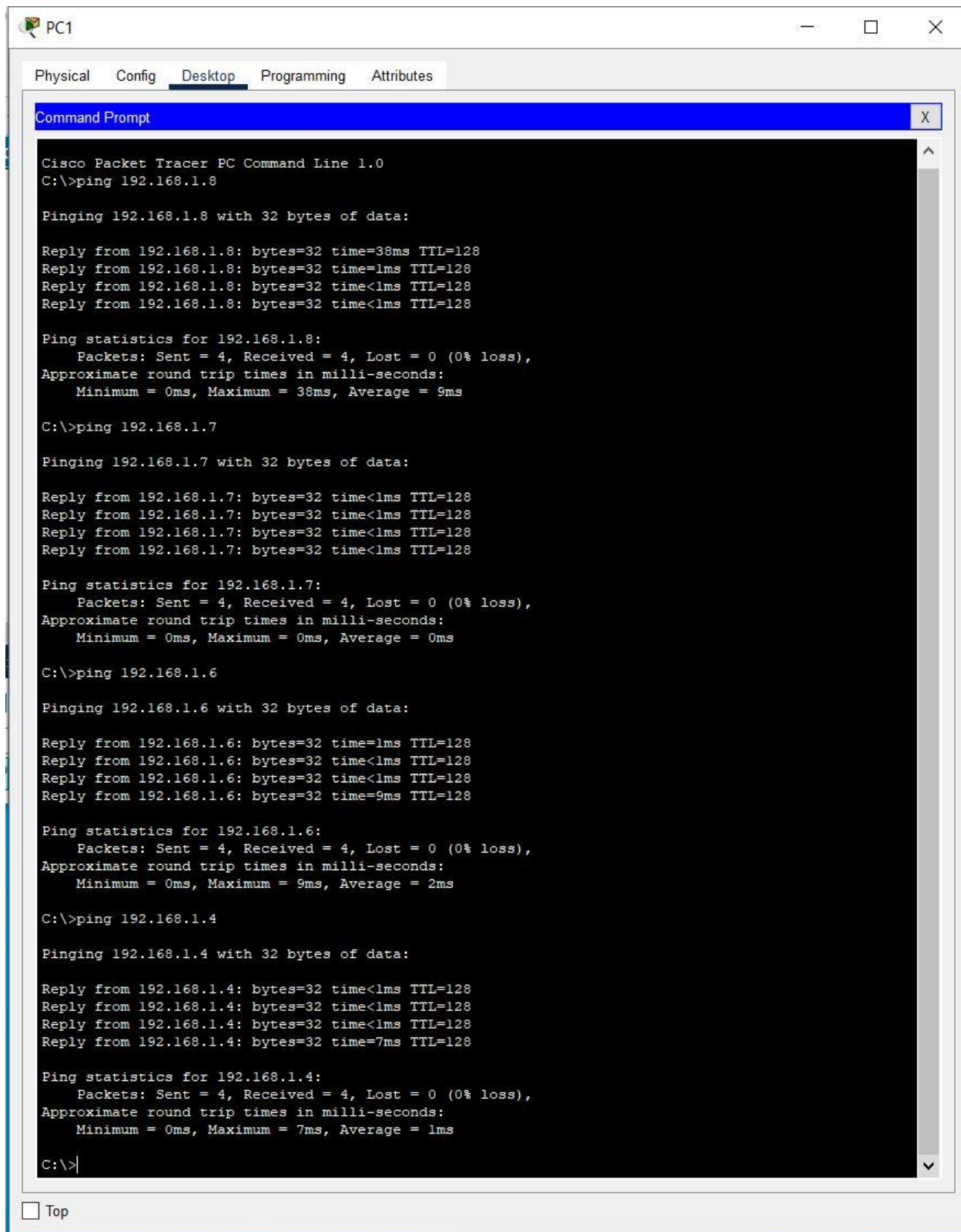


Assignment

Refer to <https://ipccisco.com/lesson/cisco-packet-tracer-vlan-configuration-example-ccna/> and follow the instructions.

Once the exercise is finished, in a correct configuration PC1 should be able to ping PC2 and PC6, but not PC3-5. Take a screenshot as proof.



IOS Command Line Interface

CLEI Code Number : COM3L00BRA
Hardware Board Revision Number : 0x01

Switch	Ports	Model	SW Version	SW Image
*	1 26	WS-C2960-24TT-L	15.0(2)SE4	C2960-LANBASEK9-M

Cisco IOS Software, C2960 Software (C2960-LANBASEK9-M), Version 15.0(2)SE4, RELEASE SOFTWARE (fcl)
Technical Support: <http://www.cisco.com/techsupport>
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Compiled Wed 26-Jun-13 02:49 by mnguyen

Press RETURN to get started!

%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

%LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up

%LINK-5-CHANGED: Interface FastEthernet0/3, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to up

%LINK-5-CHANGED: Interface FastEthernet0/4, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/4, changed state to up

```
Switch>enable
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface fastethernet 0/2
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 2
% Access VLAN does not exist. Creating vlan 2
Switch(config-if)#
```

Copy

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Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x 416, y: 325

Root 12:09:30

PC-PT PC1

PC-PT PC2

PC-PT PC3

2960-24TT Switch1

2960-24TT Switch2

PC-PT PC4

PC-PT PC5

Time: 00:23:57

2960

PT-Switch

PC-Empty

3560 24PS

3560 24PS

Device Name: Switch1

Custom Device Model: 2960 IOS15

Hostname: Switch

Port	Link	VLAN	IP Address	MAC Address
FastEthernet0/1	Up	1	--	00E0.B0B5.9901
FastEthernet0/2	Up	2	--	00E0.B0B5.9902
FastEthernet0/3	Up	1	--	00E0.B0B5.9903
FastEthernet0/4	Up	1	--	00E0.B0B5.9904
FastEthernet0/5	Down	1	--	00E0.B0B5.9905
FastEthernet0/6	Down	1	--	00E0.B0B5.9906
FastEthernet0/7	Down	1	--	00E0.B0B5.9907
FastEthernet0/8	Down	1	--	00E0.B0B5.9908
FastEthernet0/9	Down	1	--	00E0.B0B5.9909
FastEthernet0/10	Down	1	--	00E0.B0B5.990A
FastEthernet0/11	Down	1	--	00E0.B0B5.990B
FastEthernet0/12	Down	1	--	00E0.B0B5.990C
FastEthernet0/13	Down	1	--	00E0.B0B5.990D
FastEthernet0/14	Down	1	--	00E0.B0B5.990E
FastEthernet0/15	Down	1	--	00E0.B0B5.990F
FastEthernet0/16	Down	1	--	00E0.B0B5.9910
FastEthernet0/17	Down	1	--	00E0.B0B5.9911
FastEthernet0/18	Down	1	--	00E0.B0B5.9912
FastEthernet0/19	Down	1	--	00E0.B0B5.9913
FastEthernet0/20	Down	1	--	00E0.B0B5.9914
FastEthernet0/21	Down	1	--	00E0.B0B5.9915
FastEthernet0/22	Down	1	--	00E0.B0B5.9916
FastEthernet0/23	Down	1	--	00E0.B0B5.9917
FastEthernet0/24	Down	1	--	00E0.B0B5.9918
GigabitEthernet0/1	Down	1	--	00E0.B0B5.9919
GigabitEthernet0/2	Down	1	--	00E0.B0B5.991A
Vlan1	Down	1	<not set>	000D.BD79.C4A0

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

Switch 2 (config-if)

Switch 2# copy run

IOS Command Line Interface

COM3L00BRA

0x01

Version

SW Image

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x 432, y 305 Root 14:04:00

Device Name: Switch1
Custom Device Model: 2960 IOS15
Hostname: Switch

Port	Link	VLAN	IP Address	MAC Address
FastEthernet0/1	Up	1	--	00E0.B0B5.9901
FastEthernet0/2	Up	2	--	00E0.B0B5.9902
FastEthernet0/3	Up	2	--	00E0.B0B5.9903
FastEthernet0/4	Up	3	--	00E0.B0B5.9904
FastEthernet0/5	Down	1	--	00E0.B0B5.9905
FastEthernet0/6	Down	1	--	00E0.B0B5.9906
FastEthernet0/7	Down	1	--	00E0.B0B5.9907
FastEthernet0/8	Down	1	--	00E0.B0B5.9908
FastEthernet0/9	Down	1	--	00E0.B0B5.9909
FastEthernet0/10	Down	1	--	00E0.B0B5.990A
FastEthernet0/11	Down	1	--	00E0.B0B5.990B
FastEthernet0/12	Down	1	--	00E0.B0B5.990C
FastEthernet0/13	Down	1	--	00E0.B0B5.990D
FastEthernet0/14	Down	1	--	00E0.B0B5.990E
FastEthernet0/15	Down	1	--	00E0.B0B5.990F
FastEthernet0/16	Down	1	--	00E0.B0B5.9910
FastEthernet0/17	Down	1	--	00E0.B0B5.9911
FastEthernet0/18	Down	1	--	00E0.B0B5.9912
FastEthernet0/19	Down	1	--	00E0.B0B5.9913
FastEthernet0/20	Down	1	--	00E0.B0B5.9914
FastEthernet0/21	Down	1	--	00E0.B0B5.9915
FastEthernet0/22	Down	1	--	00E0.B0B5.9916
FastEthernet0/23	Down	1	--	00E0.B0B5.9917
FastEthernet0/24	Down	1	--	00E0.B0B5.9918
GigabitEthernet0/1	Down	1	--	00E0.B0B5.9919
GigabitEthernet0/2	Down	1	--	00E0.B0B5.991A
Vlan1	Down	1	<not set>	000D.BD79.C4A0

Time: 00:27:42

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

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x 682, y 300 Root 17:10:00

PC-PT PC1

PC-PT PC2

PC-PT PC3

2960-24TT Switch1

2960-24TT Switch2

PC-PT PC4

PC-PT PC5

Device Name: Switch2
Custom Device Model: 2960 IOS15
Hostname: Switch

Port	Link	VLAN	IP Address	MAC Address
FastEthernet0/1	Up	1	--	0007.EC31.C501
FastEthernet0/2	Up	3	--	0007.EC31.C502
FastEthernet0/3	Up	3	--	0007.EC31.C503
FastEthernet0/4	Up	2	--	0007.EC31.C504
FastEthernet0/5	Down	1	--	0007.EC31.C505
FastEthernet0/6	Down	1	--	0007.EC31.C506
FastEthernet0/7	Down	1	--	0007.EC31.C507
FastEthernet0/8	Down	1	--	0007.EC31.C508
FastEthernet0/9	Down	1	--	0007.EC31.C509
FastEthernet0/10	Down	1	--	0007.EC31.C50A
FastEthernet0/11	Down	1	--	0007.EC31.C50B
FastEthernet0/12	Down	1	--	0007.EC31.C50C
FastEthernet0/13	Down	1	--	0007.EC31.C50D
FastEthernet0/14	Down	1	--	0007.EC31.C50E
FastEthernet0/15	Down	1	--	0007.EC31.C50F
FastEthernet0/16	Down	1	--	0007.EC31.C510
FastEthernet0/17	Down	1	--	0007.EC31.C511
FastEthernet0/18	Down	1	--	0007.EC31.C512
FastEthernet0/19	Down	1	--	0007.EC31.C513
FastEthernet0/20	Down	1	--	0007.EC31.C514
FastEthernet0/21	Down	1	--	0007.EC31.C515
FastEthernet0/22	Down	1	--	0007.EC31.C516
FastEthernet0/23	Down	1	--	0007.EC31.C517
FastEthernet0/24	Down	1	--	0007.EC31.C518
GigabitEthernet0/1	Down	1	--	0007.EC31.C519
GigabitEthernet0/2	Down	1	--	0007.EC31.C51A
Vlan1	Down	1	<not set>	0006.2AC8.B1E1

Physical Location: Intercity > Home City > Corporate Office > Main Wiring Closet > Rack > Switch2

Time: 00:33:48

2960 PFSwitch PFSwitch 24PS 24PS IE 2000 PFSwitch 2960-24 2960T

Copper Straight-Through

Wireshark

Cleaner

IOS Command Line Interface

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

Switch(config-if)#switchport nonegotiate
Switch(config-if)#switchport trunk allowed vlan 2-4
Switch(config-if)#copy running-config startup-config
^
% Invalid input detected at '^' marker.

Switch(config-if)#exit
Switch(config)#exit
Switch#
%SYS-5-CONFIG_I: Configured from console by console

Switch#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
Switch#show interfaces fastethernet 0/1 switchport
Name: Fa0/1
Switchport: Enabled
Administrative Mode: trunk
Operational Mode: trunk
Administrative Trunking Encapsulation: dot1q
Operational Trunking Encapsulation: dot1q
Negotiation of Trunking: Off
Access Mode VLAN: 1 (default)
Trunking Native Mode VLAN: 1 (default)
Voice VLAN: none
Administrative private-vlan host-association: none
Administrative private-vlan mapping: none
Administrative private-vlan trunk native VLAN: none
Administrative private-vlan trunk encapsulation: dot1q
Administrative private-vlan trunk normal VLANs: none
Administrative private-vlan trunk private VLANs: none
Operational private-vlan: none
Trunking VLANs Enabled: 2-4
Pruning VLANs Enabled: 2-1001
Capture Mode Disabled
Capture VLANs Allowed: ALL
Protected: false
--More--
```

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IOS Command Line Interface

```
Switch>enable
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface fastethernet 0/1
Switch(config-if)#switchport mode trunk
Switch(config-if)#switchport nonegotiate
Switch(config-if)#switchport trunk allowed vlan 2-4
Switch(config-if)#exit
Switch(config)#exit
Switch#
%SYS-5-CONFIG_I: Configured from console by console

Switch#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
Switch#
Switch#show interfaces fastethernet 0/1 switchport
Name: Fa0/1
Switchport: Enabled
Administrative Mode: trunk
Operational Mode: trunk
Administrative Trunking Encapsulation: dot1q
Operational Trunking Encapsulation: dot1q
Negotiation of Trunking: Off
Access Mode VLAN: 1 (default)
Trunking Native Mode VLAN: 1 (default)
Voice VLAN: none
Administrative private-vlan host-association: none
Administrative private-vlan mapping: none
Administrative private-vlan trunk native VLAN: none
Administrative private-vlan trunk encapsulation: dot1q
Administrative private-vlan trunk normal VLANs: none
Administrative private-vlan trunk private VLANs: none
Operational private-vlan: none
Trunking VLANs Enabled: 2-4
Pruning VLANs Enabled: 2-1001
Capture Mode Disabled
Capture VLANs Allowed: ALL
Protected: false
--More--
```

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