Project: Net crafts

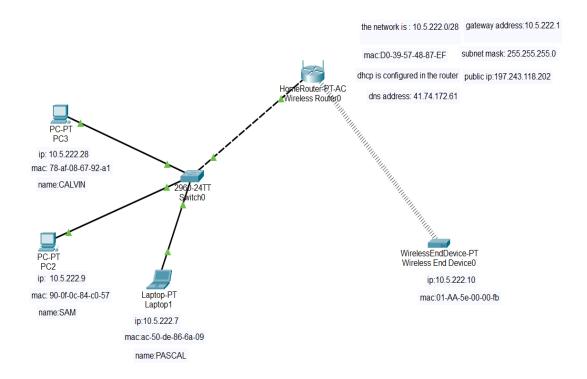
NAME:MUGISHA Pascal.....

UNIT: RW-CODING-ACADEMY-...II...

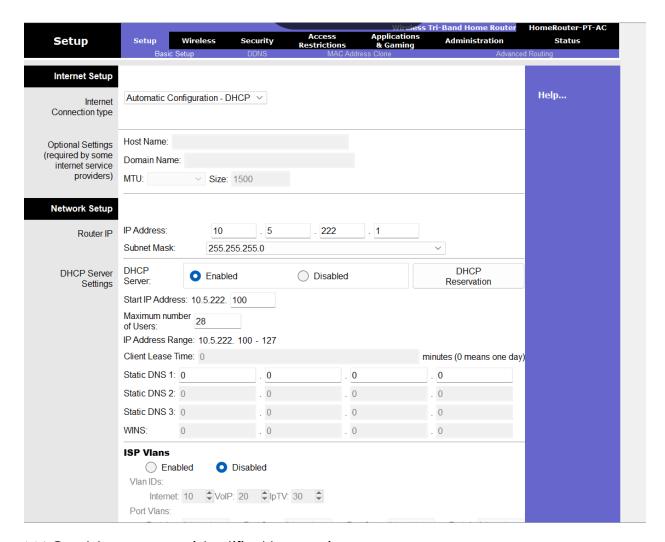
\$-code: \$...........25.......

MAP THE NETWORK

The below network diagram depicts my network. The DHCP and DNS configurations are provided in a Wireless router.



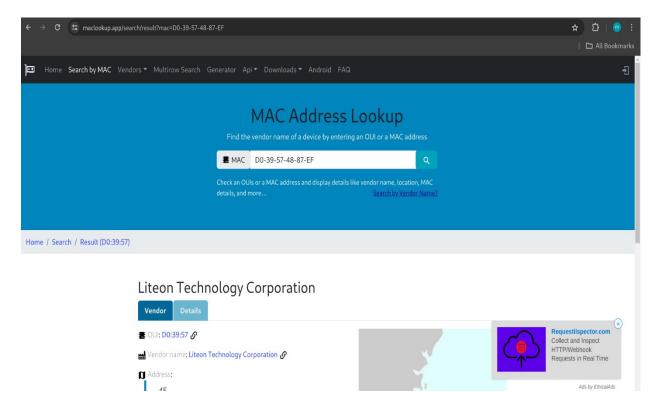
DHCP Configuration



MAC addresses were identified by running:

- arp -a
- ipconfig /all

Getting manufacture based on MAC address:

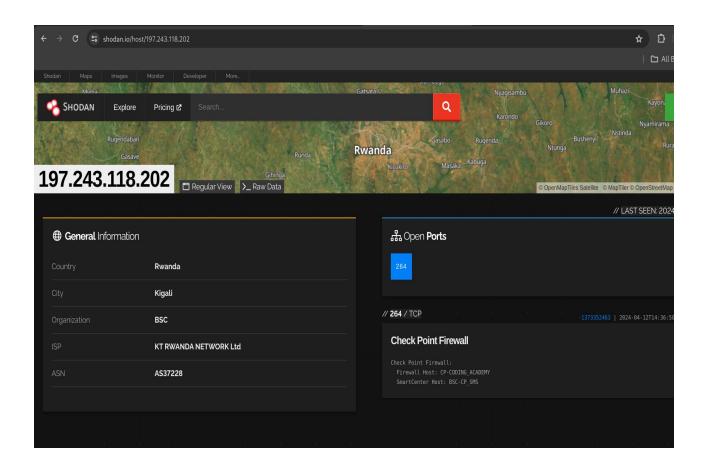


COLLECTING INFORMATION

1. Using Shodan to collect information on my public IP address

The following screenshot indicates the results of searching the devices on my public IP address:

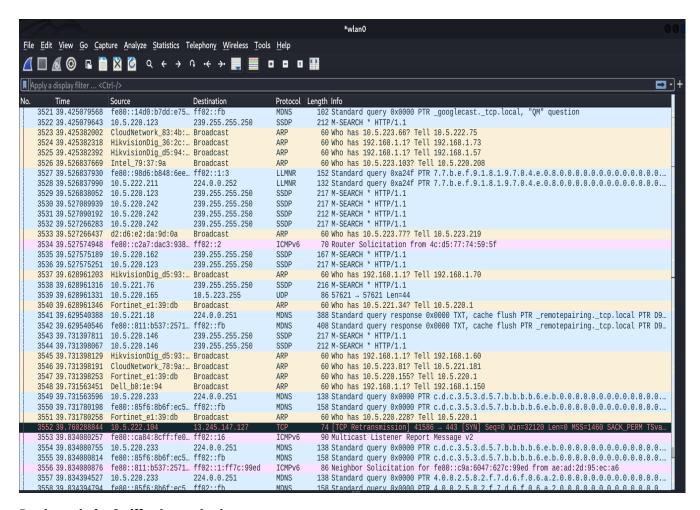
2. The results of checking the registrar of my public IP



```
-(pascal⊕kali)-[~]
$\text{whois 197.243.118.202}
% This is the AfriNIC Whois server.
% The AFRINIC whois database is subject to the following terms of Use. See https://afrinic.net/whois/terms
% Note: this output has been filtered.
        To receive output for a database update, use the "-B" flag.
% Information related to '197.243.118.0 - 197.243.118.255'
% No abuse contact registered for 197.243.118.0 - 197.243.118.255
inetnum:
               197.243.118.0 - 197.243.118.255
netname:
                TechnoLane
               BSC
descr:
country:
               RW
               FN19-AFRINIC
admin-c:
tech-c:
               FN19-AFRINIC
status:
               ASSIGNED PA
               BSC-MNT
mnt-by:
source:
               AFRINIC # Filtered
               197.243.0.0 - 197.243.127.255
parent:
person:
               Faycal Ndangiza
address:
               2F, TelecomHouse, BlvDeL'Umuganda
address:
               Kacyiru-Kigali 7229
address:
               Rwanda
phone:
               tel:+250-788-301-540
nic-hdl:
               FN19-AFRINIC
               GENERATED-GRHVMCBIQP3BSTRG0DKTZPSIFUAHNZO5-MNT
mnt-by:
               AFRINIC # Filtered
source:
% Information related to '197.243.118.0/24AS37619'
route:
               197.243.118.0/24
               BSC-NET-197.243.118.0/24
descr:
origin:
               AS37619
               BSC-MNT
mnt-by:
source:
               AFRINIC # Filtered
```

3. Sniffing network

I sniffed my network by using Wireshark



Protocols in Sniffed packets:

The Simple Service Discovery Protocol (SSDP) is a network protocol designed for advertisement and discovery of network services and presence information. UDP Port 1900 and TCP Port 5000

The Multicast Domain Name System (mDNS) protocol is a service discovery and address resolution mechanism specifically designed for local area networks (LANs). **UDP Port 1900**

The Transmission Control Protocol (TCP) is a fundamental communication protocol that forms the backbone of reliable data transfer on the internet