

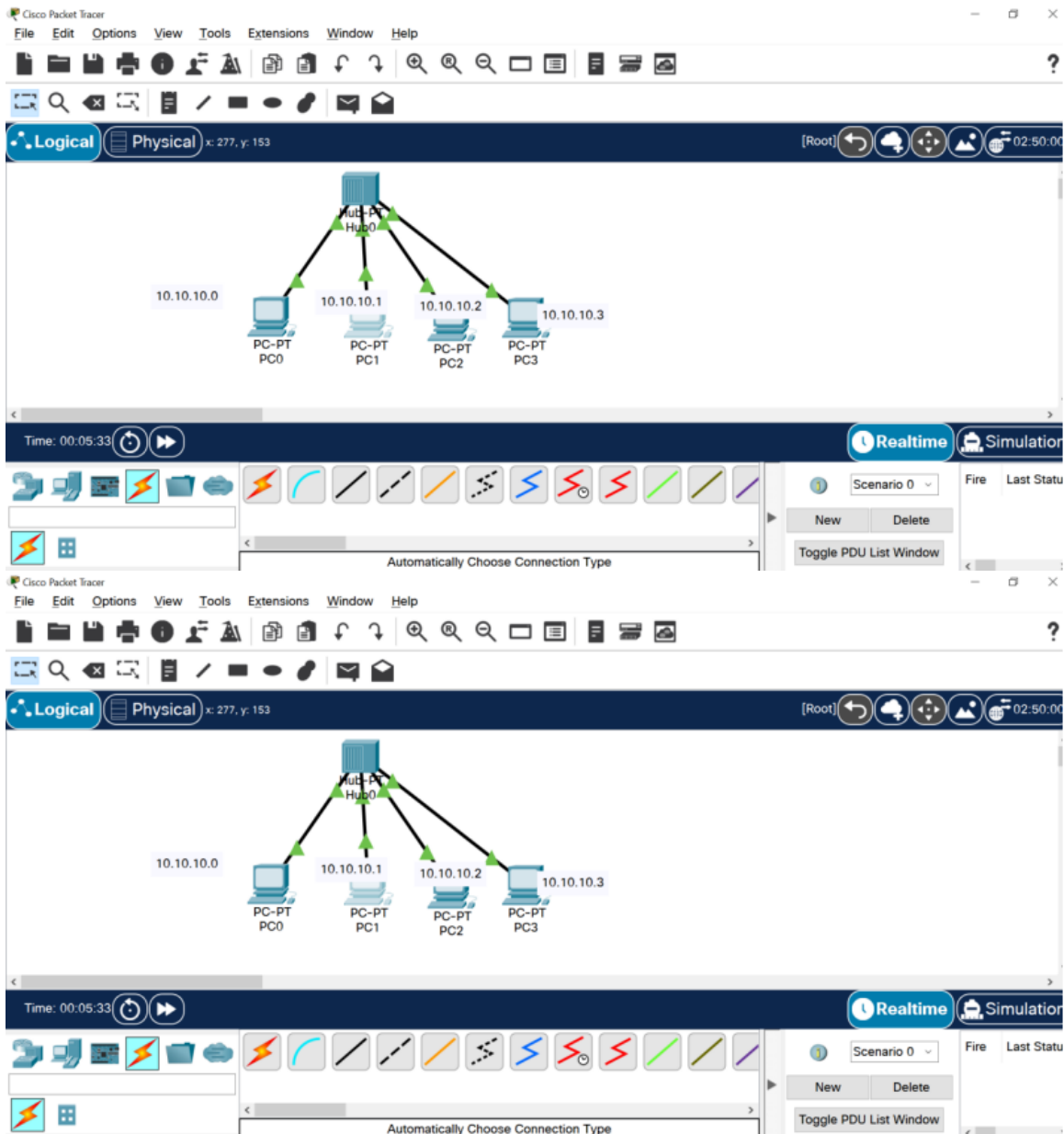
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Admission number: U19CS009

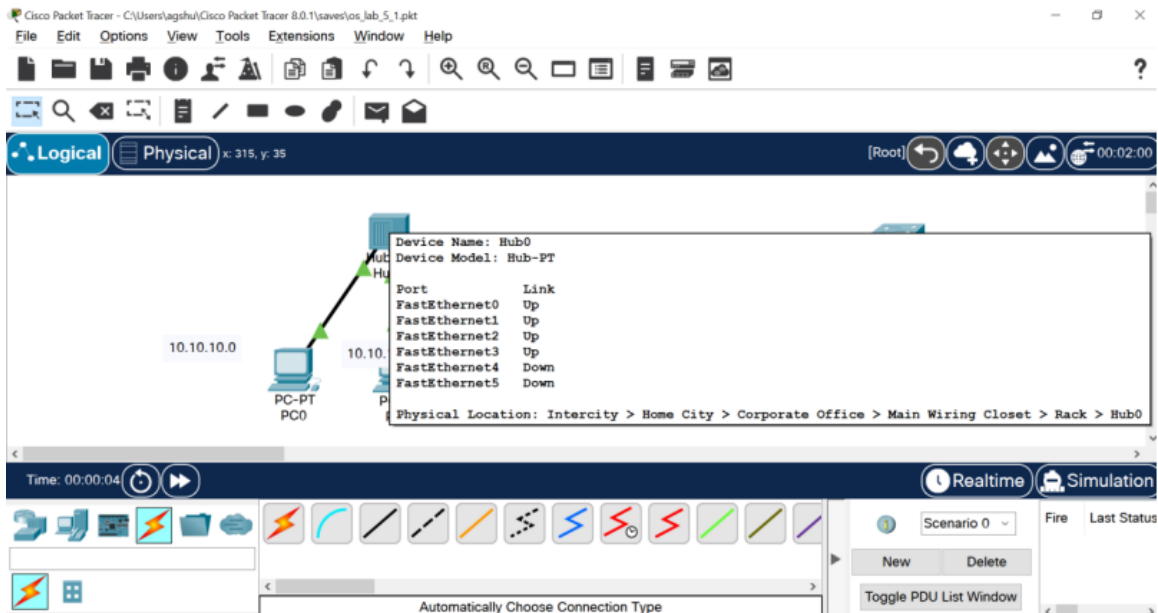
## CN-LAB-ASSIGNMENT-05

**Create Manual for create different network topologies using Hub, Repeater, Switch and Router.**

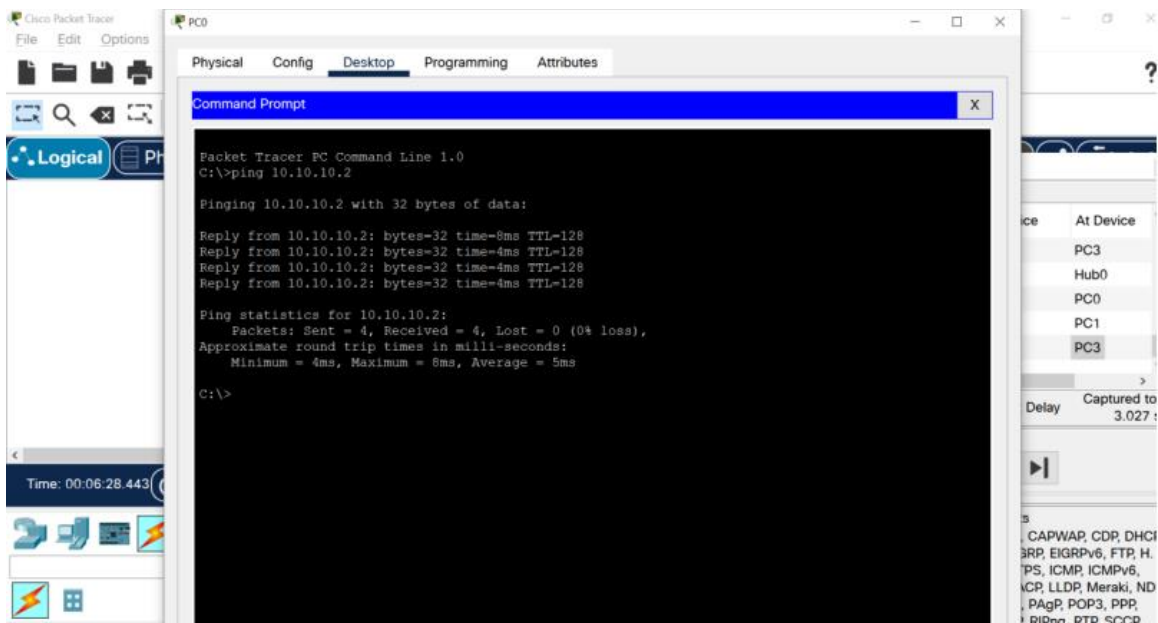
### CREATING NETWORK USING HUB:



## HUB CONFIGURATION:

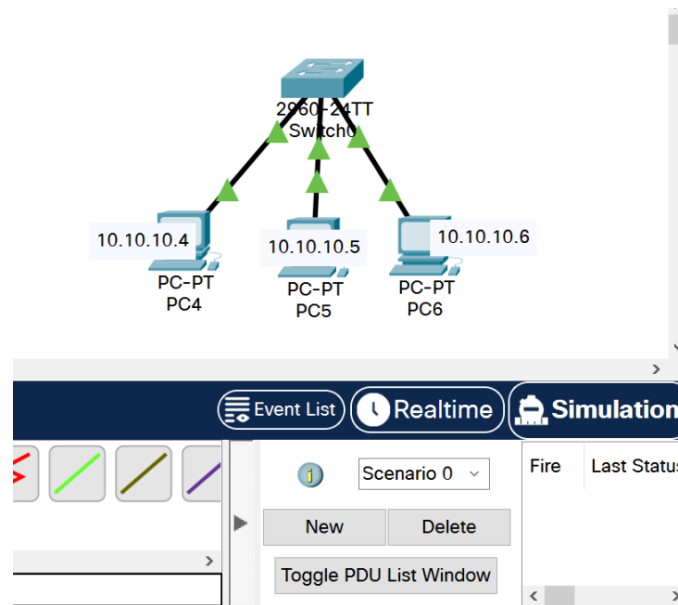


## PING PC0 TO PC2:



SUCCESSFULLY TRANSFERRED ALL THE 4 PACKETS

## CREATING NETWORK USING SWITCH:



Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device
	3.022	PC4	Switch0
	3.023	Switch0	PC6
	3.024	PC6	Switch0
	3.025	Switch0	PC4
	4.698	--	Switch0

Reset Simulation ☒ Constant Delay Captured to: 4.698 s

Play Controls

Event List Filters - Visible Events

ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPSec, ISAKMP, IoT, IoT TCP, LACP, LLDP, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoE, PTP, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Simulation Panel

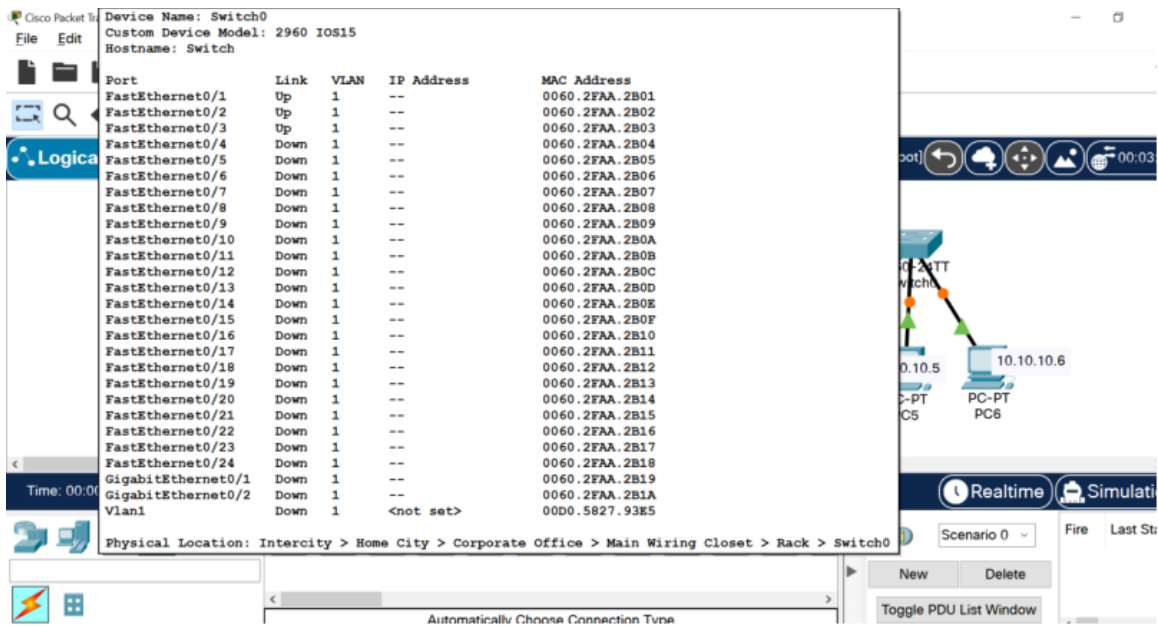
Event List Realtime Simulation

Scenario 0 Fire Last Status

New Delete

Toggle PDU List Window

## H CONFIGURATION



Device Name: Switch0  
Custom Device Model: 2960 IOS15  
Hostname: Switch

Port	Link	VLAN	IP Address	MAC Address
FastEthernet0/1	Up	1	--	0060.2FAA.2B01
FastEthernet0/2	Up	1	--	0060.2FAA.2B02
FastEthernet0/3	Up	1	--	0060.2FAA.2B03
FastEthernet0/4	Down	1	--	0060.2FAA.2B04
FastEthernet0/5	Down	1	--	0060.2FAA.2B05
FastEthernet0/6	Down	1	--	0060.2FAA.2B06
FastEthernet0/7	Down	1	--	0060.2FAA.2B07
FastEthernet0/8	Down	1	--	0060.2FAA.2B08
FastEthernet0/9	Down	1	--	0060.2FAA.2B09
FastEthernet0/10	Down	1	--	0060.2FAA.2B0A
FastEthernet0/11	Down	1	--	0060.2FAA.2B0B
FastEthernet0/12	Down	1	--	0060.2FAA.2B0C
FastEthernet0/13	Down	1	--	0060.2FAA.2B0D
FastEthernet0/14	Down	1	--	0060.2FAA.2B0E
FastEthernet0/15	Down	1	--	0060.2FAA.2B0F
FastEthernet0/16	Down	1	--	0060.2FAA.2B10
FastEthernet0/17	Down	1	--	0060.2FAA.2B11
FastEthernet0/18	Down	1	--	0060.2FAA.2B12
FastEthernet0/19	Down	1	--	0060.2FAA.2B13
FastEthernet0/20	Down	1	--	0060.2FAA.2B14
FastEthernet0/21	Down	1	--	0060.2FAA.2B15
FastEthernet0/22	Down	1	--	0060.2FAA.2B16
FastEthernet0/23	Down	1	--	0060.2FAA.2B17
FastEthernet0/24	Down	1	--	0060.2FAA.2B18
GigabitEthernet0/1	Down	1	--	0060.2FAA.2B19
GigabitEthernet0/2	Down	1	--	0060.2FAA.2B1A
Vlan1	Down	1	<not set>	00D0.5827.93E5

Physical Location: Intercity > Home City > Corporate Office > Main Wiring Closet > Rack > Switch0

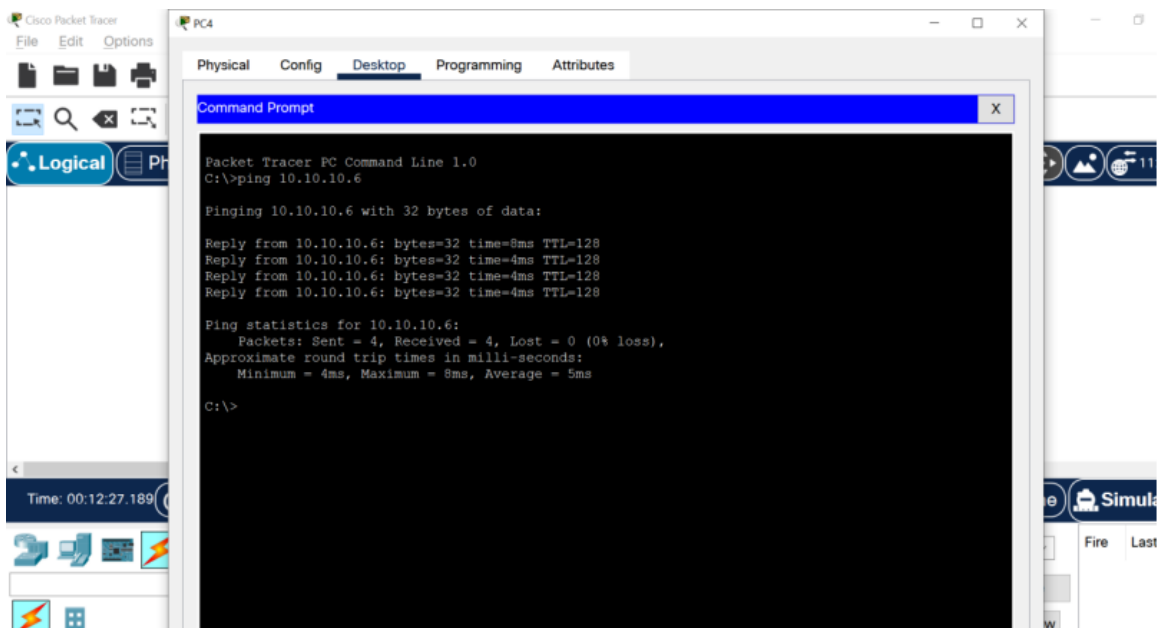
Time: 00:00:00

Scenario 0

New Delete

Toggle PDU List Window

## PING PC4 TO PC6:



PC4

Physical Config Desktop Programming Attributes

Command Prompt

Packet Tracer PC Command Line 1.0  
C:\>ping 10.10.10.6

Pinging 10.10.10.6 with 32 bytes of data:

Reply from 10.10.10.6: bytes=32 time=8ms TTL=128  
Reply from 10.10.10.6: bytes=32 time=4ms TTL=128  
Reply from 10.10.10.6: bytes=32 time=4ms TTL=128  
Reply from 10.10.10.6: bytes=32 time=4ms TTL=128

Ping statistics for 10.10.10.6:  
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),  
Approximate round trip times in milli-seconds:  
Minimum = 4ms, Maximum = 8ms, Average = 5ms

C:\>

Time: 00:12:27.189

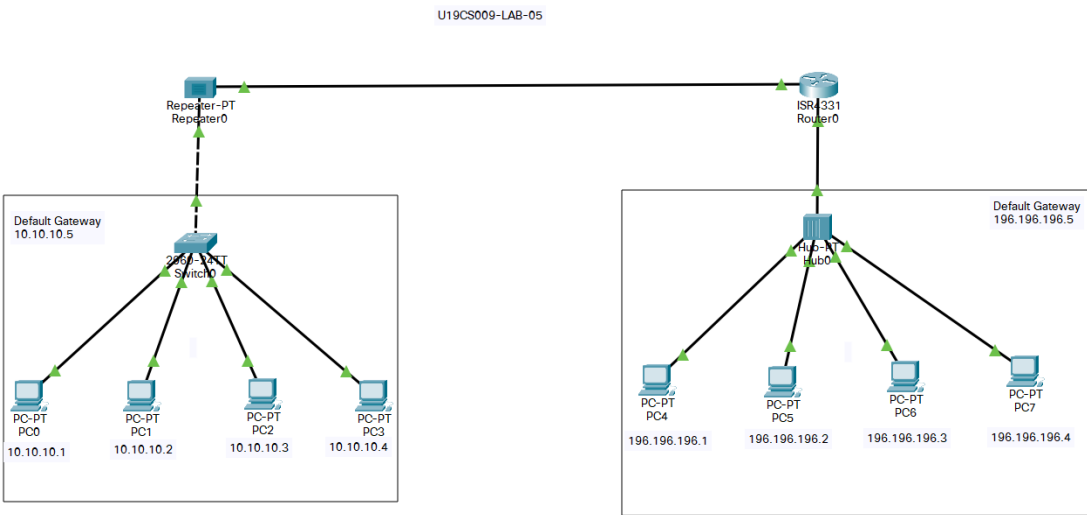
Scenario 0

New Delete

Toggle PDU List Window

SUCCESSFULLY TRANSFERRED ALL THE 4 PACKETS

CREATING NETWORK USING SWITCH, HUB, ROUTER, REPEATER:



HUB CONFIGURATION

```
Device Name: Hub0
Device Model: Hub-PT

Port      Link
FastEthernet0 Up
FastEthernet1 Up
FastEthernet2 Up
FastEthernet3 Up
FastEthernet4 Up
FastEthernet5 Down

Physical Location: Intercity > Home City > Corporate Office > Main Wiring Closet > Rack > Hub0
```

REPEATER CONFIGURATION

```
Device Name: Repeater0
Device Model: Repeater-PT

Port      Link
Ethernet0 Up
Ethernet1 Up

Physical Location: Intercity > Home City > Corporate Office > Main Wiring Closet > Rack > Repeater0
```

ROUTER CONFIGURATION

```
Device Name: Router0
Device Model: ISR4331
Hostname: Router

Port      Link  VLAN  IP Address      IPv6 Address      MAC Address
GigabitEthernet0/0/0 Up    --    10.10.10.5/8    <not set>         0006.2A87.E901
GigabitEthernet0/0/1 Up    --    196.196.196.5/24 <not set>         0006.2A87.E902
GigabitEthernet0/0/2 Down   --    <not set>       <not set>         0006.2A87.E903
Vlan1     Down  1     <not set>       <not set>         0002.1656.1095

Physical Location: Intercity > Home City > Corporate Office > Main Wiring Closet > Rack > Router0
```

## SWITCH CONFIGURATION

Device Name: Switch0  
Custom Device Model: 2960 IOS15  
Hostname: Switch

Port	Link	VLAN	IP Address	MAC Address
FastEthernet0/1	Up	1	--	0006.2AA6.2601
FastEthernet0/2	Up	1	--	0006.2AA6.2602
FastEthernet0/3	Up	1	--	0006.2AA6.2603
FastEthernet0/4	Up	1	--	0006.2AA6.2604
FastEthernet0/5	Up	1	--	0006.2AA6.2605
FastEthernet0/6	Down	1	--	0006.2AA6.2606
FastEthernet0/7	Down	1	--	0006.2AA6.2607
FastEthernet0/8	Down	1	--	0006.2AA6.2608
FastEthernet0/9	Down	1	--	0006.2AA6.2609
FastEthernet0/10	Down	1	--	0006.2AA6.260A
FastEthernet0/11	Down	1	--	0006.2AA6.260B
FastEthernet0/12	Down	1	--	0006.2AA6.260C
FastEthernet0/13	Down	1	--	0006.2AA6.260D
FastEthernet0/14	Down	1	--	0006.2AA6.260E
FastEthernet0/15	Down	1	--	0006.2AA6.260F
FastEthernet0/16	Down	1	--	0006.2AA6.2610
FastEthernet0/17	Down	1	--	0006.2AA6.2611
FastEthernet0/18	Down	1	--	0006.2AA6.2612
FastEthernet0/19	Down	1	--	0006.2AA6.2613
FastEthernet0/20	Down	1	--	0006.2AA6.2614
FastEthernet0/21	Down	1	--	0006.2AA6.2615
FastEthernet0/22	Down	1	--	0006.2AA6.2616
FastEthernet0/23	Down	1	--	0006.2AA6.2617
FastEthernet0/24	Down	1	--	0006.2AA6.2618
GigabitEthernet0/1	Down	1	--	0006.2AA6.2619
GigabitEthernet0/2	Down	1	--	0006.2AA6.261A
Vlan1	Down	1	<not set>	000D.BD59.0B41

Physical Location: Intercity > Home City > Corporate Office > Main Wiring Closet > Rack > Switch0

## PING PC0 TO PC5

```
C:\>ping 192.162.60.2

Pinging 192.162.60.2 with 32 bytes of data:

Request timed out.
Reply from 192.162.60.2: bytes=32 time=10ms TTL=127
Reply from 192.162.60.2: bytes=32 time=10ms TTL=127
Reply from 192.162.60.2: bytes=32 time=10ms TTL=127

Ping statistics for 192.162.60.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 10ms, Maximum = 10ms, Average = 10ms

C:\>
```

[SUCCESSFULLY TRANSFERRED 3 PACKETS AND LOSS OF 1 PACKET](#)