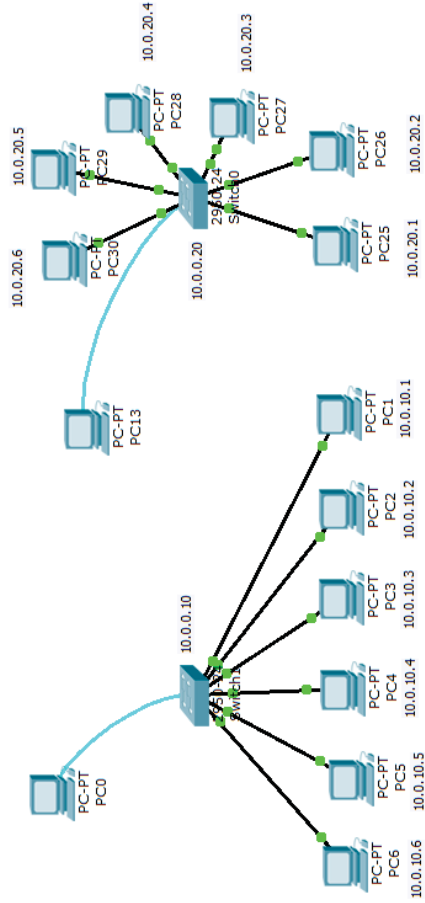


# Lecture (03)

## Connect multiple Switches

Dr. Ahmed M. ElShafee

## Topology



# 3.1

PC2 5		PC2 6		PC2 7		PC2 8	
item	Configuration	item	Configuration	item	Configuration	item	Configuration
Gateway	auto	Gateway	auto	Gateway	auto	Gateway	auto
DNS	auto	DNS	auto	DNS	auto	DNS	auto
Port status	On	Port status	On	Port status	On	Port status	On
Band width	100	Band width	100	Band width	100	Band width	100
Duplex	Full	Duplex	Full	Duplex	Full	Duplex	Full
IP	10.0.20.1	IP	10.0.20.2	IP	10.0.20.3	IP	10.0.20.4
Mask	255.255.0.0	Mask	255.255.0.0	Mask	255.255.0.0	Mask	255.255.0.0

item	Configuration	item	Configuration
<b>PC2</b> <b>9</b>	Gateway	auto	auto
	DNS	auto	auto
	Port status	On	On
	Band width	100	100
	Duplex	Full	Full
	IP	10.0.20.5	10.0.20.6
Mask	255.255.0.0	Mask	255.255.0.0

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## Show MAC address table information

```
SW-FL01-R02#show mac-address-table
Mac Address Table
-----
Vlan  Mac Address      Type      Ports
----  -
SW-FL01-R02#
SW-FL01-R02#ping 10.0.20.6
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.0.20.6, timeout is 2 seconds:
!!!!
Success rate is 80 percent (4/5), round-trip min/avg/max = 3/4/5 ms
SW-FL01-R02#show mac-address-table
Mac Address Table
-----
Vlan  Mac Address      Type      Ports
----  -
1     000c.85c6.886c   DYNAMIC   Fa0/1
1     0030.2215.3139   DYNAMIC   Fa0/6
1     0060.5c03.1823   DYNAMIC   Fa0/6
1     0040.57ab.0362   DYNAMIC   Fa0/3
1     0040.8a25.b344   DYNAMIC   Fa0/2
1     0040.43bc.863b   DYNAMIC   Fa0/4
SW-FL01-R02#
```

Vlan	Mac Address	Type	Ports
1	000c.85c6.886c	DYNAMIC	Fa0/1
1	0030.2215.3139	DYNAMIC	Fa0/6
1	0060.5c03.1823	DYNAMIC	Fa0/6
1	0040.57ab.0362	DYNAMIC	Fa0/3
1	0040.8a25.b344	DYNAMIC	Fa0/2
1	0040.43bc.863b	DYNAMIC	Fa0/4

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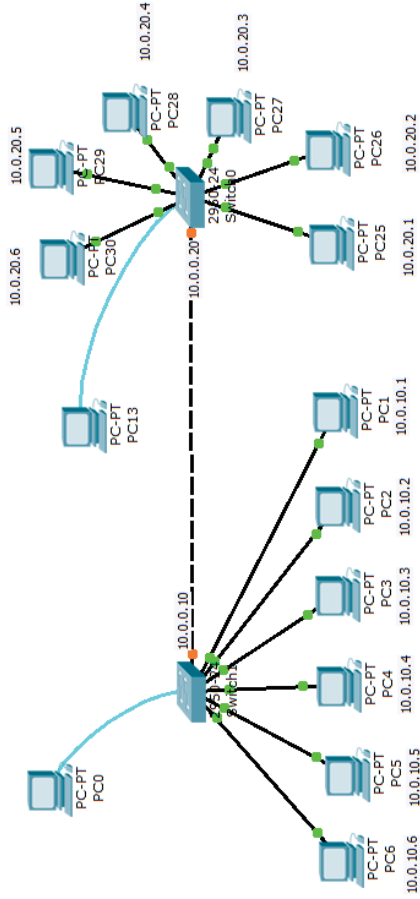
```
[siwtch01]
enabl
config t
hostname SW-FL01-R02
banner motd #Hello & Welcome to
Practical Applications on Network - Lecture
03#
interface vlan 1
ip address 10.0.0.20 255.0.0.0
no shutdown
line vty 0 4
password cisco
login
line console 0
password cisco
login
enable password cisco
enable secret cisco1
```

```
interface range fa0/1-6
speed 100
duplex full
end
copy running-config startup-config
Reload
```

## 3.2

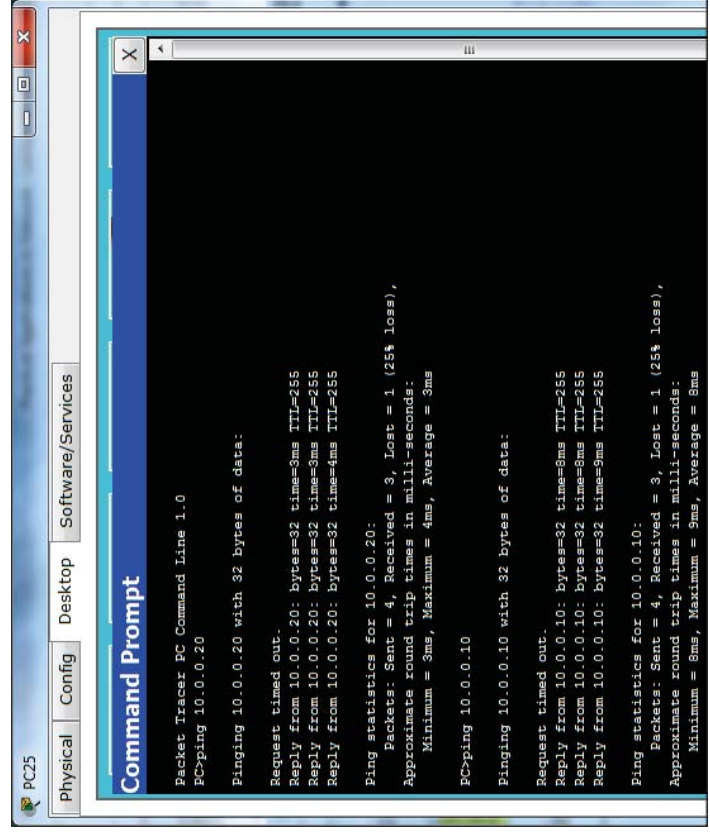
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# Topology



1

1



1

```

[SW-FL01-R01]
enable
config t
interface fa0/24
switchport mode trunk
speed 100
duplex full
end
copy running-config startup-config
reload

[SW-FL01-R02]
enable
config t
interface fa0/24
switchport mode trunk
speed 100
duplex full
end
copy running-config startup-config
reload
    
```

```

PC>ping 10.0.10.1
    
```

```

Pinging 10.0.10.1 with 32 bytes of data:
    
```

```

Reply from 10.0.10.1: bytes=32 time=24ms TTL=128
Reply from 10.0.10.1: bytes=32 time=12ms TTL=128
Reply from 10.0.10.1: bytes=32 time=14ms TTL=128
Reply from 10.0.10.1: bytes=32 time=12ms TTL=128

Ping statistics for 10.0.10.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 12ms, Maximum = 24ms, Average = 15ms
    
```

1

# Show MAC address table information

```
[SW-FL01-R01]
show mac address-table
Ping 10.0.20.1
Ping 10.0.20.2
Ping 10.0.20.3
Ping 10.0.20.4
Ping 10.0.20.5
Ping 10.0.20.6
show mac address-table
```

```
SW-FL01-R02#show mac-address-table
-----
Vlan    Mac Address      Type    Ports
-----
SW-FL01-R02#

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.0.20.6, timeout is 2 seconds:
Success rate is 80 percent (4/5), round-trip min/avg/max = 3/4/5 ms

SW-FL01-R02#show mac-address-table
-----
Vlan    Mac Address      Type    Ports
-----
1       000c.85cc.899c   DYNAMIC Fa0/1
1       000c.85cc.899c   DYNAMIC Fa0/6
1       000c.85cc.899c   DYNAMIC Fa0/6
1       0040.97ab.0362   DYNAMIC Fa0/3
1       0050.8a25.b34a   DYNAMIC Fa0/2
1       0050.43bc.863b   DYNAMIC Fa0/4
SW-FL01-R02#
```

Thanks,..  
See you next week (ISA),...