

Lecture (05)

Connecting multiple switches (II)

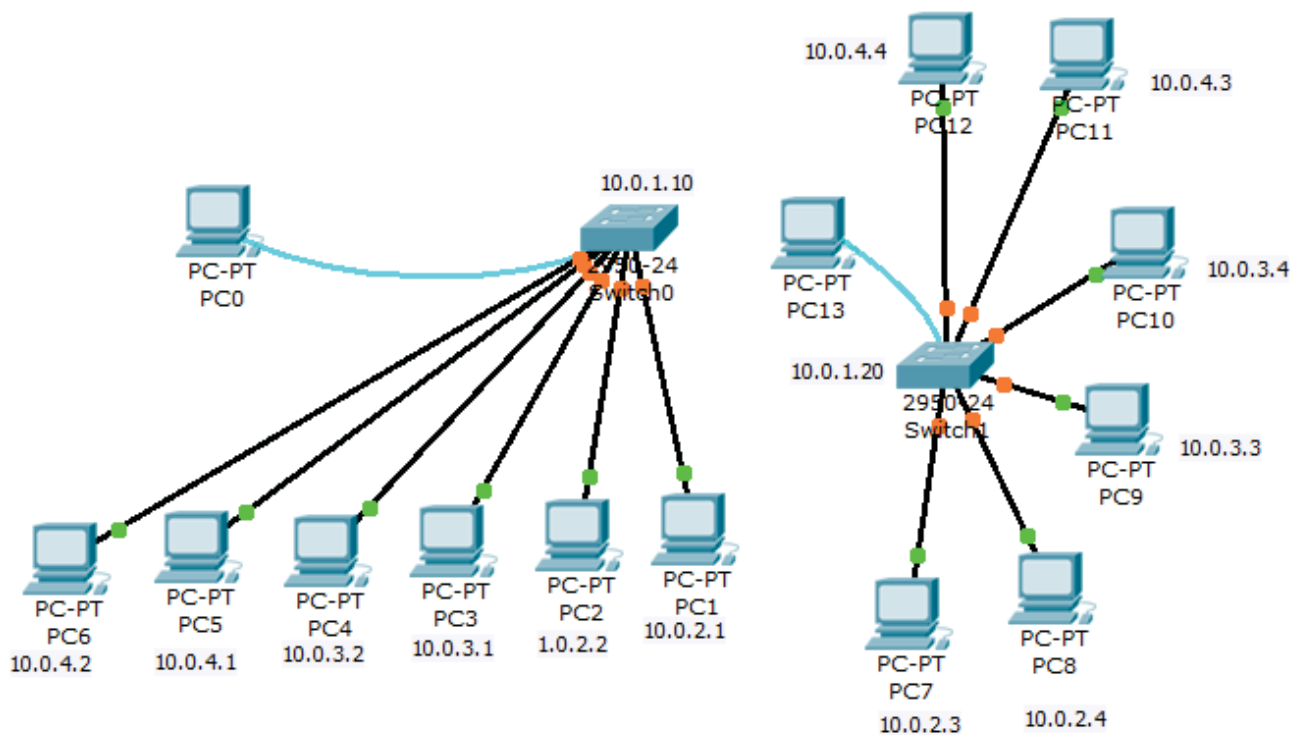
Dr. Ahmed M. ElShafee

Dr. Ahmed ElShafee, ACU Spring 2014, Practical Applications in Computer Networks

5.0

Build two LANs having same VLANS

Topology



PC7	item	Configuration	PC8	item	Configuration
	Gateway	auto		Gateway	auto
	DNS	auto		DNS	auto
	Port status	On		Port status	On
	Band width	auto		Band width	auto
	Duplex	auto		Duplex	auto
	IP	10.0.2.3		IP	10.0.2.4
	Mask	255.255.0.0		Mask	255.255.0.0

PC9	item	Configuration	PC10	item	Configuration
	Gateway	auto		Gateway	auto
	DNS	auto		DNS	auto
	Port status	On		Port status	On
	Band width	auto		Band width	auto
	Duplex	auto		Duplex	auto
IP	10.0.3.3	IP	10.0.3.4		
Mask	255.255.0.0	Mask	255.255.0.0		

PC1 1	item	Configuration	PC1 2	item	Configuration
	Gateway	auto		Gateway	auto
	DNS	auto		DNS	auto
	Port status	On		Port status	On
	Band width	auto		Band width	auto
	Duplex	auto		Duplex	auto
	IP	10.0.4.3		IP	10.0.4.4
	Mask	255.255.0.0		Mask	255.255.0.0

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```
[siwtch0]
*****
enabl
config t
hostname FL00-R01-SW01
banner motd #Hello & Welcome to
Practical Applications on Networl - Lecture
04#

line vty 0 4
password cisco
login

line console 0
password cisco
login

enable password cisco

enable secret cisco1

interface vlan 1
ip address 10.0.1.10 255.255.0.0
no shutdown
```

```
interface range fa0/1-6
speed auto
duplex auto

vlan 2
name Finance

vlan 3
name HR

vlan 4
name Administration

interface fa0/1
switchport mode access
switchport access vlan 2

interface fa0/2
switchport mode access
switchport access vlan 2

interface fa0/3
switchport mode access
switchport access vlan 3
```

```
interface fa0/4
switchport mode access
switchport access vlan 3

interface fa0/5
switchport mode access
switchport access vlan 4

interface fa0/6
switchport mode access
switchport access vlan 4

end

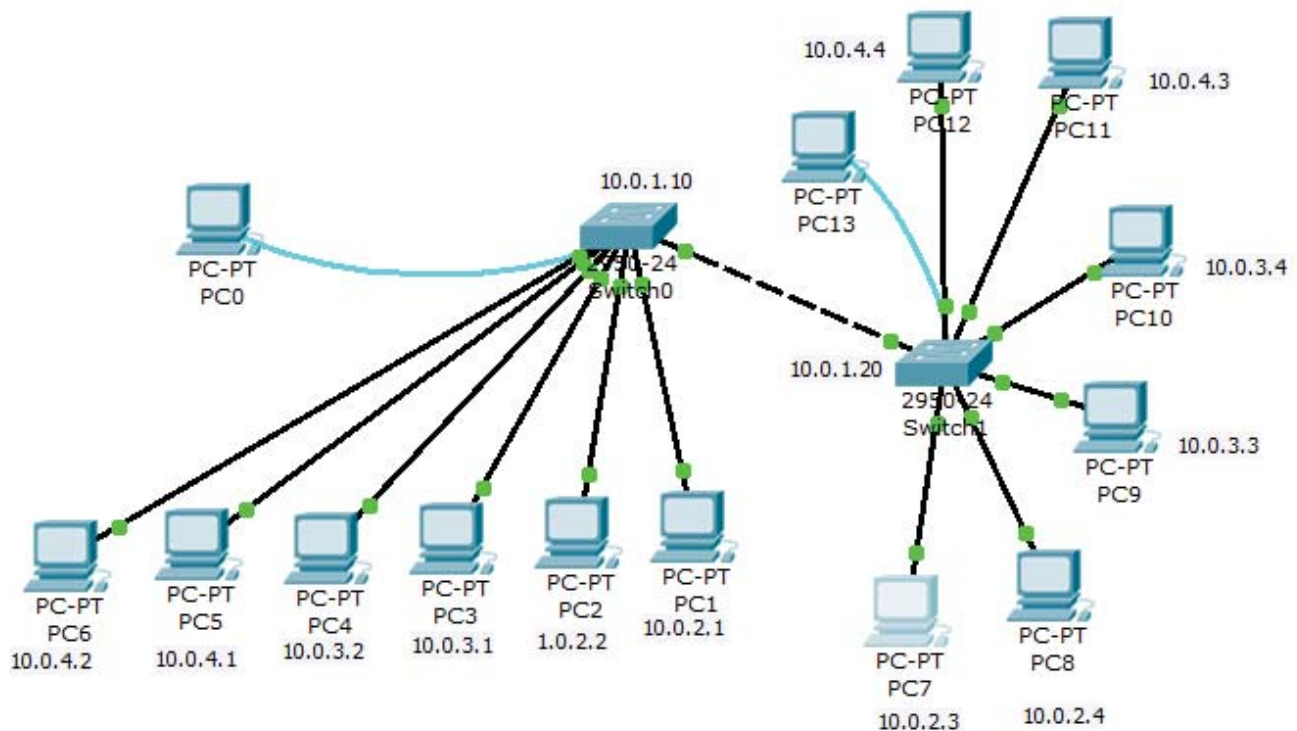
copy running-config startup-config
```

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5.1

Connecting switches

Topography



```
FL00-R01-SW01#ping 10.0.1.20
```

```
Type escape sequence to abort.
```

```
Sending 5, 100-byte ICMP Echos to 10.0.1.20, timeout is 2 seconds:
```

```
..!!!
```

```
Success rate is 60 percent (3/5), round-trip min/avg/max = 4/4/4 ms
```

```
FL00-R01-SW01#ping 10.0.0.20
```

```
Type escape sequence to abort.
```

```
Sending 5, 100-byte ICMP Echos to 10.0.0.20, timeout is 2 seconds:
```

```
.....
```

```
Success rate is 0 percent (0/5)
```

```
FL00-R01-SW01#ping 10.0.1.20
```

```
Type escape sequence to abort.
```

```
Sending 5, 100-byte ICMP Echos to 10.0.1.20, timeout is 2 seconds:
```

```
..!!!
```

```
Success rate is 60 percent (3/5), round-trip min/avg/max = 4/4/4 ms
```

```
FL00-R01-SW01#ping 10.0.20.1
```

```
Type escape sequence to abort.
```

```
Sending 5, 100-byte ICMP Echos to 10.0.20.1, timeout is 2 seconds:
```

```
.....
```

```
Success rate is 0 percent (0/5)
```

```
FL00-R01-SW01#ping 10.0.30.1
```

```
Type escape sequence to abort.
```

```
Sending 5, 100-byte ICMP Echos to 10.0.30.1, timeout is 2 seconds:
```

```
.....
```

```
Success rate is 0 percent (0/5)
```

```
FL00-R01-SW01#ping 10.0.30.1

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.0.30.1, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)

FL00-R01-SW01#ping 10.0.40.1

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.0.40.1, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
```

```
PC>ping 10.0.2.2

Pinging 10.0.2.2 with 32 bytes of data:

Reply from 10.0.2.2: bytes=32 time=18ms TTL=128
Reply from 10.0.2.2: bytes=32 time=8ms TTL=128
Reply from 10.0.2.2: bytes=32 time=8ms TTL=128
Reply from 10.0.2.2: bytes=32 time=9ms TTL=128

Ping statistics for 10.0.2.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 8ms, Maximum = 18ms, Average = 10ms
```

```
Pinging 10.0.2.3 with 32 bytes of data:

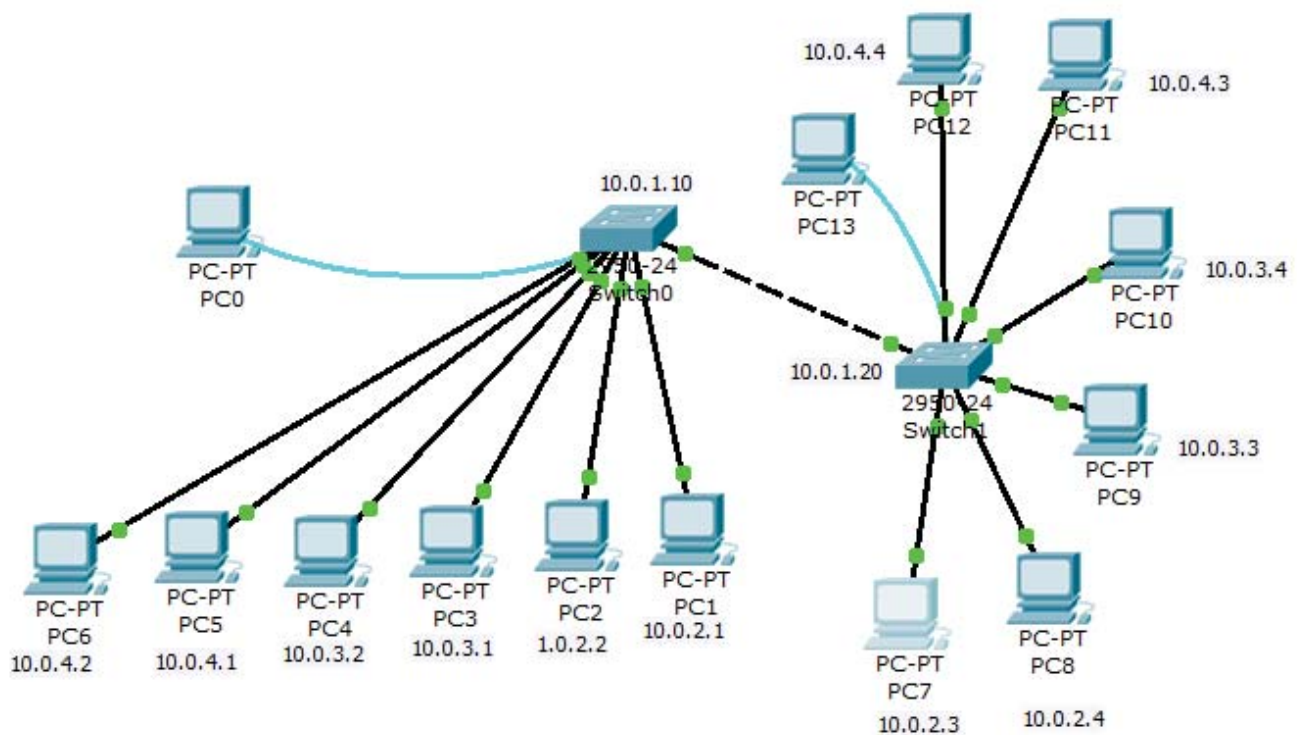
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 10.0.2.3:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

5.2

Trunk mode

Topography



```
[FL00-R01-SW01]
enable
config t
interface fa0/24
switchport mode trunk
speed auto
duplex auto
end
copy running-config startup-config
reload
```

```
[FL00-R02-SW01]
enable
config t
interface fa0/24
switchport mode trunk
speed auto
duplex auto
end
copy running-config startup-config
Reload
```

```
-----
FL00-R01-SW01#ping 10.0.1.20

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.0.1.20, timeout is 2 seconds:
...!!!
■ Success rate is 60 percent (3/5), round-trip min/avg/max = 4/4/4 ms
FL00-R01-SW01#

FL00-R01-SW01#ping 10.0.2.1

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.0.2.1, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)

FL00-R01-SW01#ping 10.0.2.3

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.0.2.3, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
```


The screenshot shows a Packet Tracer PC Command Prompt window titled "Command Prompt" with a close button (X). The window is divided into tabs: "Physical", "Config", "Desktop", and "Software/Services". The command prompt displays the following text:

```
Packet Tracer PC Command Line 1.0
PC>ping 10.0.2.3

Pinging 10.0.2.3 with 32 bytes of data:

Reply from 10.0.2.3: bytes=32 time=25ms TTL=128
Reply from 10.0.2.3: bytes=32 time=14ms TTL=128
Reply from 10.0.2.3: bytes=32 time=10ms TTL=128
Reply from 10.0.2.3: bytes=32 time=11ms TTL=128

Ping statistics for 10.0.2.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 10ms, Maximum = 25ms, Average = 15ms

PC>ping 10.0.2.2

Pinging 10.0.2.2 with 32 bytes of data:

Reply from 10.0.2.2: bytes=32 time=20ms TTL=128
Reply from 10.0.2.2: bytes=32 time=6ms TTL=128
Reply from 10.0.2.2: bytes=32 time=4ms TTL=128
Reply from 10.0.2.2: bytes=32 time=10ms TTL=128

Ping statistics for 10.0.2.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 4ms, Maximum = 20ms, Average = 10ms

PC>
```

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