

Lecture (03)

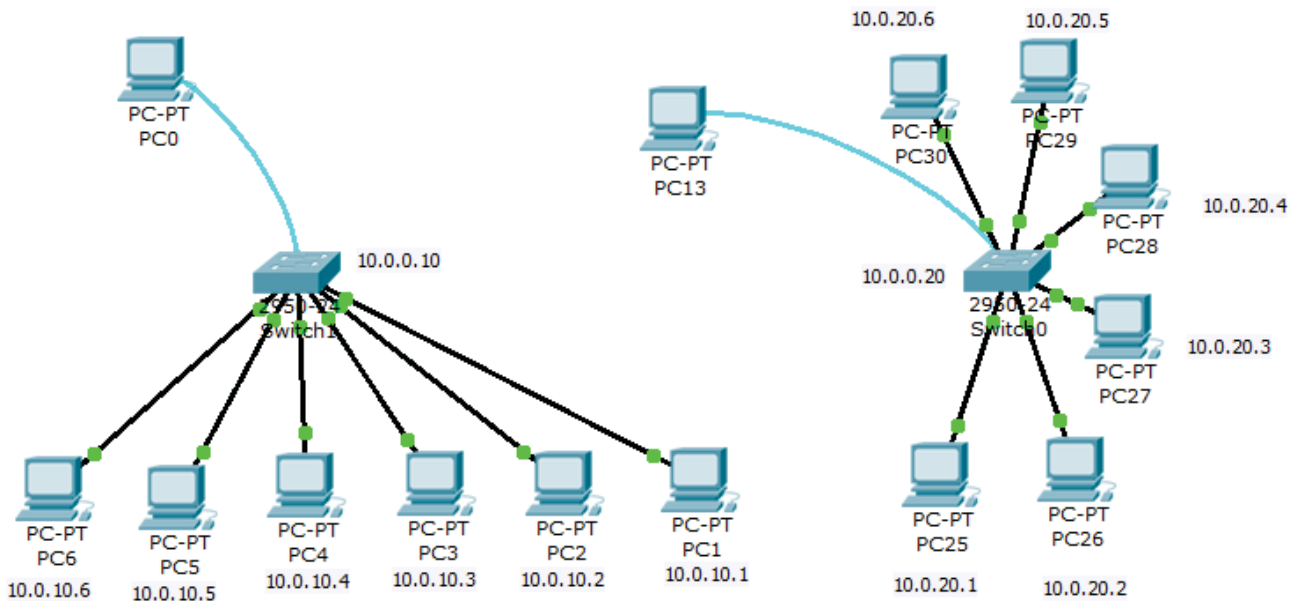
Connect multiple Switches

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3.1

Topology



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

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PC2 9	item	Configuration	PC3 0	item	Configuration
	Gateway	auto		Gateway	auto
	DNS	auto		DNS	auto
	Port status	On		Port status	On
	Band width	100		Band width	100
	Duplex	Full		Duplex	Full
	IP	10.0.20.5		IP	10.0.20.6
	Mask	255.255.0.0		Mask	255.255.0.0

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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
```

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.85cc.889c   DYNAMIC Fa0/1
1       0030.f2a5.3139   DYNAMIC Fa0/6
1       0060.5cd3.1823   DYNAMIC Fa0/5
1       00d0.97eb.0362   DYNAMIC Fa0/3
1       00d0.ba25.b34a   DYNAMIC Fa0/2
1       00d0.d3bc.863b   DYNAMIC Fa0/4
SW-FL01-R02#
```

```
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
```

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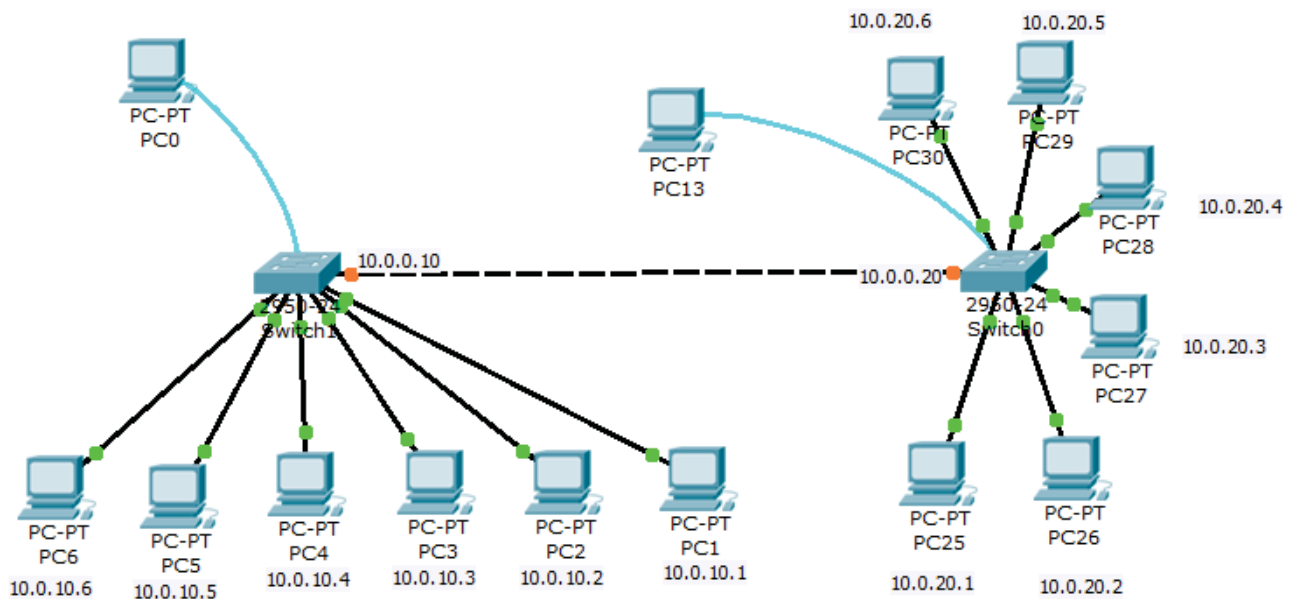
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Topology



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```
[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
```

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The screenshot shows a Packet Tracer PC interface with a Command Prompt window open. The window title is 'Command Prompt' and it contains the following text:

```
Packet Tracer PC Command Line 1.0
PC>ping 10.0.0.20

Pinging 10.0.0.20 with 32 bytes of data:

Request timed out.
Reply from 10.0.0.20: bytes=32 time=3ms TTL=255
Reply from 10.0.0.20: bytes=32 time=3ms TTL=255
Reply from 10.0.0.20: bytes=32 time=4ms TTL=255

Ping statistics for 10.0.0.20:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 3ms, Maximum = 4ms, Average = 3ms

PC>ping 10.0.0.10

Pinging 10.0.0.10 with 32 bytes of data:

Request timed out.
Reply from 10.0.0.10: bytes=32 time=8ms TTL=255
Reply from 10.0.0.10: bytes=32 time=8ms TTL=255
Reply from 10.0.0.10: bytes=32 time=9ms TTL=255

Ping statistics for 10.0.0.10:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 8ms, Maximum = 9ms, Average = 8ms
```

The screenshot shows a Packet Tracer PC interface with a Command Prompt window open. The window title is 'Command Prompt' and it contains the following text:

```
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
```

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
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1       00d0.97eb.0362   DYNAMIC Fa0/3
1       00d0.ba25.b34a   DYNAMIC Fa0/2
1       00d0.d3bc.863b   DYNAMIC Fa0/4
SW-FL01-R02#
```

```
[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
```

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