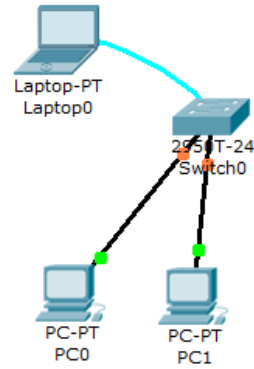
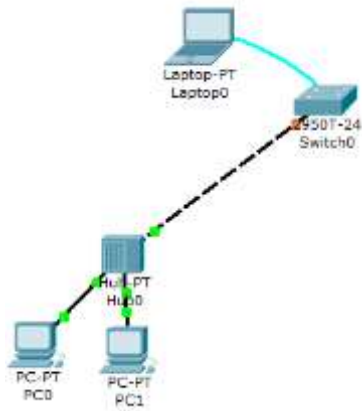


Practical Applications in Networks I Lab 03 (based on Lec 04, 05)

3.1 Default security



```

en
config t
interface vlan 1
ip address 192.168.1.1 255.255.255.0
no sh
interface fa0/1
switchport mode access
switchport port-security
end
copy running-config startup-config

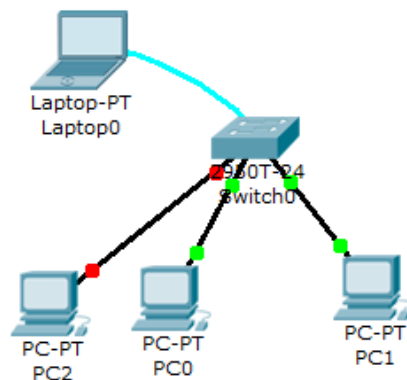
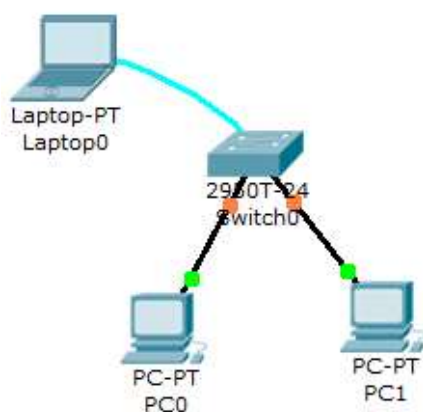
show port-security
show interface fa0/1
show mac-address-table
show port-security interface fa0/1

config t
interface fa0/1
sh
no switchport port-security
no sh
copy running-config startup-config

show port-security
show interface fa0/1
show mac-address-table
show port-security interface fa0/1
*****

```

3.2 static mac address



```

en
config t
interface vlan 1
ip address 192.168.1.1 255.255.255.0
no sh
interface fa0/1
sh
no sh
end

```

```

show mac-address-table
show port-security address

```

```

config t
interface f0/1
sh
switchport port-security mac-address 0090.219A.A9C1
no sh
end

```

```

show mac-address-table
show port-security address
show port-security interface fa0/1

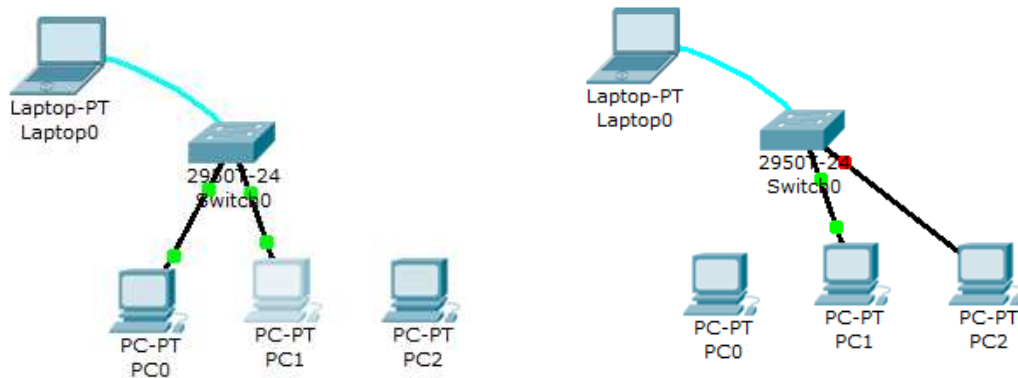
```

```

config t
interface fa0/1
sh
no switchport port-security mac-address 0090.219A.A9C1
no switchport port-security
no sh
end

```

3.3 sticky MAC address



```

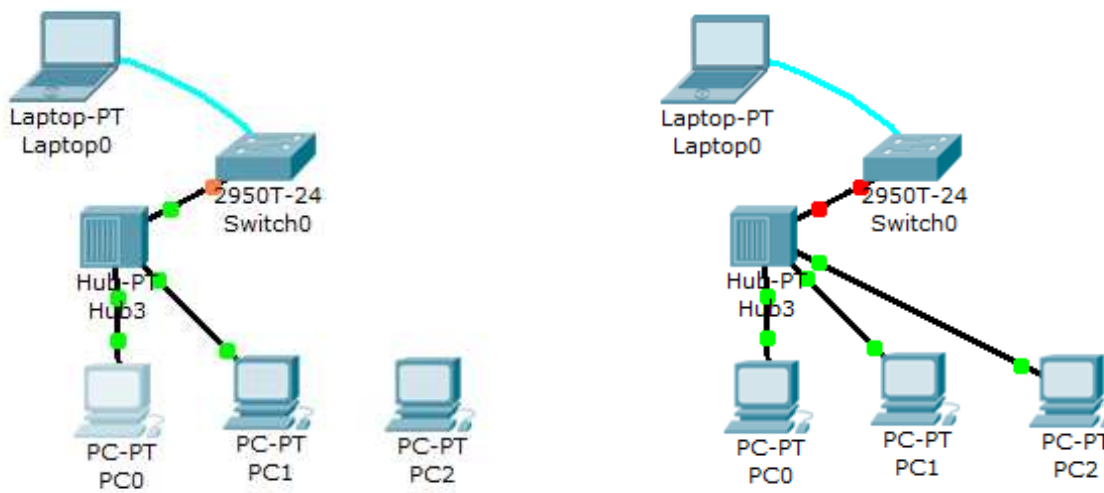
en
config t
interface vlan 1
ip address 192.168.1.1 255.255.255.0
no sh
interface fa0/1
sh
no sh
end
do show mac-address-table
so show port-security address
config t
interface fa0/1
switchport port-security ?
sh
switchport port-security
switchport port-security mac-address sticky
no sh
end

show mac-address-table
show port-security address
show port-security interface fa0/1

en
config t
sh
no switchport port-security mac-address sticky
no switchport port-security
no sh
end

```

3.4 max connected MACs



```

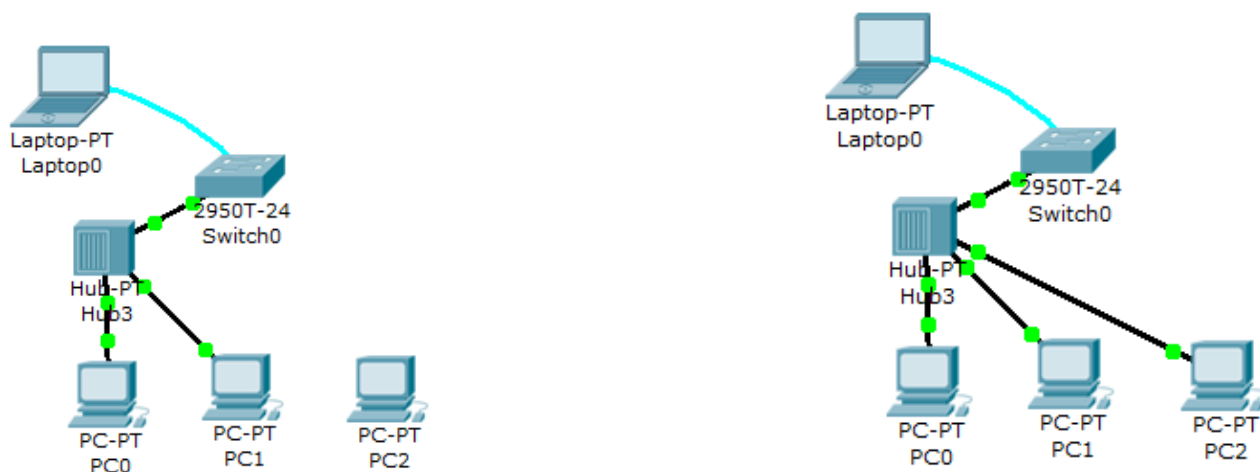
en
config t
interface vlan 1
ip address 192.168.1.1 255.255.255.0
no sh
interface fa0/1
sh
no sh
end
config t
interface fa0/1
sh
switchport port-security
switchport port-security max 2
no sh
end

show mac-address-table
show port-security
show port-security interface fa0/1

config t
interface fa0/1
sh
no switchport port-security max 2
no switchport port-security
no sh
end

```

3.5 violation protect



```

en
config t
interface vlan 1
ip address 192.168.1.1 255.255.255.0
no sh
interface fa0/1
sh
no sh
end

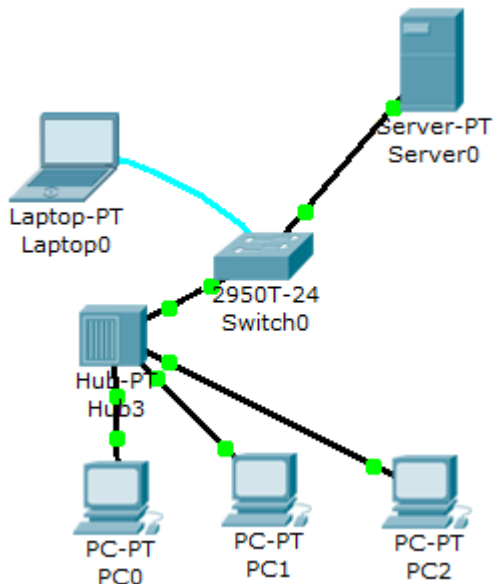
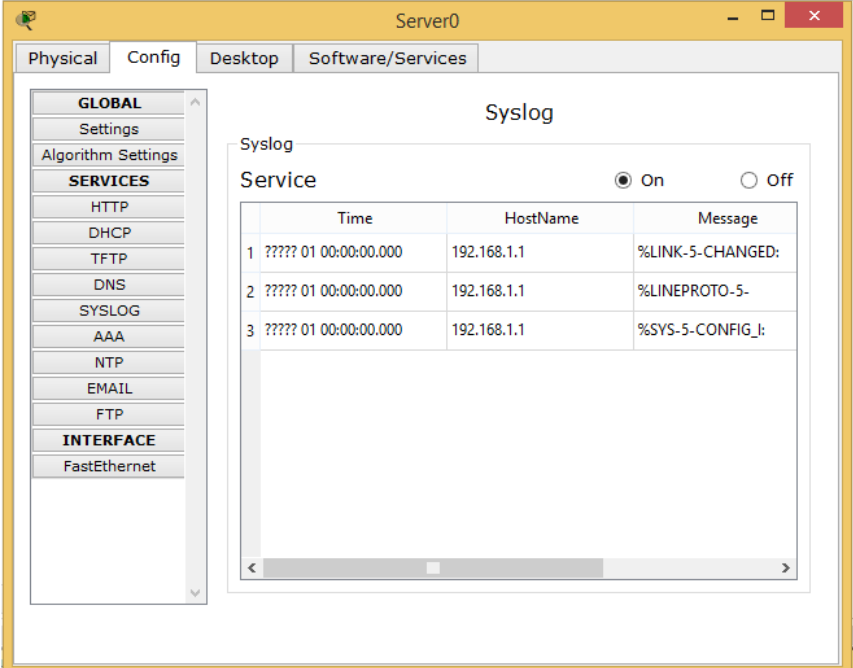
config t
interafce fa0/1
sh
no sh
end

config t
interface fa0/1
sh
switchport port-security
switchport port-security Violation protect
no sh
end

show mac-address-table
show port-security
show port-security interface fa0/1

```

3.6 violation restrict

The screenshot shows the configuration window for Server0, specifically the Syslog service configuration. The service is set to 'On'. The Syslog table displays the following entries:

Time	HostName	Message
1 ????? 01 00:00:00.000	192.168.1.1	%LINK-5-CHANGED:
2 ????? 01 00:00:00.000	192.168.1.1	%LINEPROTO-5-
3 ????? 01 00:00:00.000	192.168.1.1	%SYS-5-CONFIG_I:

```

en
config t
interface vlan 1
ip address 192.168.1.1 255.255.255.0
no sh
interface fa0/1
sh
no sh
end

show mac-address-table
show port-security
show port-security interface fa0/1

config t
interface fa0/1
sh
switchport port-security
switchport port-security Violation restrict
no sh
end

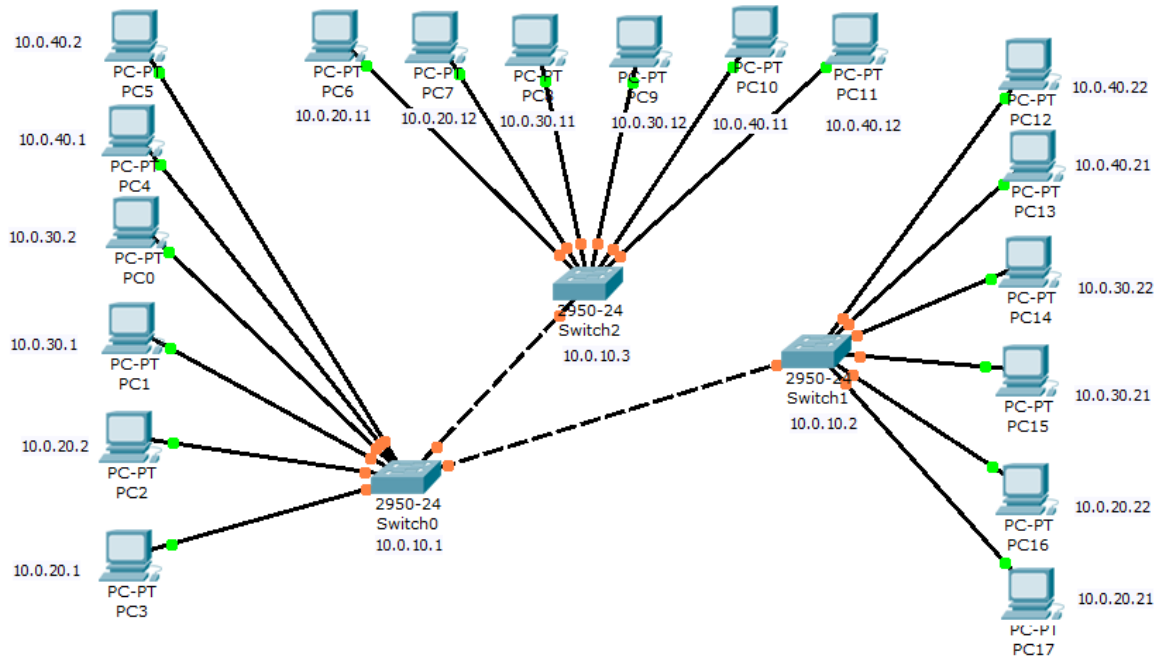
config t
logging on
logging host 192.168.1.2
end
  
```



```
show mac-address-table
show port-security
show port-security interface fa0/1

config t
interface fa0/1
sh
no switchport port-security Violation restrict
no switchport port-security
no sh
end
```


3.7



part 01

SW00

enabl

config t

hostname FL00-R01-SW01

banner motd #FL00-R01-SW01 - 10.0.10.1#

line vty 0 4

password cisco

login

line console 0

password cisco

login

enable password cisco

enable secret cisco1

vtp domain ACU

vtp mode server

interface vlan 1

ip address 10.0.10.1 255.255.255.0

```
no shutdown

vlan 2
name Finance

vlan 3
name HR

vlan 4
name Administration

interface range fa0/1-24
speed auto
duplex auto

interface range fa0/1-7
switchport mode access
switchport access vlan 2

interface range fa0/8-14
switchport mode access
switchport access vlan 3

interface range fa0/15-21
switchport mode access
switchport access vlan 4

interface range fa0/22-24
switchport mode trunk

end

copy running-config startup-config
*****
SW02
****
enabl
config t
hostname FL01-R01-SW02
banner motd #FL01-R01-SW02 - 10.0.10.2#

line vty 0 4
password cisco
login

line console 0
```

```
password cisco
login

enable password cisco

enable secret cisco1

vtp domain ACU
vtp mode client

interface vlan 1
ip address 10.0.10.2 255.255.255.0
no shutdown

interface range fa0/1-24
speed auto
duplex auto

interface range fa0/1-7
switchport mode access
switchport access vlan 2

interface range fa0/8-14
switchport mode access
switchport access vlan 3

interface range fa0/15-21
switchport mode access
switchport access vlan 4

interface range fa0/22-24
switchport mode trunk

end

copy running-config startup-config
*****
SW03
****
enabl
config t
hostname FL01-R03-SW03
banner motd #FL01-R03-SW03 - 10.0.10.3#

line vty 0 4
```

```
password cisco
login

line console 0
password cisco
login

enable password cisco

enable secret cisco1

vtp domain ACU
vtp mode client

interface vlan 1
ip address 10.0.10.3 255.255.255.0
no shutdown

interface range fa0/1-24
speed auto
duplex auto

interface range fa0/1-7
switchport mode access
switchport access vlan 2

interface range fa0/8-14
switchport mode access
switchport access vlan 3

interface range fa0/15-21
switchport mode access
switchport access vlan 4

interface range fa0/22-24
switchport mode trunk

end

copy running-config startup-config
*****
*****
*****
```