ID: 232-35-076
Section: E2

2911
Router3

Finance Gateway: 138.120.1.10

IT Gateway: 139.120.2.10

HR Gateway: 137.120.0.10

2960-24TT
Switch0

2960-24TT
Switch1

2960-24TT
Switch2

PC-PT
PC0

PC-PT
PC1

Server-PT
Server1

Server-PT
Server2

PC-PT
PC2

PC-PT
PC3

Server-PT
Server3

Server-PT
Server4

PC-PT
PC5

PC-PT
PC4

Server-PT
Server5

Server-PT
Server6

PC0

IP Configuration X

IP Configuration

○ DHCP   ● Static

IP Address	137.120.0.1
Subnet Mask	255.255.0.0
Default Gateway	137.120.0.10
DNS Server	

IPv6 Configuration

○ DHCP   ○ Auto Config   ● Static

IPv6 Address	/
Link Local Address	FE80::201:96FF:FE33:C012
IPv6 Gateway	
IPv6 DNS Server	

Web Browser

Cisco IP Communicator

Server6

Physical | Config | Desktop | Custom Interface

IP Configuration

Interface: FastEthernet0

IP Configuration

○ DHCP ● Static

IP Address: 139.120.2.4

Subnet Mask: 255.255.0.0

Default Gateway: 139.120.2.10

DNS Server:

IPv6 Configuration

○ DHCP ○ Auto Config ● Static

IPv6 Address: /

Link Local Address: FE80::201:C9FF:FE90:BD9

IPv6 Gateway:

IPv6 DNS Server:

Web Browser

http:

Router3

Physical | **Config** | **CLI**

GLOBAL
- Settings
- Algorithm Settings

ROUTING
- Static
- RIP

SWITCHING
- VLAN Database

INTERFACE
- GigabitEthernet0/0
- GigabitEthernet0/1
- GigabitEthernet0/2

GigabitEthernet0/1

Port Status	☑ On

Bandwidth ☑ Auto
- ○ 10 Mbps
- ○ 100 Mbps
- ◉ 1000 Mbps

Duplex ☑ Auto
- ◉ Full Duplex
- ○ Half Duplex

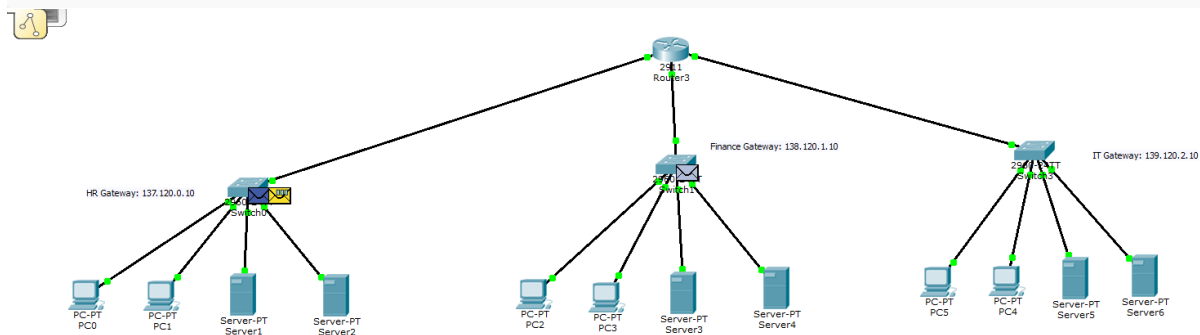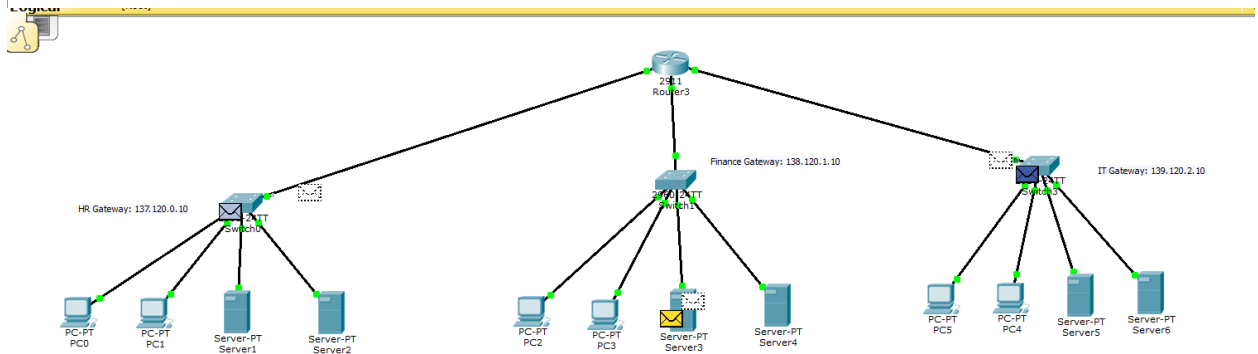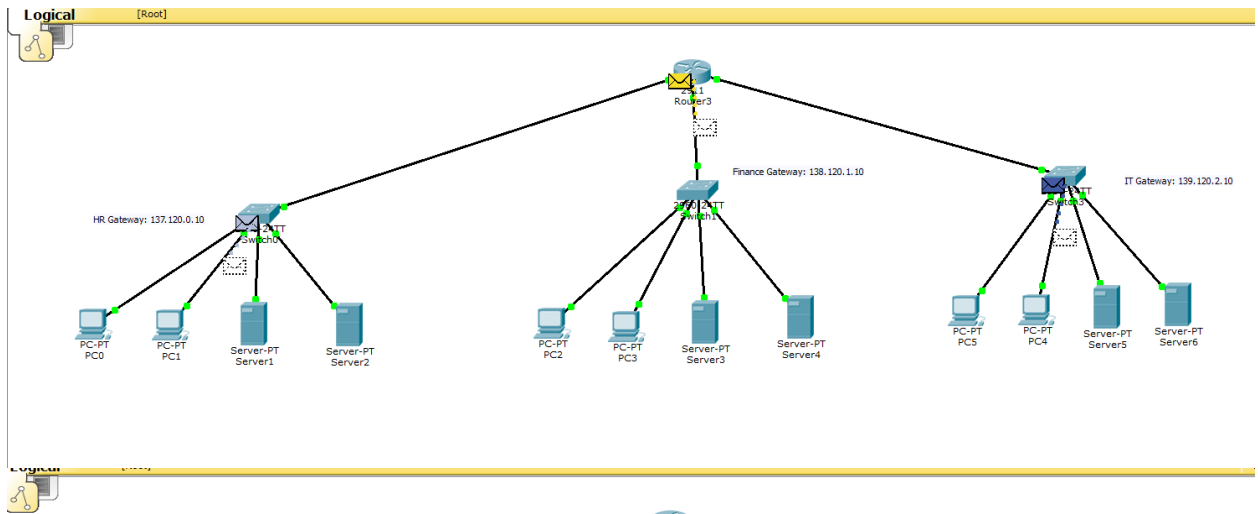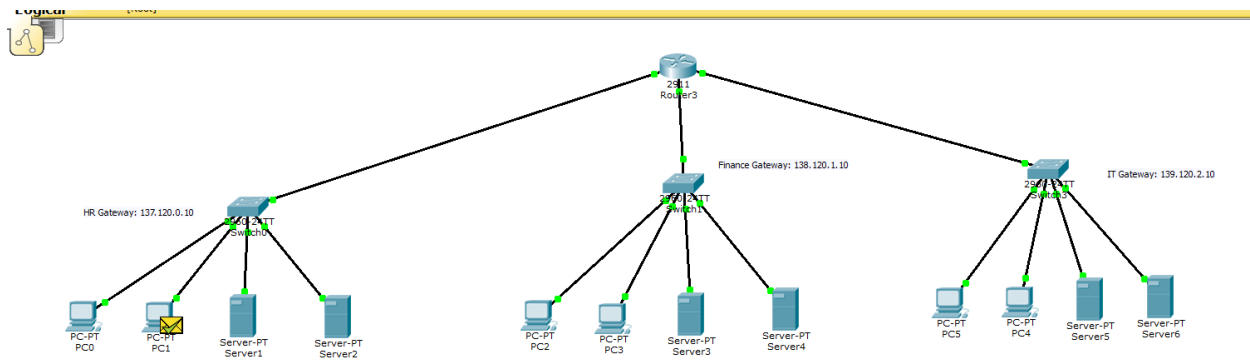| MAC Address	0001.C774.0302
IP Address	138.120.1.10
Subnet Mask	255.255.0.0
Tx Ring Limit	10

Equivalent IOS Commands

```
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/2
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/1
Router(config-if)#
```


Network topology: 2911 Router3 connected to three switches — HR Gateway: 137.120.0.10 (Switch0 with PC0, PC1, Server1, Server2), Finance Gateway: 138.120.1.10 (Switch1 with PC2, PC3, Server3, Server4), IT Gateway: 139.120.2.10 (Switch2 with PC5, PC4, Server5, Server6).

HR Gateway: 137.120.0.10
Finance Gateway: 138.120.1.10
IT Gateway: 139.120.2.10

2911
Router3

2960-12TT
Switch0

2960-12TT
Switch1

Switch3

PC-PT
PC0

PC-PT
PC1

Server-PT
Server1

Server-PT
Server2

PC-PT
PC2

PC-PT
PC3

Server-PT
Server3

Server-PT
Server4

PC-PT
PC5

PC-PT
PC4

Server-PT
Server5

Server-PT
Server6

HR Gateway: 137.120.0.10
Finance Gateway: 138.120.1.10
IT Gateway: 139.120.2.10

2911
Router3

2960-12TT
Switch0

2960-12TT
Switch1

Switch3

PC-PT
PC0

PC-PT
PC1

Server-PT
Server1

Server-PT
Server2

PC-PT
PC2

PC-PT
PC3

Server-PT
Server3

Server-PT
Server4

PC-PT
PC5

PC-PT
PC4

Server-PT
Server5

Server-PT
Server6

HR Gateway: 137.120.0.10

Finance Gateway: 138.120.1.10

IT Gateway: 139.120.2.10

2911
Router3

2960-24TT
Switch0

2960-24TT
Switch1

2960-24TT
Switch2

PC-PT
PC0

PC-PT
PC1

Server-PT
Server1

Server-PT
Server2

PC-PT
PC2

PC-PT
PC3

Server-PT
Server3

Server-PT
Server4

PC-PT
PC5

PC-PT
PC4

Server-PT
Server5

Server-PT
Server6

Server6   —   □   ✕

Physical   Config   Desktop   Custom Interface

Command Prompt   X

```
Packet Tracer SERVER Command Line 1.0
SERVER>ping 127.120.0.1

Pinging 127.120.0.1 with 32 bytes of data:

Reply from 127.120.0.1: bytes=32 time=7ms TTL=128
Reply from 127.120.0.1: bytes=32 time=5ms TTL=128
Reply from 127.120.0.1: bytes=32 time=3ms TTL=128
Reply from 127.120.0.1: bytes=32 time=0ms TTL=128

Ping statistics for 127.120.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 7ms, Average = 3ms

SERVER>|
```

Fire	Last Status	Source	Destination	Type	Color	Time (sec)	Periodic	Num	Edit	Delete
🔴	Successful	PC0	PC5	ICMP	🟪	0.000	N	0	(edit)	(delete)
🔴	Successful	Server2	Server4	ICMP	🟩	0.000	N	1	(edit)	(delete)
🔴	Successful	Server6	PC2	ICMP	🟦	0.000	N	2	(edit)	(delete)