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INTERNSHIP PROJECT ANSWER (NETWORKING)

## Cisco Virtual Internship Program 2023

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### VIP2023 - Industry Problem Statement

#### Networking

Problem Statement:

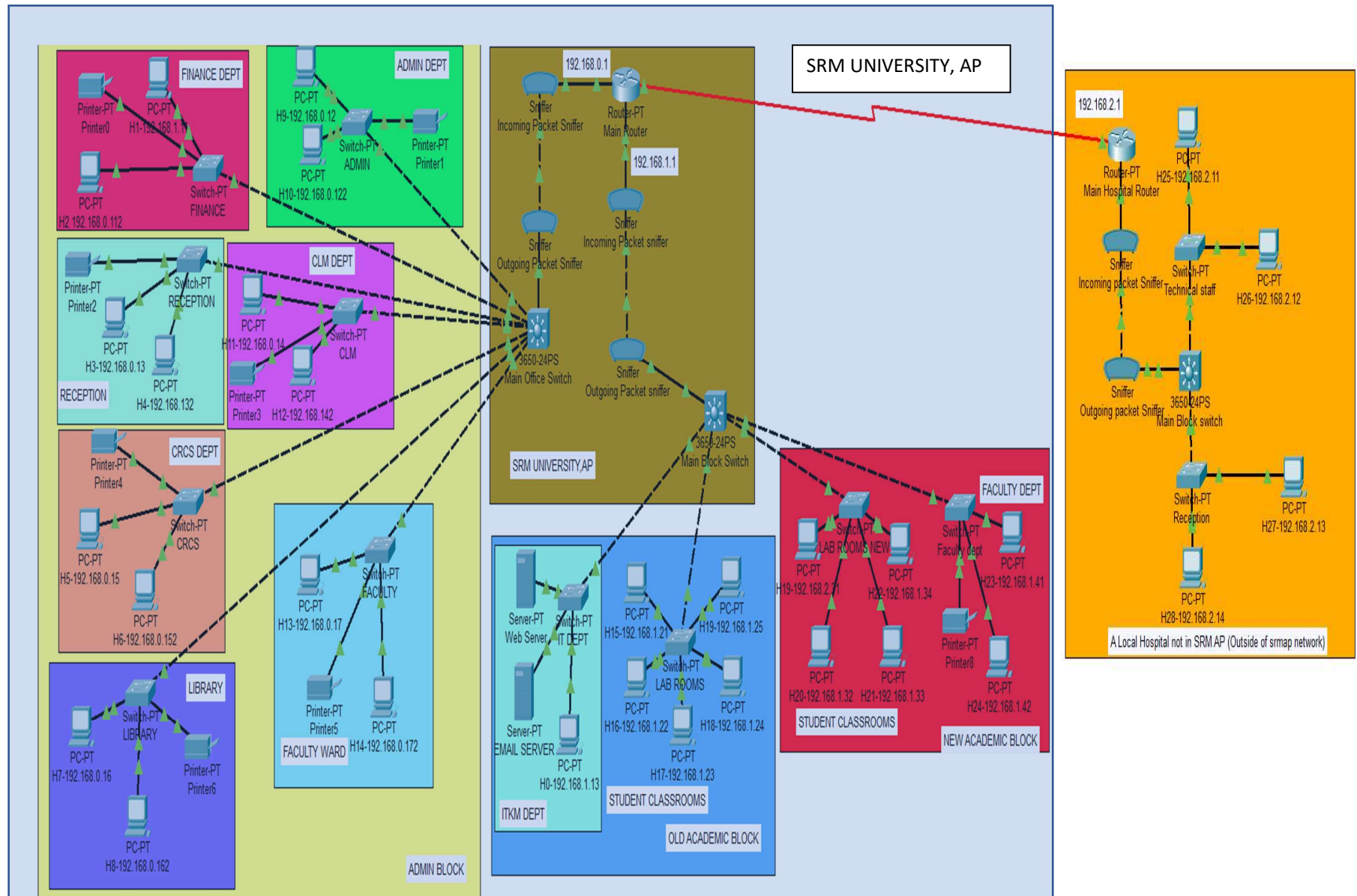
***Packet Flow Visualizer.***

The main objective of this project is to create a visual representation of the packet flow from students' laptops/desktops (hosts) to external networks outside of the college campus.

Answer]

Packet tracer link - <https://github.com/MdSaifurRahman/Cisco-Internship-Project.git>

# CAMPUS NETWORK TOPOLOGY



PINGING H10 OF HOSPITAL NETWORK FROM H27 OF SRM AP NETWORK

```
Pinging 192.168.2.13 with 32 bytes of data:

Request timed out.
Reply from 192.168.2.13: bytes=32 time=22ms TTL=126
Reply from 192.168.2.13: bytes=32 time=23ms TTL=126
Reply from 192.168.2.13: bytes=32 time=22ms TTL=126

Ping statistics for 192.168.2.13:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 22ms, Maximum = 23ms, Average = 22ms
```

OUTGOING PACKETS (ICMP) AT GATEWAY-192.168.0.1

SOURCE MAC ADDRESS	DESTINATION MAC ADDRESS
0090.2B91.DA41	0050.0F99.4263
0090.2B91.DA41	0050.0F99.4263
0090.2B91.DA41	0050.0F99.4263
0090.2B91.DA41	0050.0F99.4263

# INCOMING PACKETS (ICMP) AT GATEWAY-192.168.0.1

SOURCE MAC ADDRESS	DESTINATION MAC ADDRESS
0050.0F99.4263	0090.2B91.DA41
0050.0F99.4263	0090.2B91.DA41
0050.0F99.4263	0090.2B91.DA41
0050.0F99.4263	0090.2B91.DA41

# INCOMING PACKETS (ICMP) AT GATEWAY-192.168.2.1

SOURCE MAC ADDRESS	DESTINATION MAC ADDRESS
0090.2B9D.6862	0002.1793.17E8
0090.2B9D.6862	0002.1793.17E8
0090.2B9D.6862	0002.1793.17E8
0090.2B9D.6862	0002.1793.17E8

# OUTGOING PACKETS (ICMP) AT GATEWAY-192.168.2.1

SOURCE MAC ADDRESS	DESTINATION MAC ADDRESS
0002.1793.17E8	0090.2B9D.6862
0002.1793.17E8	0090.2B9D.6862
0002.1793.17E8	0090.2B9D.6862
0002.1793.17E8	0090.2B9D.6862

## FLOWCHART

