

Lab 5: Cybersecurity

Hardware

SEL-3622(NSG)

SEL-2730M

SEL-3530(RTAC)

Unmanaged network switch/hub

Multiple SEL IEDs

Used:

SEL-421

SEL-734

SEL-751 x2

AMPS PC

Raspberry Pi(RPi)

Insert Kali SD card into RPi C from
previous labs and use same setup.

Software

AcSELERator QuickSet.

AcSELERator RTAC

Kali Linux

Or install:

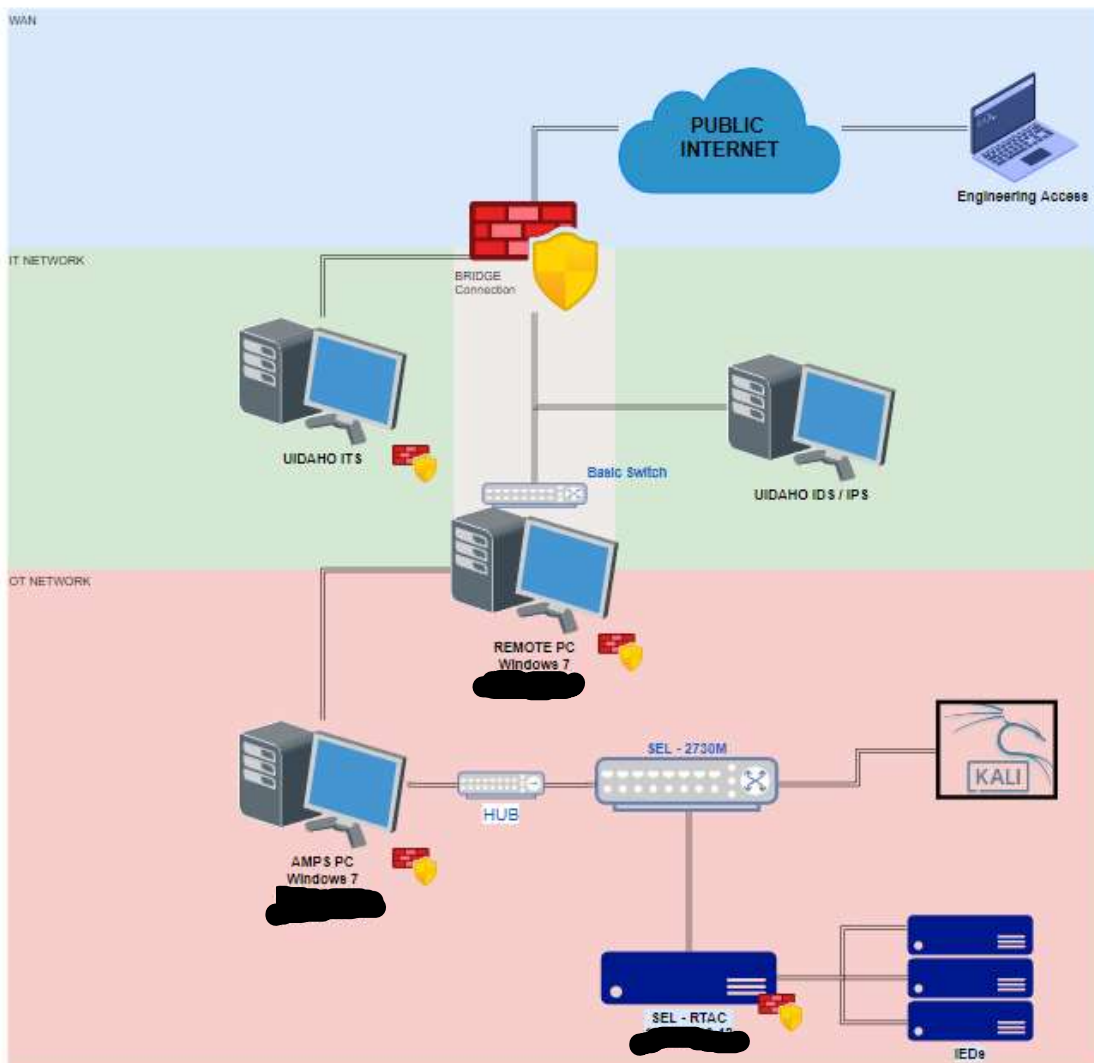
Netdiscover

Nmap

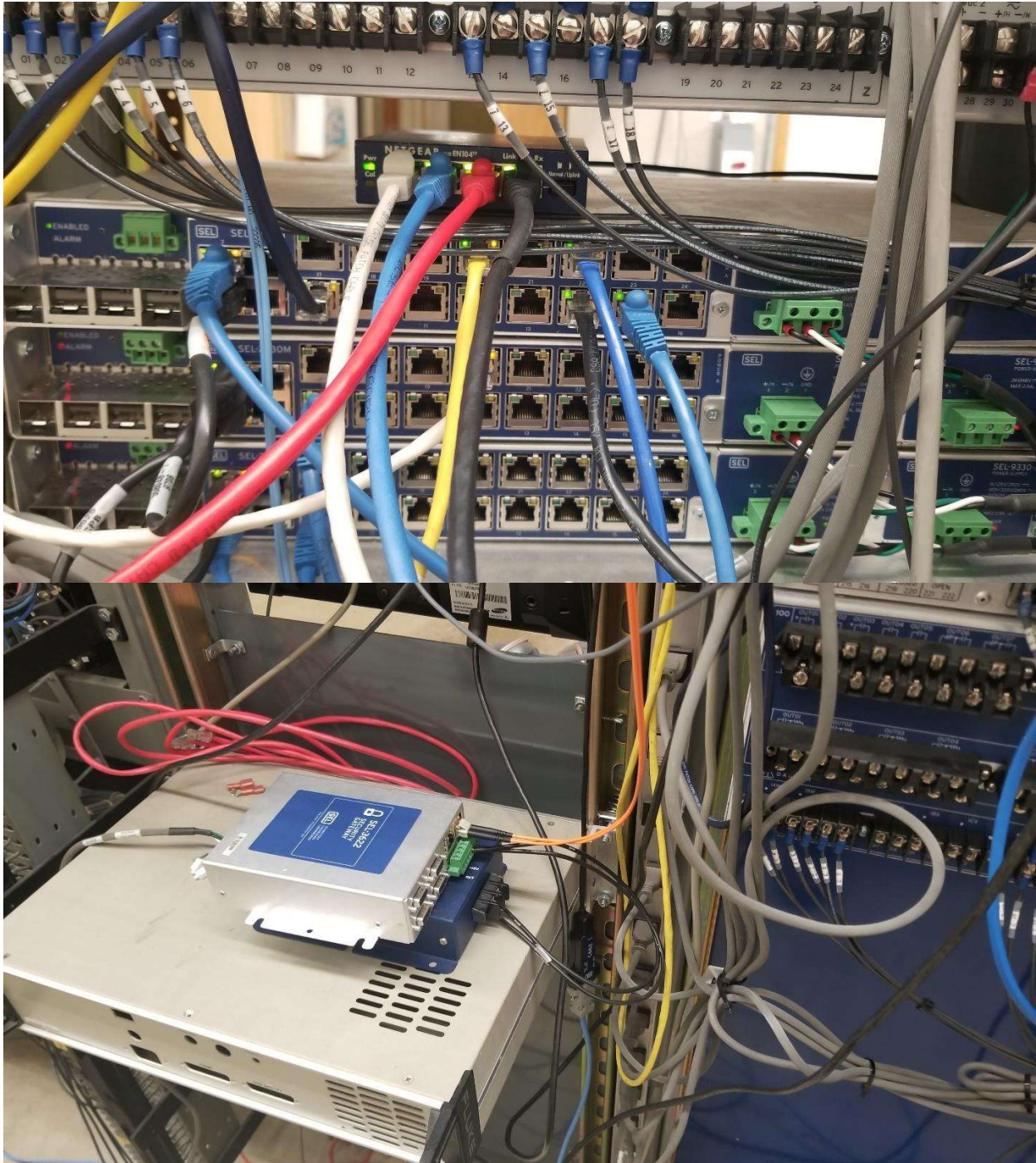
Wireshark

Connect devices in topology shown below taking note of media connection type:

Students/TA are expected to swap connections from unsecured to secured topology by removing RTAC RJ45(ethernet) cable and connecting 2730M and NSG.



22/11



*****Configure Port 12 on 2730M #3 to mirror traffic from Fiber optic connection.

I. Cleanup/Takedown

SEL - 3622

1. Go to the SEL-3622 web server.
2. Click on System > Device Reset.
3. Click Reset.
 - A factory reset could take anywhere from 1-10 minutes.

SEL – 2730M

1. Switch Management > VLAN Settings
 - a. Delete newly created VLAN connections
2. Switch Management > Mac Settings
 - a. Disable enabled ports and delete remembered connections
3. System > Global Settings
 - a. Disable VLAN -aware

OR

SEL – 2730M

1. System > Device Reset

IMPORTANT NOTES

Not sure if needed. Access to the device to configure port 2 ip address has to be done using password jumper because ip is already being used for eth F. Switching eth F ip will just disconnect from SEL device and cant reconnect even after changing AMPS PC ip address to similar gateway/subnet.

Ex: Set ethernet F to [REDACTED]
Change AMPS PC ethernet port from [REDACTED] to [REDACTED]
Try connecting to [REDACTED] doesn't work
Password jump needed

Connect jumper across JMP6 C inside [REDACTED] (Password Jumper)

***Make sure device is shutoff when moving jumper

Set AMPS to [REDACTED]

Login to [REDACTED]

Username [REDACTED]

1. Connect using Port on the PC that has IPv4 address of [REDACTED] and the subnet mask to [REDACTED].
 - Use black cable as F port connector which is connected to hub
2. Go to [REDACTED] using a web browser of any kind.
 - a. Commission the device with the following information. Leave the other fields blank.

Username	[REDACTED]
Password	[REDACTED]
Hostname	[REDACTED]
Default Ethernet Port	[REDACTED]

- b. Submit