**B** 00:15:F9:2E:A5:40

**C** 00:13:19:F7:1A:80

**D** 00:13:19:E1:F2:00

**E** 00:13:19:E2:3B:C0

**F** 00:15:F9:2E:98:00

B

C

E

F

D

**192.168.10.0/24**

**CON**

**Fa0/1**

I

**Fa0/0**

**192.168.1.0/24**

**Fa0/0**

**192.168.50.0/24**

**192.168.20.0/24**

**CON**

**Fa0/1**

**Fa0/0**

N

J

**CON**

**Fa0/1**

**Fa0/0**

**Fa0/0**

M

L

**CON**

**CON**

**Fa0/1**

**Fa0/1**

**192.168.40.0/24**

**192.168.30.0/24**

I

J

L

M

N

**CON**

**CON**

**CON**

**CON**

**CON**

**192.168.12.0/30**

**192.168.23.0/30**

**192.168.45.0/30**

**192.168.34.0/30**

**192.168.15.0/30**

**192.168.1.10**

**192.168.10.0/24**

**VLAN 1**

**VLAN 10**

**192.168.50.0/24**

B

**VLAN 10**

**CON**

I

**192.168.1.20**

B

**VLAN 50**

**VLAN 1**

**VLAN 50**

**CON**

**192.168.1.50**

**VLAN 1**

**CON**

N

J

B

**VLAN 20**

**VLAN 20**

**192.168.20.0/24**

M

L

B

**VLAN 40**

**VLAN 40**

**CON**

**CON**

**VLAN 1**

**VLAN 1**

**192.168.40.0/24**

B

**VLAN 30**

**192.168.1.30**

**VLAN 30**

**192.168.1.40**

**192.168.30.0/24**

B

Internal

External

*Outside*

*Inside*

204.69.100+X.1

192.168.1.1

192.168.1.2

192.168.1.3

204.69.100+X.2

PC2 Intern

PC3 Intern

PC1 Extern

Firewall

Switch

*Fa0/0*

Subnet:

Subnet:

IP:

Port:

IP:

Port:

Subnet:

IP:

Port:

Router:

IP:

IP:

Port:

Firewall:

Port:

Switch:

VLAN:

Port:

VLAN:

Port:

VLAN:

IP:

IP LAN:

IP WLAN:

IP:

AP:

*Fa0/0*

Subnet:

Subnet:

IP:

Port:

IP:

Port:

Subnet:

IP:

Port:

Router:

IP:

IP:

Port:

Firewall:

Port:

Switch:

VLAN:

Port:

VLAN:

Port:

VLAN:

IP LAN:

IP WLAN:

IP:

AP:

IP:

Group:

Students:

Firewall:

Group:

Students:

Security policy:

NAT rules:

Internet

192.168.1.0/24

**Company A**

**Company B**

172.29.11.1 – 16

201.69.50.0/24

201.69.15.0/30

201.69.10.0/24

172.29.51.1 – 16

192.168.1.10/24

*Fa0/0*

*Fa0/1*

*Fa0/0*

192.168.1.50/24

VLAN 1

N

I

172.29.21.1 – 16

172.29.10.0/23

VLAN 10

201.69.12.0/30

201.69.20.0/24

VLAN 50

VLAN 1

172.29.50.0/23

VLAN 50

192.168.1.20/24

VLAN 1

VLAN 20

VLAN 10

B

201.69.45.0/30

*Fa0/0*

C

VLAN 20

VLAN 30

J

VLAN 40

VLAN 1

VLAN 40

VLAN 1

172.29.20.0/23

VLAN 30

201.69.40.0/24

201.69.23.0/30

201.69.30.0/24

172.29.31.1 – 16

192.168.1.30/24

*Fa0/0*

*Fa0/0*

172.29.41.1 – 16

192.168.1.40/24

M

L

172.29.30.0/23

201.69.34.0/30

172.29.40.0/23

Y

X

201.69.XY.0/30

201.69.XY.1/30

201.69.XY.2/30

Y

X

201.69.YX.0/30

201.69.YX.2/30

201.69.YX.1/30

X < Y

X > Y

Linux

Windows

Cross-over cable

192.168.1.1**X**1/24

192.168.1.1**X**2/24

1

2

Patch cable

192.168.1.1**X**3/24

192.168.1.1**X**2/24

2

192.168.1.1**X**4/24

1

3

*Fa0/0*

Subnet:

Subnet:

IP:

Port:

IP:

Port:

Subnet:

Router:

IP:

Switch:

IP:

Group:

Students:

Router:

Router:

VLAN:

Port:

IP:

VLAN:

Port:

VLAN:

Port:

Subnet:

Subnet:

DCE:

DTE:

DCE:

DTE: