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**Assignment 4**

**Task 1:**

**0)All IP in the network**

**A screenshot of a computer

Description automatically generatedA picture containing computer, holding

Description automatically generated**

**1)Which IP available and which are not found by range.**

**A screen shot of a computer

Description automatically generated**

**2)Summary of all IP address.**

**A screenshot of a computer screen

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**Fping** is an important tool for finding the information about all IP address on the network.

We used this command **fping -q -s -g 192.168.56.100/24** for getting summary of the network 192.168.56.100. It will give you overview.

We used **fping -g networkname** you can write down the networks you want to know the information of.

We used **fping -g 192.168.56.100 192.168.56.110** it will give us information about all the networks within it. That is where we found IP address of the system we want to attack.

You can check the whole network details by using /24

192.168.56.0/24 it will give you all 254 Ip address information

**Task: 2**

**1)All Nmap IP address summary.**

**![A screenshot of text

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**2)TCP SYN**

**A screenshot of a computer

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**3)OS Detection**

**![A screenshot of text

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**4)Version Detection**

**A screenshot of a computer screen

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**A screenshot of a cell phone

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**5)Verbose Output**

**A screen shot of a computer

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**A screen shot of a social media post

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**Notes:**

I have performed TYC SYN, OS detection, Version detection and Verbose Output which are above mentioned with the screen shot.

I will use TCP open port 80 for using the victim websites information.

“I’ve used nmap 7.80 which was released on 2019/08/10 and this is the latest version.” -<https://nmap.org/changelog.html#7.80>