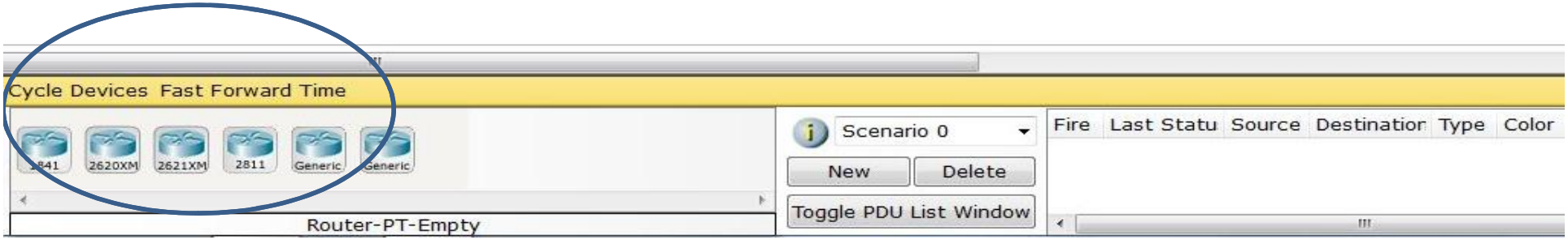
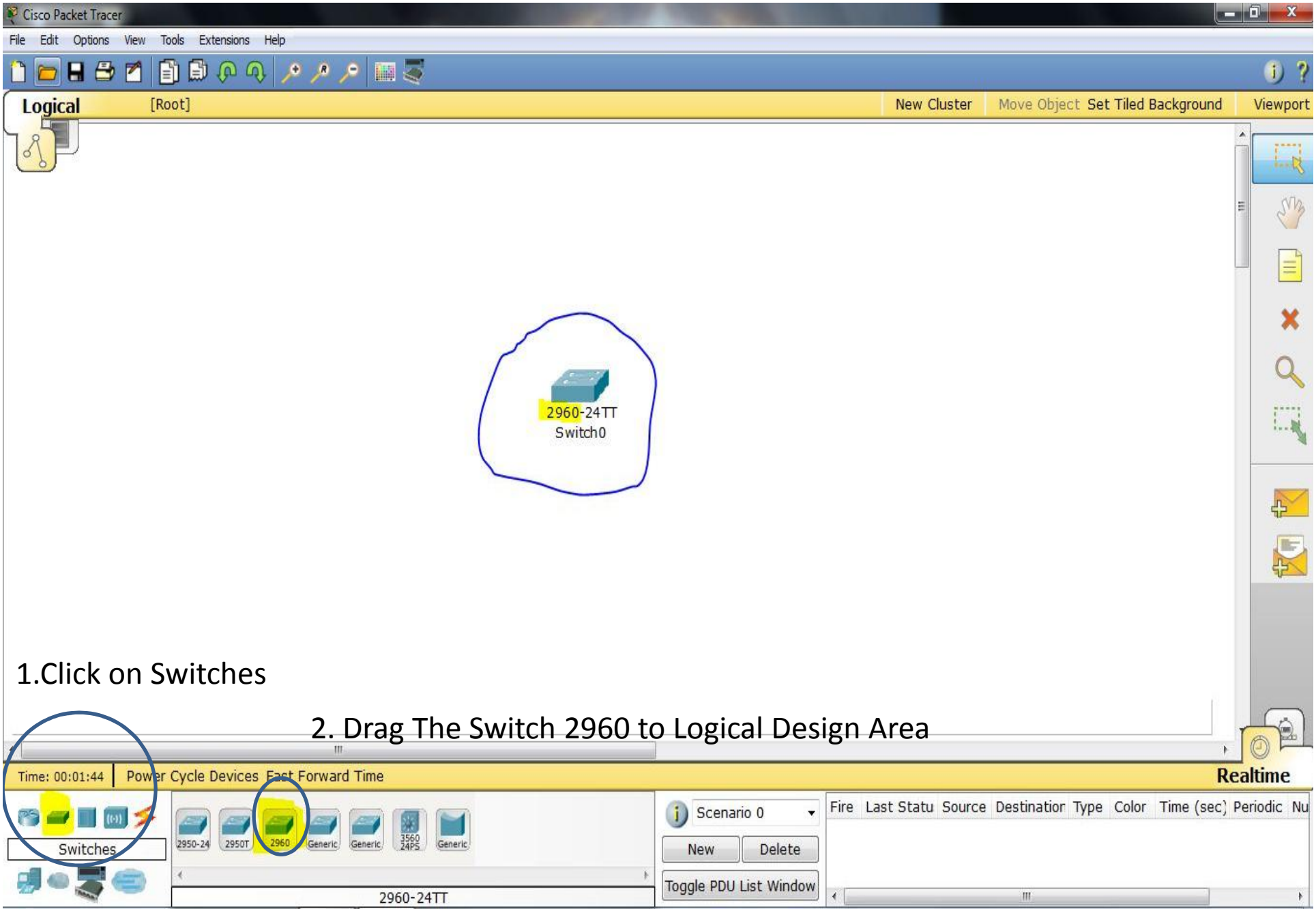
Logical Design Area

Device Select Area

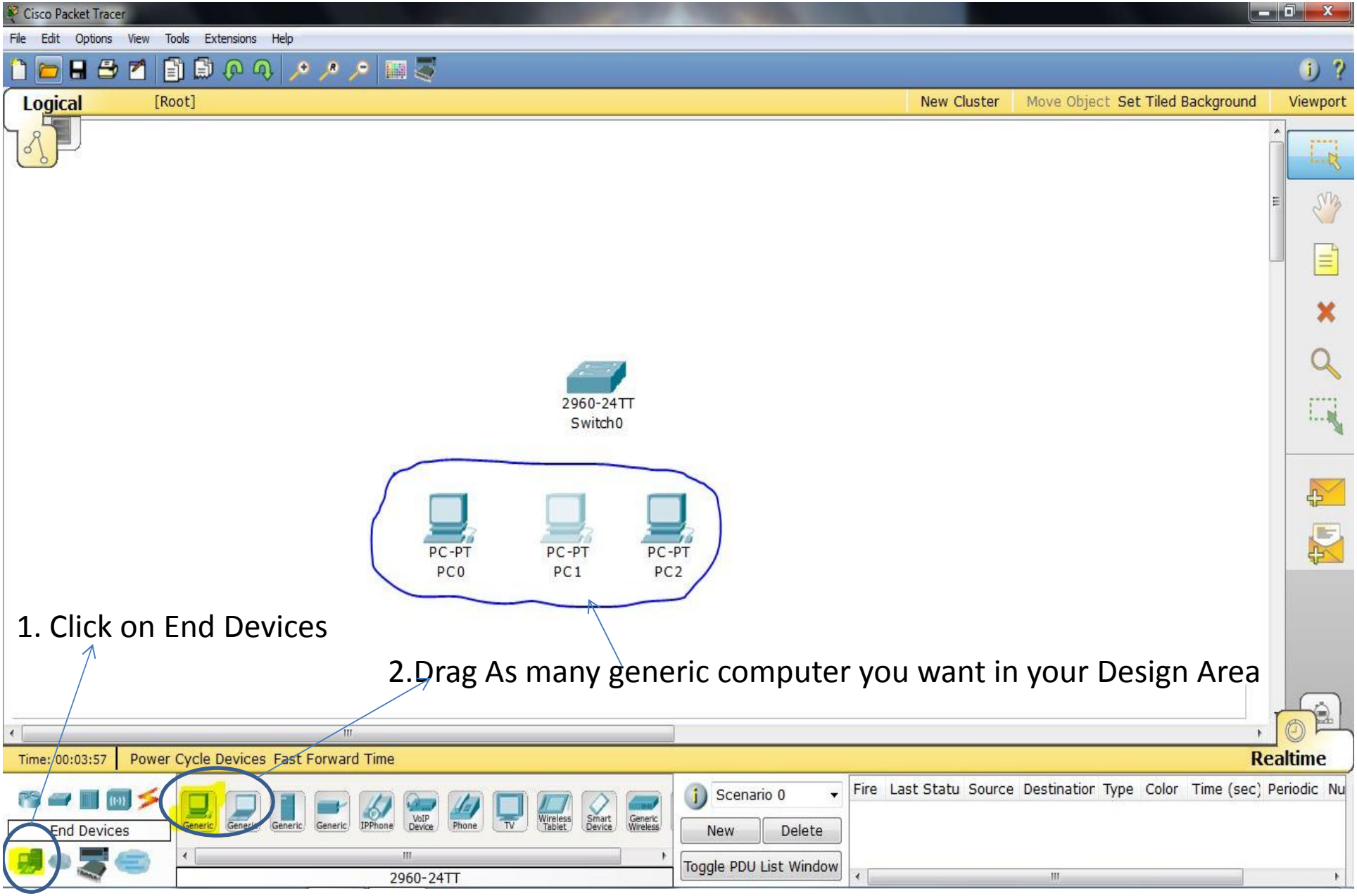


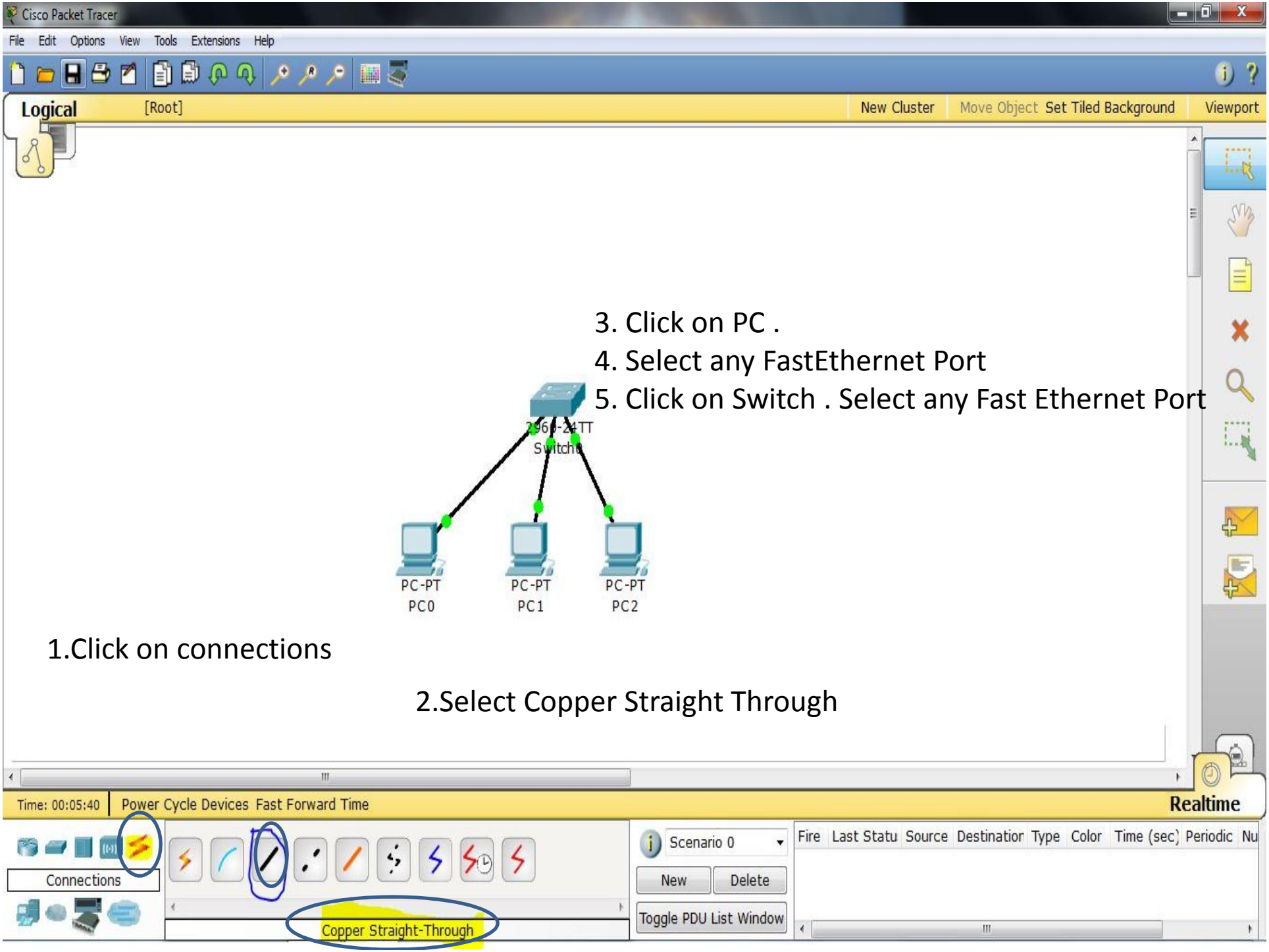
By Prof. Senthil Jayavel



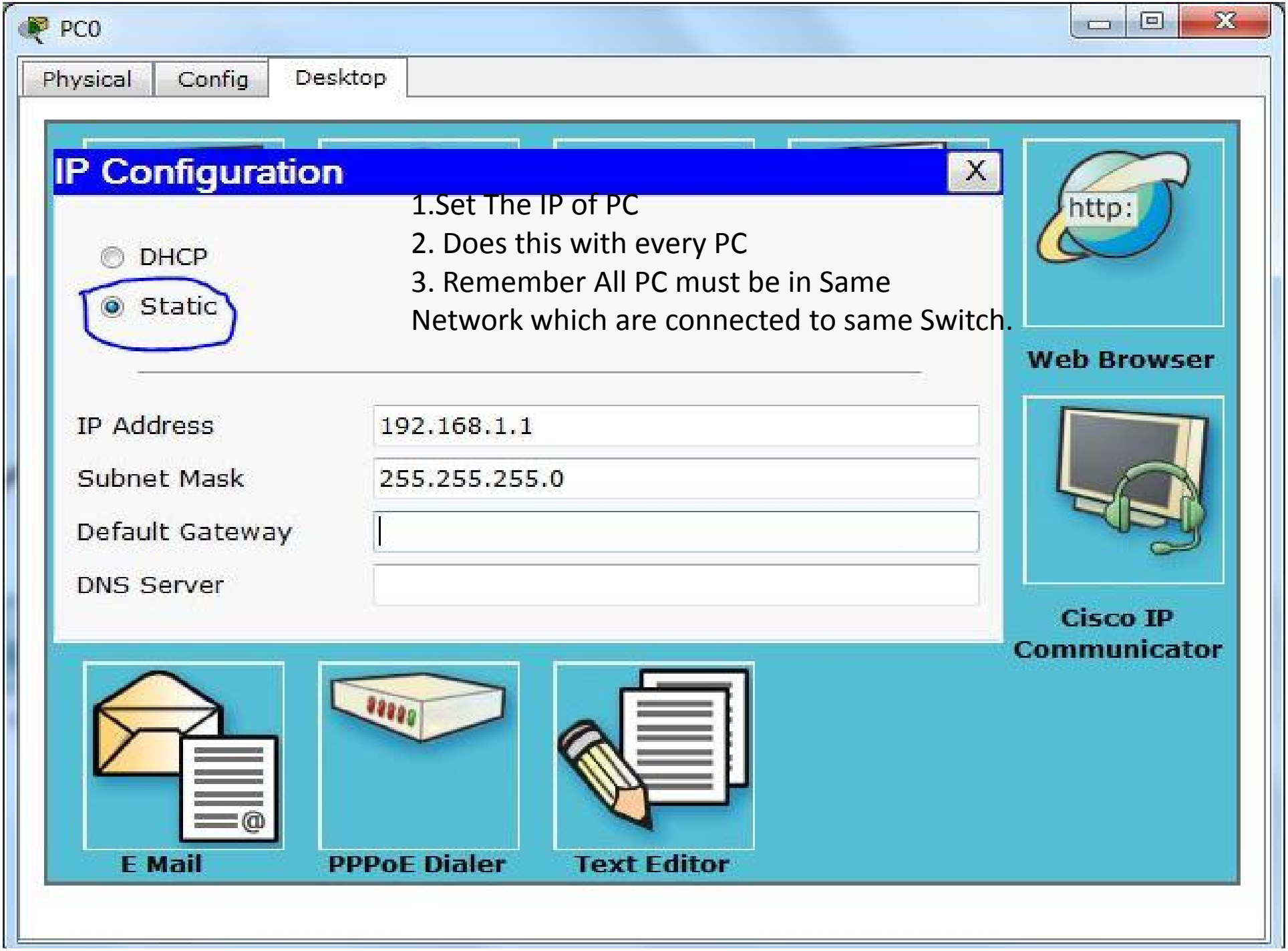
1.Click on Switches

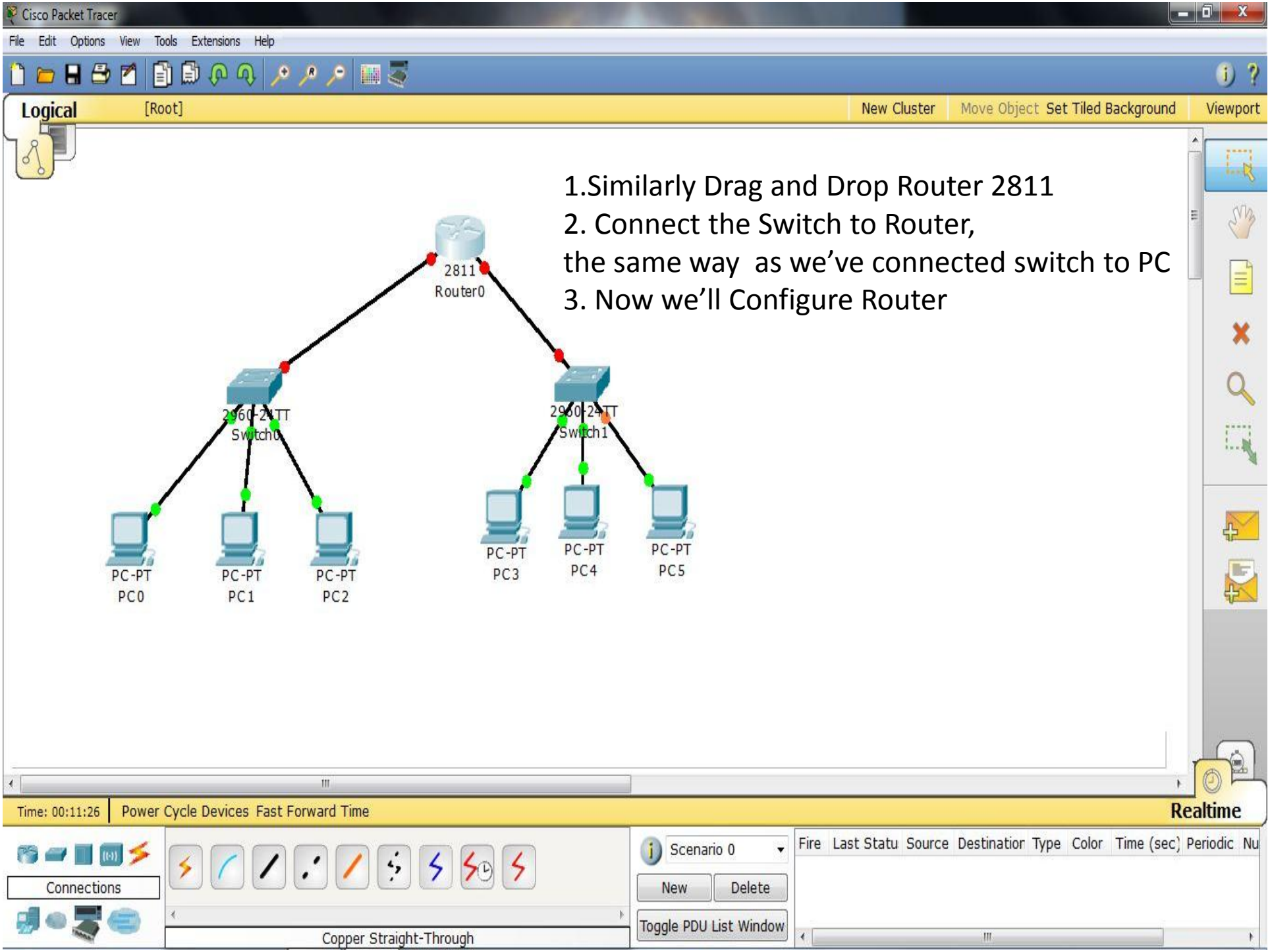
2. Drag The Switch 2960 to Logical Design Area

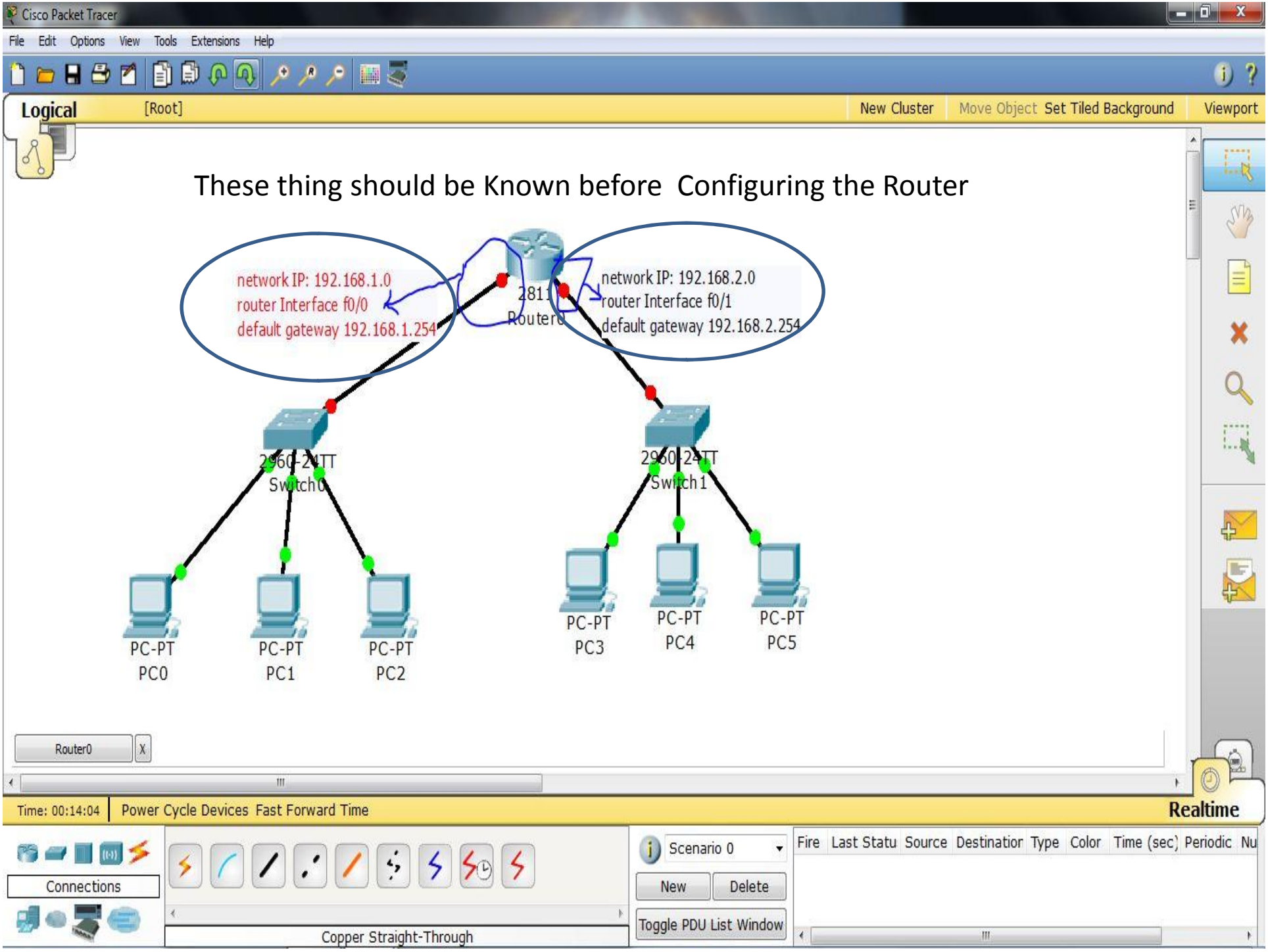

Cisco Packet Tracer
File Edit Options View Tools Extensions Help
Logical [Root]
New Cluster Move Object Set Tiled Background Viewport
2960-24TT
Switch0
PC-PT
PC0
PC-PT
PC1
PC-PT
PC2
1. Click on End Devices
2.Drag As many generic computer you want in your Design Area
Time: 00:03:57 Power Cycle Devices Fast Forward Time
Realtime
End Devices
Generic
Generic
Generic
Generic
IPPhone
VoIP Device
Phone
TV
Wireless Tablet
Smart Device
Generic Wireless
2960-24TT
Scenario 0
New
Delete
Toggle PDU List Window
Fire
Last Statu
Source
Destinatior
Type
Color
Time (sec)
Periodic
Nu

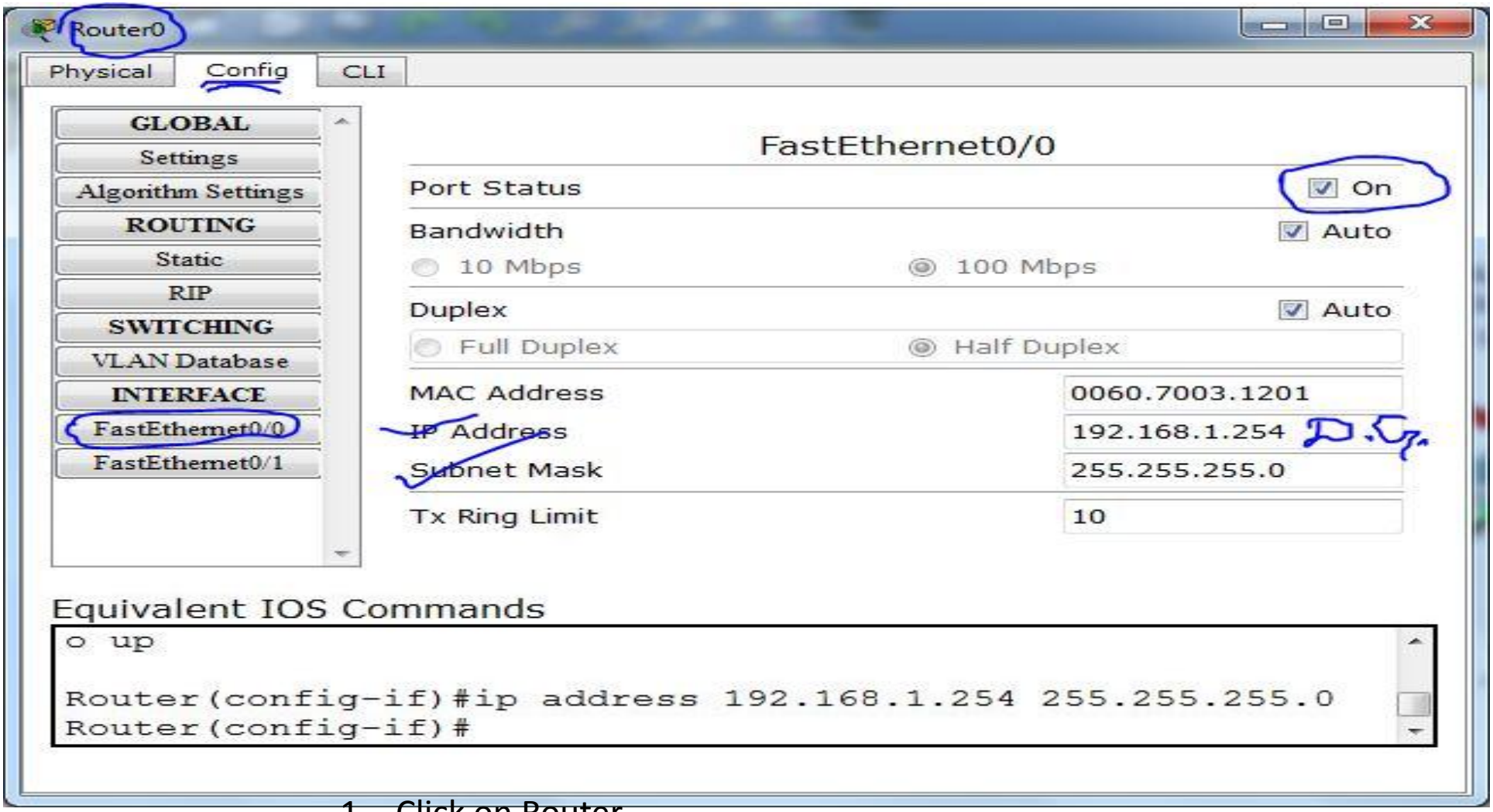

Cisco Packet Tracer
File Edit Options View Tools Extensions Help
Logical
[Root]
New Cluster
Move Object
Set Tiled Background
Viewport
3. Click on PC .
4. Select any FastEthernet Port
5. Click on Switch . Select any Fast Ethernet Port
2960-24TT
Switch0
PC-PT
PC0
PC-PT
PC1
PC-PT
PC2
1.Click on connections
2.Select Copper Straight Through
Time: 00:05:40
Power Cycle Devices
Fast Forward Time
Realtime
Connections
Copper Straight-Through
Scenario 0
New
Delete
Toggle PDU List Window
Fire
Last Statu
Source
Destination
Type
Color
Time (sec)
Periodic
Nu


PC0
Physical
Config
Desktop
1. Click on PC 0
2. Click on IP Configuration
106
IP Configuration
Dial-up
Terminal
run
Command Prompt
http:
Web Browser
PC Wireless
VPN
Traffic Generator
MIB
MIB Browser
Cisco IP Communicator
E Mail
PPPoE Dialer
Text Editor


PC0
Physical
Config
Desktop
IP Configuration
1.Set The IP of PC
2. Does this with every PC
3. Remember All PC must be in Same Network which are connected to same Switch.
DHCP
Static
IP Address
192.168.1.1
Subnet Mask
255.255.255.0
Default Gateway
DNS Server
Web Browser
Cisco IP Communicator
E Mail
PPPoE Dialer
Text Editor


Cisco Packet Tracer
File Edit Options View Tools Extensions Help
Logical
[Root]
New Cluster
Move Object
Set Tiled Background
Viewport
1.Similarly Drag and Drop Router 2811
2. Connect the Switch to Router,
the same way as we've connected switch to PC
3. Now we'll Configure Router
2811
Router0
2960-24TT
Switch0
2960-24TT
Switch1
PC-PT
PC0
PC-PT
PC1
PC-PT
PC2
PC-PT
PC3
PC-PT
PC4
PC-PT
PC5
Time: 00:11:26
Power Cycle Devices
Fast Forward Time
Realtime
Connections
Copper Straight-Through
Scenario 0
New
Delete
Toggle PDU List Window
Fire
Last Statu
Source
Destination
Type
Color
Time (sec)
Periodic
Nu

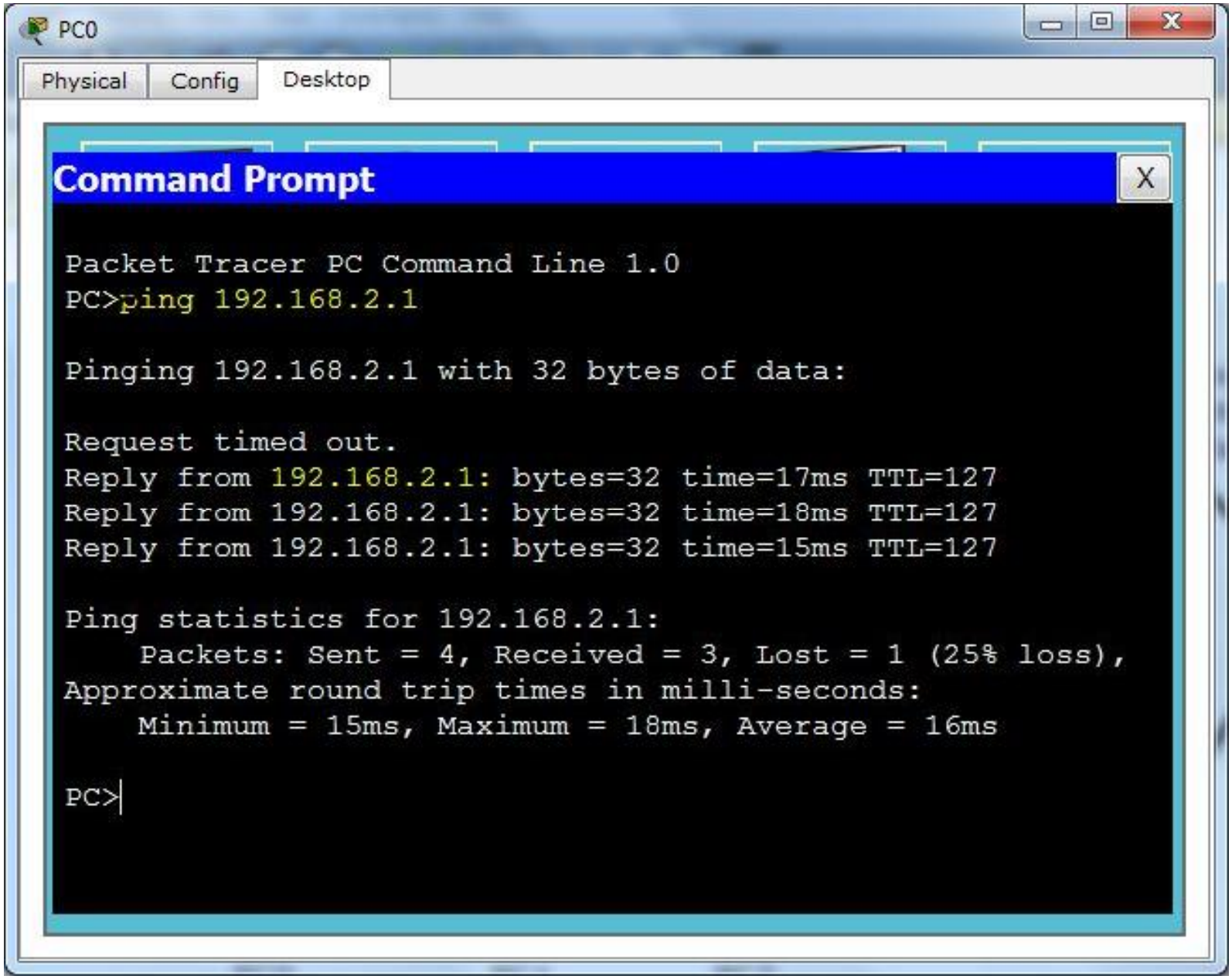

Cisco Packet Tracer
File Edit Options View Tools Extensions Help
Logical
[Root]
New Cluster
Move Object
Set Tiled Background
Viewport
These thing should be Known before Configuring the Router
network IP: 192.168.1.0
router Interface f0/0
default gateway 192.168.1.254
network IP: 192.168.2.0
router Interface f0/1
default gateway 192.168.2.254
2811
Router0
2960-24TT
Switch0
2960-24TT
Switch1
PC-PT
PC0
PC-PT
PC1
PC-PT
PC2
PC-PT
PC3
PC-PT
PC4
PC-PT
PC5
Router0
Time: 00:14:04
Power Cycle Devices Fast Forward Time
Realtime
Connections
Copper Straight-Through
Scenario 0
New
Delete
Toggle PDU List Window
Fire
Last Statu
Source
Destination
Type
Color
Time (sec)
Periodic
Nu

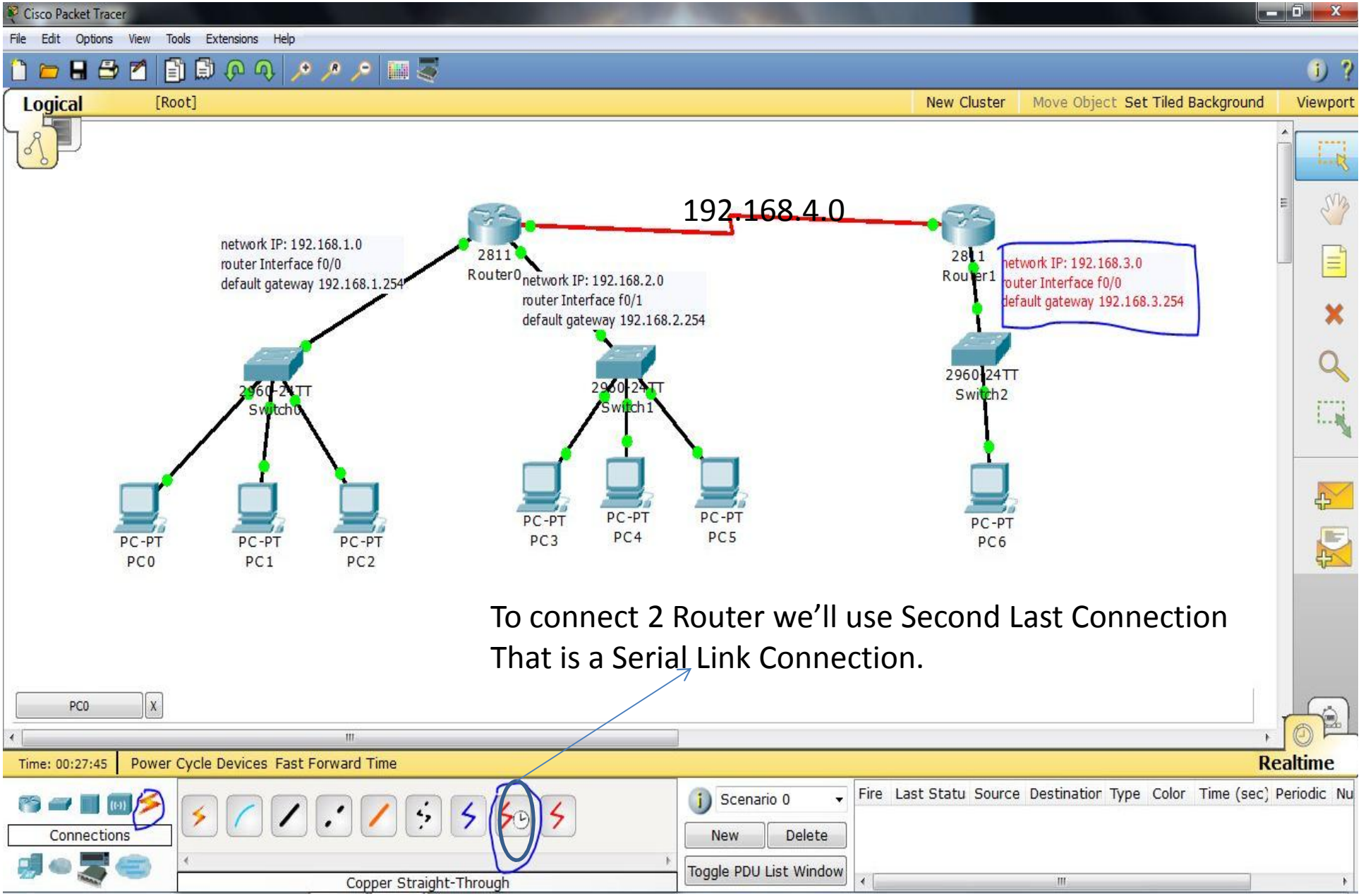


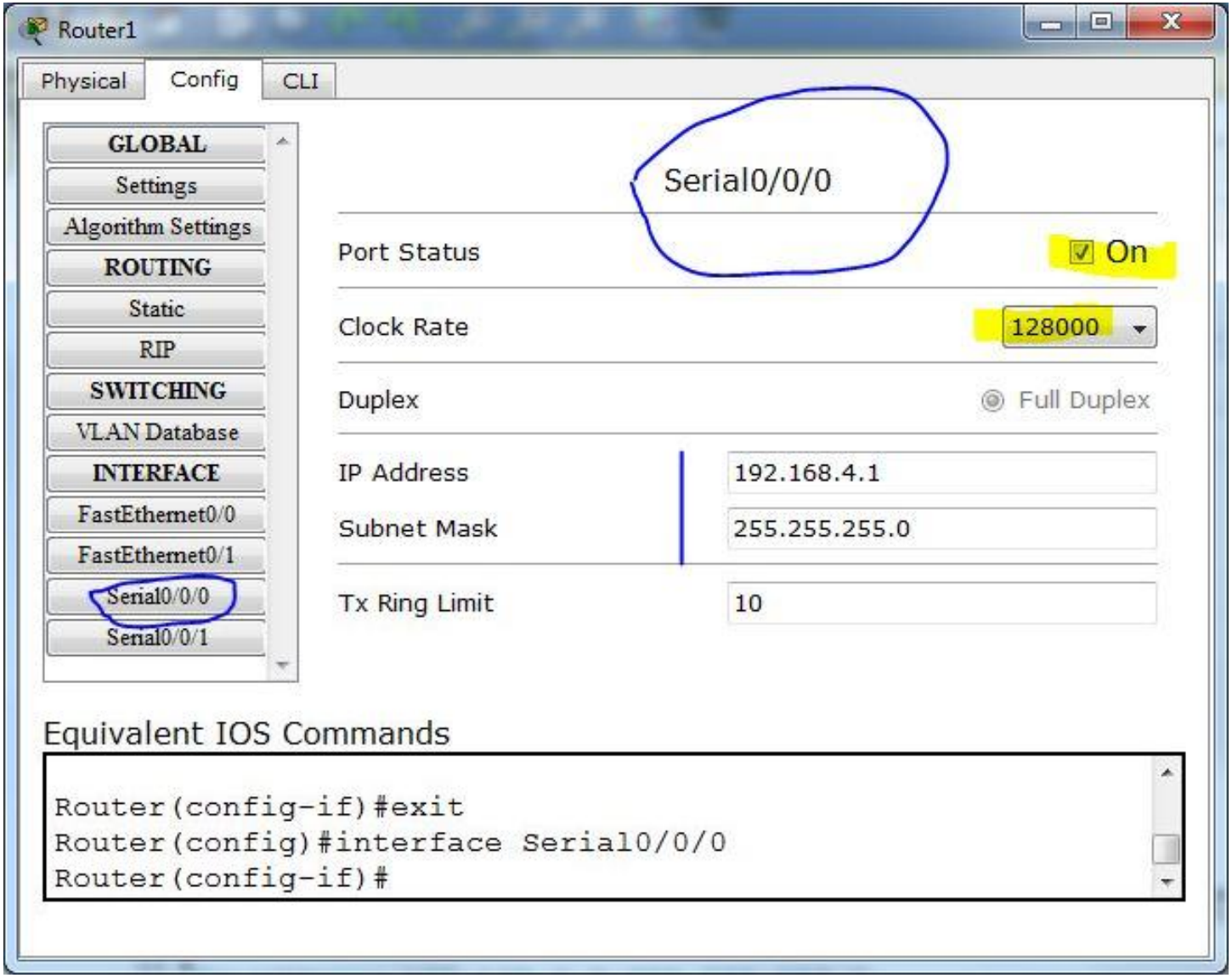
1. Click on Router
2. Click on Fastethernet in Left side button list
3. Now On the Port Status
4. Set IP and Subnet Mask . You Should know which Interface is Connected to which LAN
5. This IP will become Default Gateway of the PCs that LAN which is connected F0/0 interface of Router .

1.Click on Any PC

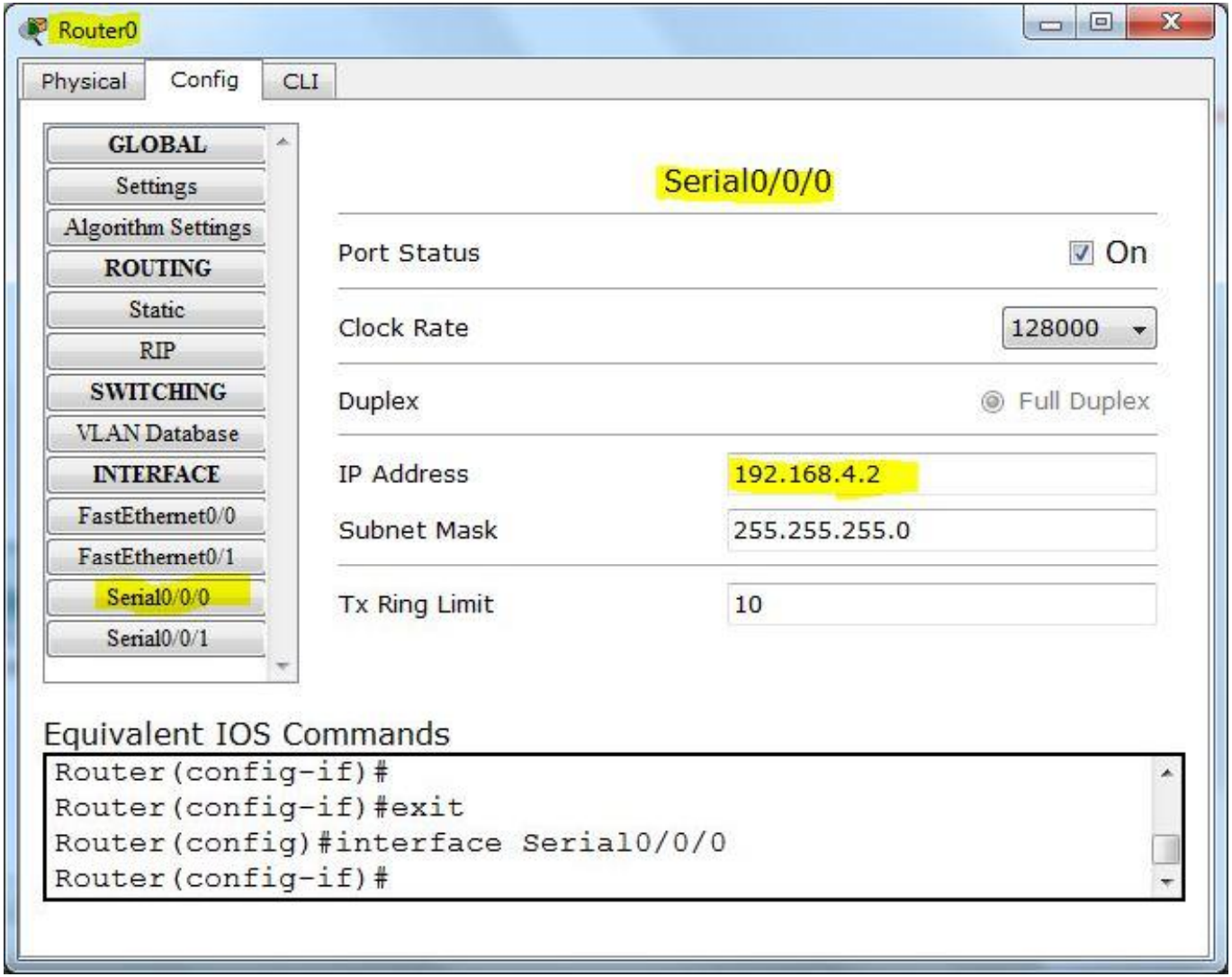
2. Click on Command Prompt


PC0
Physical
Config
Desktop
Command Prompt
X
Packet Tracer PC Command Line 1.0
PC>ping 192.168.2.1
Pinging 192.168.2.1 with 32 bytes of data:
Request timed out.
Reply from 192.168.2.1: bytes=32 time=17ms TTL=127
Reply from 192.168.2.1: bytes=32 time=18ms TTL=127
Reply from 192.168.2.1: bytes=32 time=15ms TTL=127
Ping statistics for 192.168.2.1:
Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
Minimum = 15ms, Maximum = 18ms, Average = 16ms
PC>

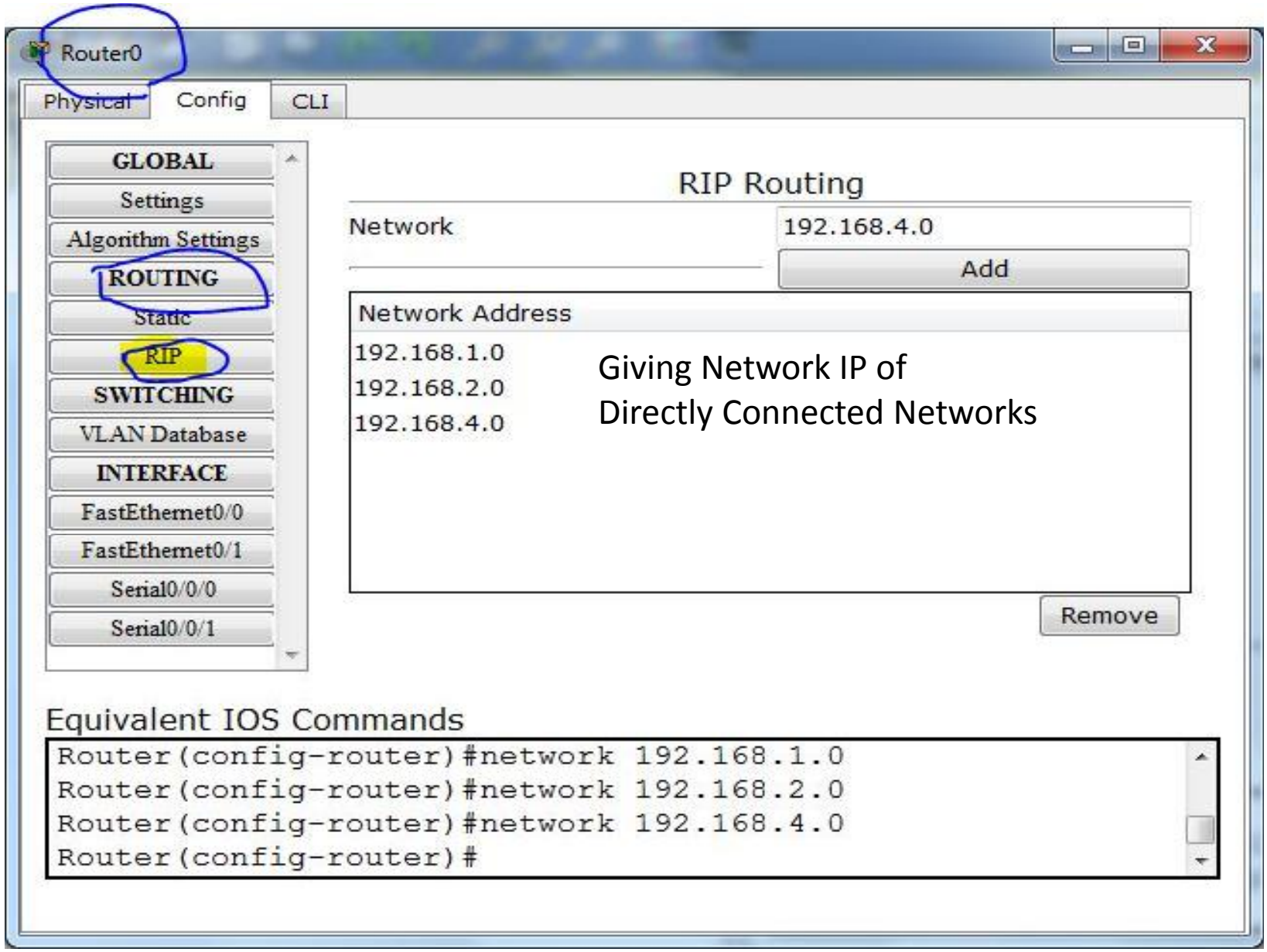

Cisco Packet Tracer
File Edit Options View Tools Extensions Help
Logical
[Root]
New Cluster
Move Object
Set Tiled Background
Viewport
192.168.4.0
network IP: 192.168.1.0
router Interface f0/0
default gateway 192.168.1.254
2811
Router0
network IP: 192.168.2.0
router Interface f0/1
default gateway 192.168.2.254
2811
Router1
network IP: 192.168.3.0
router Interface f0/0
default gateway 192.168.3.254
2960-24TT
Switch0
2960-24TT
Switch1
2960-24TT
Switch2
PC-PT
PC0
PC-PT
PC1
PC-PT
PC2
PC-PT
PC3
PC-PT
PC4
PC-PT
PC5
PC-PT
PC6
To connect 2 Router we'll use Second Last Connection
That is a Serial Link Connection.
PC0
Time: 00:27:45
Power Cycle Devices
Fast Forward Time
Realtime
Connections
Copper Straight-Through
Scenario 0
New
Delete
Toggle PDU List Window
Fire
Last Statu
Source
Destination
Type
Color
Time (sec)
Periodic
Nu

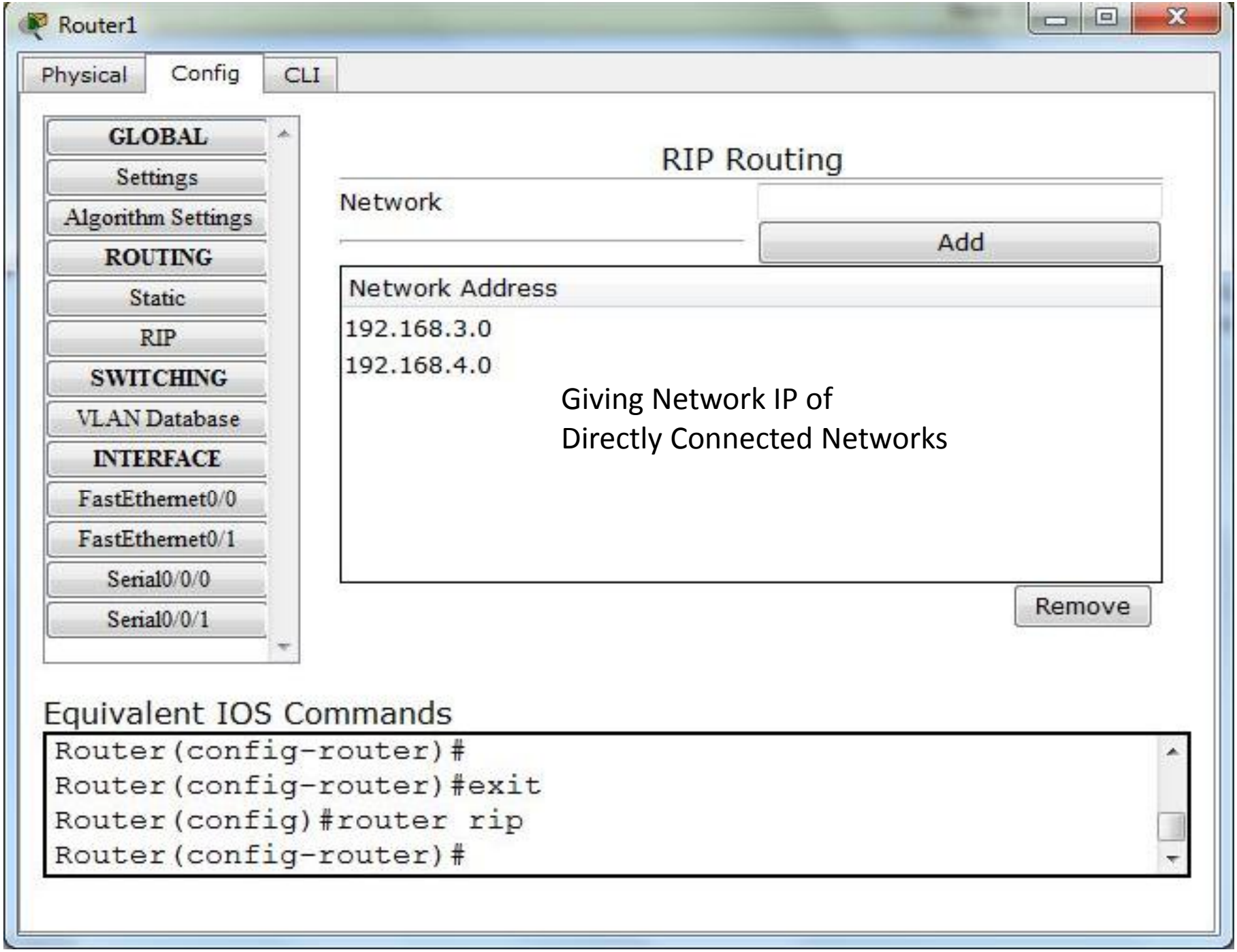


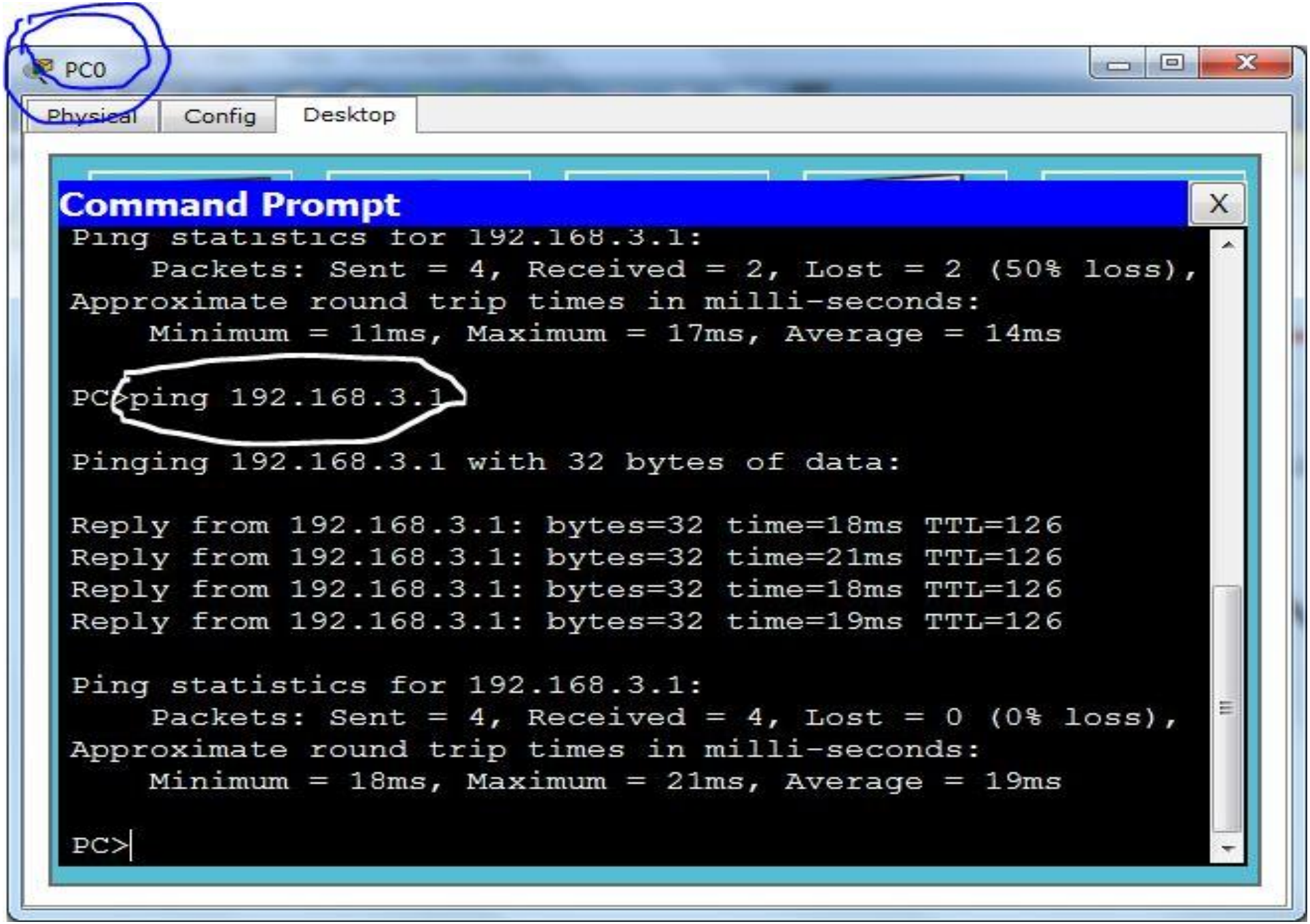
Configuring Serial Port Router 1

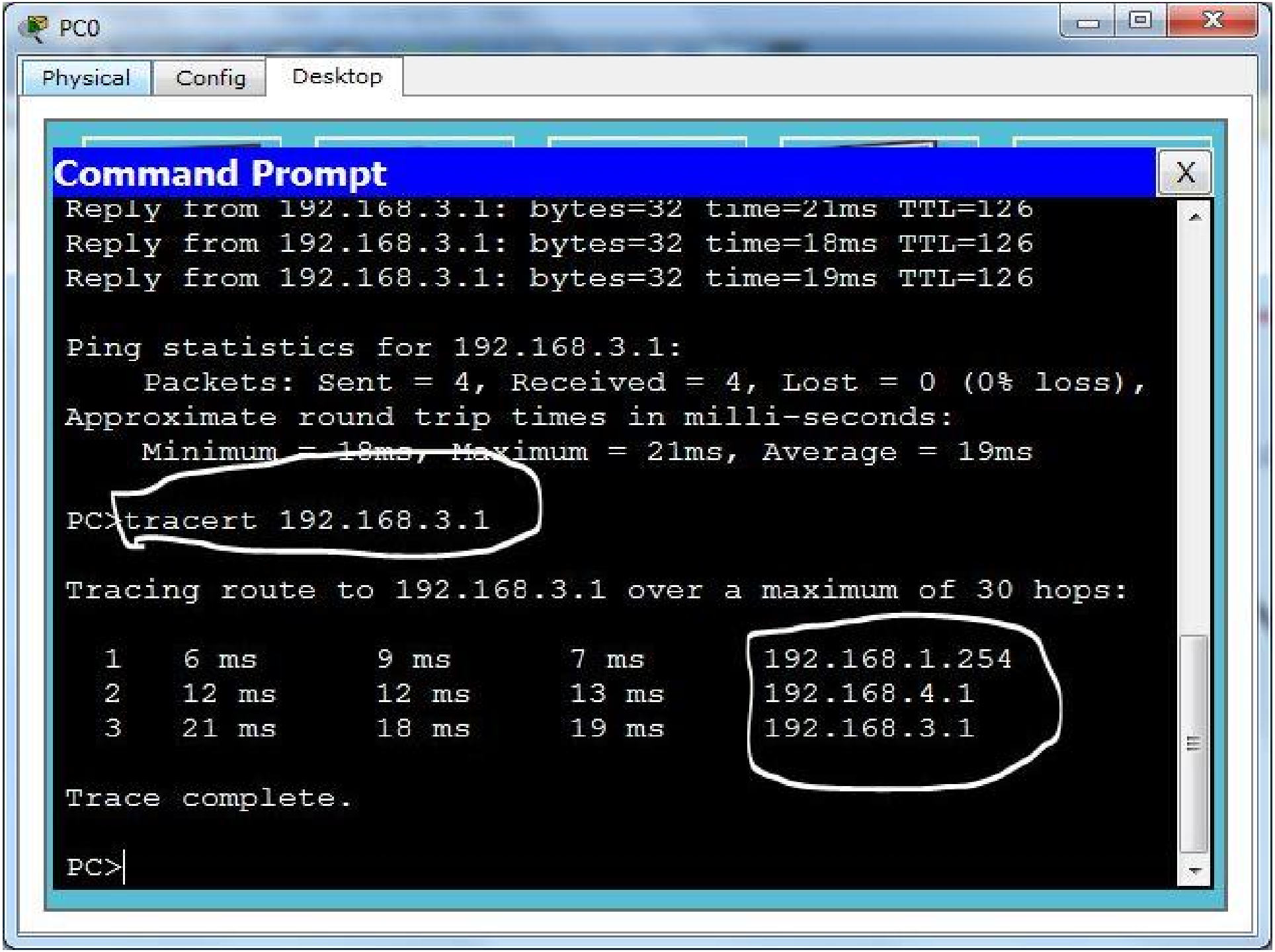


Configuring Serial Port Router 2


Router0
Physical
Config
CLI
GLOBAL
Settings
Algorithm Settings
ROUTING
Static
RIP
SWITCHING
VLAN Database
INTERFACE
FastEthernet0/0
FastEthernet0/1
Serial0/0/0
Serial0/0/1
RIP Routing
Network
192.168.4.0
Add
Network Address
192.168.1.0
192.168.2.0
192.168.4.0
Giving Network IP of
Directly Connected Networks
Remove
Equivalent IOS Commands
Router(config-router)#network 192.168.1.0
Router(config-router)#network 192.168.2.0
Router(config-router)#network 192.168.4.0
Router(config-router)#


Router1
Physical
Config
CLI
GLOBAL
Settings
Algorithm Settings
ROUTING
Static
RIP
SWITCHING
VLAN Database
INTERFACE
FastEthernet0/0
FastEthernet0/1
Serial0/0/0
Serial0/0/1
RIP Routing
Network
Add
Network Address
192.168.3.0
192.168.4.0
Giving Network IP of
Directly Connected Networks
Remove
Equivalent IOS Commands
Router(config-router)#
Router(config-router)#exit
Router(config)#router rip
Router(config-router)#


PC0
Physical
Config
Desktop
Command Prompt
Ping statistics for 192.168.3.1:
Packets: Sent = 4, Received = 2, Lost = 2 (50% loss),
Approximate round trip times in milli-seconds:
Minimum = 11ms, Maximum = 17ms, Average = 14ms
PC>ping 192.168.3.1
Pinging 192.168.3.1 with 32 bytes of data:
Reply from 192.168.3.1: bytes=32 time=18ms TTL=126
Reply from 192.168.3.1: bytes=32 time=21ms TTL=126
Reply from 192.168.3.1: bytes=32 time=18ms TTL=126
Reply from 192.168.3.1: bytes=32 time=19ms TTL=126
Ping statistics for 192.168.3.1:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 18ms, Maximum = 21ms, Average = 19ms
PC>


PC0
Physical
Config
Desktop
Command Prompt
Reply from 192.168.3.1: bytes=32 time=21ms TTL=126
Reply from 192.168.3.1: bytes=32 time=18ms TTL=126
Reply from 192.168.3.1: bytes=32 time=19ms TTL=126
Ping statistics for 192.168.3.1:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 18ms, Maximum = 21ms, Average = 19ms
PC>tracert 192.168.3.1
Tracing route to 192.168.3.1 over a maximum of 30 hops:
1 6 ms 9 ms 7 ms 192.168.1.254
2 12 ms 12 ms 13 ms 192.168.4.1
3 21 ms 18 ms 19 ms 192.168.3.1
Trace complete.
PC>