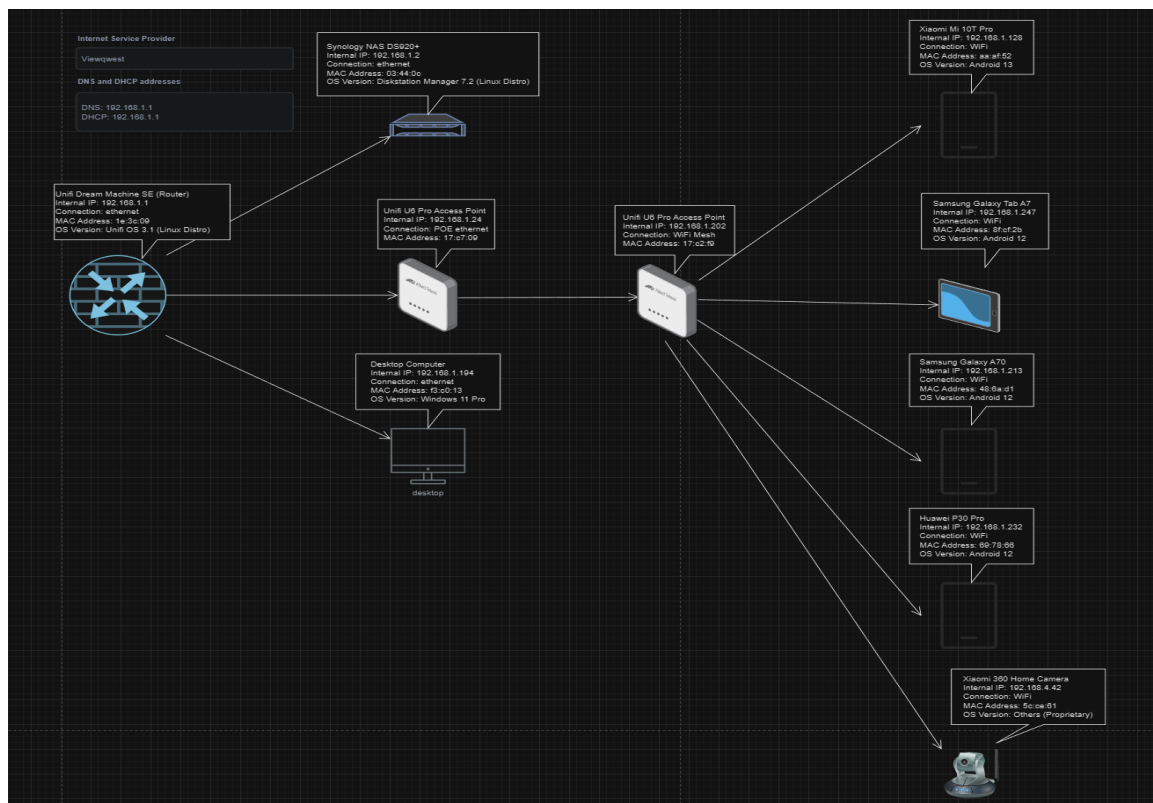Unit : CFC020823

Name : Sean Teo Wei Chong

Student Code : S28

Intro to Cyber

Image 1: Network map of my devices

Things to note:

- 1st access point are wired connect to my router and 2nd access point is connected to 1st access point via mesh connection.
- Xiaomi security camera is connected to a different network ID for security. In the event of being hacked, hackers are not able to access main network due to different network ID.

Image 2: Getting DNS and DHCP server address using command prompt

2.1 Command used:


```
C:\Users\sean1>ipconfig /all
```

Router Server: 192.168.1.1
DHCP Server: 192.168.1.1
DNS Server: 192.168.1.1


```
Ethernet adapter Ethernet:

   Connection-specific DNS Suffix  . : localdomain
   Description . . . . . . . . . . . : Realtek PCIe 2.5GbE Family Controller
   Physical Address. . . . . . . . . : 04-D9-F5-F3-C0-13
   DHCP Enabled. . . . . . . . . . . : Yes
   Autoconfiguration Enabled . . . . : Yes
   Link-local IPv6 Address . . . . . : fe80::f58e:abcc:217:63fd%7(Preferred)
   IPv4 Address. . . . . . . . . . . : 192.168.1.194(Preferred)
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Lease Obtained. . . . . . . . . . : Thursday, 17 August 2023 8:29:36 pm
   Lease Expires . . . . . . . . . . : Friday, 18 August 2023 8:29:35 pm
   Default Gateway . . . . . . . . . : 192.168.1.1
   DHCP Server . . . . . . . . . . . : 192.168.1.1
   DHCPv6 IAID . . . . . . . . . . . : 100981237
   DHCPv6 Client DUID. . . . . . . . : 00-01-00-01-2C-30-23-38-04-D9-F5-F3-C0-13
   DNS Servers . . . . . . . . . . . : 192.168.1.1
   NetBIOS over Tcpip. . . . . . . . : Enabled
```

Image 3: Getting my external IP address

3.1 Go to http://whatismyip.com and you will be able to see external IP used and the **Internet Service Provider (ISP)**

WhatIsMyIP.com

What Is My IP?   IP Address Lookup   IP WHOIS Lookup   DNS Lookup   Internet Speed Test

What Is My IP?

My Public IPv4 is: 132.147.73.42

My Public IPv6 is: Not Detected

My IP Location is: Singapore, - SG

My ISP is: ViewQwest Fibernet

Image 4: Obtaining devices information in network map

4.1 Login into my router settings page, select the device I want to know more and information will be available on the right side.
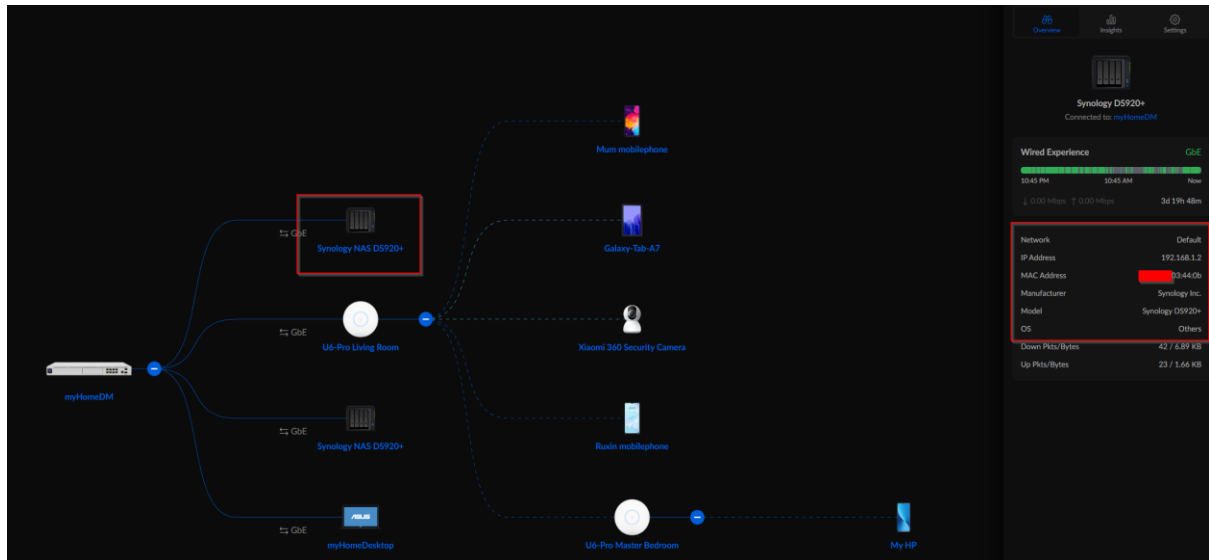
Image 5: Wireshark capturing information of my device going to Facebook website

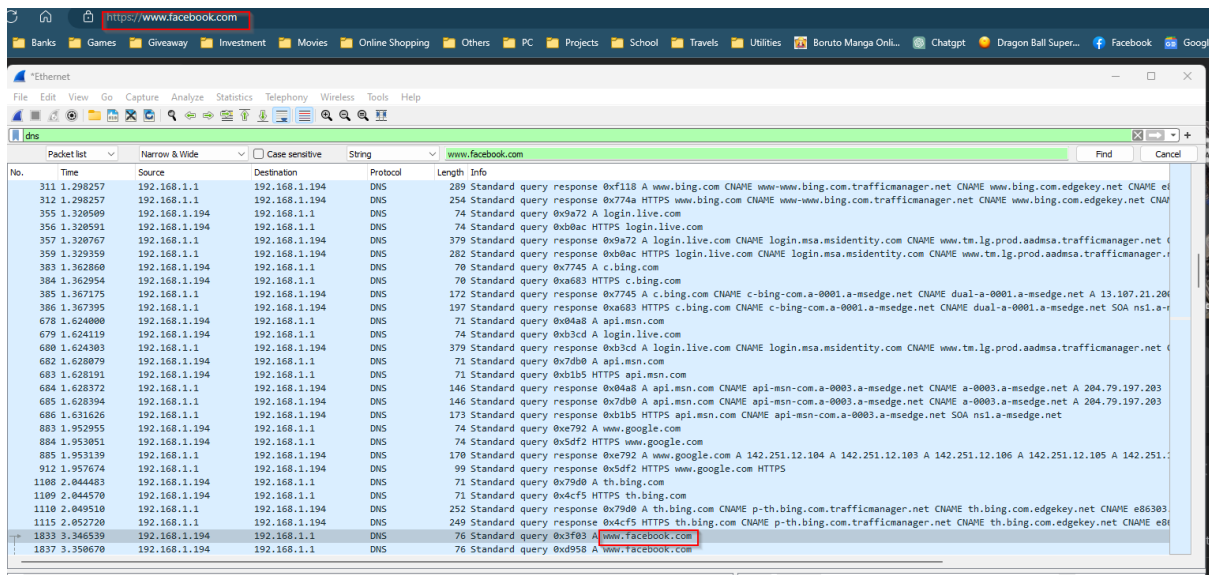5.1 Open Wireshark program, select the NIC that my device is using and go to www.facebook.com

Image 6: Capturing www.facebook.com IP address

6.1 Applying "DNS" filter and searching for "www.facebook.com" string

6.2 Alternately we can also use Windows Command Prompt to find out the IP address of Facebook.com by using "Ping <URL/domain names>"