

- Question 1 and 2 is provided with 2 screenshots.  
`sudo nmap -sS -sV -O -o--osscan-guess 45.63.99.102`  
`sudo nmap -sS -sV -O -o--osscan-guess 95.179.140.254`
  
- Q-3) With only one query, I reached to both services with their versions and OS type. I used nmap tools such as stealth scan (-sS) for scan, -sV for versions, -O for operating system with aggressive guessing method.
  
- Q-4) <https://nmap.org/book/synscan.html> for understanding what sS does.  
[https://www.youtube.com/watch?v=AKWUIIE9MOg&t=271s&ab\\_channel=HackerSploit](https://www.youtube.com/watch?v=AKWUIIE9MOg&t=271s&ab_channel=HackerSploit) for general understanding of methods.
  
- Q-5) For 45.63.99.102, I found 3 open ports;
  - 1-) 22, service: ssh, version: OpenSSH 8.2p1 Ubuntu 4ubuntu0.2 (Ubuntu Linux; Protocol 2.0)
  - 2-) 80, service: http, version: nginx 1.18.0 (Ubuntu)
  - 3-)443, service: ssl/https
 OS: Linux 1.0.9  
  
 For 95.179.140.254, I found 3 open ports;
  - 1-) 22, service: ssh, version: OpenSSH 8.2p1 Ubuntu 4ubuntu0.1 (Ubuntu Linux; Protocol 2.0)
  - 2-) 80, service:http, version: Apache httpd 2.4.41
  - 3-)443, service: ssl/https
 OS: Linux 1.0.9
  
- Screen shot of my ip address is provided