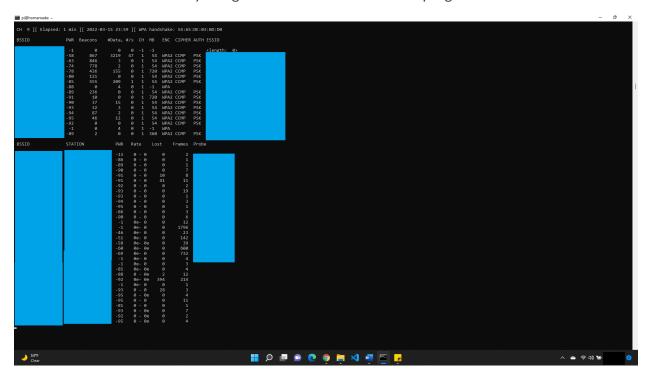
Since I did a reimage, I just added the following lines before the exit 0 line:

sudo iw phy phy0 interface add mon0 type monitor sudo ifconfig mon0 up and I rebooted using: sudo reboot

I used the command sudo if config mon0 to make sure mon0 still exists and saw mon in there.

To install aircrack-ng I used the command: sudo apt install -y aircrack-ng

I tested the monitor mode by using the command sudo airodump-ng mon0:



I then performed an injection test by using the command sudo aireplay-ng —test mon0:

