

Unit Name: UNIT RW-University-II

INTRO TO CYBER | PROJECT: NET CRAFTS

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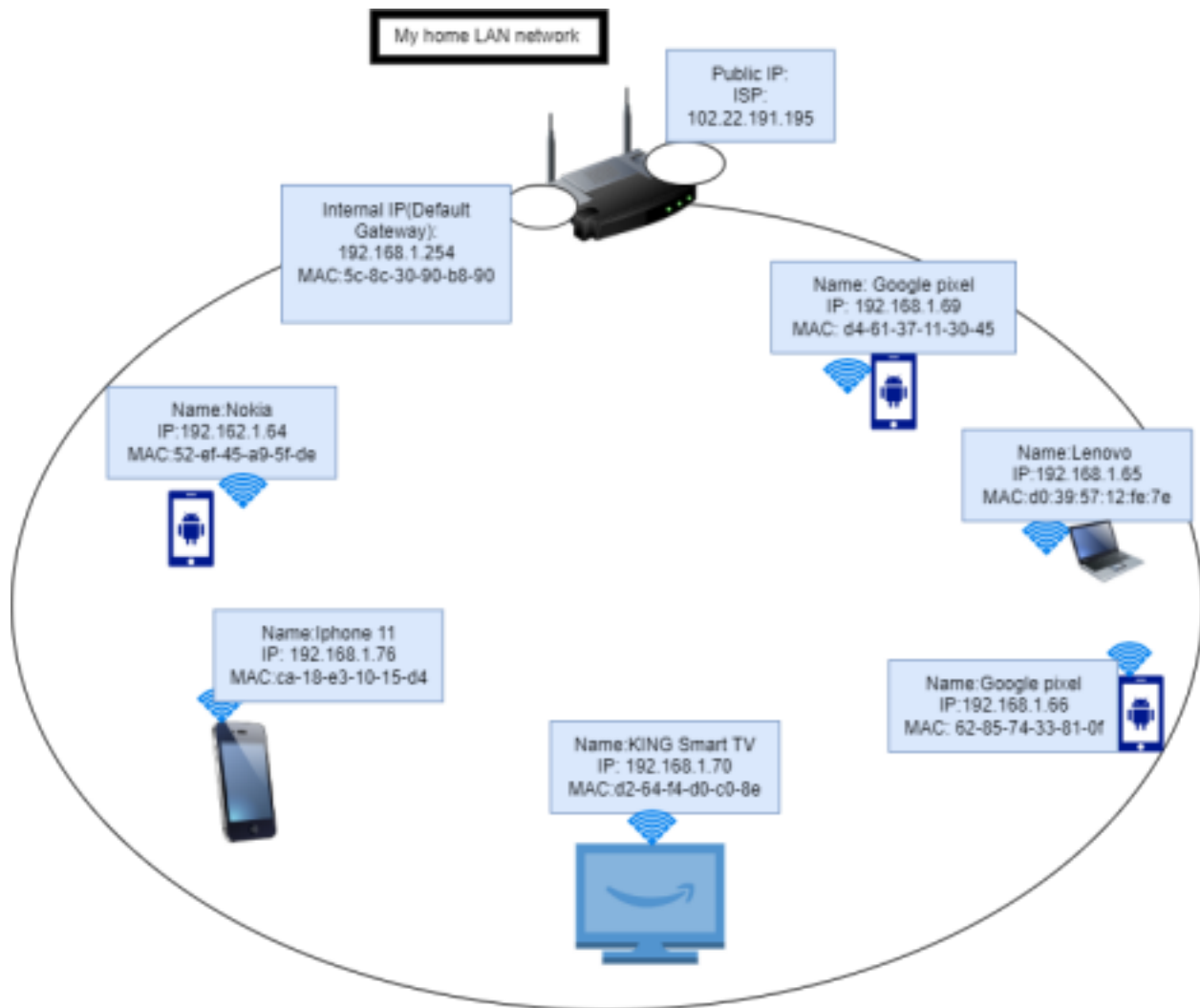
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University of Rwanda(College of science and Technology)

Dept: Information Technology

Academic: Level 3

1. Map the Network



My device IP: Devices IP Address.

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Wireless LAN adapter Local Area Connection* 10:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :
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:b790: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

Ethernet adapter Ethernet:
  
```

All Devices IP Address.

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Interface: 192.168.56.1 --- 0x10
  Internet Address   Physical Address   Type
  192.168.56.255     ff-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

Interface: 192.168.1.65 --- 0x12
  Internet Address   Physical Address   Type
  192.168.1.64       52-ef-45-a9-5f-de   dynamic
  192.168.1.69       d4-61-37-11-30-45   dynamic
  192.168.1.70       d2-64-f4-d0-c0-8e   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-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
  255.255.255.255    ff-ff-ff-ff-ff-ff   static

```

```

Command Prompt
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes

Wireless LAN adapter Wi-Fi:

Connection-specific DNS Suffix . : 
Description . . . . . : Realtek RTL8852BE WiFi 6 802.11ax PCIe Adapter
Physical Address. . . . . : D8-39-57-12-PE-7E
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes
IPv6 Address. . . . . : 2c0f:eb68:621:4a00:b13b:1caa:11a1:3e3(Preferred)
Temporary IPv6 Address. . . . . : 2c0f:eb68:621:4a00:71d9:c95b:1061:aa8e(Preferred)
Link-local IPv6 Address . . . . . : fe80::c78f:aa41:7a60:e48f%15(Preferred)
IPv4 Address. . . . . : 192.168.1.65(Preferred)
Subnet Mask . . . . . : 255.255.255.0
Lease Obtained. . . . . : Saturday, 27 April 2024 09:07:54
Lease Expires . . . . . : Sunday, 28 April 2024 12:32:50
Default Gateway . . . . . : fe80::1%15
                          192.168.1.254
DHCP Server . . . . . : 192.168.1.254
DHCPv6 IAID . . . . . : 248527191
DHCPv6 Client DUID. . . . . : 00-01-00-01-2C-0A-51-00-E8-80-9A-76-8D
DNS Servers . . . . . : fe80::1%15
                          192.168.1.254
NetBIOS over Tcpip. . . . . : Enabled

Ethernet adapter Ethernet:

Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . : 
Description . . . . . : Realtek PCIe GbE Family Controller
Physical Address. . . . . : E8-80-80-9A-76-8D
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: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.

```
DHCP Server . . . . . : 192.168.1.254
DHCPv6 IAID . . . . . : 248527191
DHCPv6 Client DUID. . . . . : 00-01-00-01-2C-DA-51-00-E8-80-88-9A-76-8D
DNS Servers . . . . . : fe80::1%15
                        192.168.1.254
NetBIOS over Tcpip. . . . . : Enabled
```

Internet Service Provider (ISP).

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

IP address	2c0f:eb68:621:4a00:547a:fa21:11f4:9128
IP address (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-102-0-0-0-1

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](http://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

OrgTechEmail: abusepoc@aftrinic.net

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.

