Unit Name: UNIT RW-University-II

INTRO TO CYBER | PROJECT: NET CRAFTS

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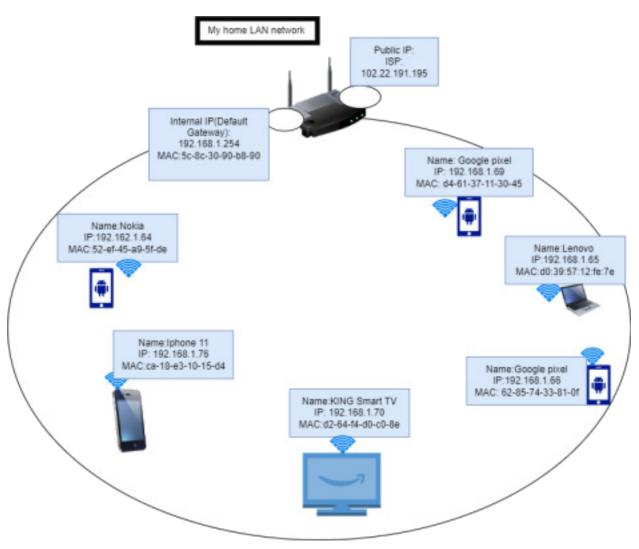
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University of Rwanda(College of science and Technology)

Dept: Information Technology

Academic: Level 3

1. Map the Network



My device IP: Devices IP Address.

All Devices IP Address.

```
Interface: 192.168.56.1 --- 0x10
   Internet Address
                                     Physical Address
                                                                       Type
                                     ff-ff-ff-ff-ff
   192.168.56.255
                                                                       static
   224.0.0.22
                                     01-00-5e-00-00-16
                                                                       static
   224.0.0.251
                                     01-00-5e-00-00-fb
                                                                       static
   224.0.0.252
                                     01-00-5e-00-00-fc
                                                                       static
   239.255.255.250
                                     01-00-5e-7f-ff-fa
                                                                       static
Interface: 192.168.1.65 --- 0x12
   Internet Address
                                     Physical Address
                                                                       Type
                                                                       dynamic
   192.168.1.64
                                     52-ef-45-a9-5f-de
                                     d4-61-37-11-30-45
   192.168.1.69
                                                                       dynamic
                                     d2-64-f4-d0-c0-8e
   192.168.1.70
                                                                       dynamic
   192.168.1.76
                                     ca-18-e3-10-15-d4
                                                                       dynamic
   192.168.1.254
                                     5c-8c-30-90-b8-90
                                                                       dynamic
   192.168.1.255
                                     ff-ff-ff-ff-ff
                                                                       static
   224.0.0.22
                                     01-00-5e-00-00-16
                                                                       static
   224.0.0.251
                                     01-00-5e-00-00-fb
                                                                       static
   224.0.0.252
                                     01-00-5e-00-00-fc
                                                                       static
   239.255.255.250
                                     01-00-5e-7f-ff-fa
                                                                       static
                                     ff-ff-ff-ff-ff
   255.255.255.255
                                                                       static
   Command Frampi
  OMCP Enabled. . . . . . . . . . . . Yes
Autoconfiguration Enabled . . . : Yes
   OHCP Enabled.
Wireless LAN adapter Wi-Fi:
   Connection-specific DNS Suffix
                                 Realtek RTLE8528E WiFi 6 802.11ax PCIe Adapter
D0-39-57-12-FE-7E
   Description
   Physical Address. . . . . . . . .
   Autoconfiguration Enabled
                                 Yes
   IPv6 Address.
                                 2c6f:eb68:621:4a09:b13b:lcaa:llal:3e3(Preferred)
2c0f:eb68:621:4a00:7ld9:c95b:l063:aa0e(Preferred)
fe00::c76f:aa41:7a60:e40f415(Preferred)
   Temporary IPv6 Address.
Link-local IPv6 Address
                                 192.168.1.65(Preferred)
255.255.255.0
   IPv4 Address.
   Subnet Mask .
                                  Saturday, 27 April 2024 09:07:54
Sunday, 28 April 2024 12:32:50
fe00::1%15
   Lease Obtained.
   Default Gateway
                                 192.168.1.254
   DHCP Server
   DHCPv6 IAID
                                 88-81-88-81-2C-0A-51-88-88-88-9A-76-8D
fe88::1%15
   DHCPv6 Client DUID.
   OMS Servers . .
   NetBIOS over Topio. . . . . . .
Ethernet adapter Ethernet:
   Media State .
   Connection-specific DMS Suffix
                                 Realtek PCIe GbE Family Controller
EB-80-88-9A-76-8D
   Description
   Physical Address.
   DHCP Enabled.
                                 Yes
```

Devices MAC Address and Vendor (display partially).

MAC Address	D4:61:37:11:30:45
Vendor	IEEE Registration Authority
Address	445 Hoes Lane Piscataway NJ 08554 US
Block Size	MA-L
Block Range	D4:61:37:00:00:00 - D4:61:37:FF:FF

MAC Address	5C:8C:30:90:B8:90
Vendor	Taicang T&W Electronics
Address	89# Jiang Nan RD Suzhou Jiangsu 215412 CN
Block Size	MA-L
Block Range	5C:8C:30:00:00:00 - 5C:8C:30:FF:FF:FF

MAC Address/OUI	Vendor
52:EF:45:A9:5F:DE	- not found -

MAC Address/OUI	Vendor
CA:18:E3:10:15:D4	- not found -

Lookup MAC addresses

MAC Address/OUI	Vendor
D2:64:F4:D0:C0:8E	- not found -

Lookup MAC addresses

MAC Address/OUI	Vendor
62:85:74:33:81:0F	- not found -

Lookup MAC addresses

MAC Address/OUI	Vendor
D0:39:57:12:FE:7E	Liteon Technology Corporation

DNS and DHCP IP Addresses in your Network.

Internet Service Provider (ISP).

```
C:\textities==>curl ifconfig.co
102.22.173.225
```

IP address	2c0f:eb68:621:4a00:547a:fa21:11f4:9128	
	201.6006.021.4000.5474.1421.1114.9128	
(decimal)	58568690875297234520418743825043067176	
Country	Rwanda	
Country (ISO code)	RW	
In EU?	false	
Region	Kigali	
Region code	01	
City	Kigali	
Latitude	-1.9507	
Longitude	30.0663	
Timezone	Africa/Kigali	
ASN	AS36924	
ASN (organization)	GVA-Canalbox	
User agent	Mozilla/5.0	
User agent: Comment	(Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/124.0.0.0 Safari/537.36	
User agent: Raw	Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/124.0.0.0 Safari/537.36	

Device is Connected via Ethernet or Wireless.

```
      Wireless LAN adapter Wi-Fi:

      Connection-specific DNS Suffix : IPv6 Address . . . . : 2c0f:eb68:621:4a00:b13b:1caa:11a1:3e3

      Temporary IPv6 Address . . . : 2c0f:eb68:621:4a00:6090:8185:b750:e290

      Link-local IPv6 Address . . . : fe80::c76f:aa41:7a60:e48f%15

      IPv4 Address . . . . : 192.168.1.65

      Subnet Mask . . . . . : 255.255.255.0

      Default Gateway . . . . : fe80::1%15

      192.168.1.254
```

2. Collecting Information

Check My Public IP Address.



Check Who is Registered on Your Public IP Address.

NetRange: 102.0.0.0 - 102.255.255.255 CIDR: 102.0.0.0/8 NetName: AFRINIC-102 NetHandle: NET-102-0-0-1 Parent: () NetType: Allocated to AfriNIC OriginAS: Organization: African Network Information Center (AFRINIC) RegDate: 2011-02-10 Updated: 2011-02-10 Comment: This IP address range is under AFRINIC responsibility. Comment: Please see http://www.afrinic.net/ for further details, Comment: or check the WHOIS server located at whois.afrinic.net. Ref: https://rdap.arin.net/registry/ip/102.0.0.0 ResourceLink: http://afrinic.net/en/services/whois-query ResourceLink: whois.afrinic.net OrgName: African Network Information Center OrgId: AFRINIC Address: Level 11ABC Address: Raffles Tower Address: Lot 19, Cybercity City: Ebene StateProv: PostalCode: Country: MU RegDate: 2004-05-17 Updated: 2015-05-04 Comment: AfriNIC - http://www.afrinic.net Comment: The African & Indian Ocean Internet Registry Ref: https://rdap.arin.net/registry/entity/AFRINIC ReferralServer: whois://whois.afrinic.net ResourceLink: http://afrinic.net/en/services/whois-query OrgAbuseHandle: GENER11-ARIN OrgAbuseName: Generic POC OrgAbusePhone: +230 4666616 OrgAbuseEmail: abusepoc@afrinic.net OrgAbuseRef: https://rdap.arin.net/registry/entity/GENER11-ARIN

OrgTechHandle: GENER11-ARIN OrgTechName: Generic POC OrgTechPhone: +230 4666616 OrgTechRef: https://rdap.arin.net/registry/entity/GENER11-ARIN

Sniff Your Network and Identify Three (3) Used Protocols.



Protocols used: ICMP, TCP AND UDP For Each Protocol Explain Its Usage.

ICMP (Internet Control Message Protocol):

ICMP is a protocol used for diagnostic and error messages within IP networks.

TCP (Transmission Control Protocol):

TCP is a connection-oriented protocol that provides reliable and ordered delivery of data packets between devices over a network.

UDP (User Datagram Protocol):

UDP is a connectionless protocol that provides simple and fast transmission of data packets between devices over a network. *For Each Protocol, Find the Used Port Number.*

TCP port number used: 65387



UDP port number used: 63525



ICMPv6 no port numbers specified to this protocol.

