



NETWORKING INFRASTRUCTURE

ASSIGNMENT

MARCH 2017

Sydney Twigg
M8C3XRSN8

CONTENTS

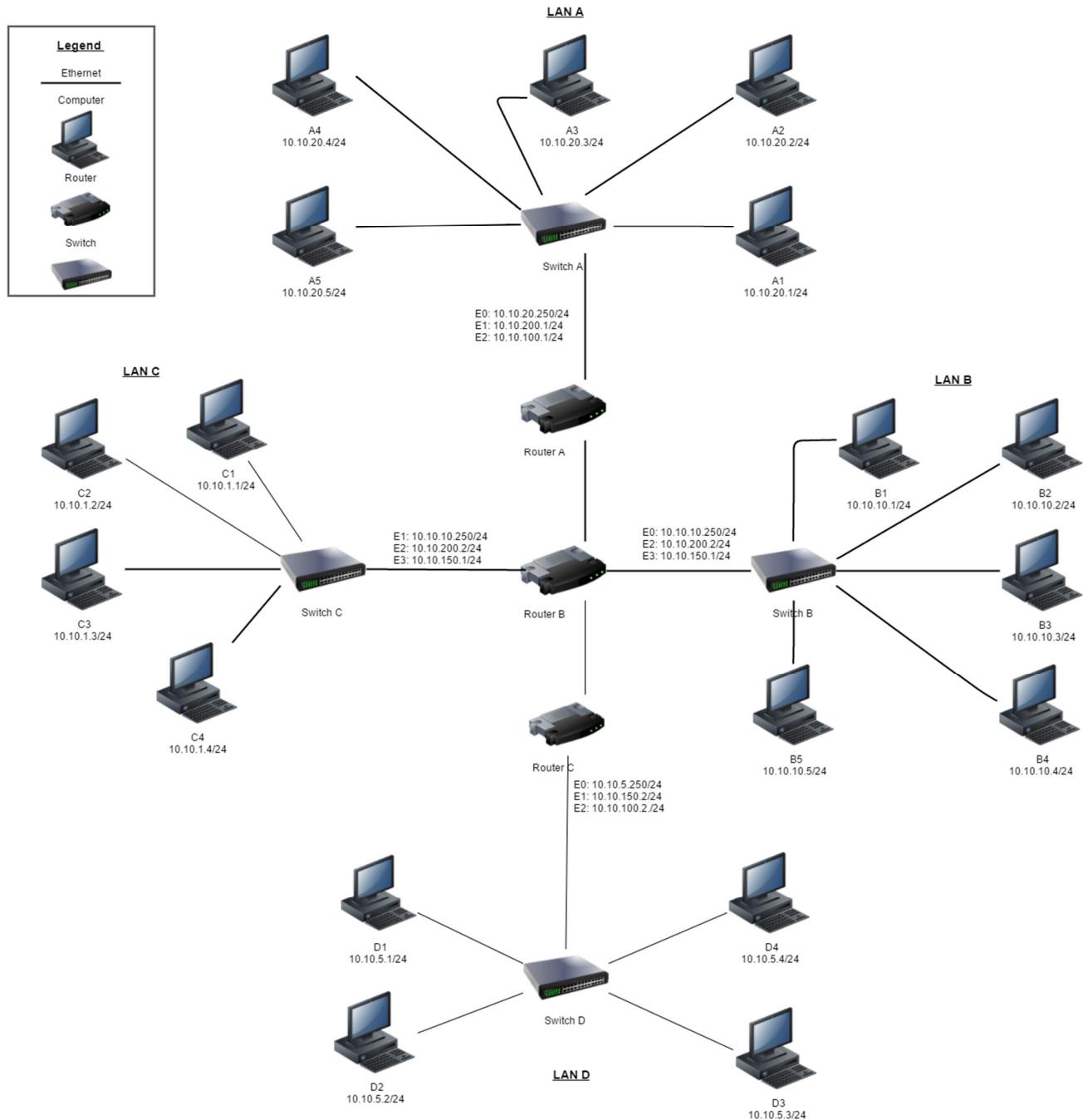
QUESTION 1	4
LOGICAL DIAGRAM.....	4
PACKET TRACER SCREENSHOT.....	5
QUESTION 2	6
NETWORK OVERVIEW.....	6
PACKET TRACER FILE LINK	7
ROUTER OVERVIEW.....	7
BUILDING 1	8
BUILDING LAN	8
SERVER IP CONFIGURATION	8
DHCP CONFIGURATION	9
PC IP CONFIGURATION	9
PRINTER IP CONFIGURATION	10
ACCESS POINT CONFIGURATION.....	10
ROUTER RIP ADDRESSING.....	11
FAST ETHERNET 0/0 PORT CONFIGURATION	11
SERIAL 2/0 PORT CONFIGURATION.....	12
SERIAL 3/0 PORT CONFIGURATION.....	12
SERIAL 7/0 PORT CONFIGURATION.....	13
BUILDING 2	14
BUILDING LAN	14
SERVER IP CONFIGURATION	14
DHCP CONFIGURATION	15
PC IP CONFIGURATION	15
PRINTER IP CONFIGURATION	16
ACCESS POINT CONFIGURATION.....	16
ROUTER RIP ADDRESSING.....	17
FAST ETHERNET 0/0 PORT CONFIGURATION	17
SERIAL 2/0 PORT CONFIGURATION.....	18
SERIAL 3/0 PORT CONFIGURATION.....	18
SERIAL 7/0 PORT CONFIGURATION.....	19
BUILDING 3	20
BUILDING LAN	20
SERVER IP CONFIGURATION	20
DHCP CONFIGURATION.....	21
PC IP CONFIGURATION.....	21
PRINTER IP CONFIGURATION.....	22

ACCESS POINT CONFIGURATION	22
ROUTER RIP ADDRESSING	23
FAST ETHERNET 0/0 PORT CONFIGURATION	23
SERIAL 2/0 PORT CONFIGURATION	24
SERIAL 3/0 PORT CONFIGURATION	24
SERIAL 6/0 PORT CONFIGURATION	25
BUILDING 4	26
BUILDING LAN	26
SERVER IP CONFIGURATION	26
DHCP CONFIGURATION	27
PC IP CONFIGURATION	27
PRINTER IP CONFIGURATION	28
ACCESS POINT CONFIGURATION	28
ROUTER RIP ADDRESSING	29
FAST ETHERNET 0/0 PORT CONFIGURATION	29
SERIAL 2/0 PORT CONFIGURATION	30
SERIAL 3/0 PORT CONFIGURATION	30
SERIAL 6/0 PORT CONFIGURATION	31
BUILDING 5	32
BUILDING LAN	32
SERVER IP CONFIGURATION	32
DHCP CONFIGURATION	33
PC IP CONFIGURATION	33
PRINTER IP CONFIGURATION	34
ACCESS POINT CONFIGURATION	34
ROUTER RIP ADDRESSING	35
FAST ETHERNET 0/0 PORT CONFIGURATION	35
SERIAL 2/0 PORT CONFIGURATION	36
SERIAL 3/0 PORT CONFIGURATION	36
SERIAL 6/0 PORT CONFIGURATION	37
BUILDING 6	38
BUILDING LAN	38
SERVER IP CONFIGURATION	38
DHCP CONFIGURATION	39
PC IP CONFIGURATION	39
PRINTER IP CONFIGURATION	40
ACCESS POINT CONFIGURATION	40
ROUTER RIP ADDRESSING	41

FAST ETHERNET 0/0 PORT CONFIGURATION	41
SERIAL 2/0 PORT CONFIGURATION.....	42
SERIAL 3/0 PORT CONFIGURATION.....	42
SERIAL 6/0 PORT CONFIGURATION.....	43
REFERENCE EXPLANATIONS:	43
QUESTION 3	44
ROUTERS.....	44
BUILDING 1	50
BUILDING 2	51
BUILDING 3	52
BUILDING 4	53
BUILDING 5	54
BUILDING 6	55
QUESTION 4	56
QUESTION 4.1.....	56
QUESTION 4.2.....	65
REFERENCES.....	70

QUESTION 1

LOGICAL DIAGRAM



Screenshot showing a logical network diagram. Created using: Draw.io.

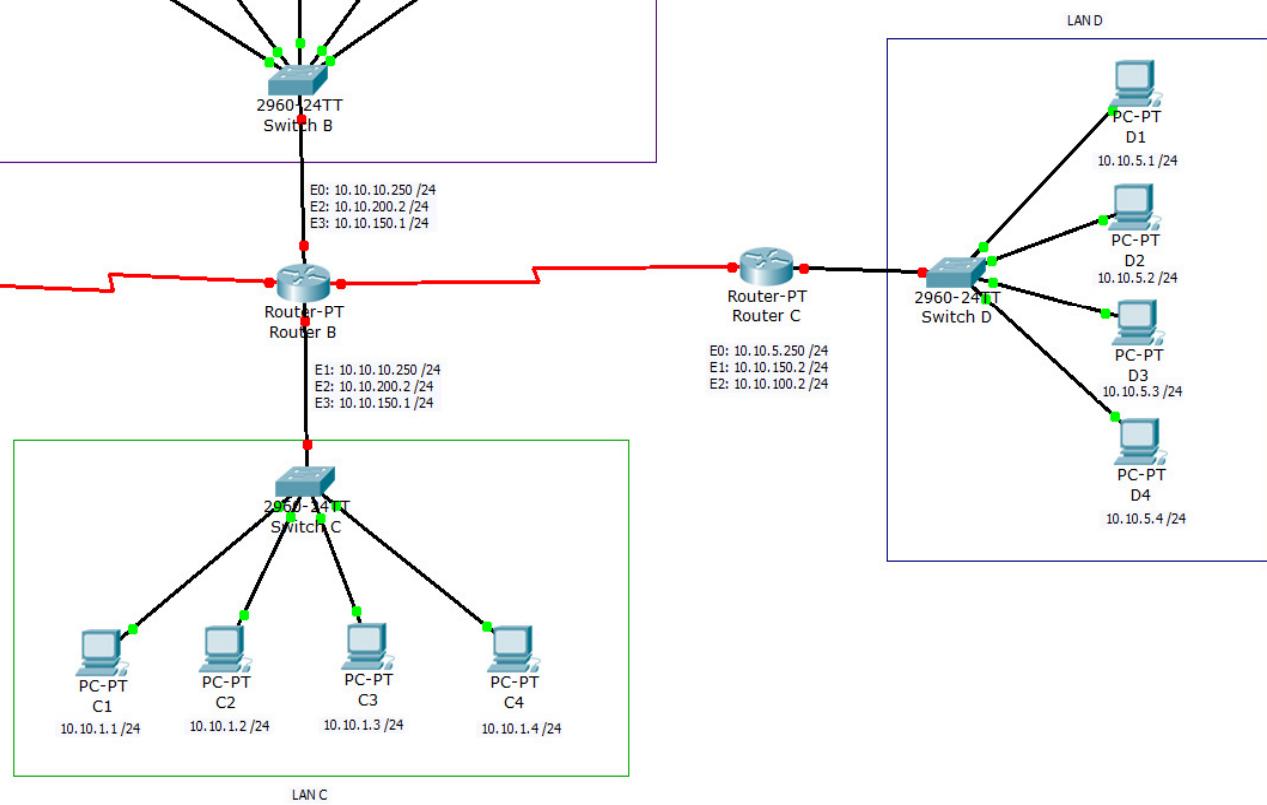
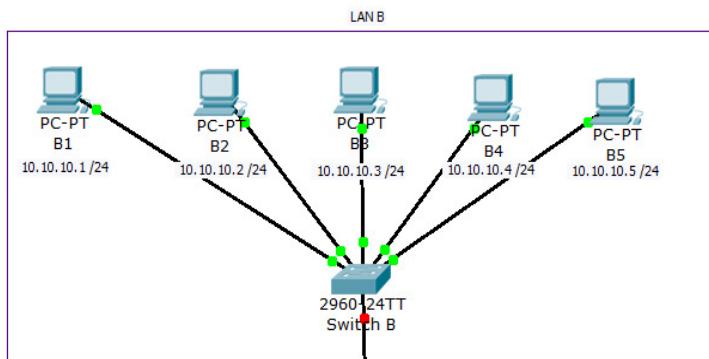
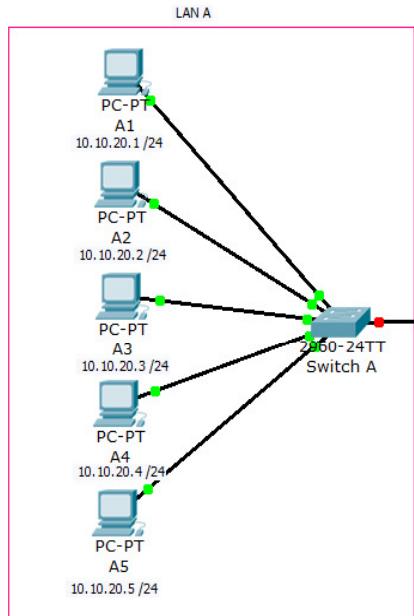
Sources cited in the creation of a logical network diagram: (Rautanen, 2013) (Lucid Software Inc., 2017) (Elhamidi, 2014).

PACKET TRACER SCREENSHOT

NETWORKING INFRASTRUCTURE
ASSIGNMENT
QUESTION 1

LOGICAL DIAGRAM

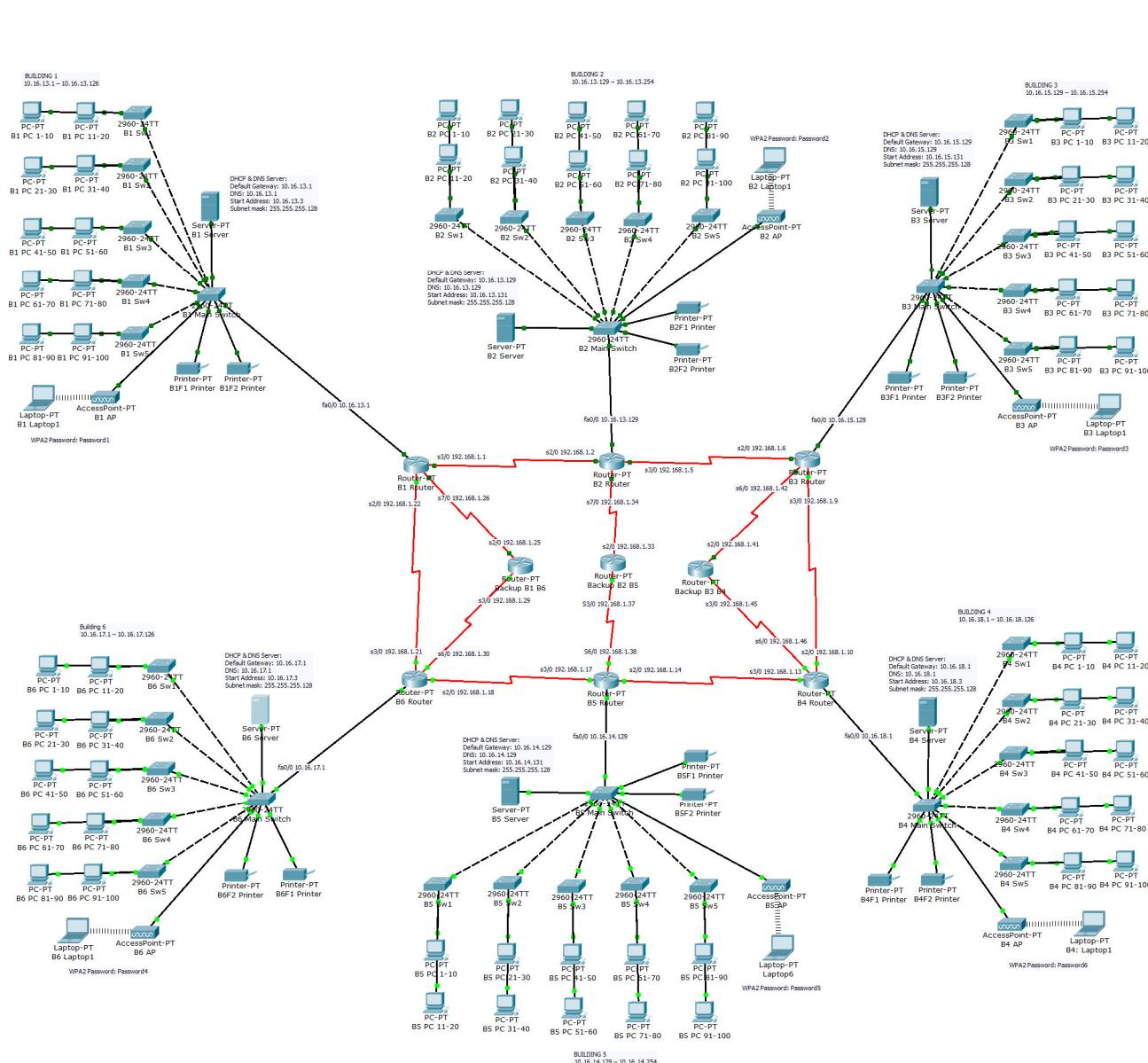
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Screenshot showing Cisco Packet Tracer network diagram.

QUESTION 2

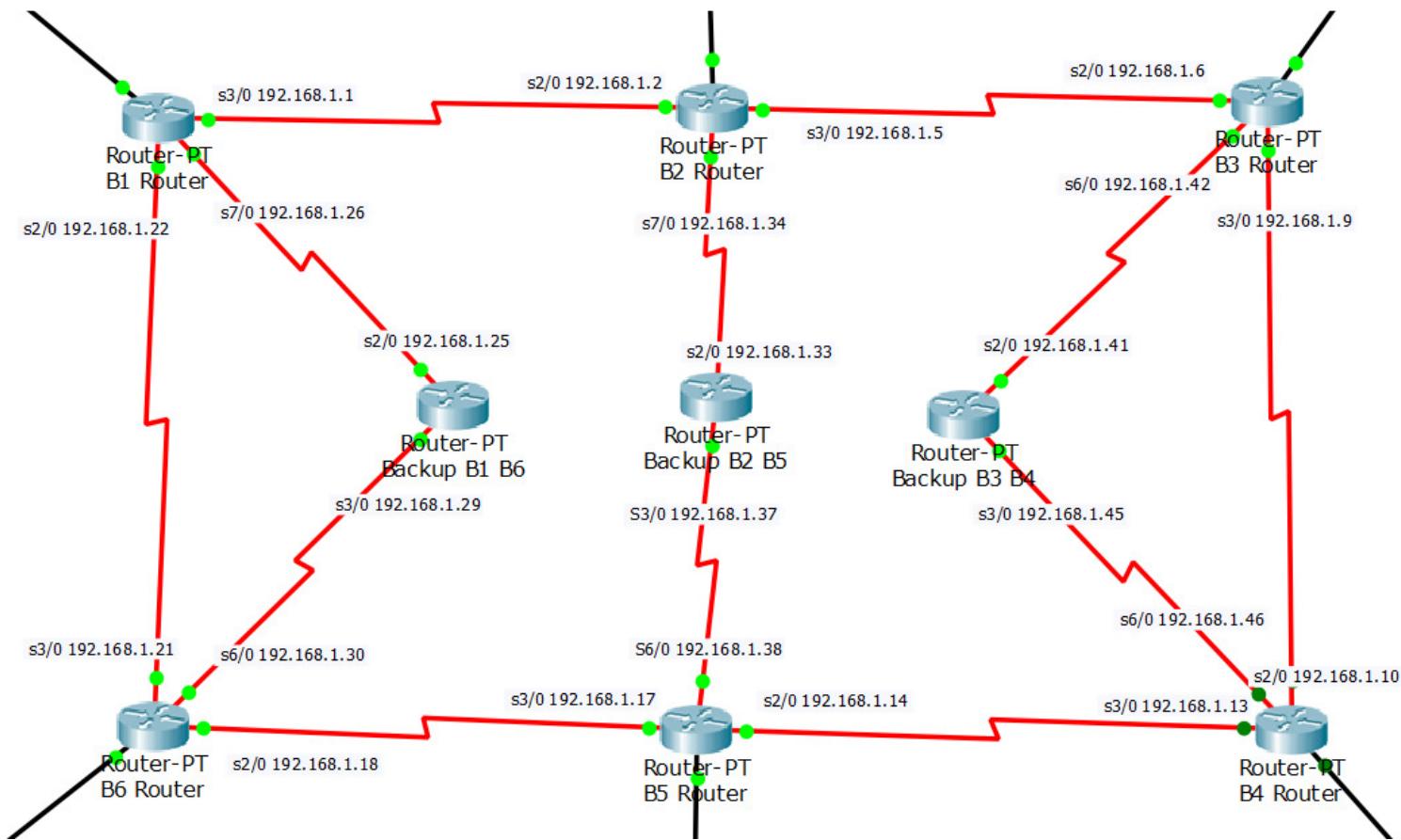
NETWORK OVERVIEW



PACKET TRACER FILE LINK

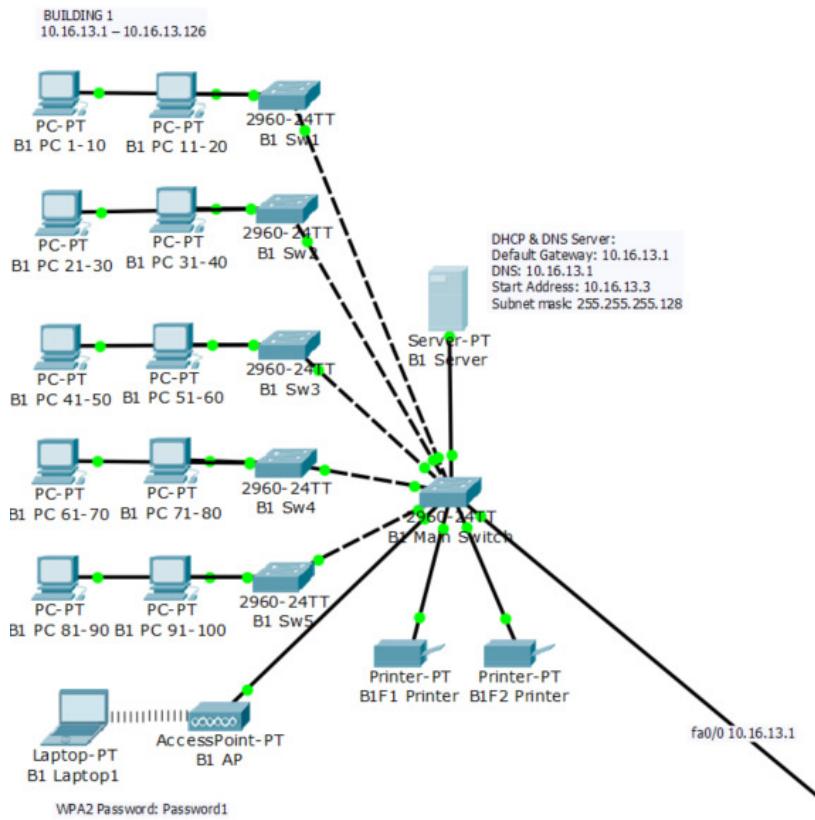
The packet tracer file is available for download on Google Drive: <https://drive.google.com/open?id=0B2rwUggUYSOaeExpLWVEbnBjRDg>
Note that file will also be emailed to lecturer.

ROUTER OVERVIEW

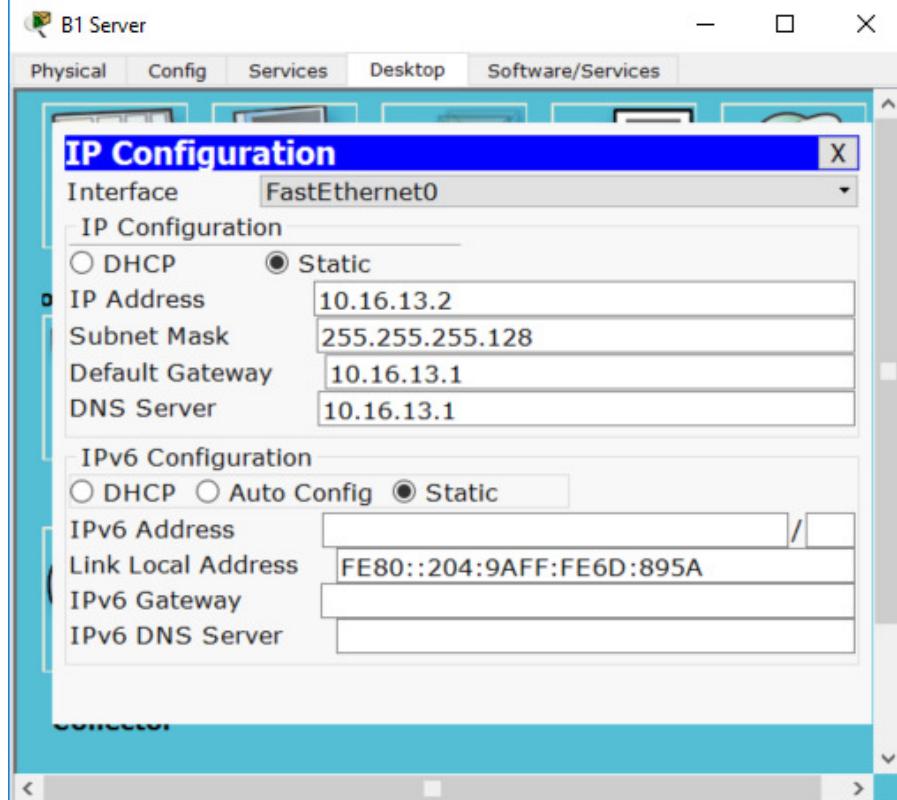


BUILDING 1

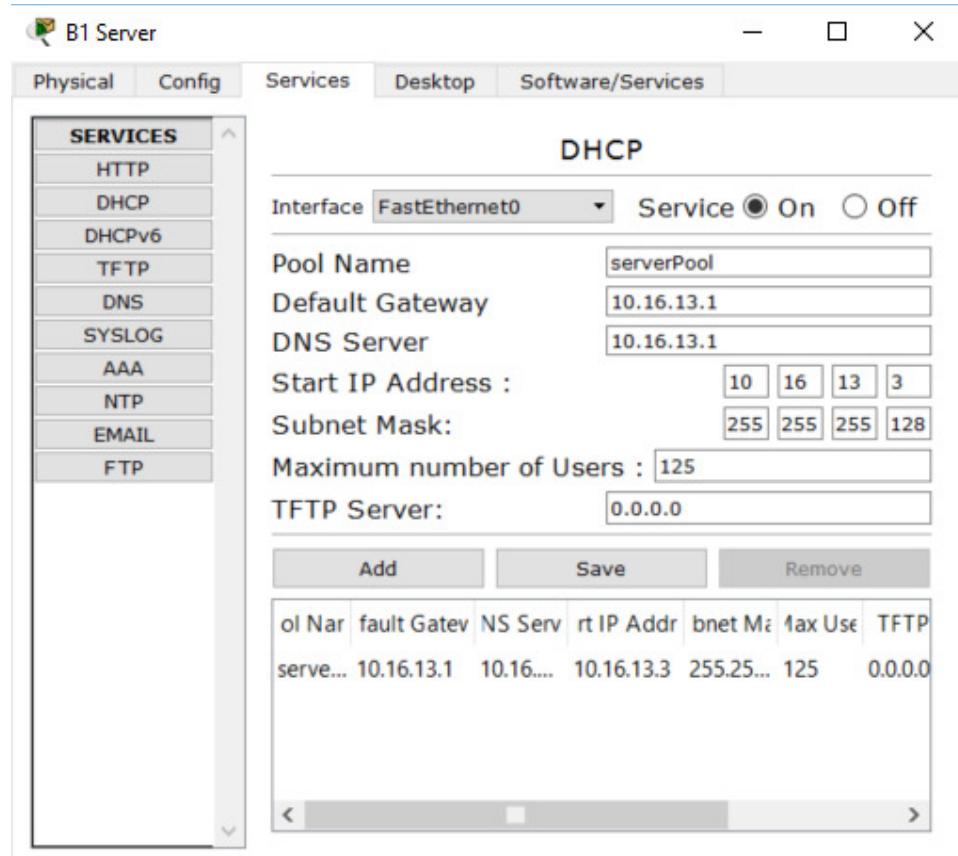
BUILDING LAN



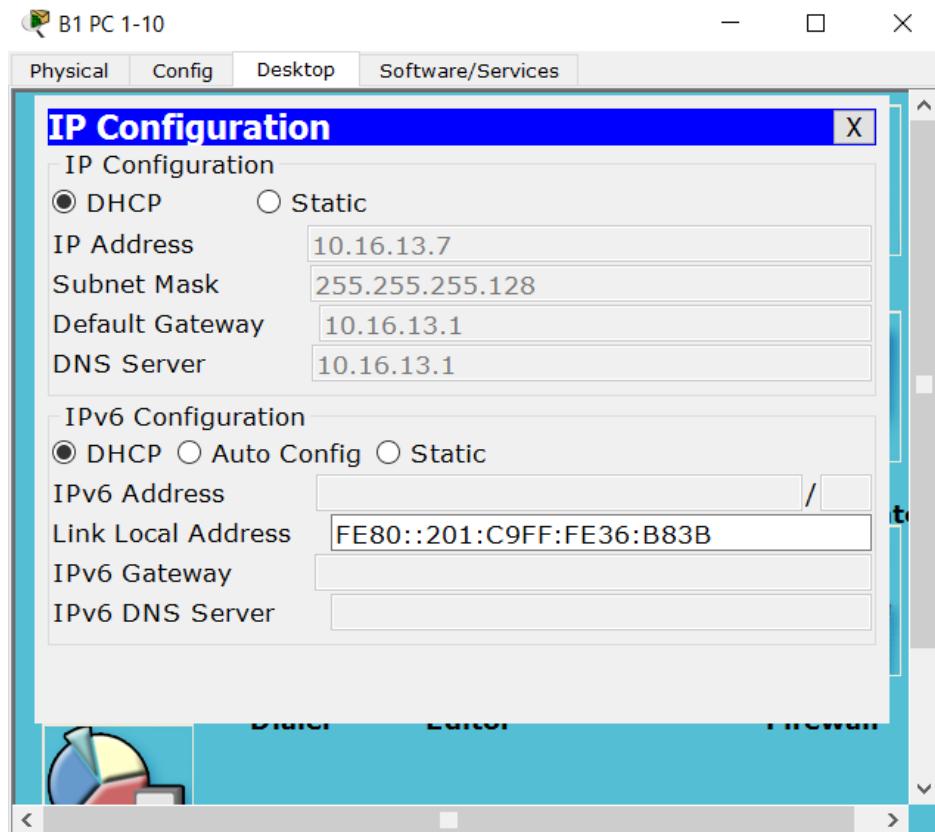
SERVER IP CONFIGURATION



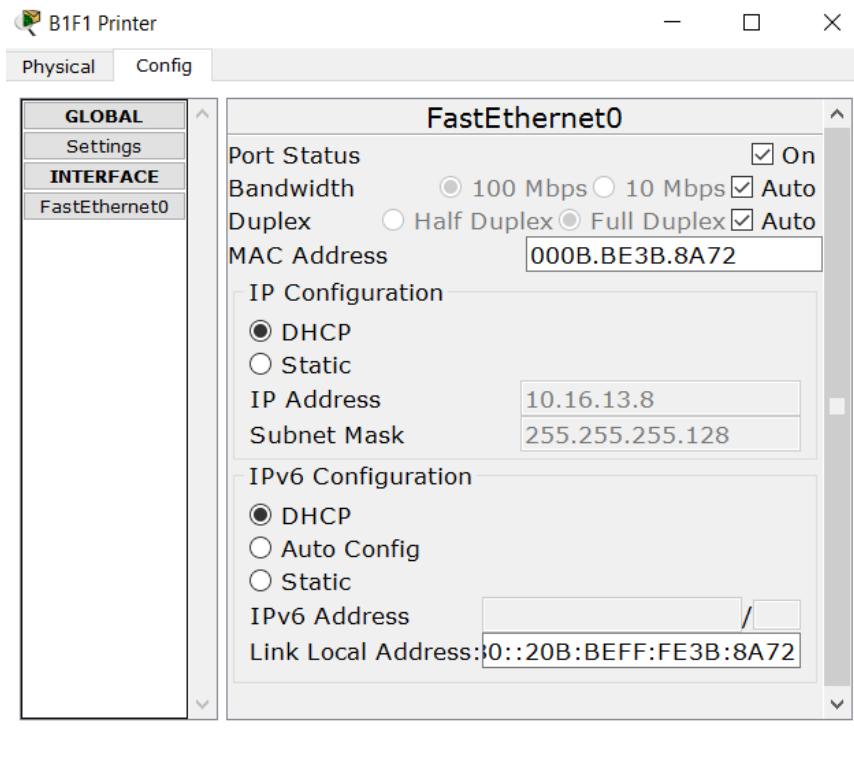
DHCP CONFIGURATION



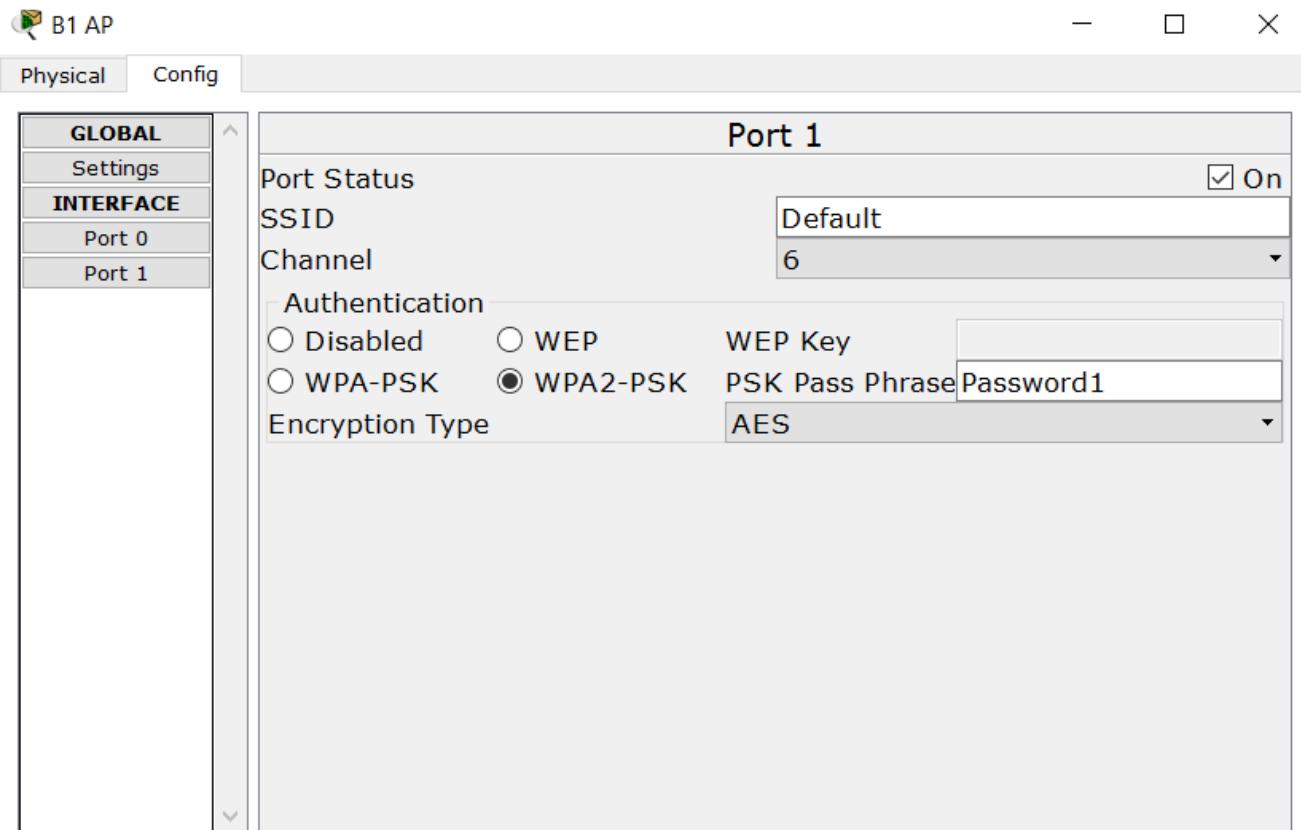
PC IP CONFIGURATION



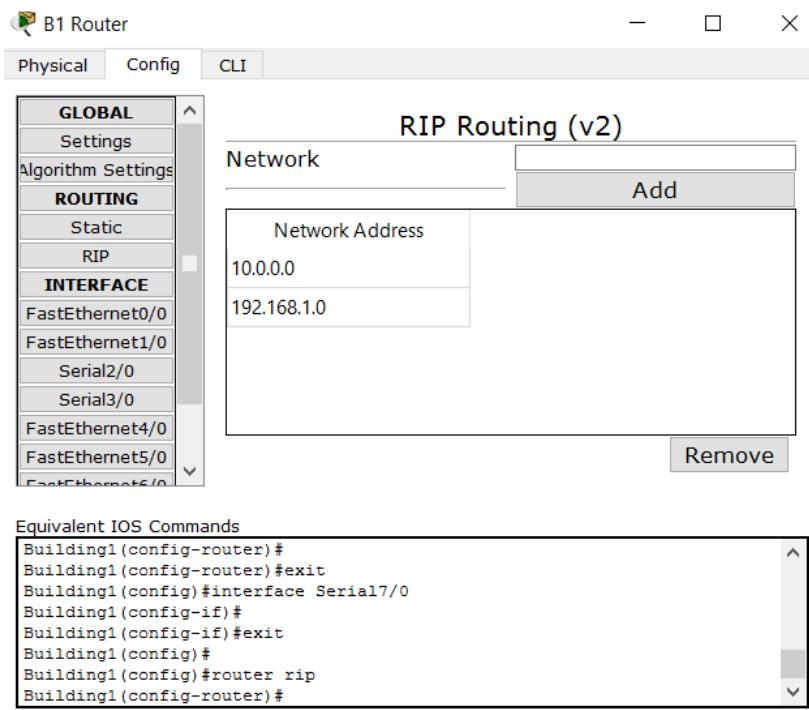
PRINTER IP CONFIGURATION



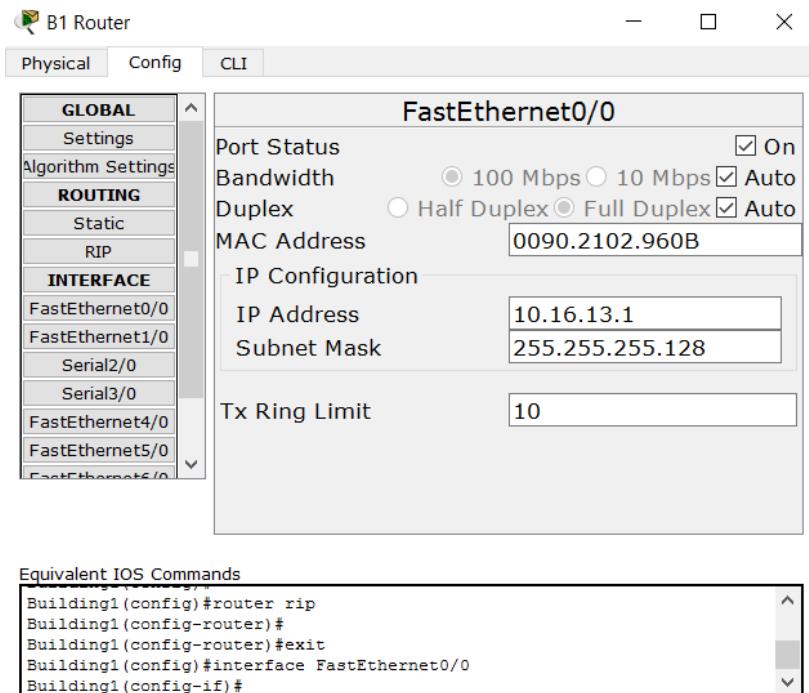
ACCESS POINT CONFIGURATION



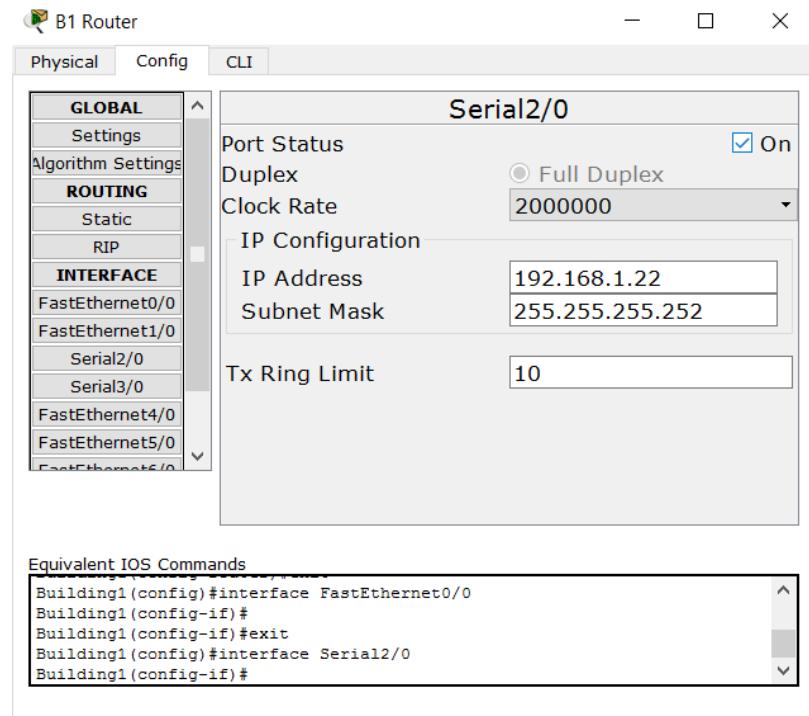
ROUTER RIP ADDRESSING



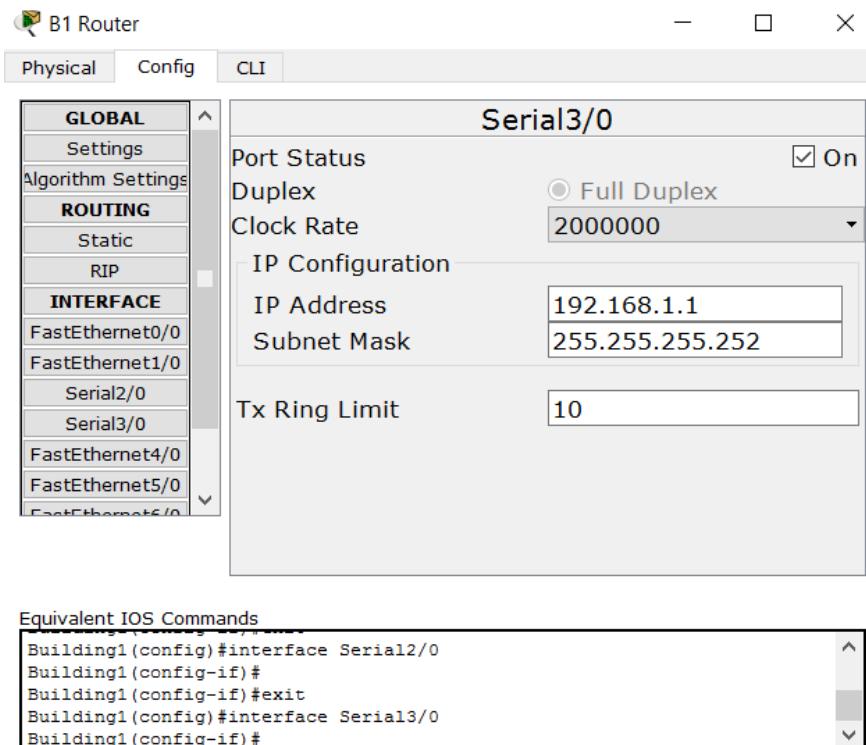
FAST ETHERNET 0/0 PORT CONFIGURATION



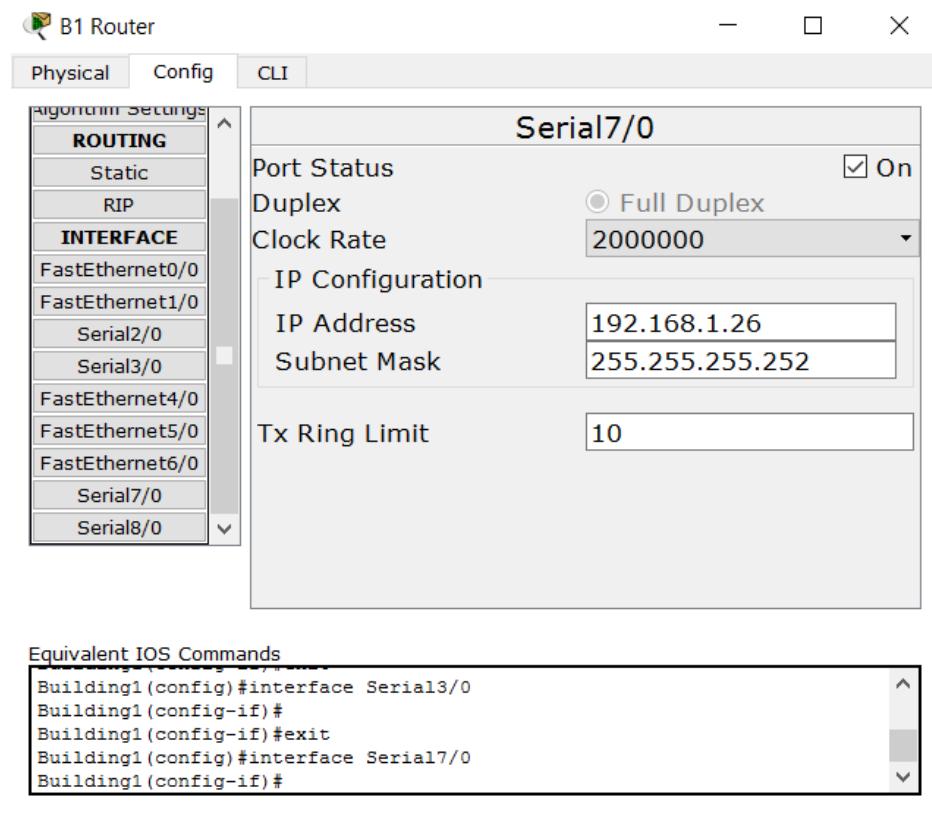
SERIAL 2/0 PORT CONFIGURATION



SERIAL 3/0 PORT CONFIGURATION

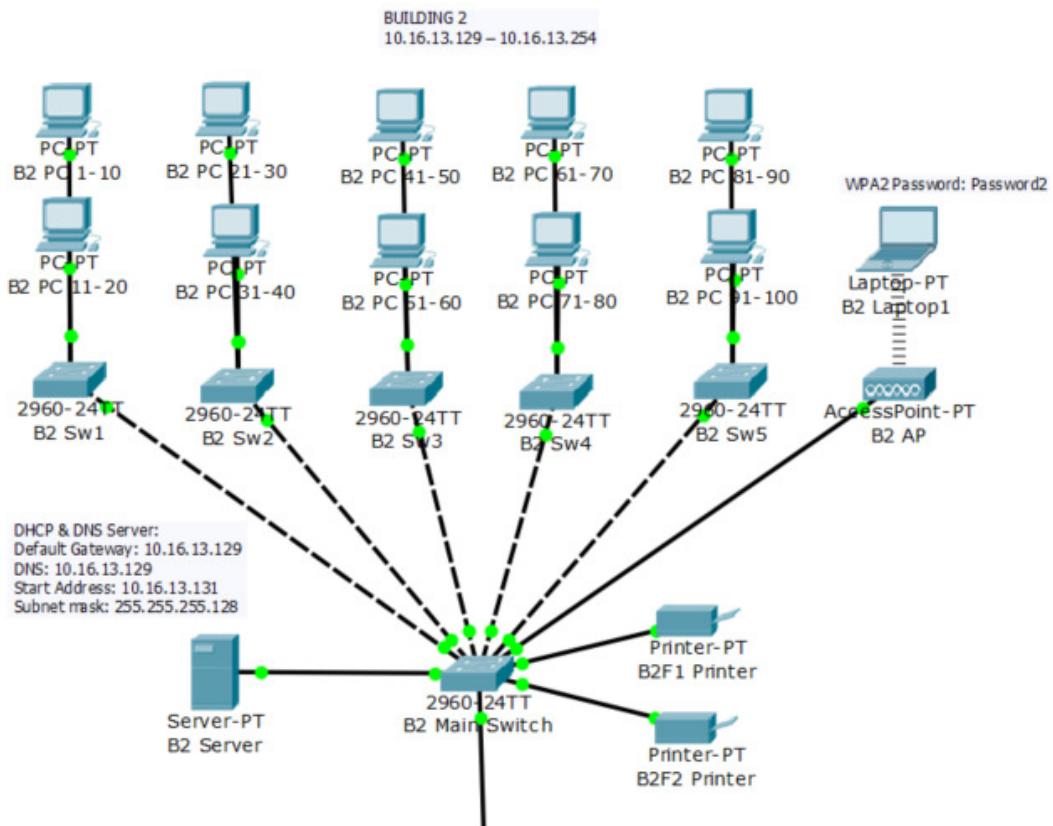


SERIAL 7/0 PORT CONFIGURATION

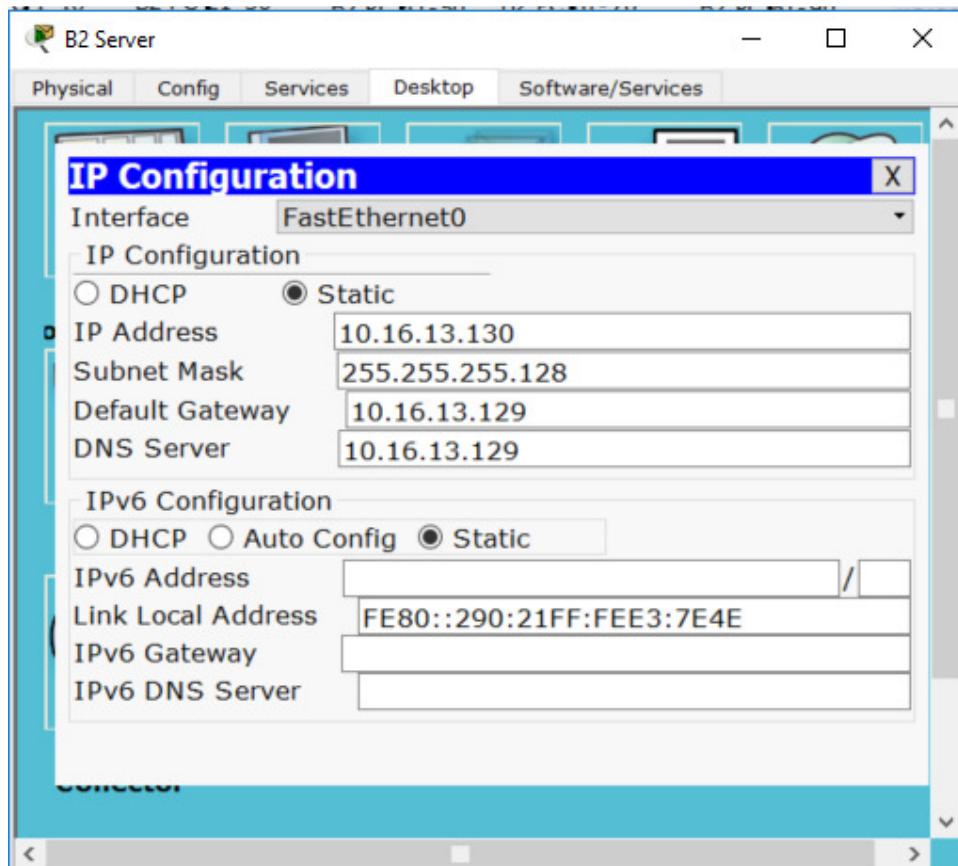


BUILDING 2

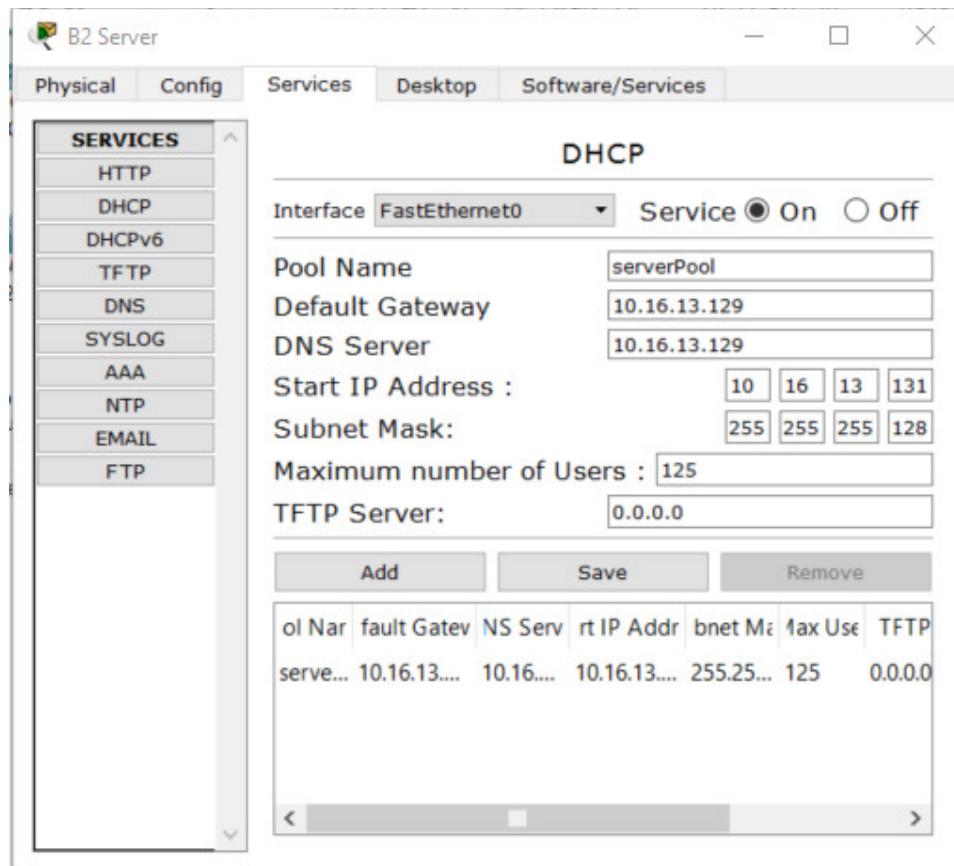
BUILDING LAN



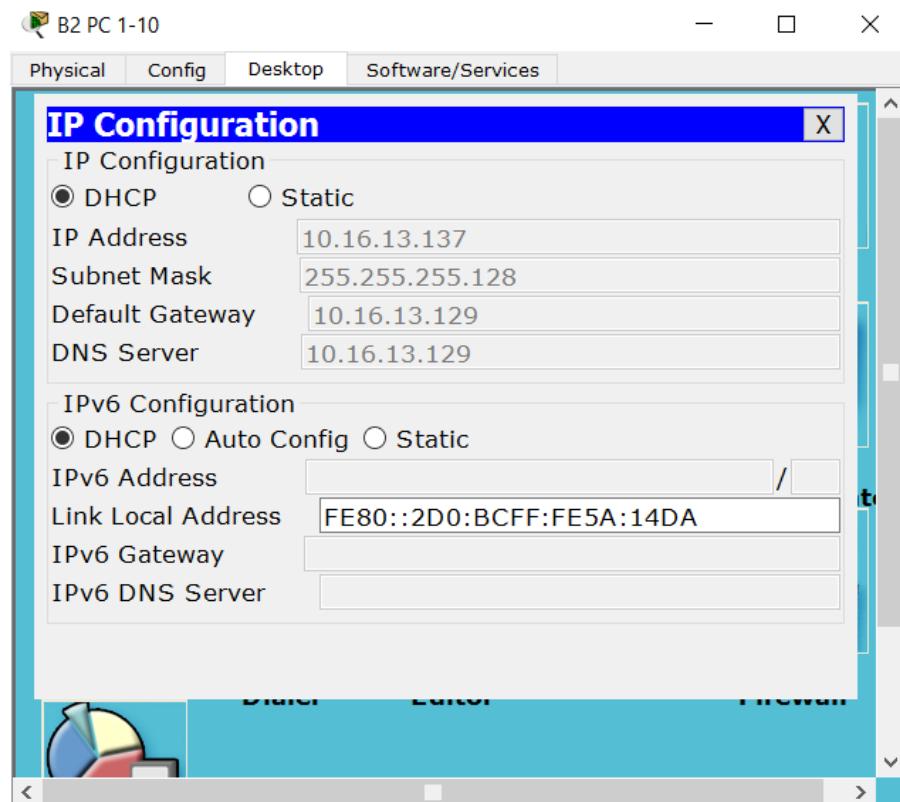
SERVER IP CONFIGURATION



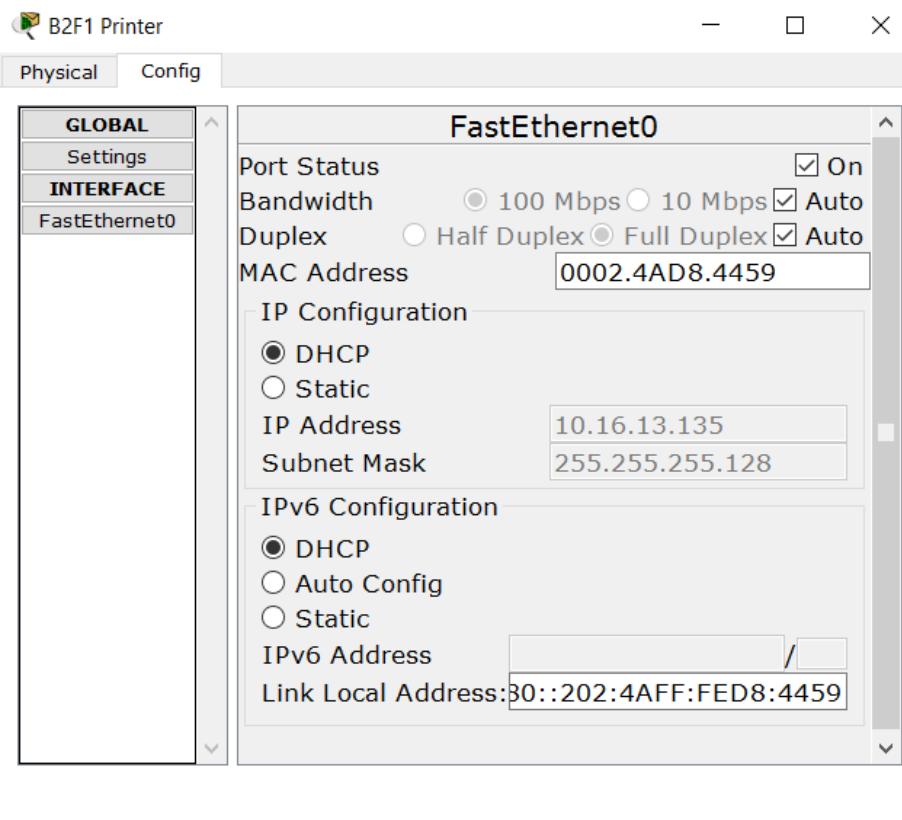
DHCP CONFIGURATION



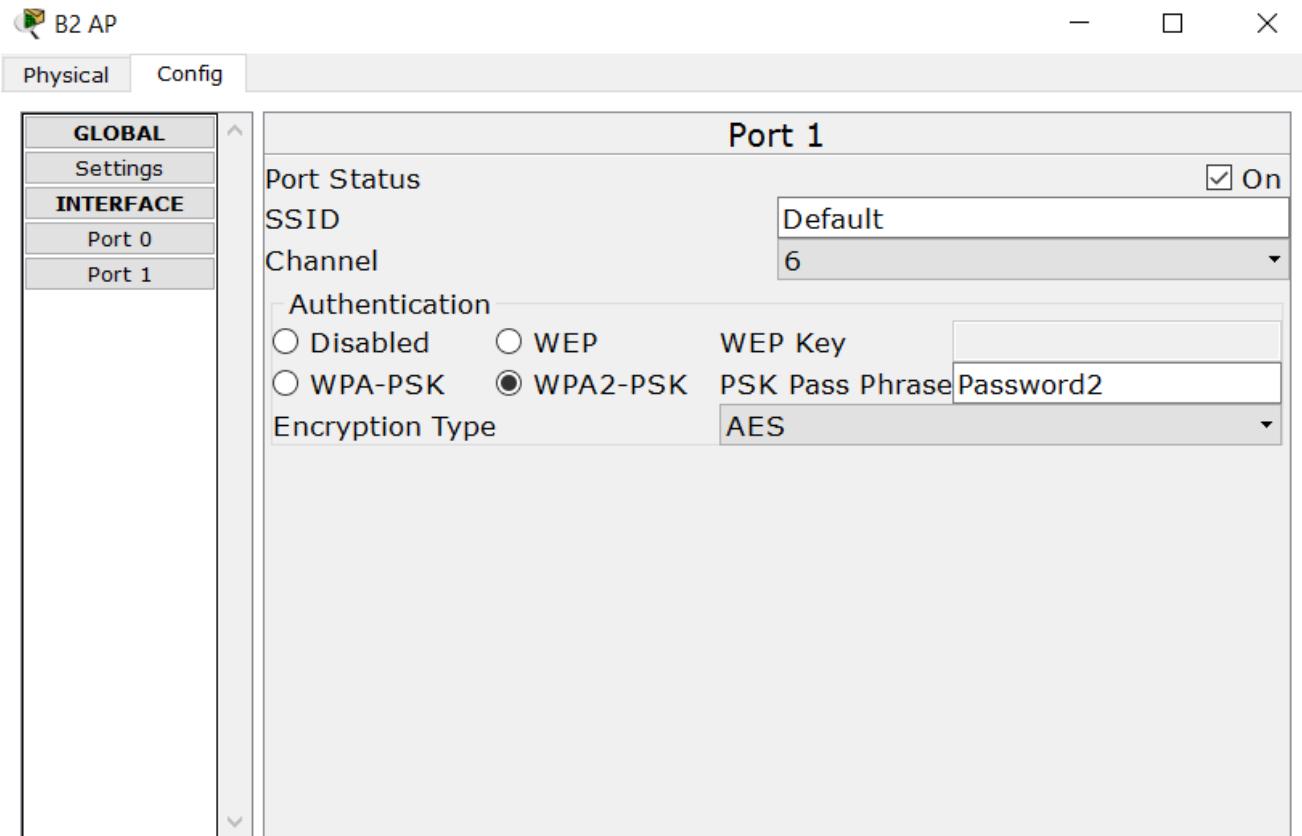
PC IP CONFIGURATION



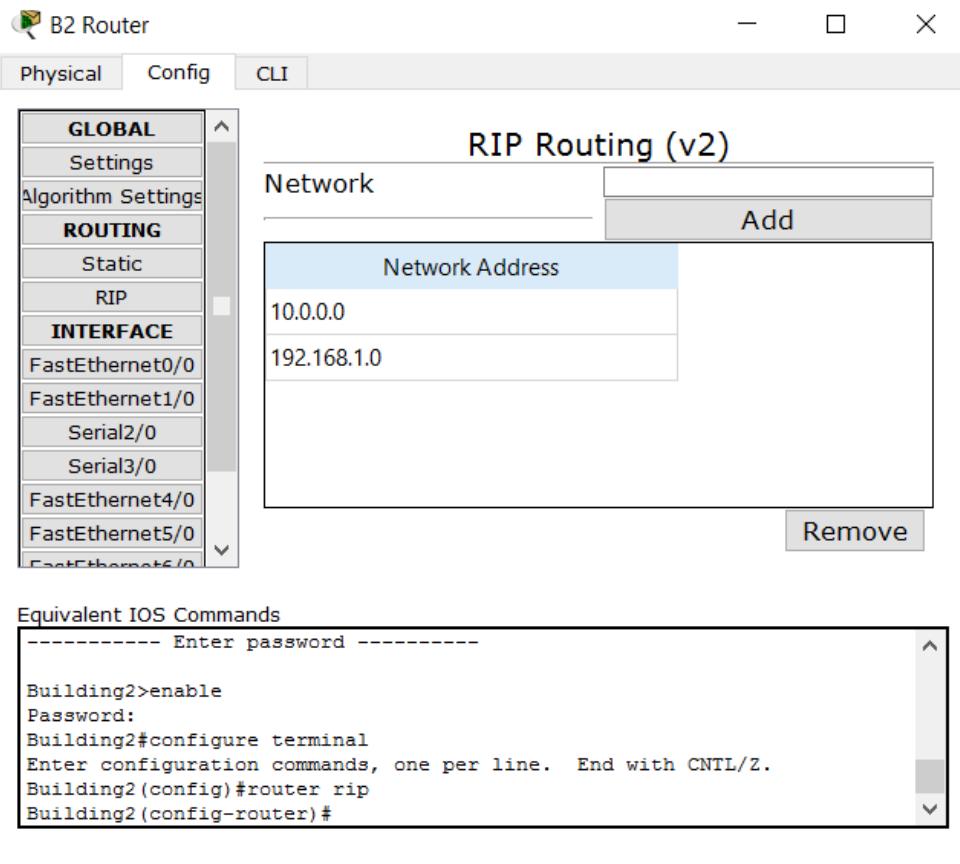
PRINTER IP CONFIGURATION



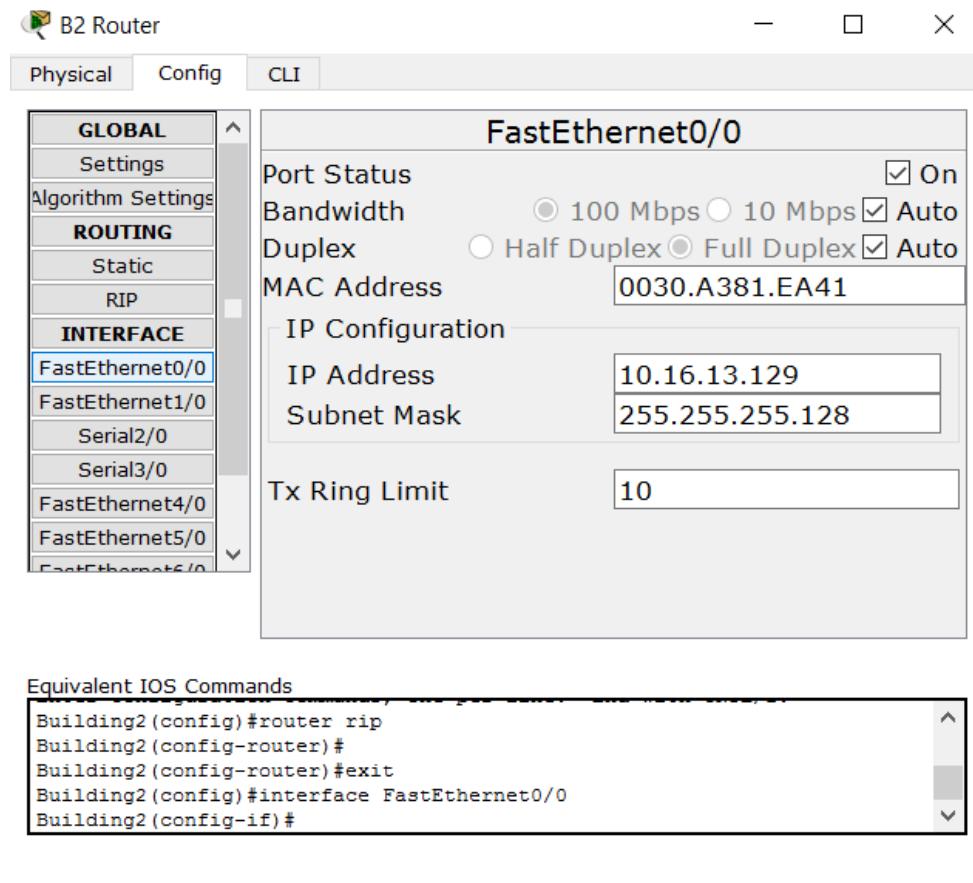
ACCESS POINT CONFIGURATION



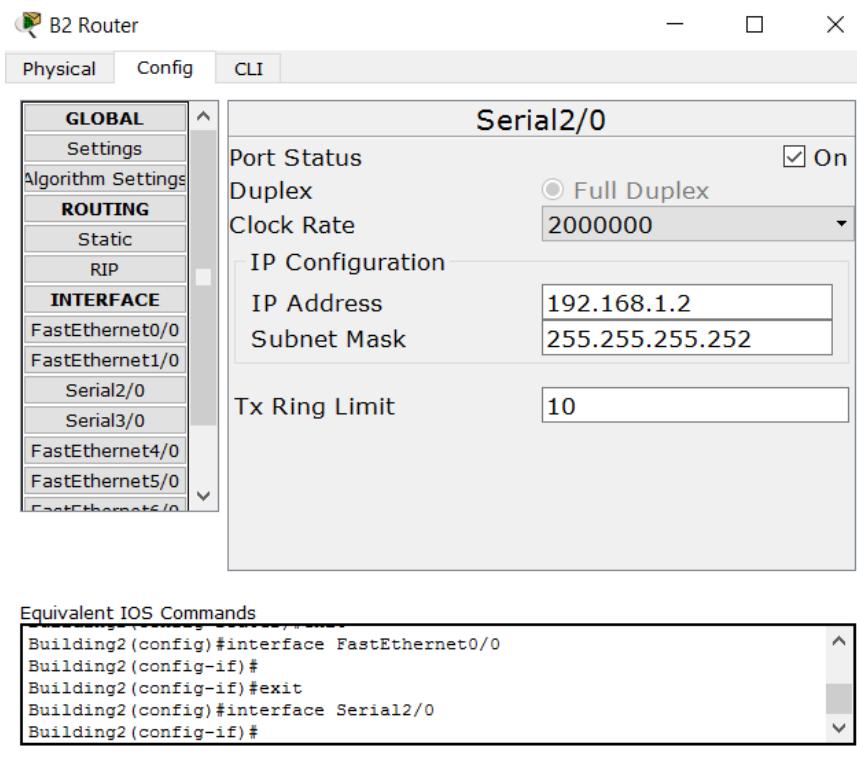
ROUTER RIP ADDRESSING



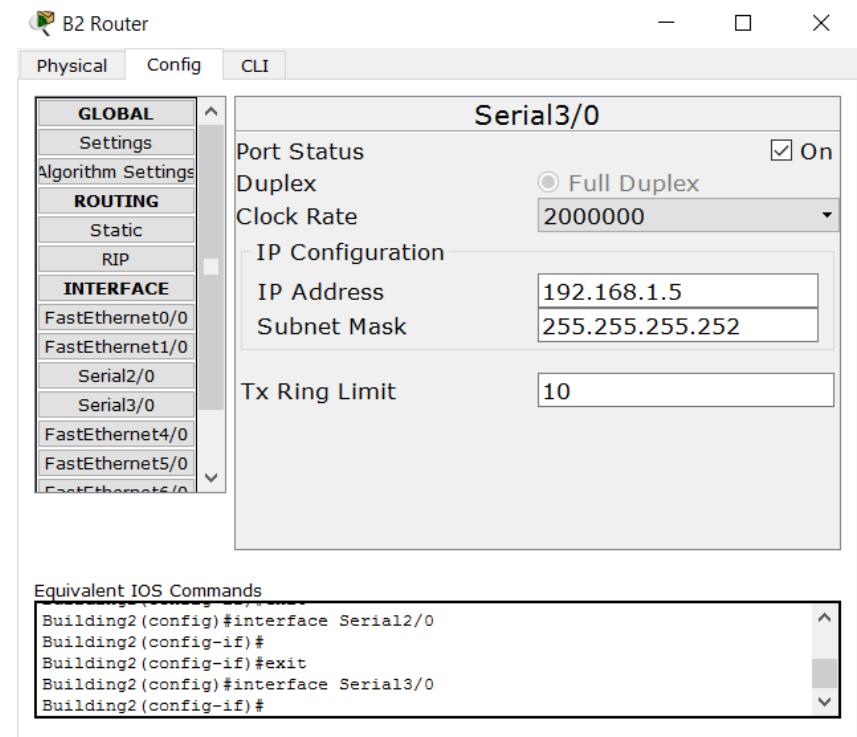
FAST ETHERNET 0/0 PORT CONFIGURATION



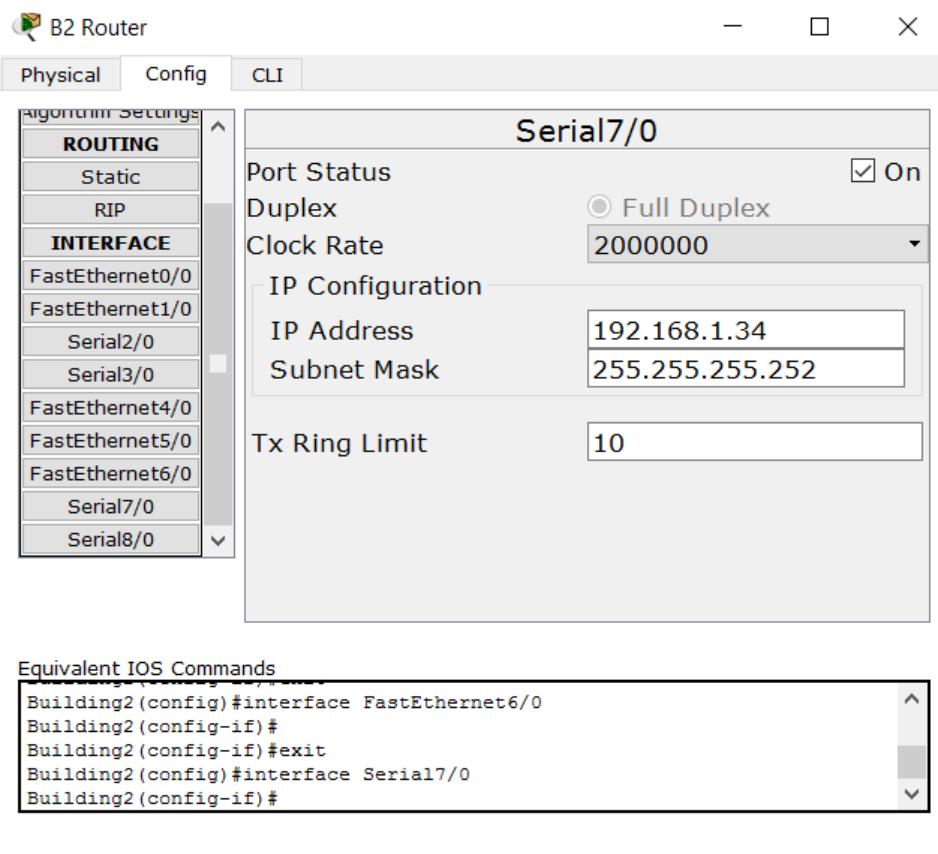
SERIAL 2/0 PORT CONFIGURATION



SERIAL 3/0 PORT CONFIGURATION

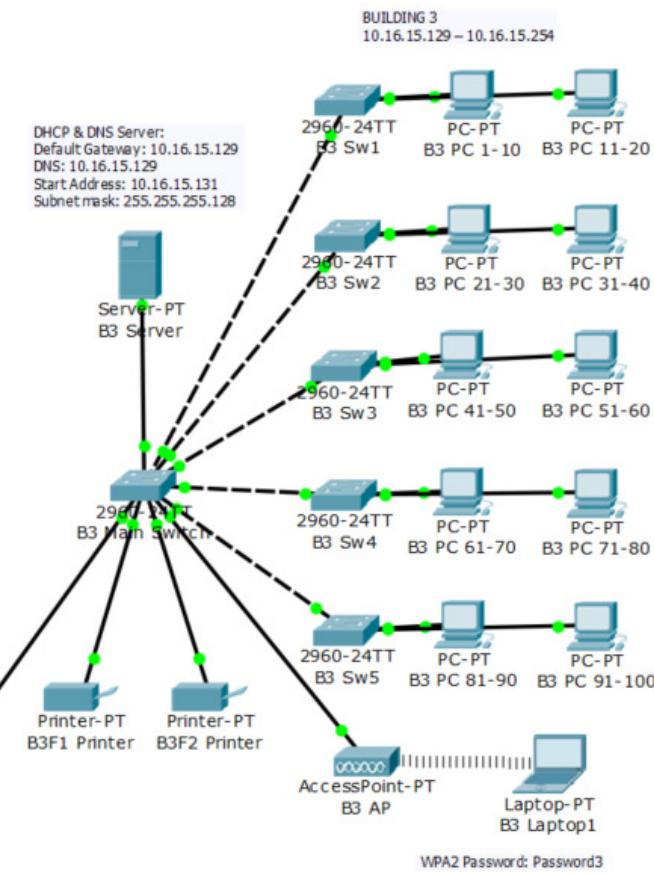


SERIAL 7/0 PORT CONFIGURATION

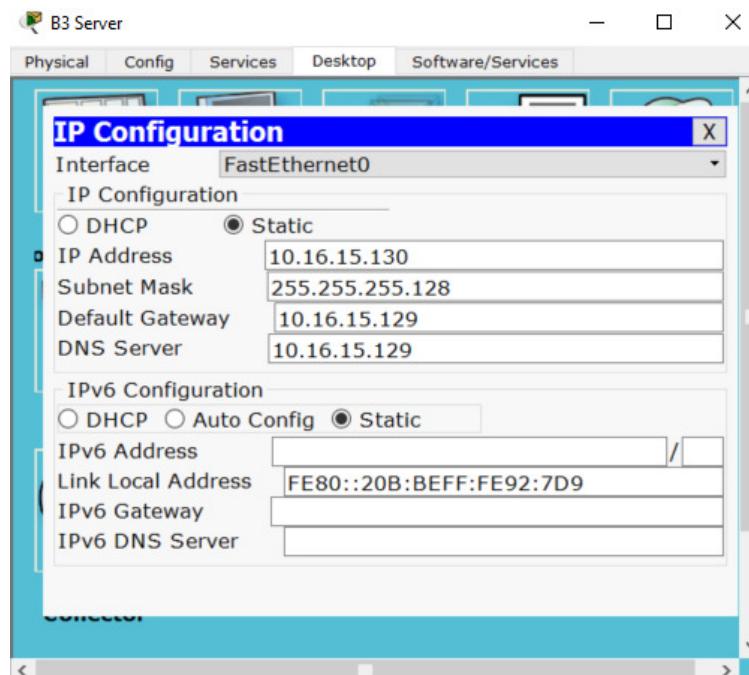


BUILDING 3

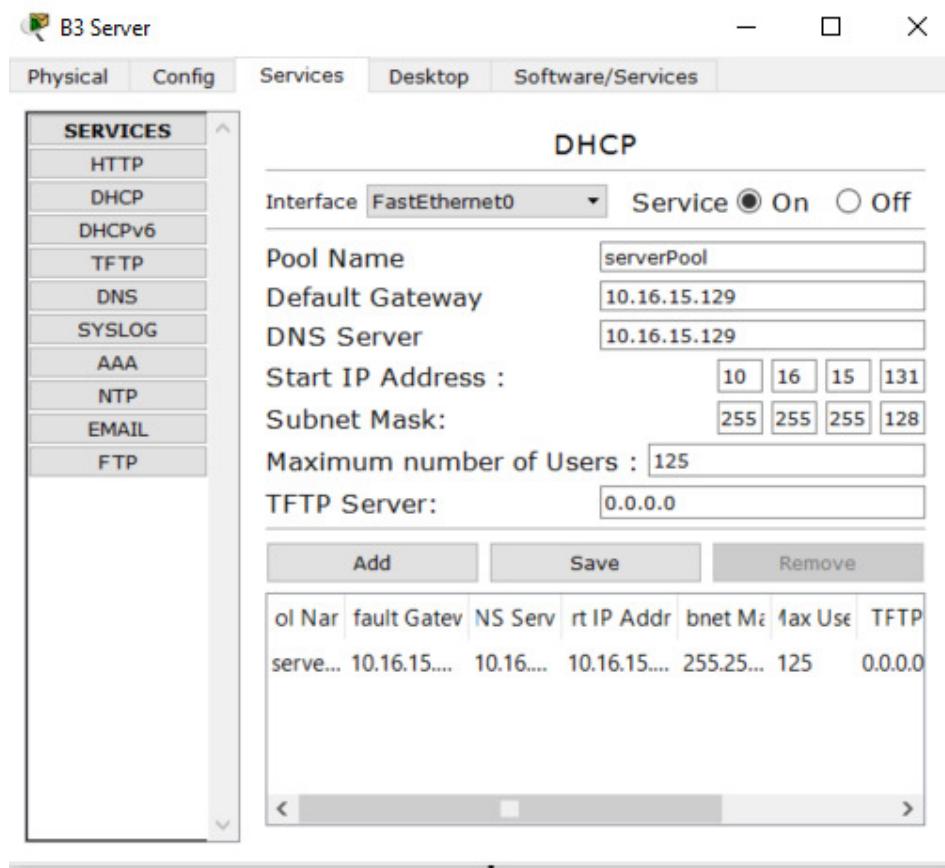
BUILDING LAN



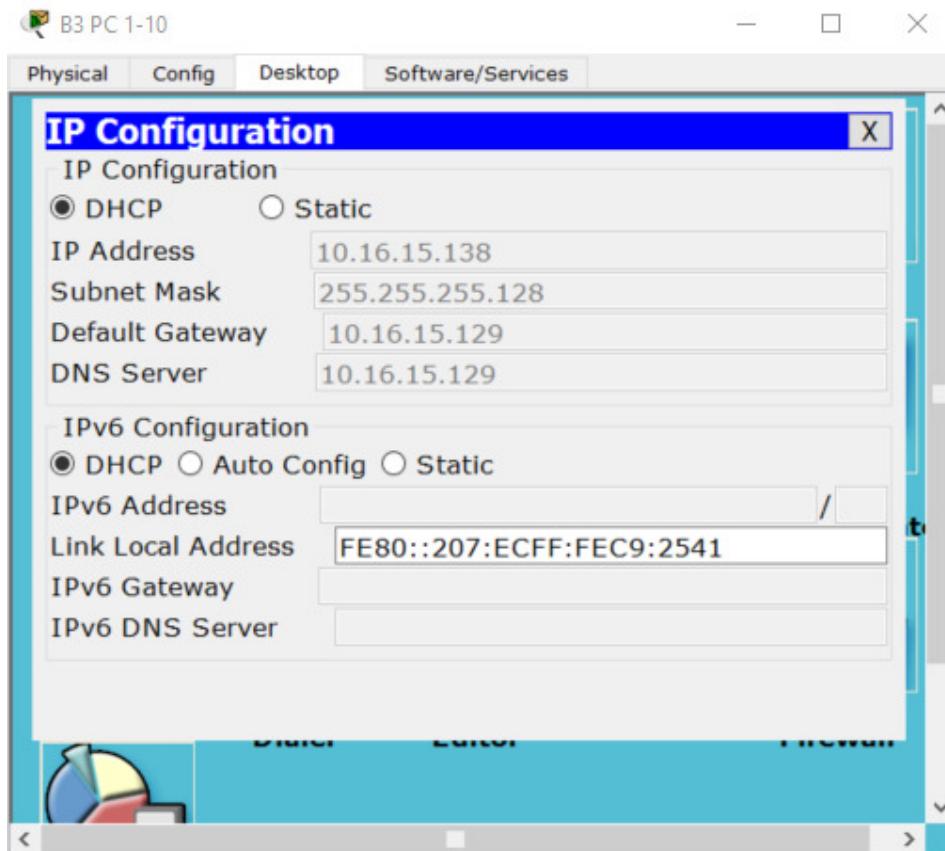
SERVER IP CONFIGURATION



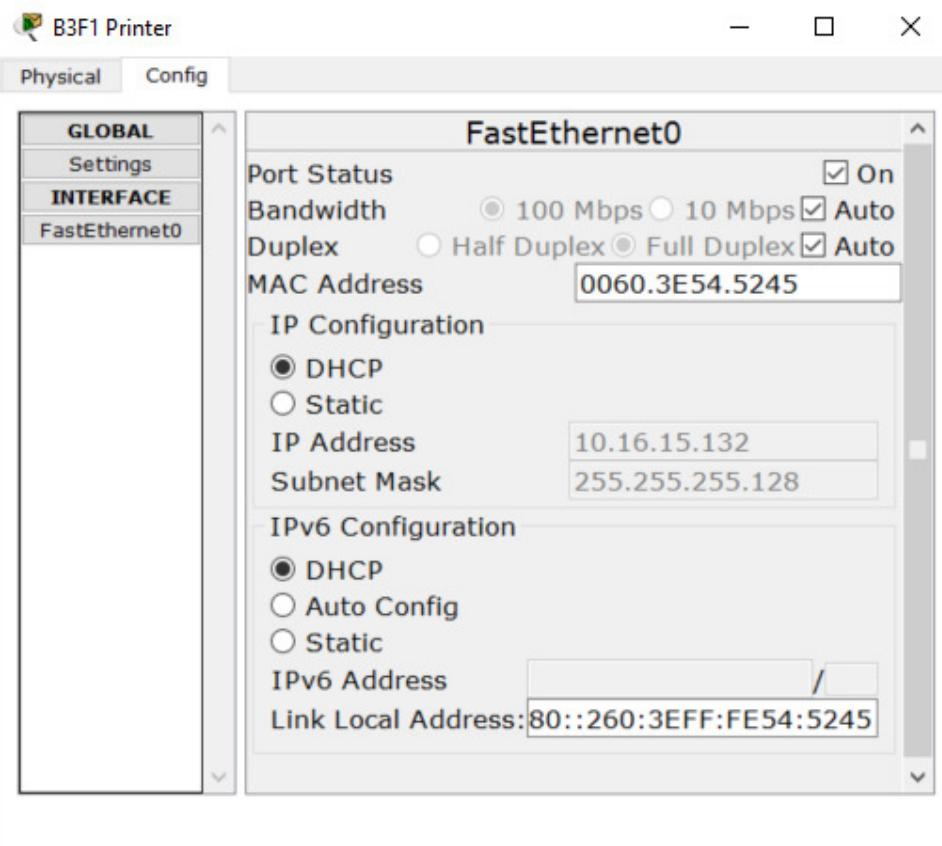
DHCP CONFIGURATION



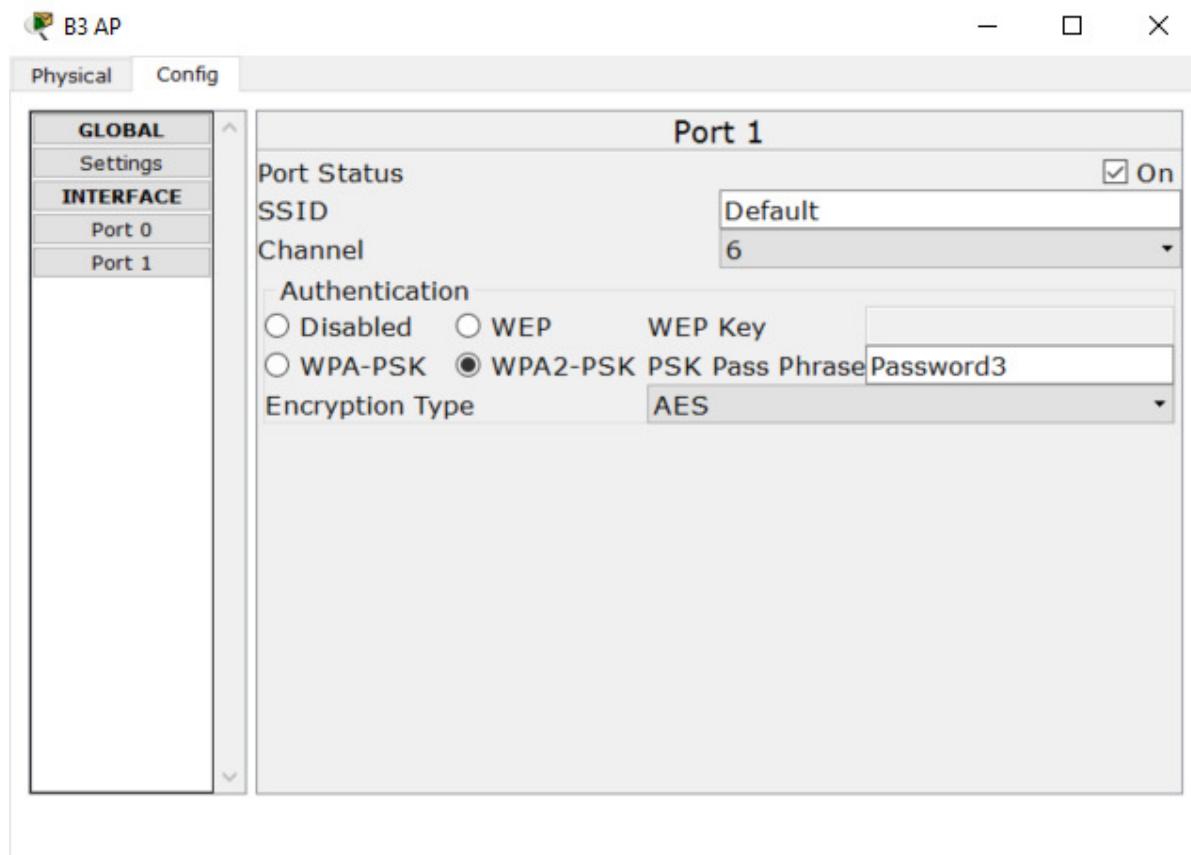
PC IP CONFIGURATION



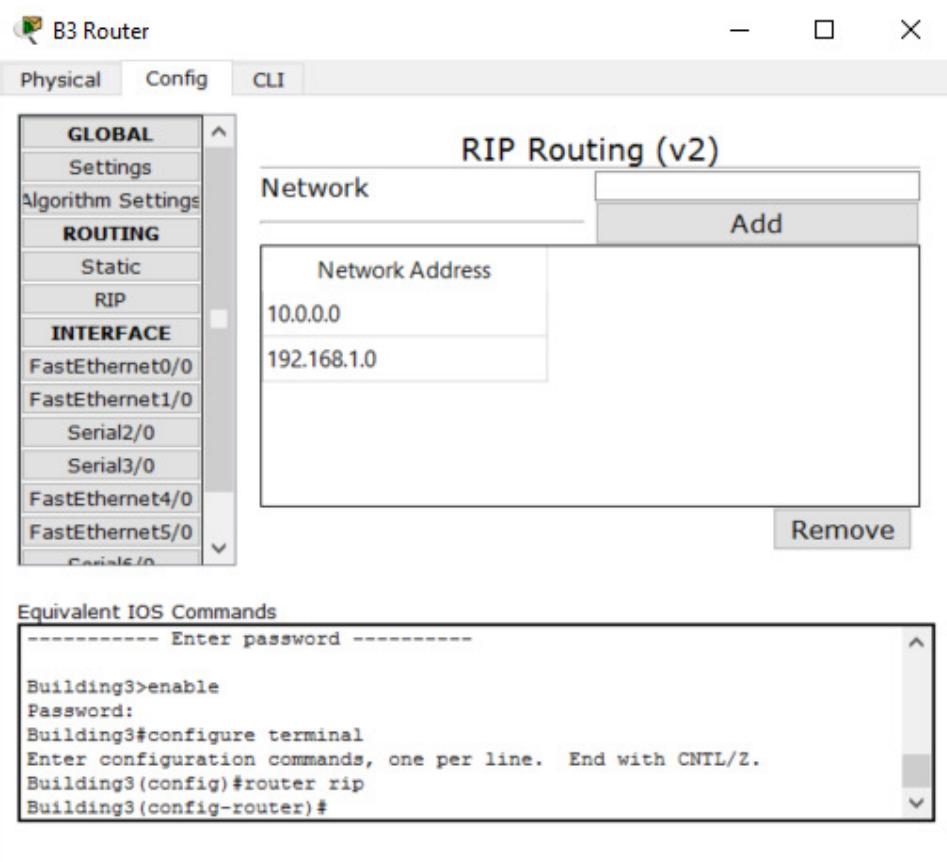
PRINTER IP CONFIGURATION



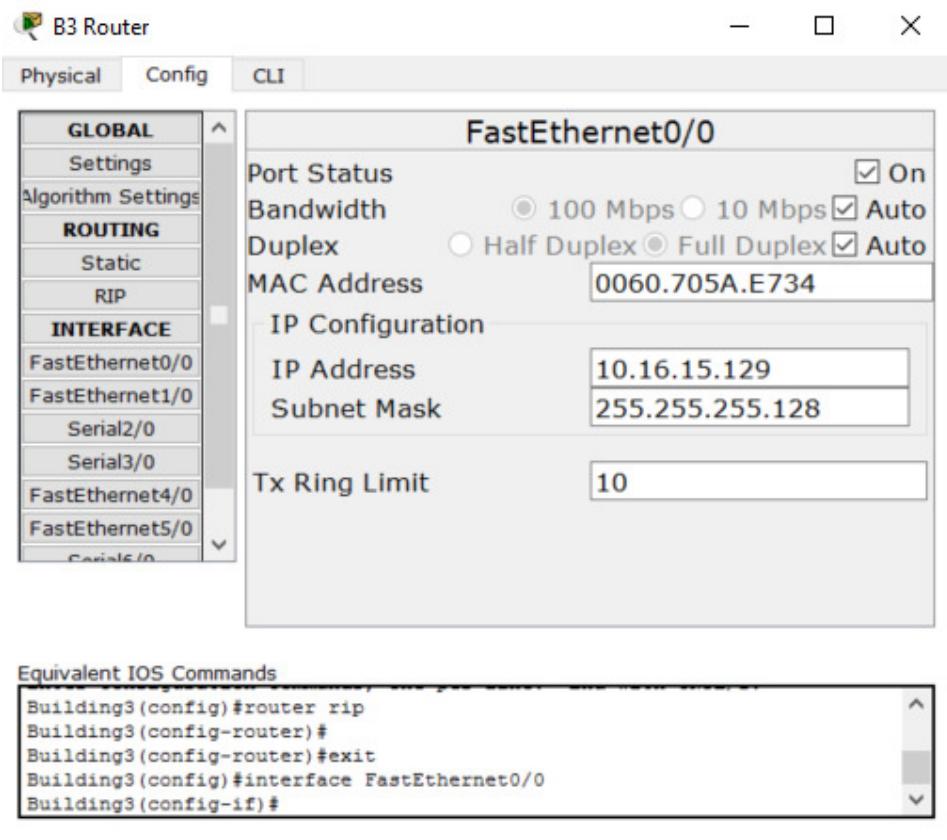
ACCESS POINT CONFIGURATION



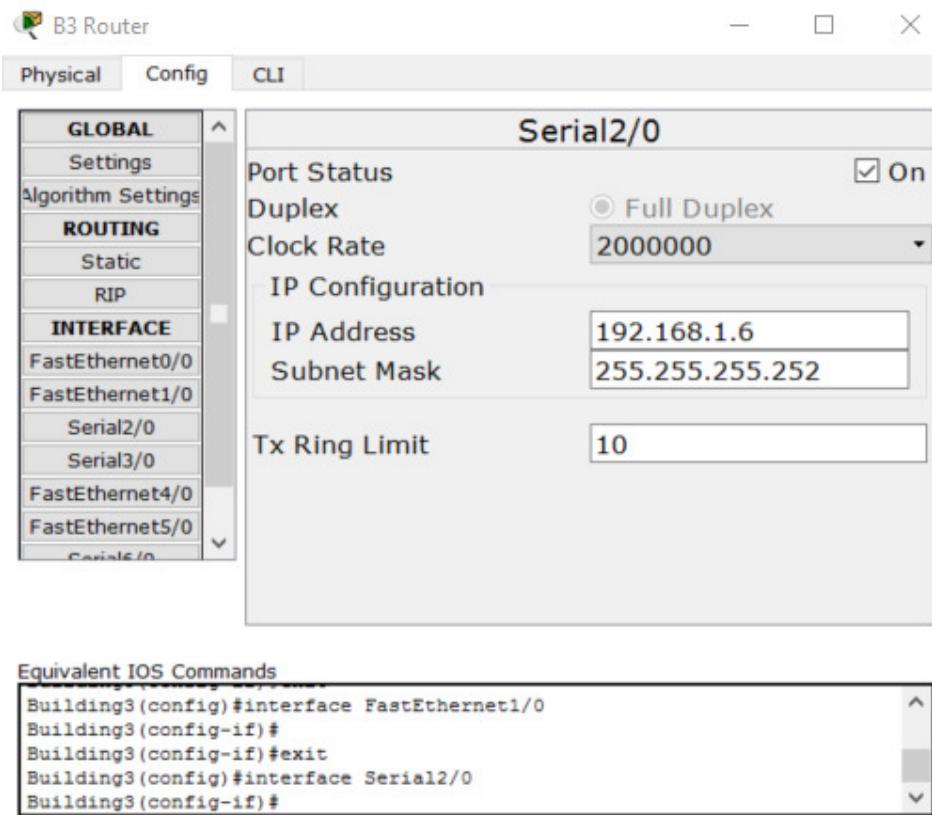
ROUTER RIP ADDRESSING



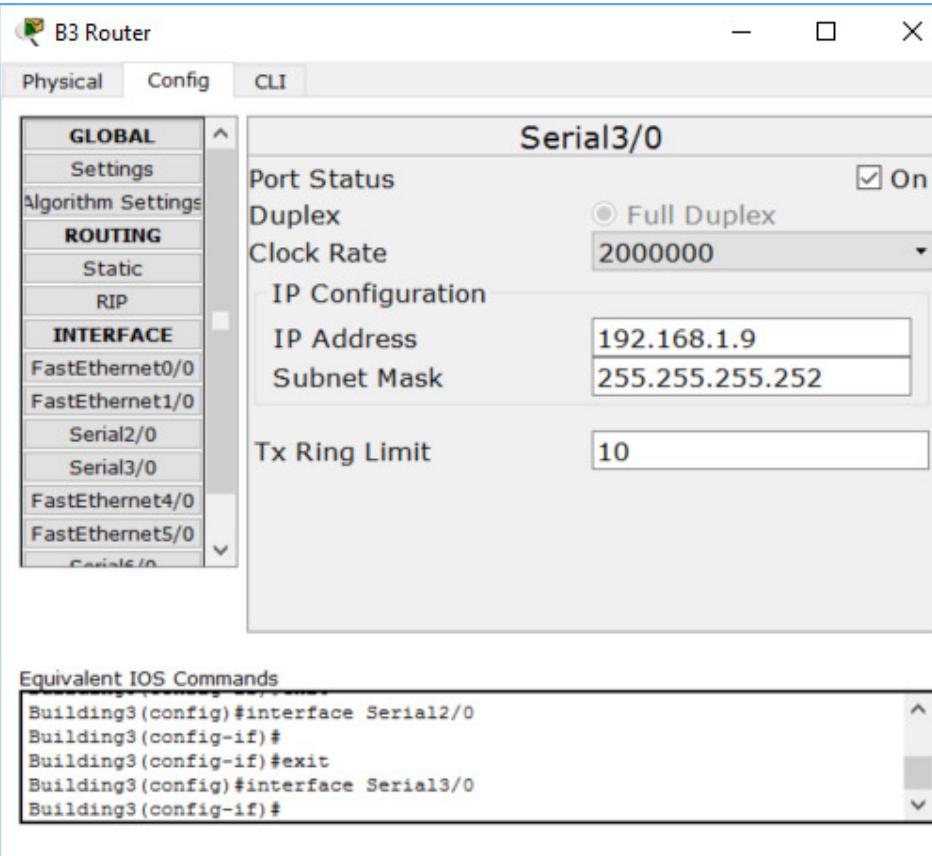
FAST ETHERNET 0/0 PORT CONFIGURATION



SERIAL 2/0 PORT CONFIGURATION



SERIAL 3/0 PORT CONFIGURATION



SERIAL 6/0 PORT CONFIGURATION

The screenshot shows the B3 Router configuration interface. The main window title is "B3 Router". The top menu bar has three tabs: "Physical", "Config", and "CLI". The "Physical" tab is selected. On the left, there is a sidebar with a tree view under the "INTERFACE" category, listing various ports: FastEthernet0/0, FastEthernet1/0, Serial2/0, Serial3/0, FastEthernet4/0, FastEthernet5/0, Serial6/0, and Serial7/0. The "Serial6/0" port is currently selected. The main configuration area is titled "Serial6/0" and contains the following settings:

Port Status	<input checked="" type="checkbox"/> On
Duplex	<input type="radio"/> Full Duplex
Clock Rate	2000000
IP Configuration	
IP Address	192.168.1.42
Subnet Mask	255.255.255.252
Tx Ring Limit	10

Below this, a section titled "Equivalent IOS Commands" displays the following configuration commands:

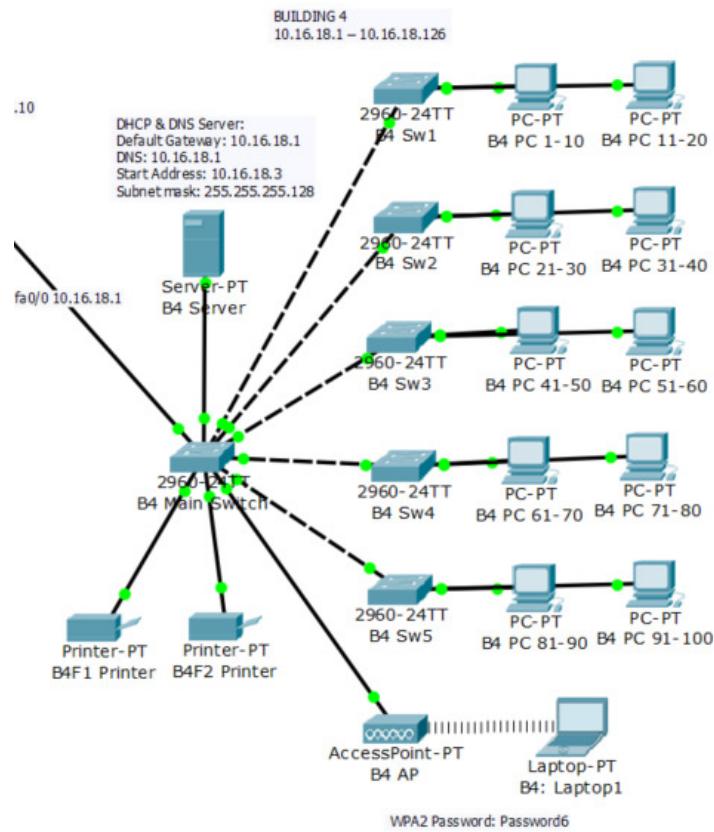
```
Building3(config)#interface Serial3/0
Building3(config-if)#
Building3(config-if)#exit
Building3(config)#interface Serial6/0
Building3(config-if)#{
```

BUILDING 4

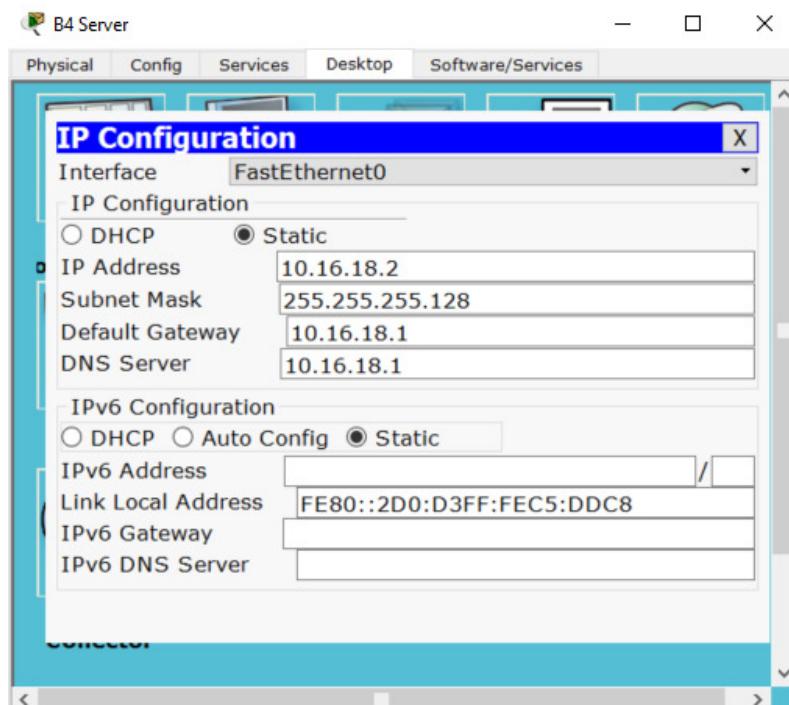
Note: building 4 & building 6 IP were swapped:

Building 4 IP range: 10.16.18.1 - 10.16.18.126

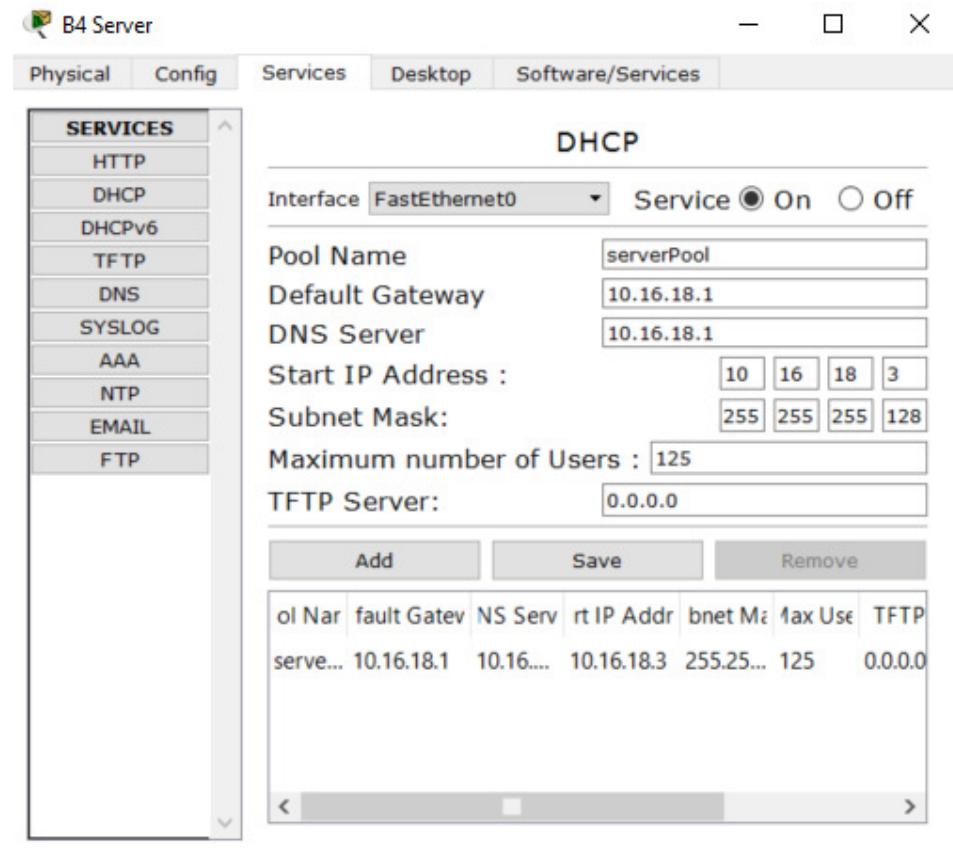
BUILDING LAN



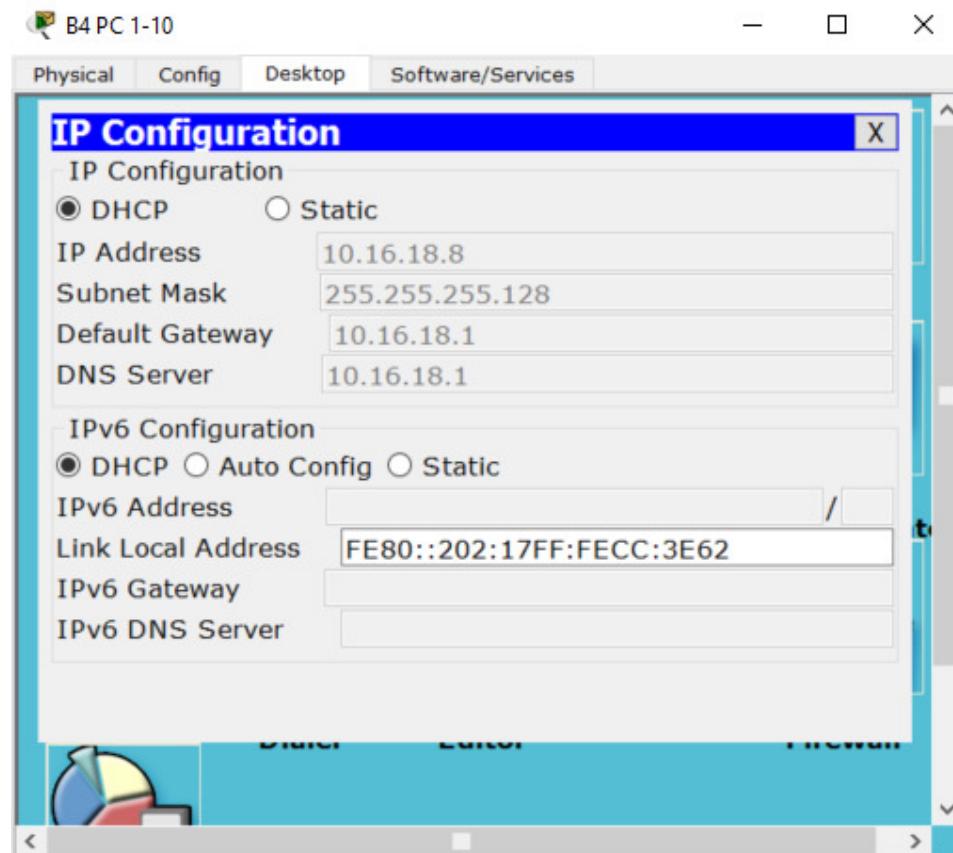
SERVER IP CONFIGURATION



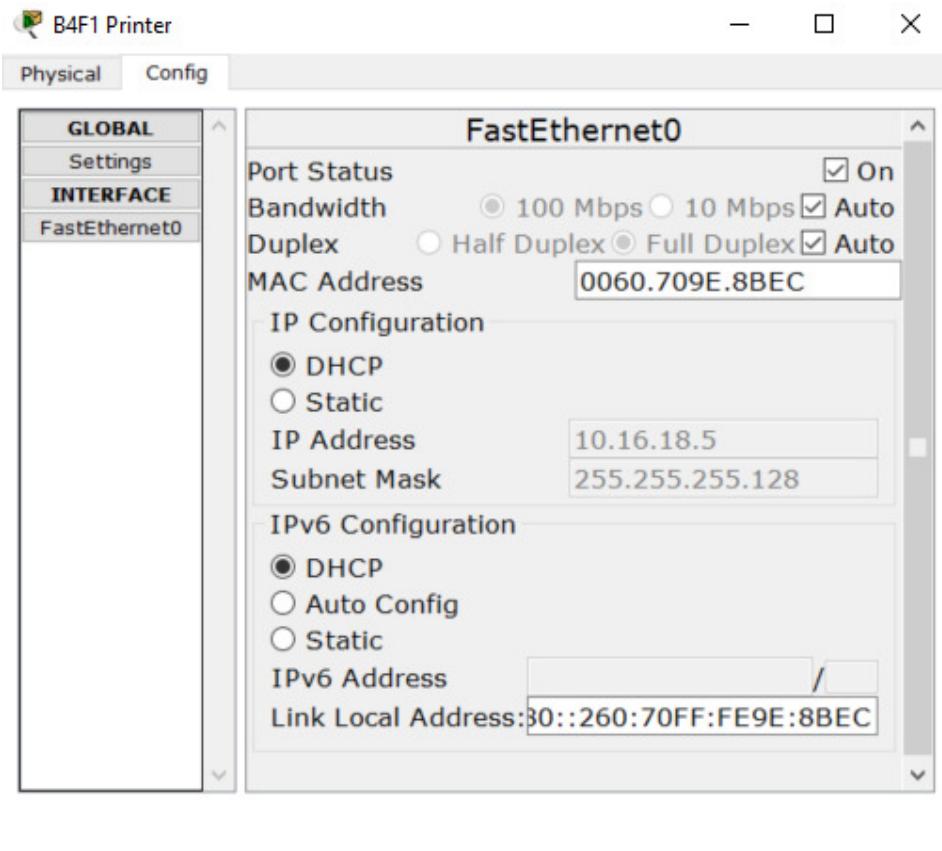
DHCP CONFIGURATION



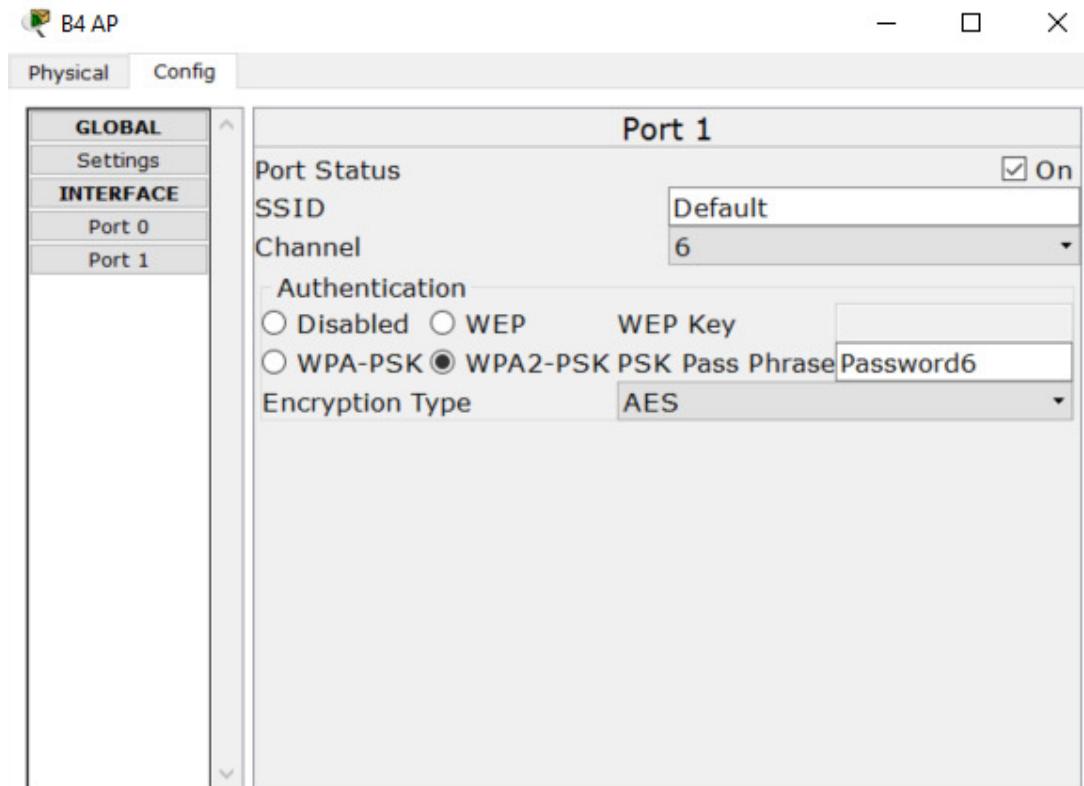
PC IP CONFIGURATION



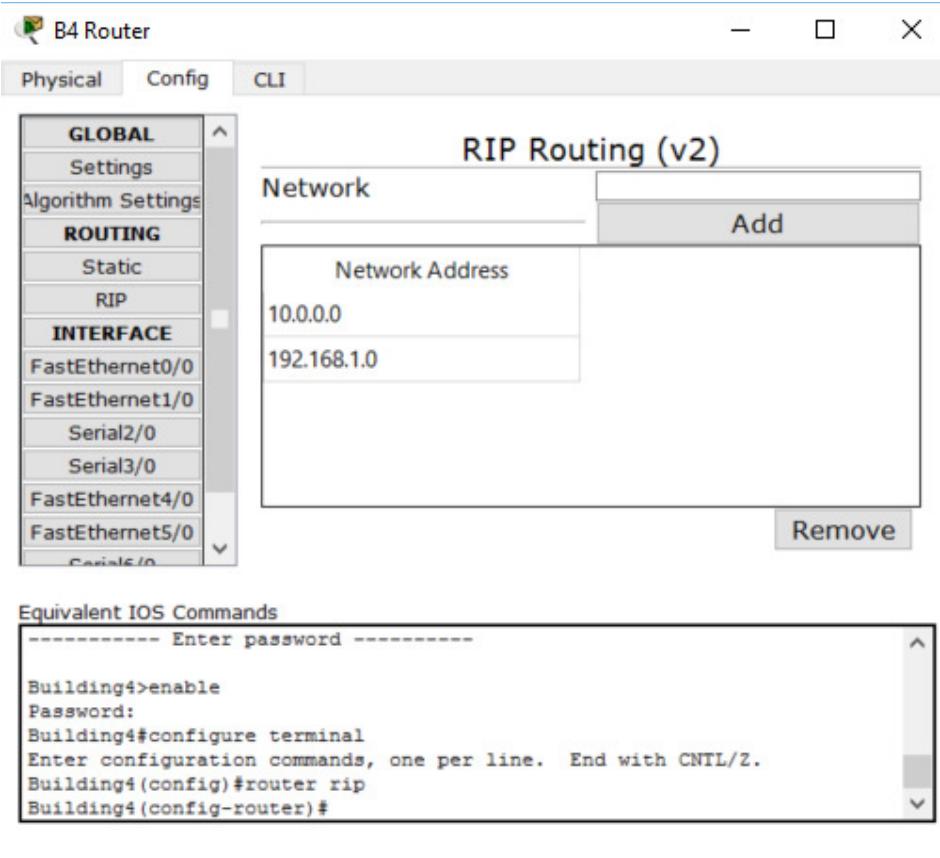
PRINTER IP CONFIGURATION



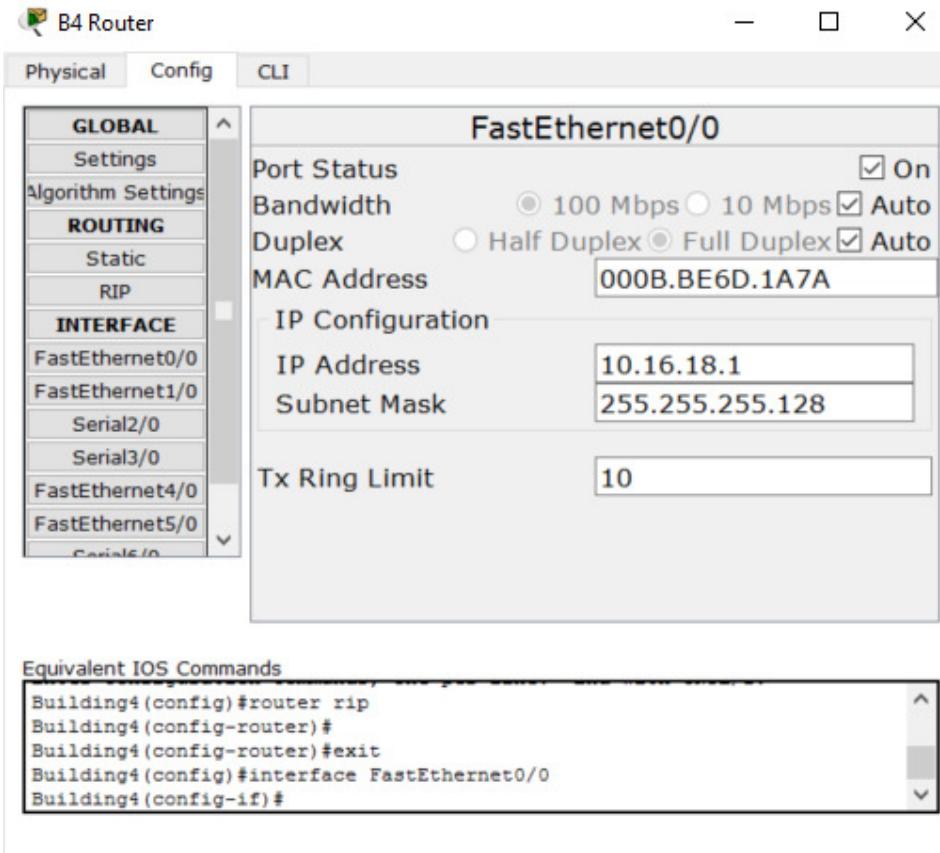
ACCESS POINT CONFIGURATION



ROUTER RIP ADDRESSING



FAST ETHERNET 0/0 PORT CONFIGURATION



SERIAL 2/0 PORT CONFIGURATION

The screenshot shows the B4 Router configuration interface. The left sidebar lists navigation options: GLOBAL, Settings, Algorithm Settings, ROUTING (Static, RIP), INTERFACE (FastEthernet0/0, FastEthernet1/0, Serial2/0, Serial3/0, FastEthernet4/0, FastEthernet5/0, Serial6/0). The main panel is titled "Serial2/0" and contains the following configuration:

Port Status	<input checked="" type="checkbox"/> On
Duplex	<input type="radio"/> Full Duplex
Clock Rate	2000000
IP Configuration	
IP Address	192.168.1.10
Subnet Mask	255.255.255.252
Tx Ring Limit	10

Below the configuration panel is a section titled "Equivalent IOS Commands" containing the following text:

```
Building4(config)#interface FastEthernet0/0
Building4(config-if)#
Building4(config-if)#exit
Building4(config)#interface Serial2/0
Building4(config-if)#

```

SERIAL 3/0 PORT CONFIGURATION

The screenshot shows the B4 Router configuration interface. The left sidebar lists navigation options: GLOBAL, Settings, Algorithm Settings, ROUTING (Static, RIP), INTERFACE (FastEthernet0/0, FastEthernet1/0, Serial2/0, Serial3/0, FastEthernet4/0, FastEthernet5/0, Serial6/0). The main panel is titled "Serial3/0" and contains the following configuration:

Port Status	<input checked="" type="checkbox"/> On
Duplex	<input type="radio"/> Full Duplex
Clock Rate	2000000
IP Configuration	
IP Address	192.168.1.13
Subnet Mask	255.255.255.252
Tx Ring Limit	10

Below the configuration panel is a section titled "Equivalent IOS Commands" containing the following text:

```
Building4(config)#interface Serial2/0
Building4(config-if)#
Building4(config-if)#exit
Building4(config)#interface Serial3/0
Building4(config-if)#

```

SERIAL 6/0 PORT CONFIGURATION

The screenshot shows a software interface for configuring a network port. At the top, there are tabs for Physical, Config, and CLI. Below the tabs is a sidebar with sections for Settings, Algorithm Settings, ROUTING (Static, RIP), and INTERFACE (FastEthernet0/0, FastEthernet1/0, Serial2/0, Serial3/0, FastEthernet4/0, FastEthernet5/0, Serial6/0, Serial7/0). The main panel is titled "Serial6/0" and contains the following configuration:

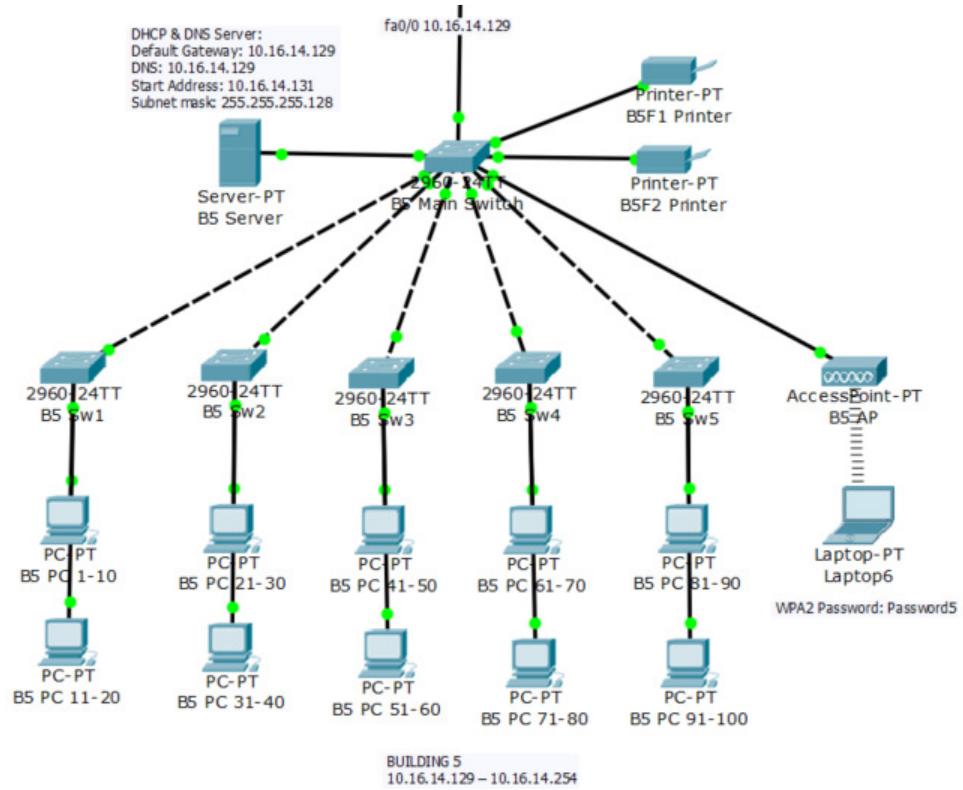
Port Status	<input checked="" type="checkbox"/> On
Duplex	<input type="radio"/> Full Duplex
Clock Rate	2000000
IP Configuration	
IP Address	192.168.1.46
Subnet Mask	255.255.255.252
Tx Ring Limit	10

Below this, a section titled "Equivalent IOS Commands" displays the following configuration commands:

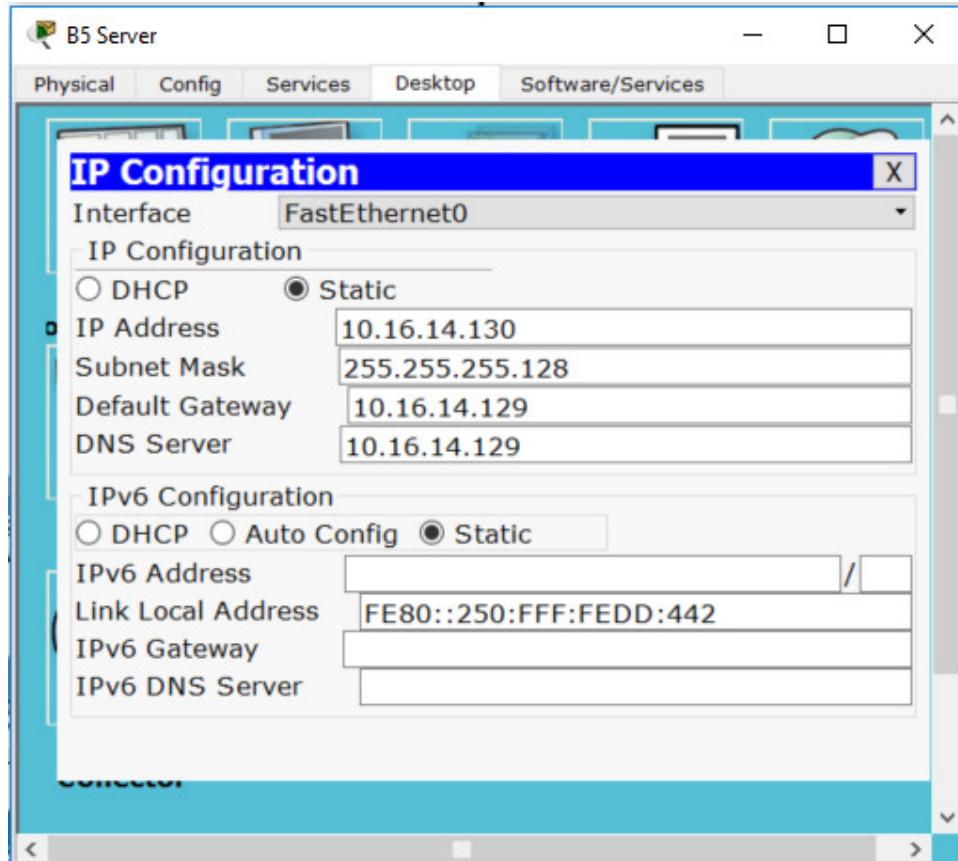
```
Building4(config)#interface Serial3/0
Building4(config-if)#
Building4(config-if)#exit
Building4(config)#interface Serial6/0
Building4(config-if)#{
```

BUILDING 5

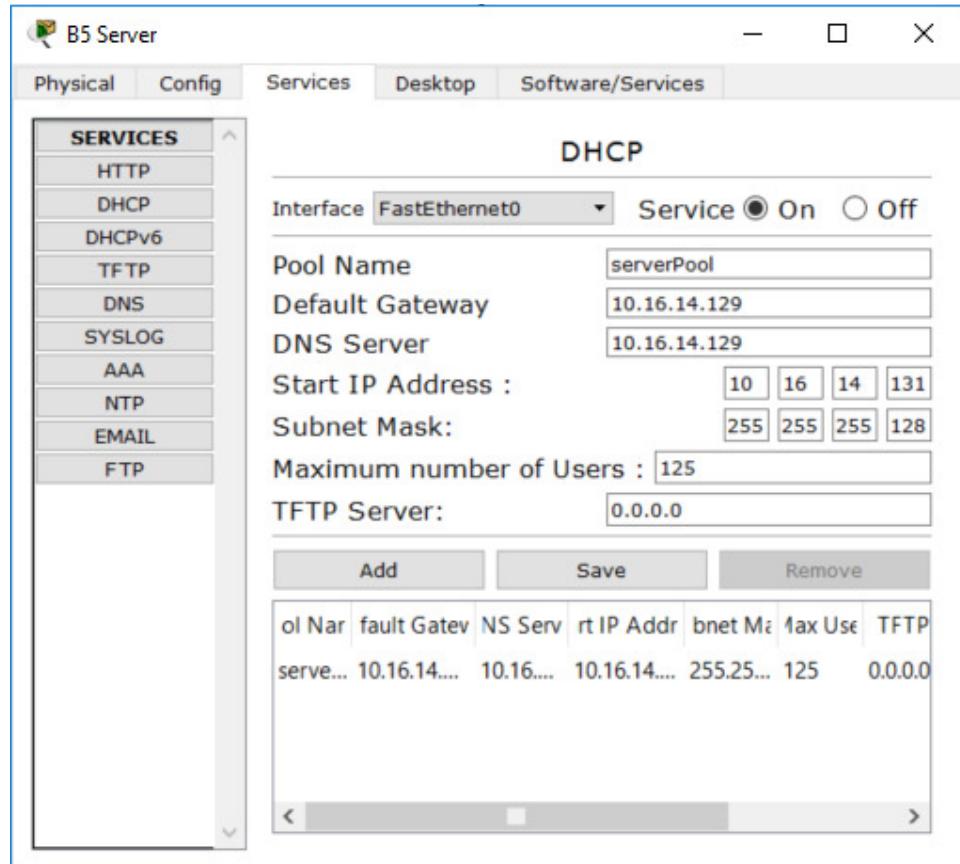
BUILDING LAN



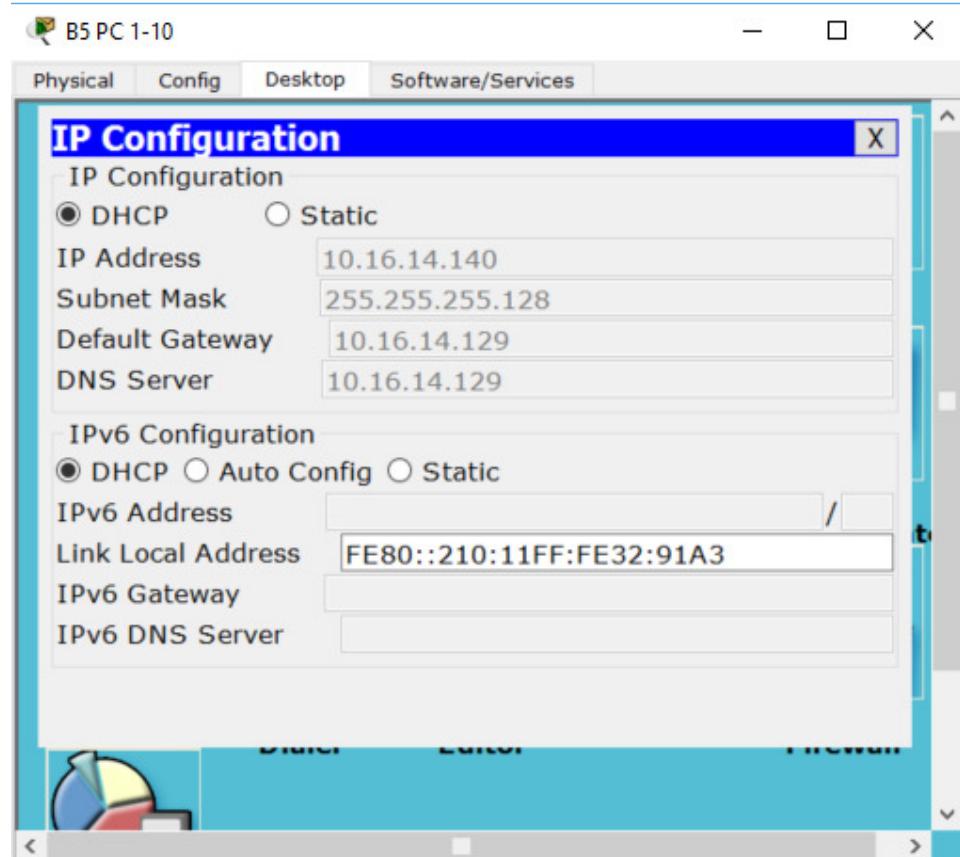
SERVER IP CONFIGURATION



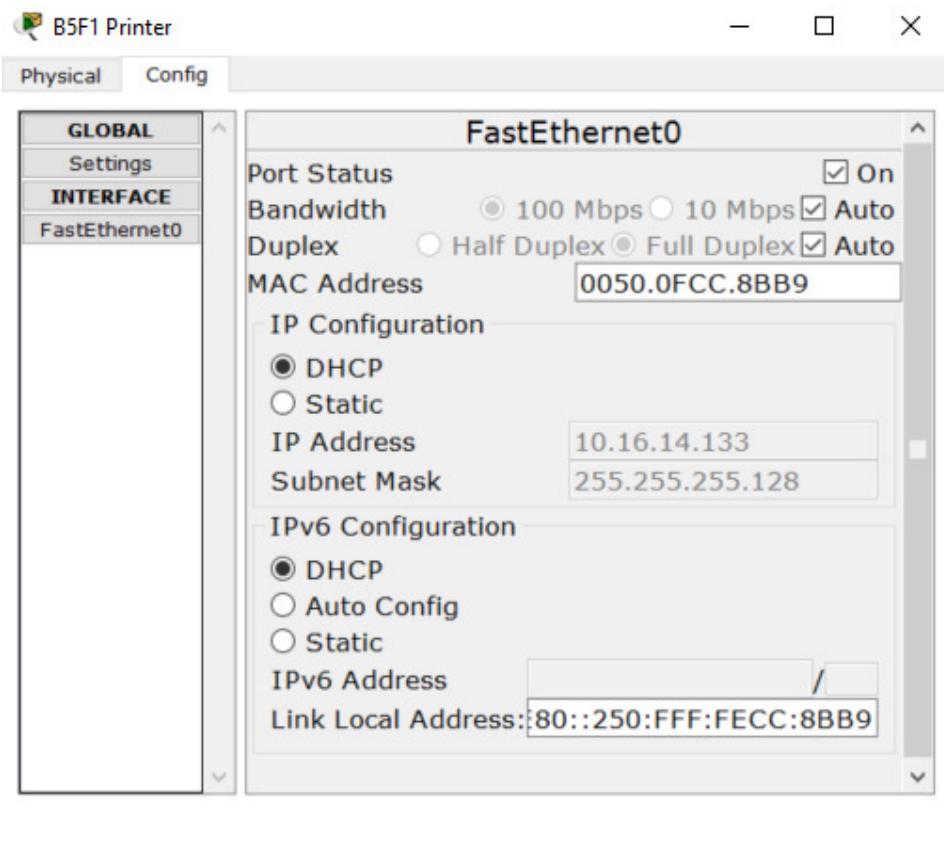
DHCP CONFIGURATION



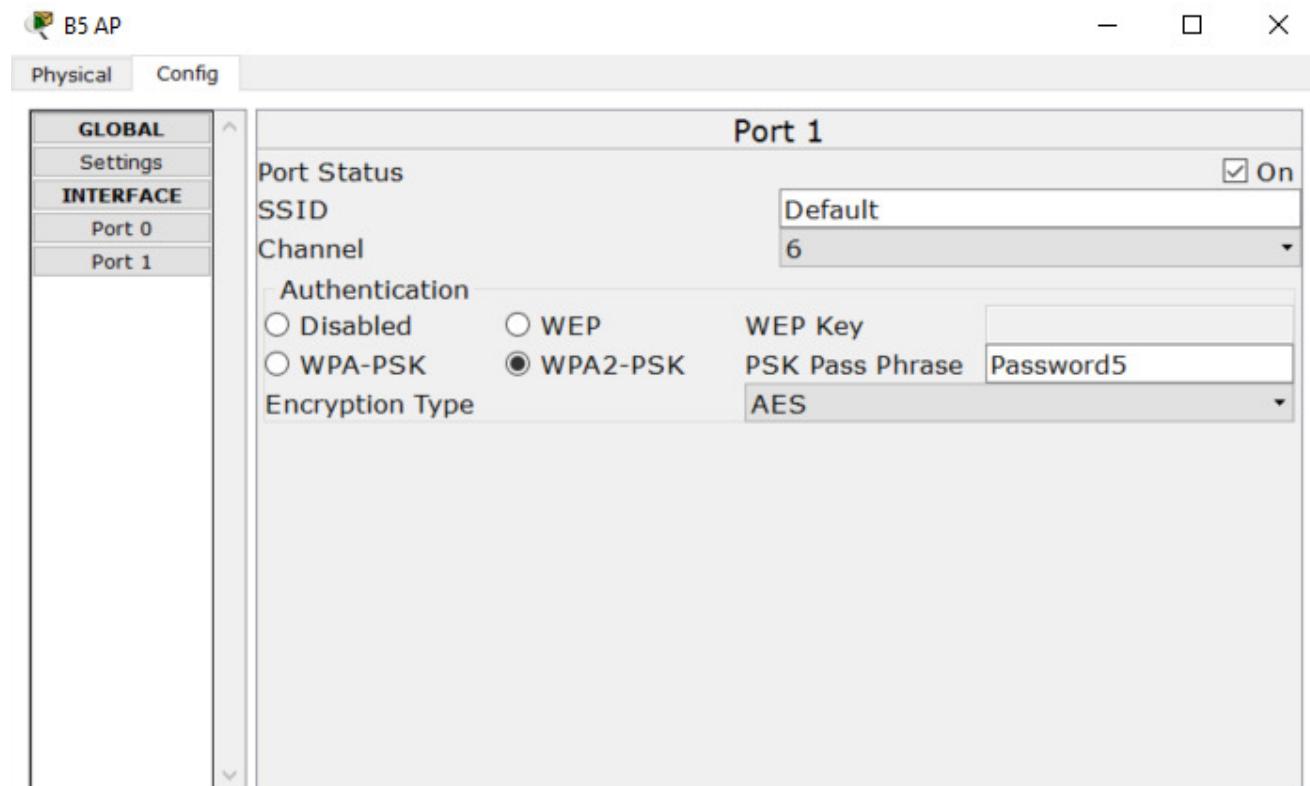
PC IP CONFIGURATION



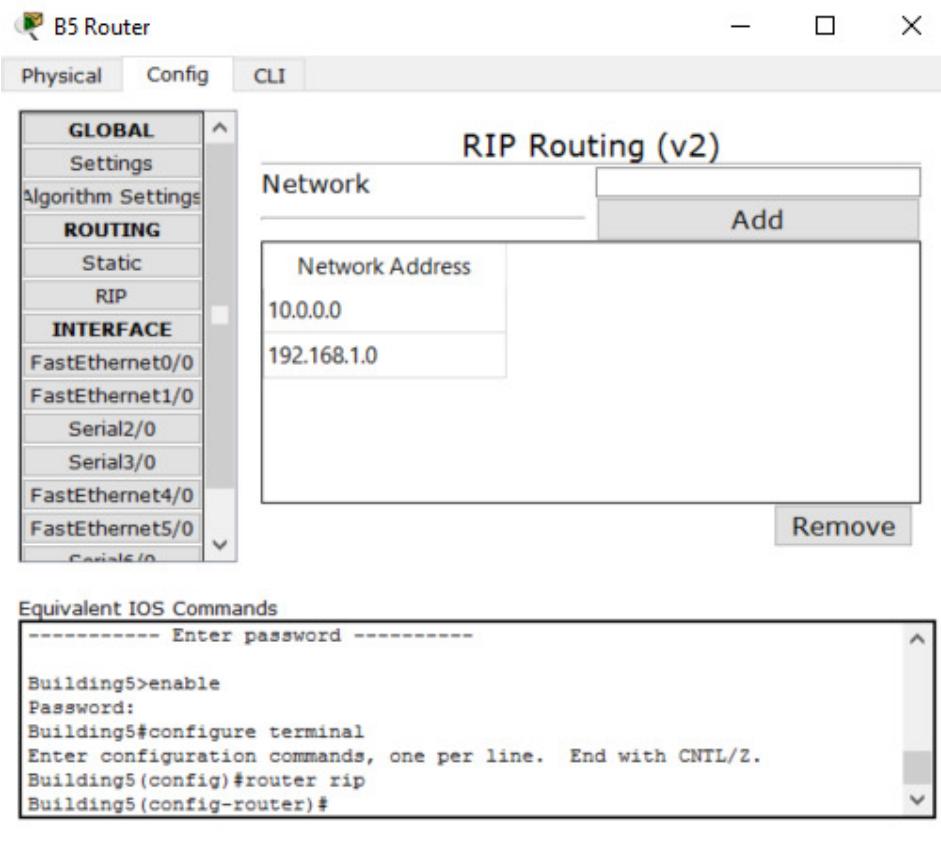
PRINTER IP CONFIGURATION



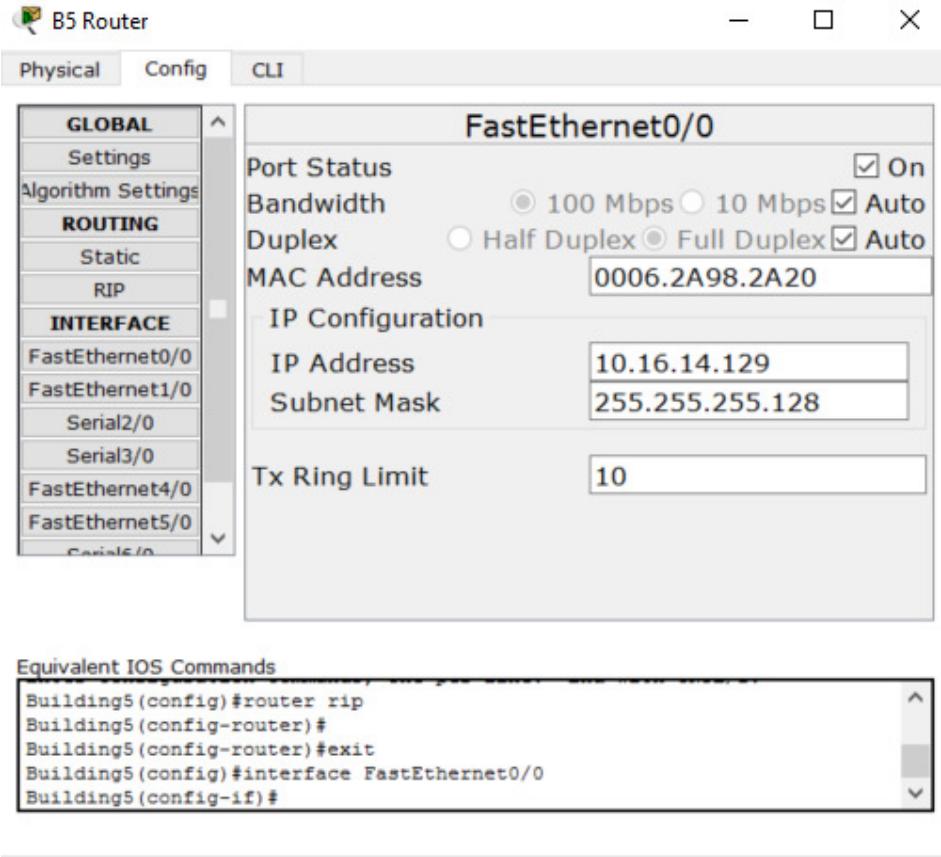
ACCESS POINT CONFIGURATION



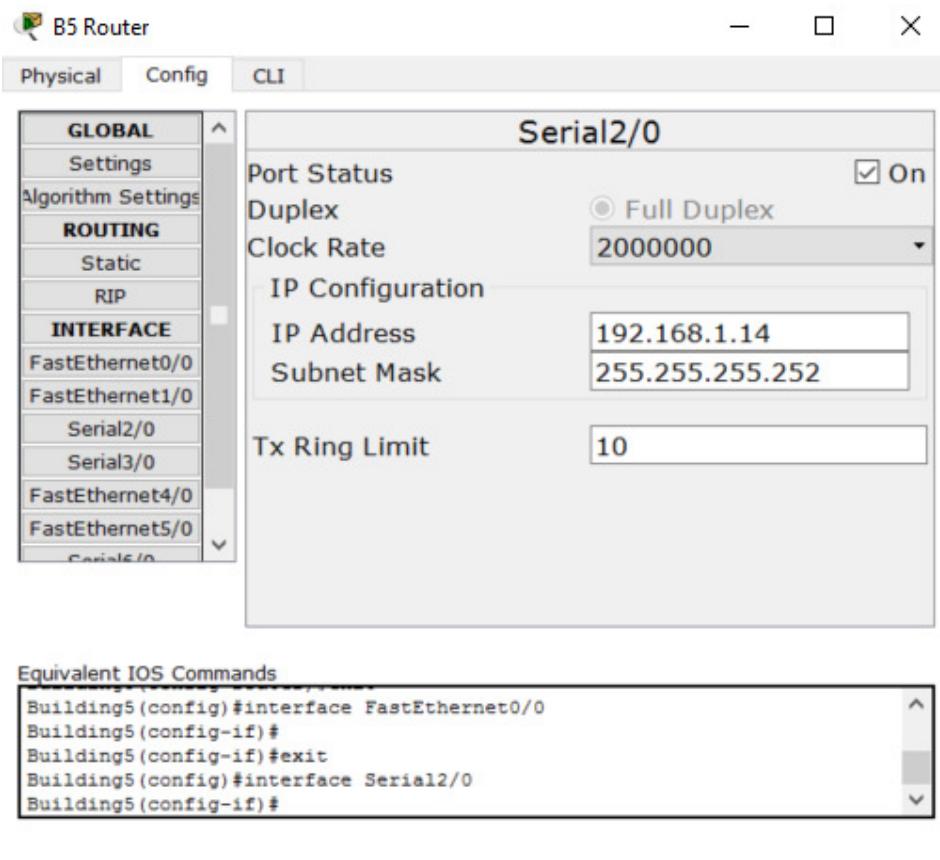
ROUTER RIP ADDRESSING



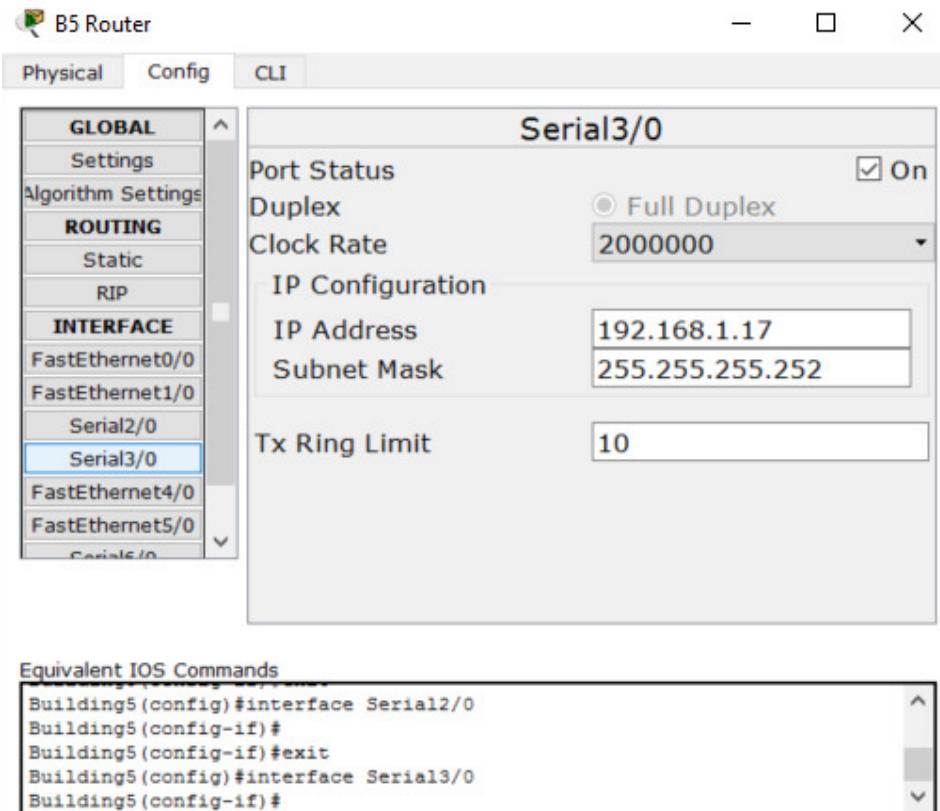
FAST ETHERNET 0/0 PORT CONFIGURATION



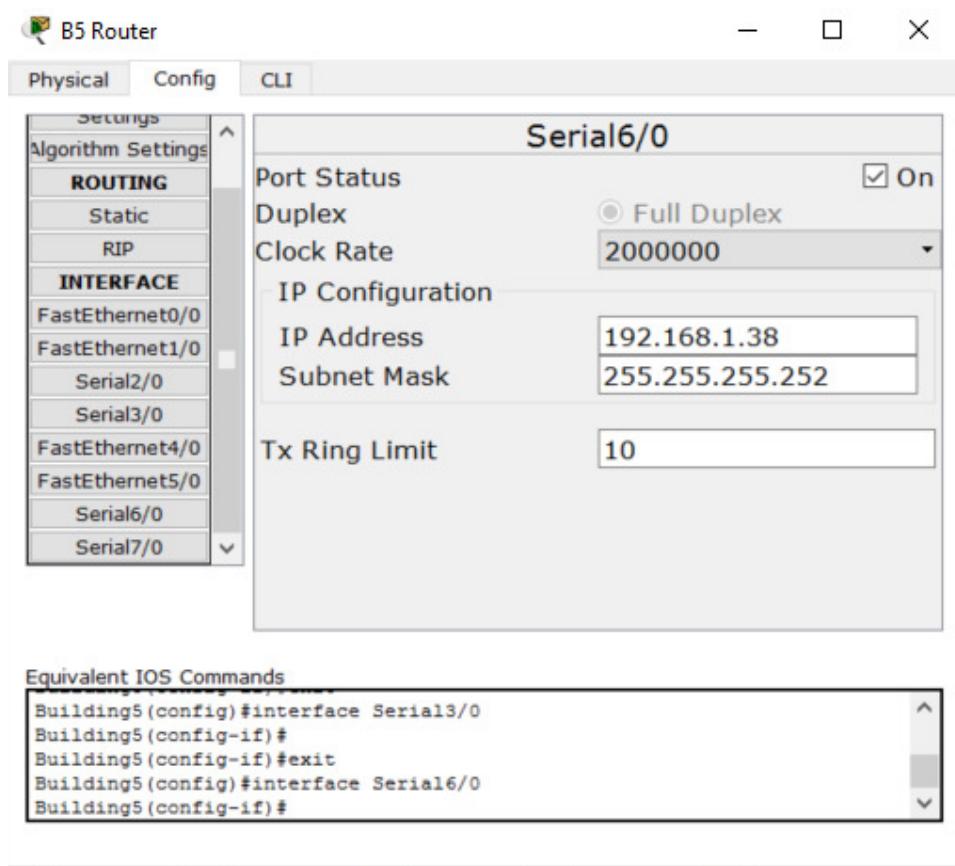
SERIAL 2/0 PORT CONFIGURATION



SERIAL 3/0 PORT CONFIGURATION



SERIAL 6/0 PORT CONFIGURATION

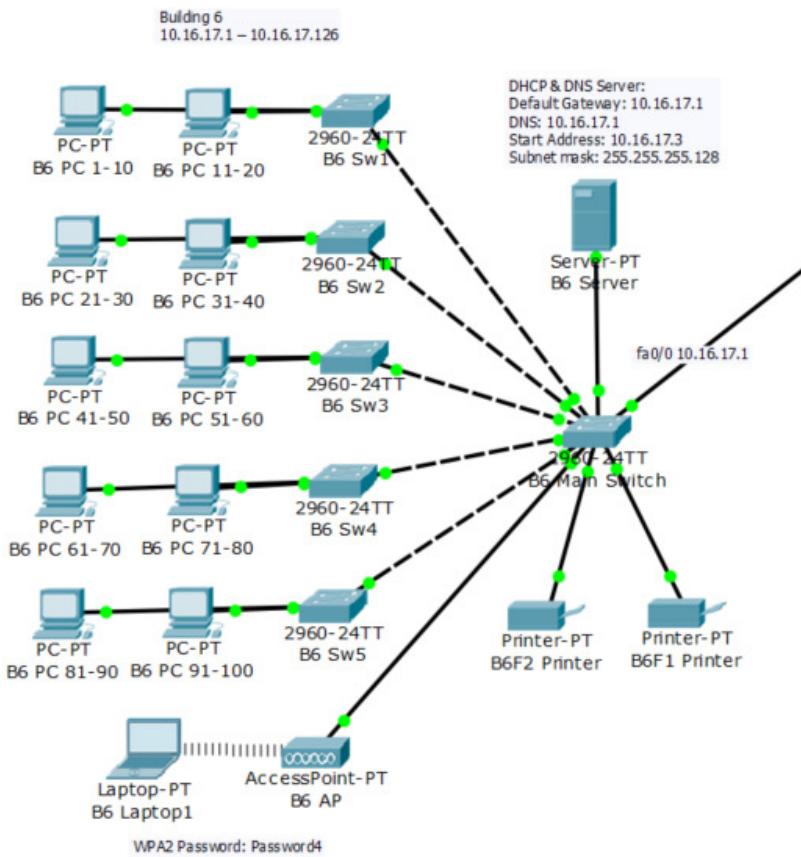


BUILDING 6

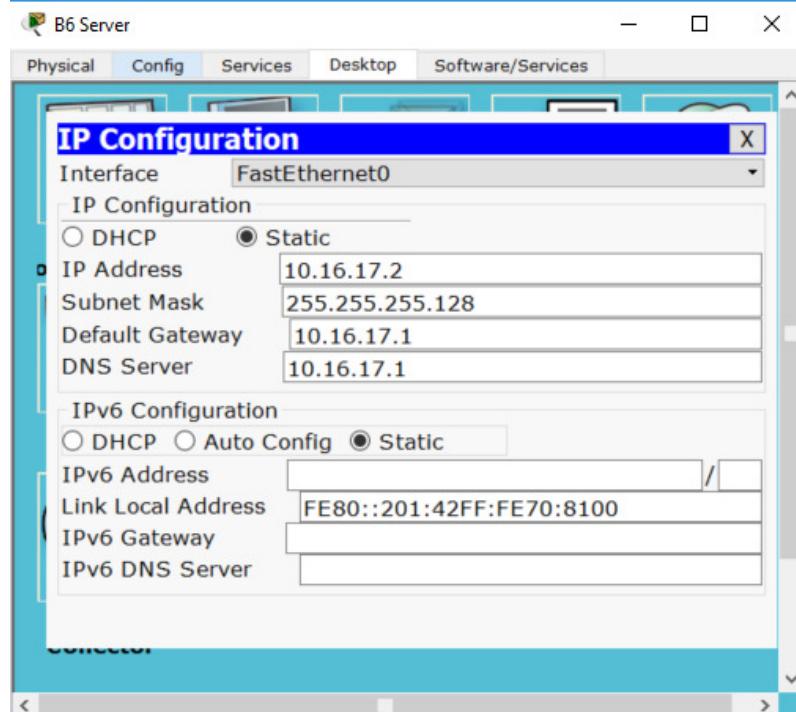
Note: building 4 & building 6 IP were swapped:

Building 6 IP range: 10.16.17.1 - 10.16.17.126

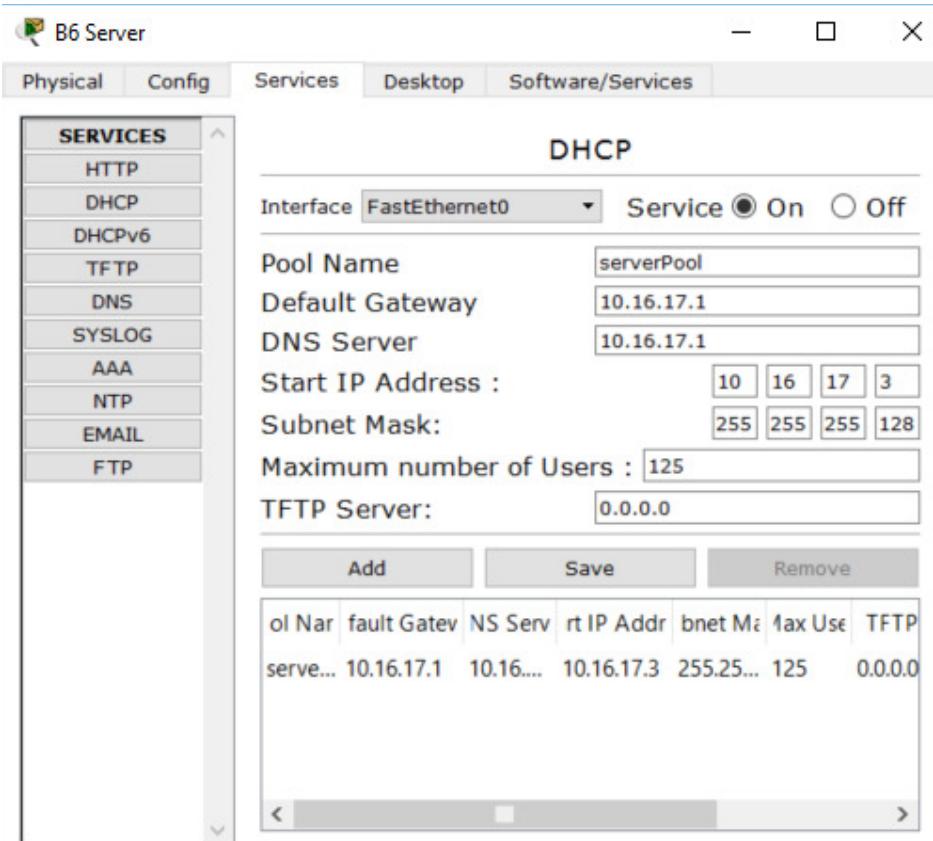
BUILDING LAN



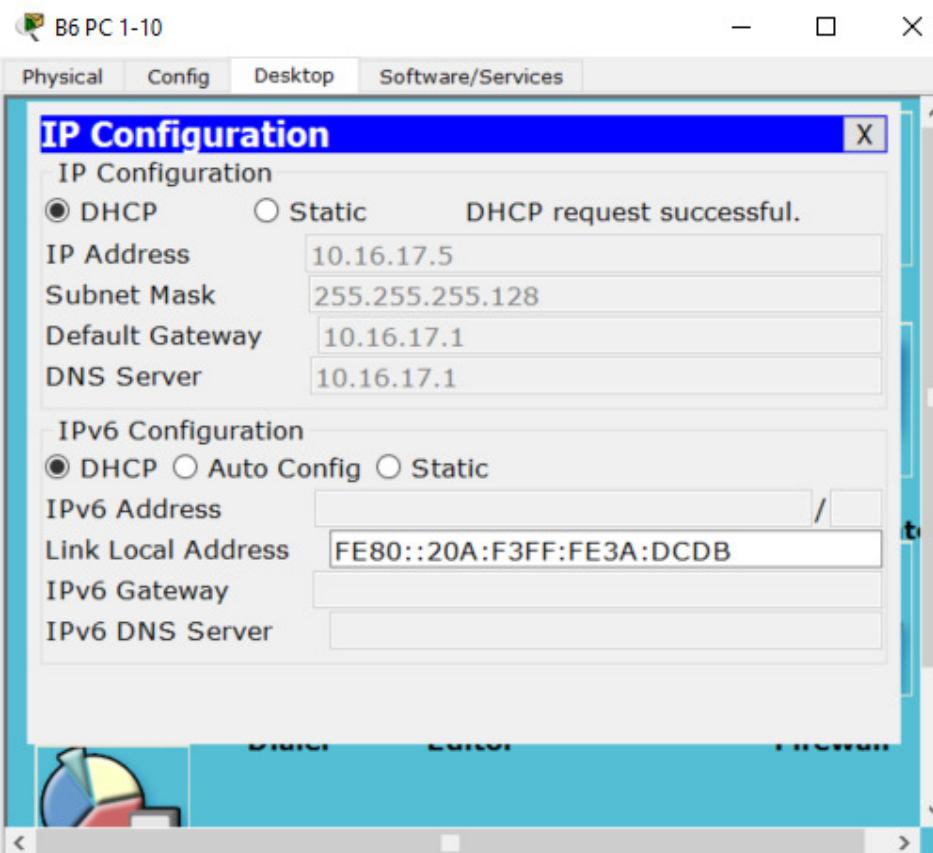
SERVER IP CONFIGURATION



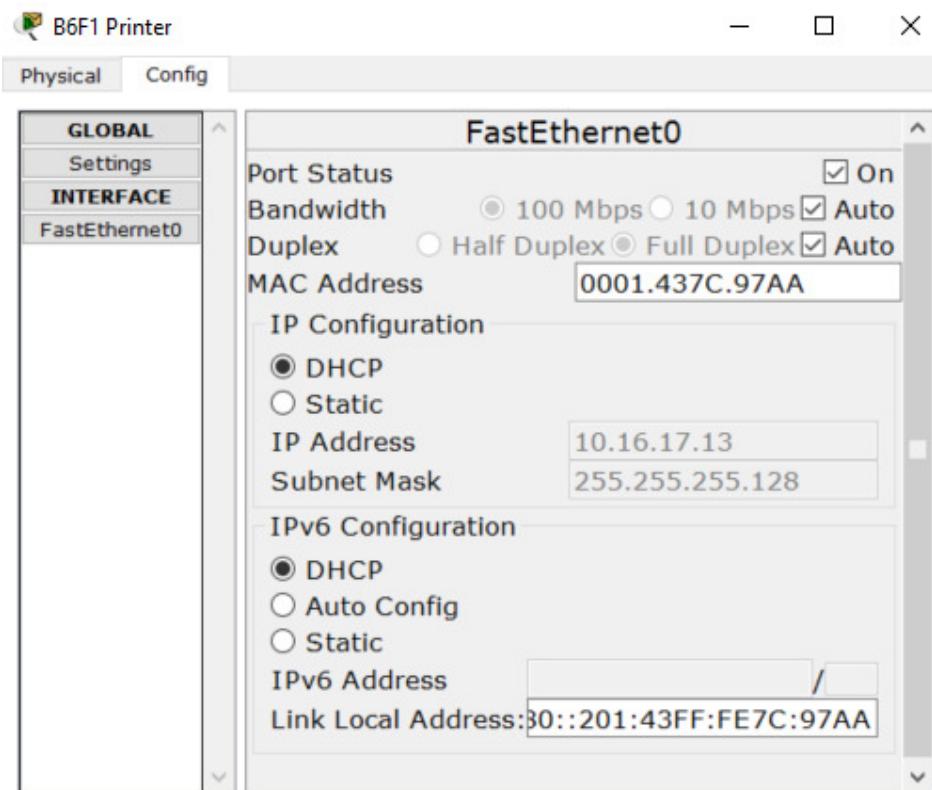
DHCP CONFIGURATION



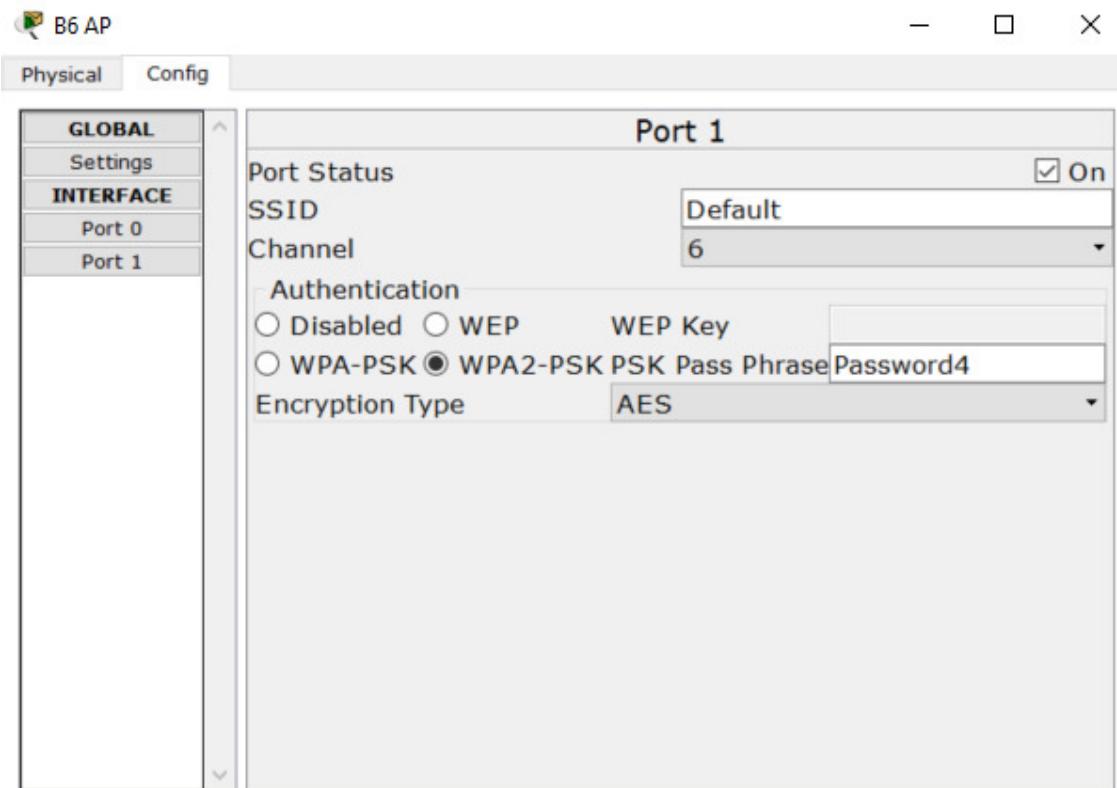
PC IP CONFIGURATION



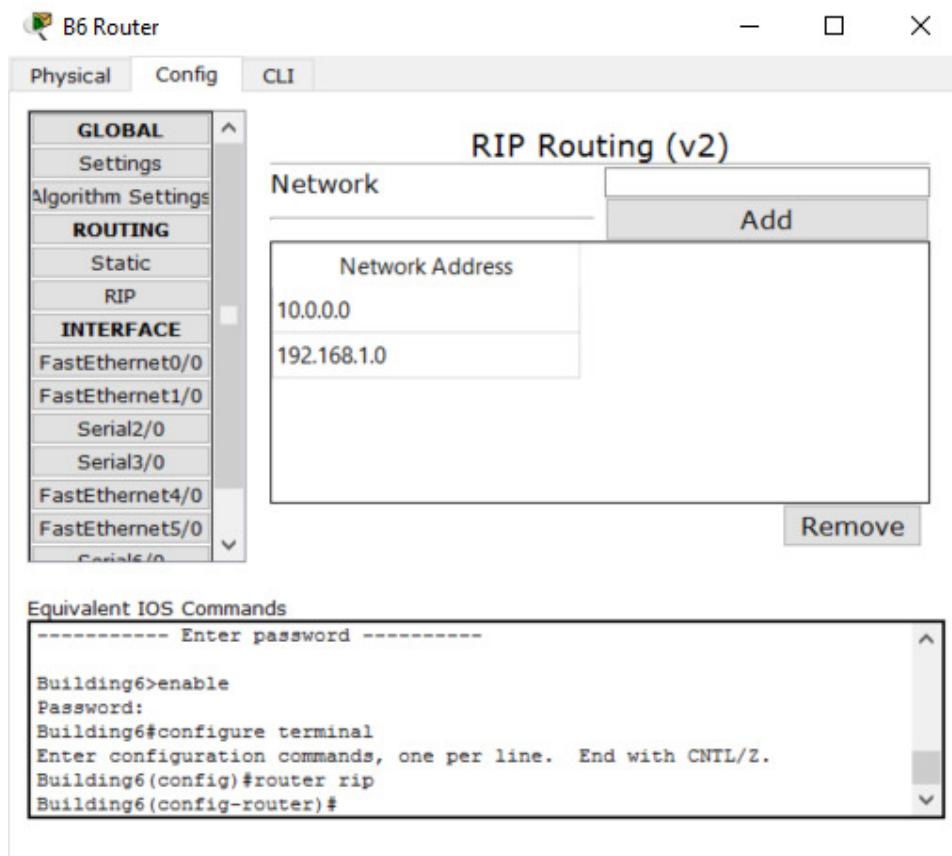
PRINTER IP CONFIGURATION



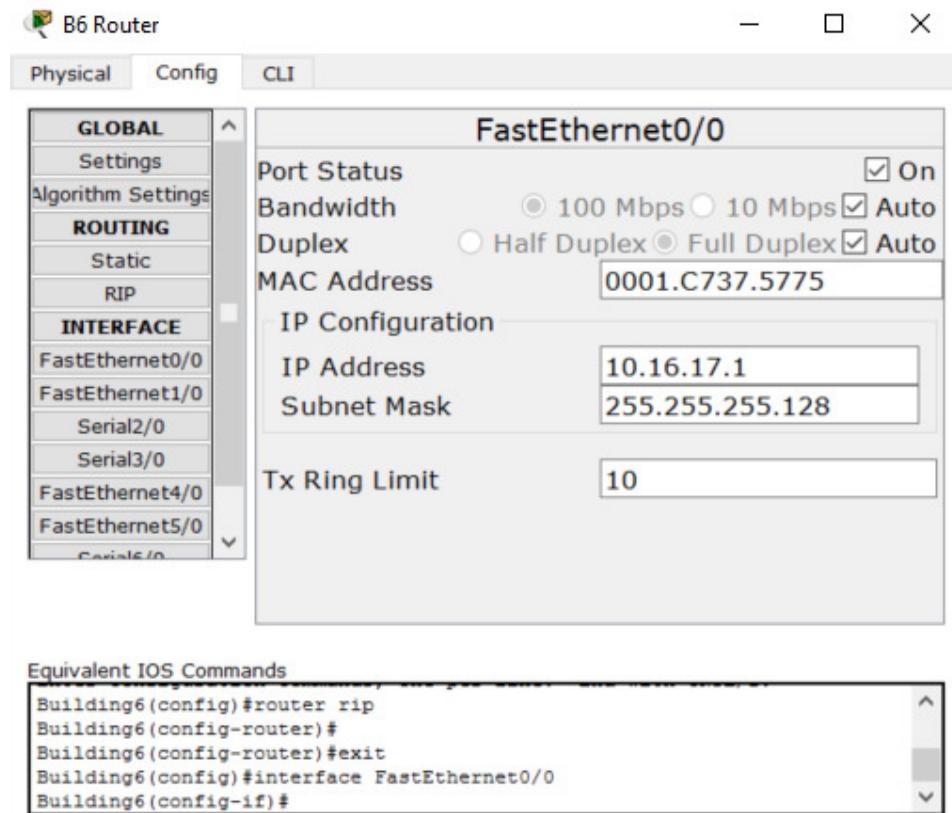
ACCESS POINT CONFIGURATION



ROUTER RIP ADDRESSING



FAST ETHERNET 0/0 PORT CONFIGURATION



SERIAL 2/0 PORT CONFIGURATION

The screenshot shows the B6 Router configuration interface. The left sidebar lists global settings, algorithm settings, routing (static and RIP), and various interfaces (FastEthernet0/0, FastEthernet1/0, Serial2/0, Serial3/0, FastEthernet4/0, FastEthernet5/0, and a serial6/0 entry). The main panel is titled "Serial2/0" and contains the following configuration:

Port Status	<input checked="" type="checkbox"/> On
Duplex	<input type="radio"/> Full Duplex
Clock Rate	2000000
IP Configuration	
IP Address	192.168.1.18
Subnet Mask	255.255.255.252
Tx Ring Limit	10

Below the configuration panel is a section titled "Equivalent IOS Commands" containing the following text:

```
Building6(config)#interface FastEthernet0/0
Building6(config-if)#
Building6(config-if)#exit
Building6(config)#interface Serial2/0
Building6(config-if)#

```

SERIAL 3/0 PORT CONFIGURATION

The screenshot shows the B6 Router configuration interface. The left sidebar lists global settings, algorithm settings, routing (static and RIP), and various interfaces (FastEthernet0/0, FastEthernet1/0, Serial2/0, Serial3/0, FastEthernet4/0, FastEthernet5/0, and a serial6/0 entry). The main panel is titled "Serial3/0" and contains the following configuration:

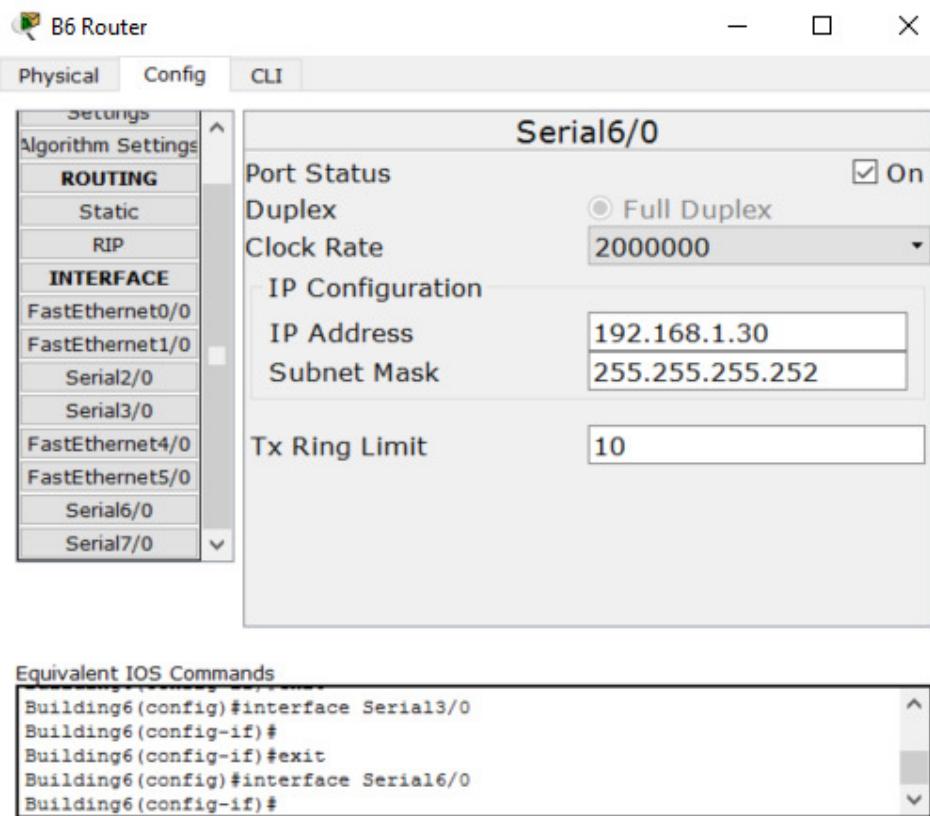
Port Status	<input checked="" type="checkbox"/> On
Duplex	<input type="radio"/> Full Duplex
Clock Rate	2000000
IP Configuration	
IP Address	192.168.1.21
Subnet Mask	255.255.255.252
Tx Ring Limit	10

Below the configuration panel is a section titled "Equivalent IOS Commands" containing the following text:

```
Building6(config)#interface Serial2/0
Building6(config-if)#
Building6(config-if)#exit
Building6(config)#interface Serial3/0
Building6(config-if)#

```

SERIAL 6/0 PORT CONFIGURATION



REFERENCE EXPLANATIONS:

Router configuration: (Learn Networking, 2010)

RIP routing: (Ryan, 2011) (Reddy, 2014)

DHCP configuration: (TheSk1dd [screen name], 2010) (Buddies, 2015)

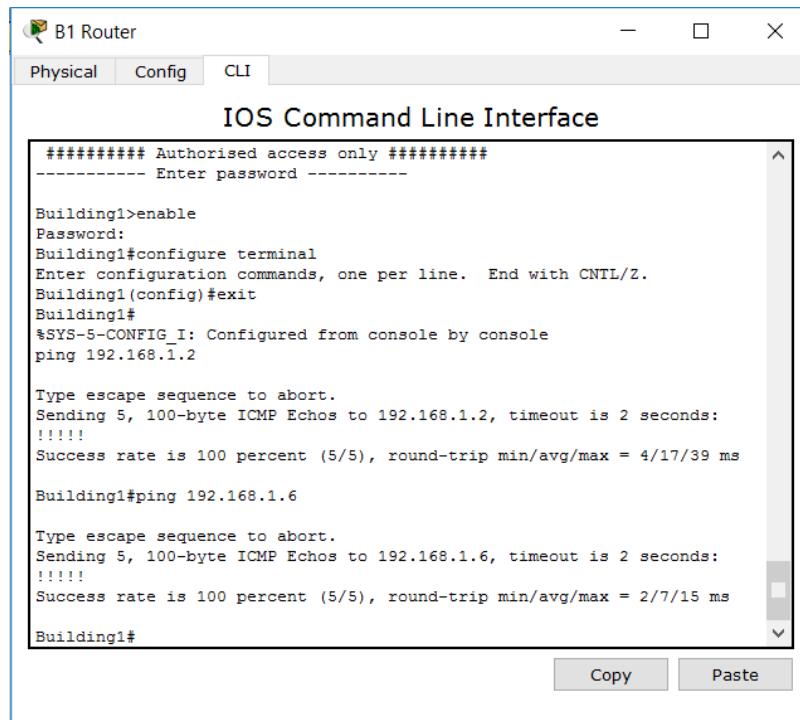
Subnetting the routers: (danscourses, 2011) (CCNA Exam Pointers, 2017)

Adding redundancy: (danscourses, 2015) (Academy, 2014)

QUESTION 3

ROUTERS

B1 to B2 , B3



B1 Router

Physical Config CLI

IOS Command Line Interface

```
##### Authorised access only #####
----- Enter password -----
```

```
Building1>enable
Password:
Building1#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Building1(config)#exit
Building1#
%SYS-5-CONFIG_I: Configured from console by console
ping 192.168.1.2

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.2, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 4/17/39 ms

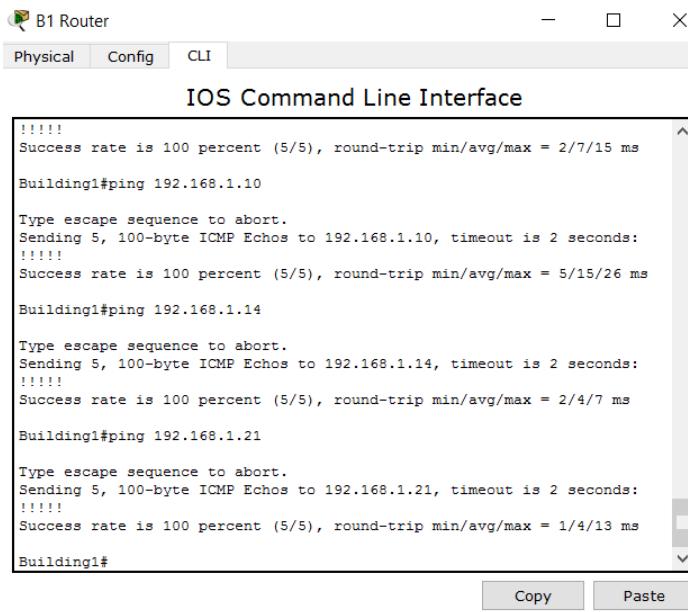
Building1#ping 192.168.1.6

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.6, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 2/7/15 ms

Building1#
```

Copy Paste

B1 to B4, B5, B6



B1 Router

Physical Config CLI

IOS Command Line Interface

```
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 2/7/15 ms

Building1#ping 192.168.1.10

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.10, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 5/15/26 ms

Building1#ping 192.168.1.14

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.14, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 2/4/7 ms

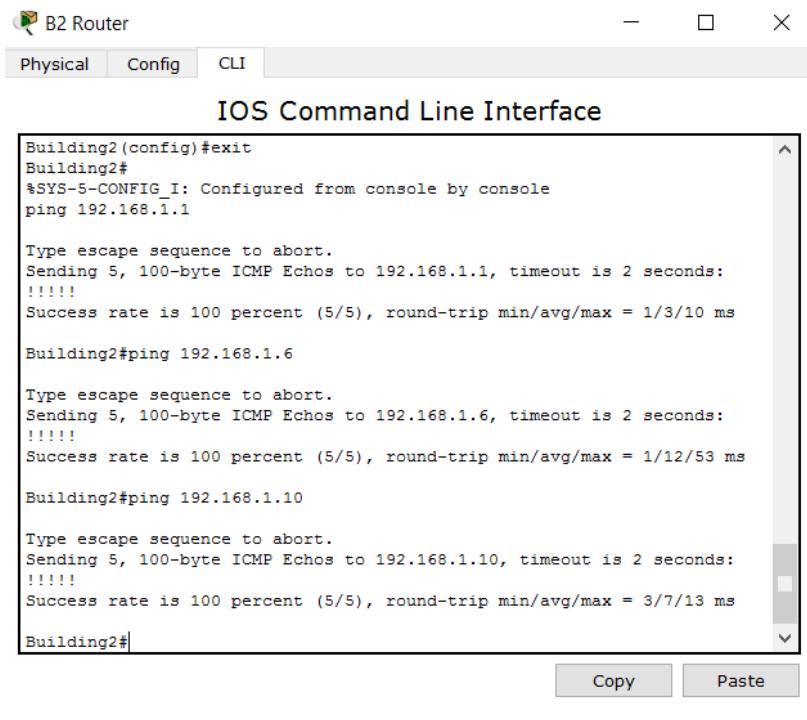
Building1#ping 192.168.1.21

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.21, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 1/4/13 ms

Building1#
```

Copy Paste

B2 to B1, B3, B4



B2 Router

Physical Config CLI

IOS Command Line Interface

```
Building2(config)#exit
Building2#
%SYS-5-CONFIG_I: Configured from console by console
ping 192.168.1.1

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.1, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 1/3/10 ms

Building2#ping 192.168.1.6

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.6, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 1/12/53 ms

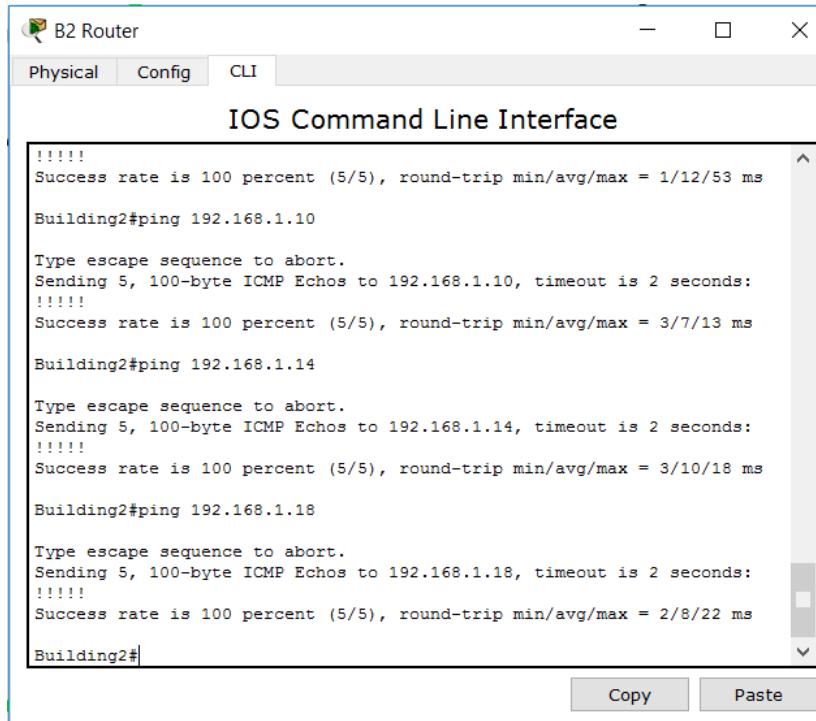
Building2#ping 192.168.1.10

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.10, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 3/7/13 ms

Building2#
```

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B2 to B5, B6



B2 Router

Physical Config CLI

IOS Command Line Interface

```
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 1/12/53 ms

Building2#ping 192.168.1.10

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.10, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 3/7/13 ms

Building2#ping 192.168.1.14

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.14, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 3/10/18 ms

Building2#ping 192.168.1.18

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.18, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 2/8/22 ms

Building2#
```

Copy Paste

B3 to B1, B2, B4

B3 Router

Physical Config CLI

IOS Command Line Interface

```
Building3(config)#exit
Building3#
SYS-5-CONFIG_I: Configured from console by console
ping 192.168.1.1

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.1, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 2/6/21 ms

Building3#ping 192.168.1.5

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.5, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 1/6/18 ms

Building3#ping 192.168.1.10

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.10, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 2/11/25 ms

Building3#
```

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B3 to B5, B6

B3 Router

Physical Config CLI

IOS Command Line Interface

```
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 1/6/18 ms

Building3#ping 192.168.1.10

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.10, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 2/11/25 ms

Building3#ping 192.168.1.17

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.17, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 2/11/24 ms

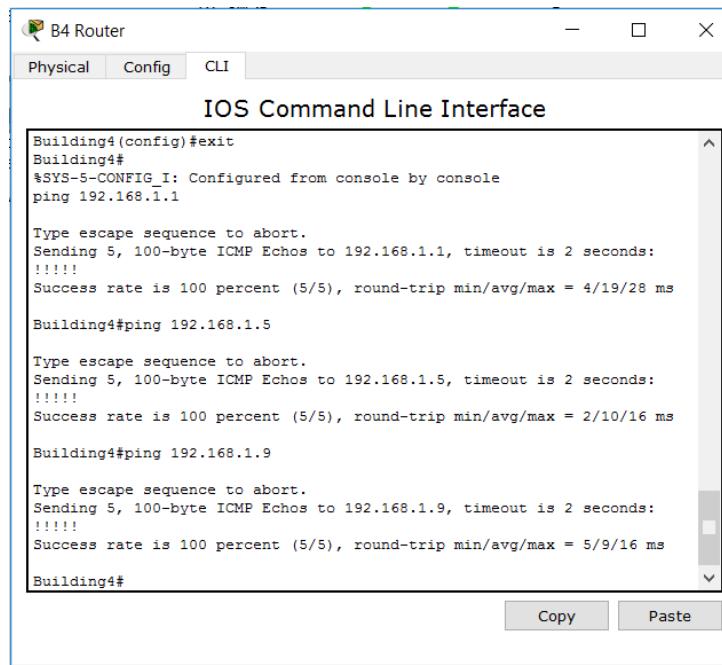
Building3#ping 192.168.1.21

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.21, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 2/11/28 ms

Building3#
```

Copy Paste

B4 to B1, B2, B3



B4 Router

Physical Config CLI

IOS Command Line Interface

```
Building4(config)#exit
Building4#
%SYS-5-CONFIG_I: Configured from console by console
ping 192.168.1.1

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.1, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 4/19/28 ms

Building4#ping 192.168.1.5

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.5, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 2/10/16 ms

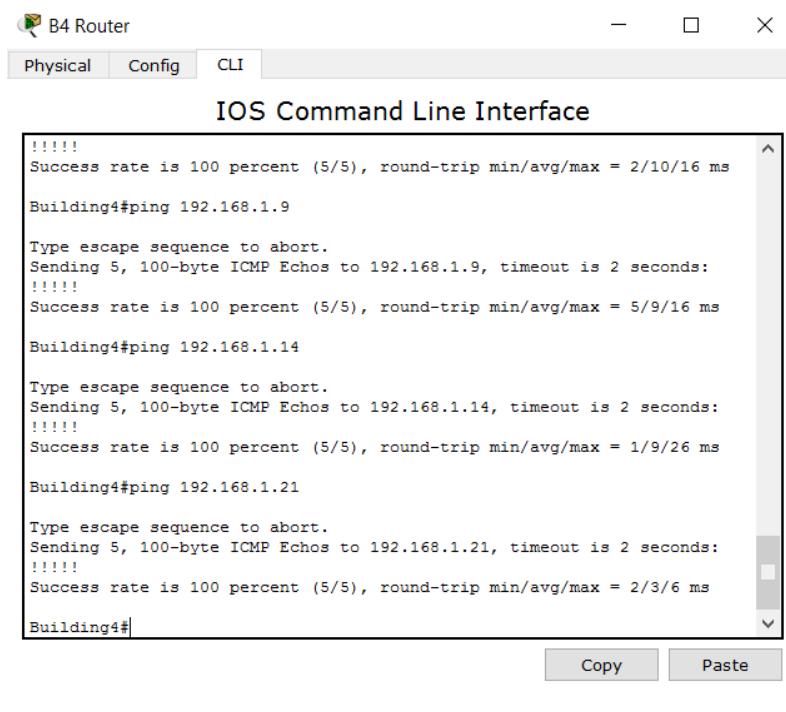
Building4#ping 192.168.1.9

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.9, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 5/9/16 ms

Building4#
```

Copy Paste

B4 to B5, B6



B4 Router

Physical Config CLI

IOS Command Line Interface

```
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 2/10/16 ms

Building4#ping 192.168.1.9

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.9, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 5/9/16 ms

Building4#ping 192.168.1.14

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.14, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 1/9/26 ms

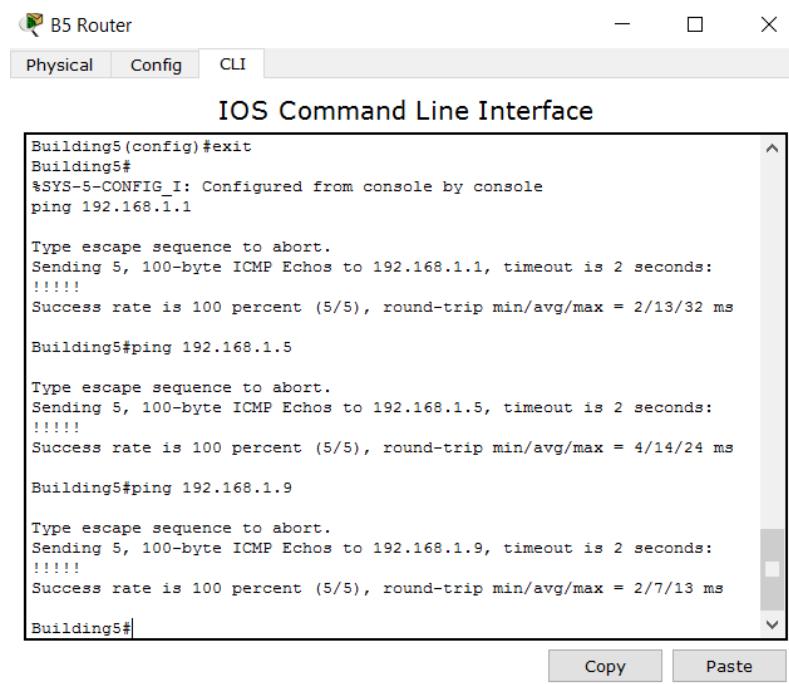
Building4#ping 192.168.1.21

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.21, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 2/3/6 ms

Building4#
```

Copy Paste

B5 to B1, B2, B3



B5 Router

Physical Config CLI

IOS Command Line Interface

```
Building5(config)#exit
Building5#
%SYS-5-CONFIG_I: Configured from console by console
ping 192.168.1.1

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.1, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 2/13/32 ms

Building5#ping 192.168.1.5

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.5, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 4/14/24 ms

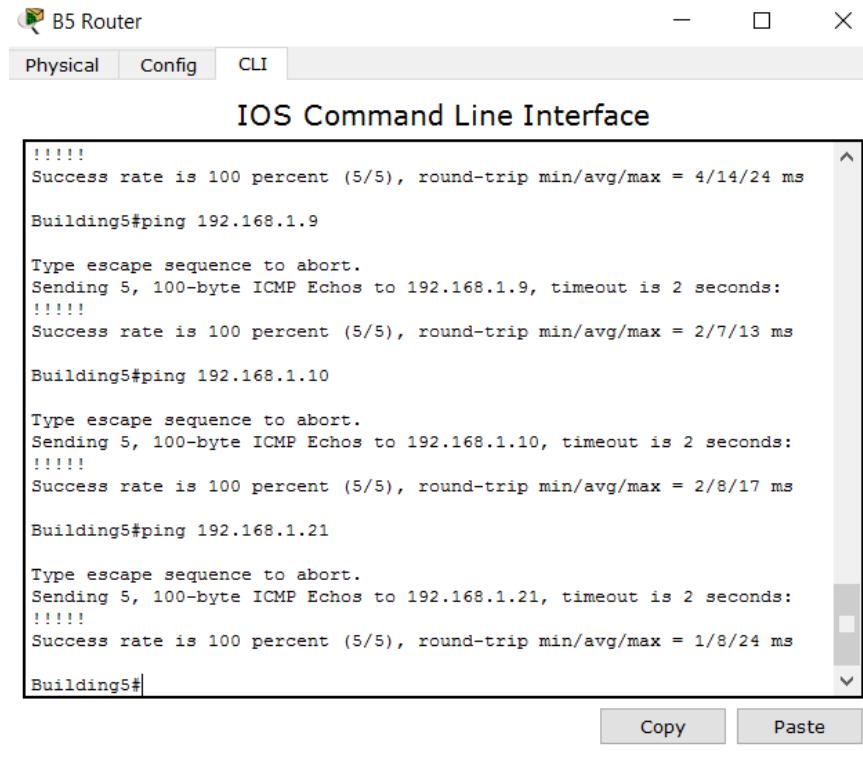
Building5#ping 192.168.1.9

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.9, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 2/7/13 ms

Building5#
```

Copy Paste

B5 to B4, B6



B5 Router

Physical Config CLI

IOS Command Line Interface

```
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 4/14/24 ms

Building5#ping 192.168.1.9

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.9, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 2/7/13 ms

Building5#ping 192.168.1.10

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.10, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 2/8/17 ms

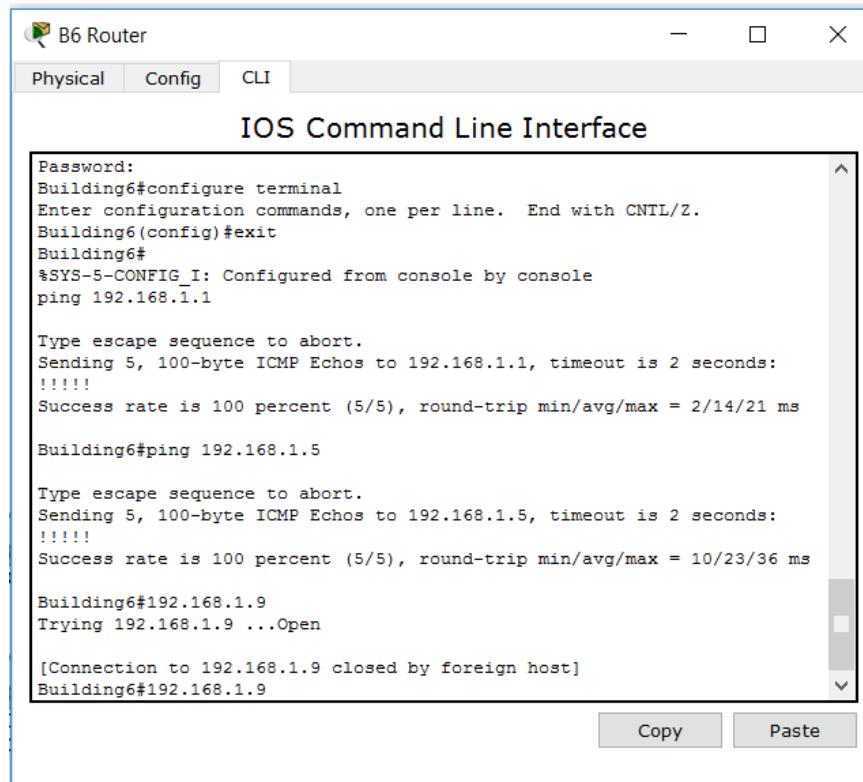
Building5#ping 192.168.1.21

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.21, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 1/8/24 ms

Building5#
```

Copy Paste

B6 to B1, B2



B6 Router

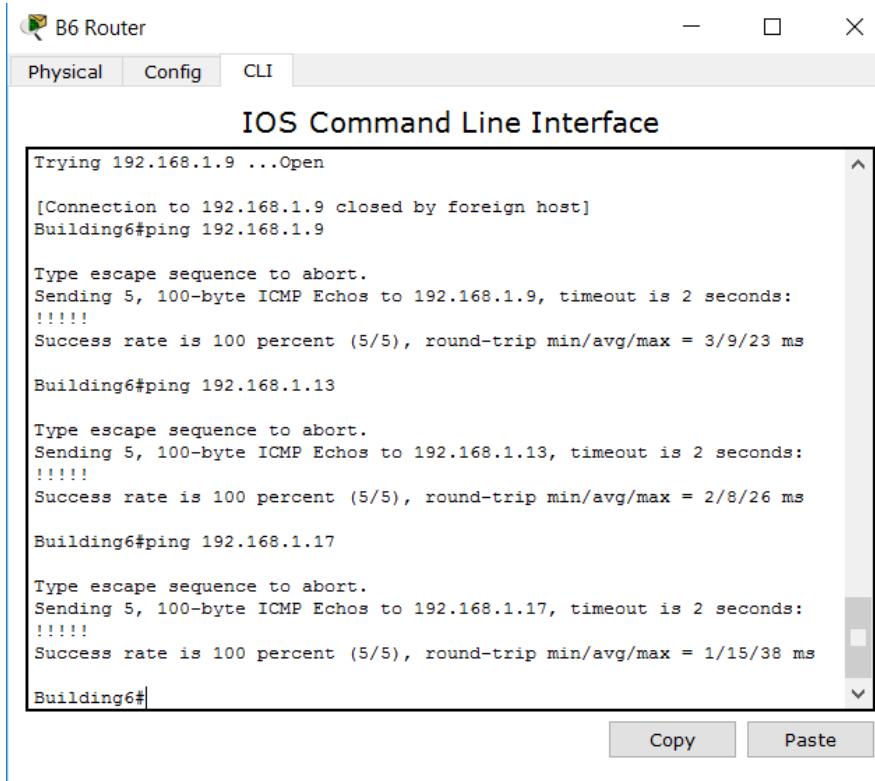
Physical Config CLI

IOS Command Line Interface

```
Password:  
Building6#configure terminal  
Enter configuration commands, one per line. End with CNTL/Z.  
Building6(config)#exit  
Building6#  
%SYS-5-CONFIG_I: Configured from console by console  
ping 192.168.1.1  
  
Type escape sequence to abort.  
Sending 5, 100-byte ICMP Echos to 192.168.1.1, timeout is 2 seconds:  
!!!!!  
Success rate is 100 percent (5/5), round-trip min/avg/max = 2/14/21 ms  
  
Building6#ping 192.168.1.5  
  
Type escape sequence to abort.  
Sending 5, 100-byte ICMP Echos to 192.168.1.5, timeout is 2 seconds:  
!!!!!  
Success rate is 100 percent (5/5), round-trip min/avg/max = 10/23/36 ms  
  
Building6#192.168.1.9  
Trying 192.168.1.9 ...Open  
  
[Connection to 192.168.1.9 closed by foreign host]  
Building6#192.168.1.9
```

Copy Paste

B6 to B3, B4, B5



B6 Router

Physical Config CLI

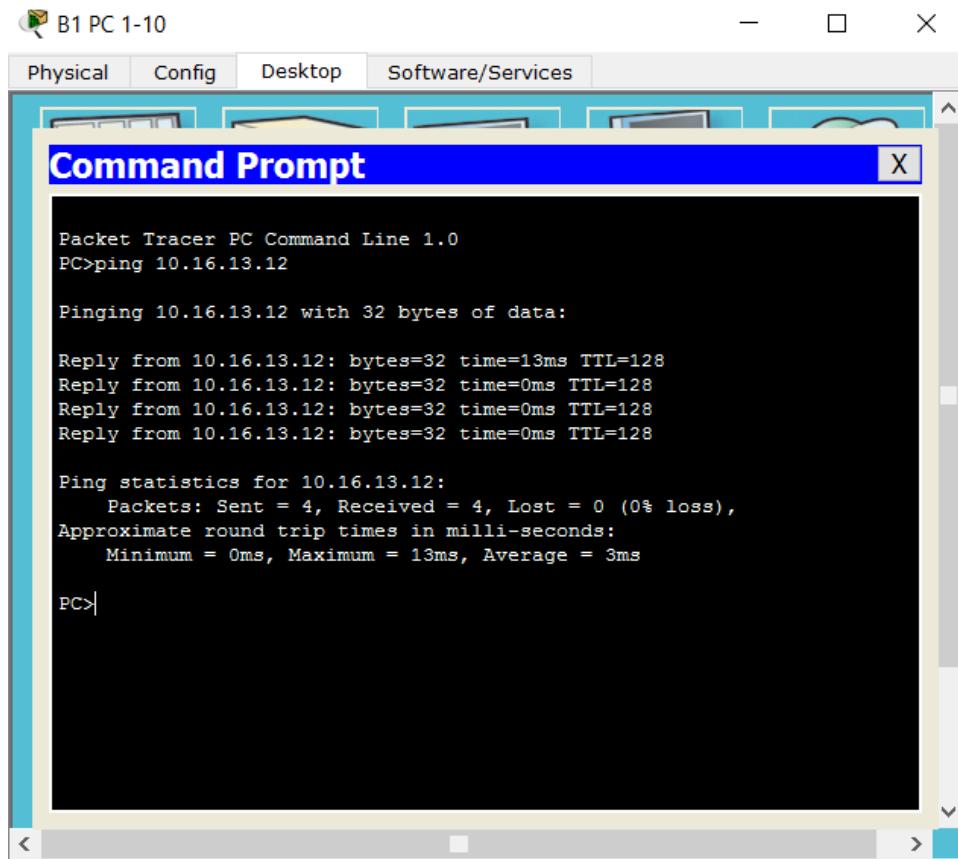
IOS Command Line Interface

```
Trying 192.168.1.9 ...Open  
  
[Connection to 192.168.1.9 closed by foreign host]  
Building6#ping 192.168.1.9  
  
Type escape sequence to abort.  
Sending 5, 100-byte ICMP Echos to 192.168.1.9, timeout is 2 seconds:  
!!!!!  
Success rate is 100 percent (5/5), round-trip min/avg/max = 3/9/23 ms  
  
Building6#ping 192.168.1.13  
  
Type escape sequence to abort.  
Sending 5, 100-byte ICMP Echos to 192.168.1.13, timeout is 2 seconds:  
!!!!!  
Success rate is 100 percent (5/5), round-trip min/avg/max = 2/8/26 ms  
  
Building6#ping 192.168.1.17  
  
Type escape sequence to abort.  
Sending 5, 100-byte ICMP Echos to 192.168.1.17, timeout is 2 seconds:  
!!!!!  
Success rate is 100 percent (5/5), round-trip min/avg/max = 1/15/38 ms  
  
Building6#
```

Copy Paste

BUILDING 1

PING WITHIN BUILDING 1:



Packet Tracer PC Command Line 1.0
PC>ping 10.16.13.12

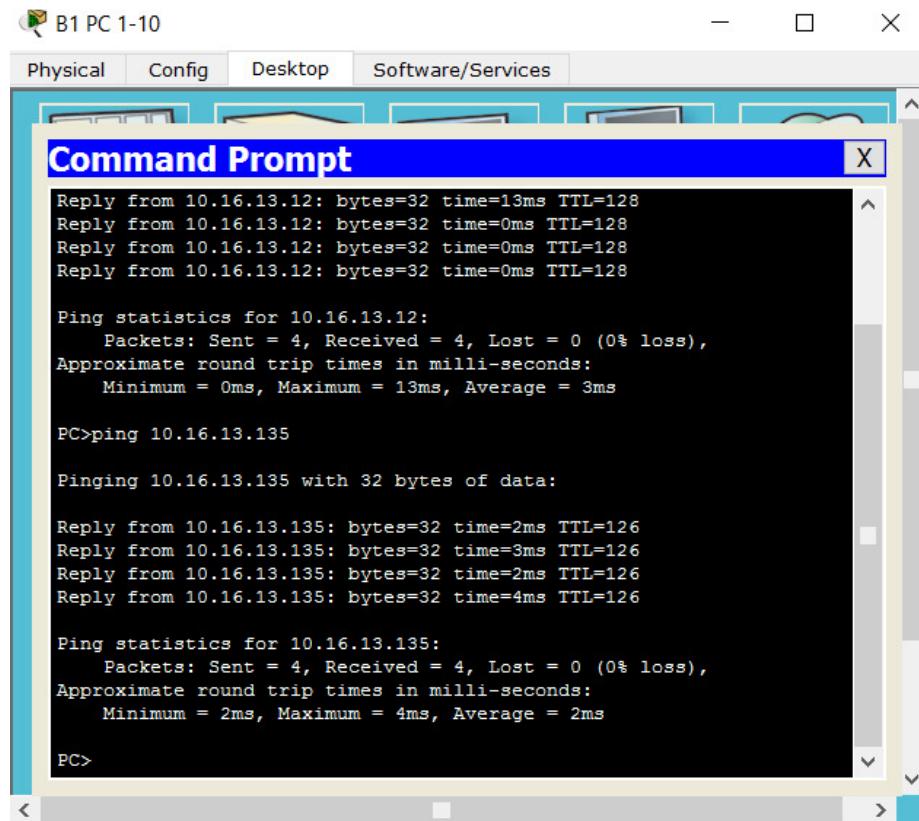
Pinging 10.16.13.12 with 32 bytes of data:

Reply from 10.16.13.12: bytes=32 time=13ms TTL=128
Reply from 10.16.13.12: bytes=32 time=0ms TTL=128
Reply from 10.16.13.12: bytes=32 time=0ms TTL=128
Reply from 10.16.13.12: bytes=32 time=0ms TTL=128

Ping statistics for 10.16.13.12:
 Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
 Minimum = 0ms, Maximum = 13ms, Average = 3ms

PC>

PING OUTSIDE BUILDING



Reply from 10.16.13.12: bytes=32 time=13ms TTL=128
Reply from 10.16.13.12: bytes=32 time=0ms TTL=128
Reply from 10.16.13.12: bytes=32 time=0ms TTL=128
Reply from 10.16.13.12: bytes=32 time=0ms TTL=128

Ping statistics for 10.16.13.12:
 Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
 Minimum = 0ms, Maximum = 13ms, Average = 3ms

PC>ping 10.16.13.135

Pinging 10.16.13.135 with 32 bytes of data:

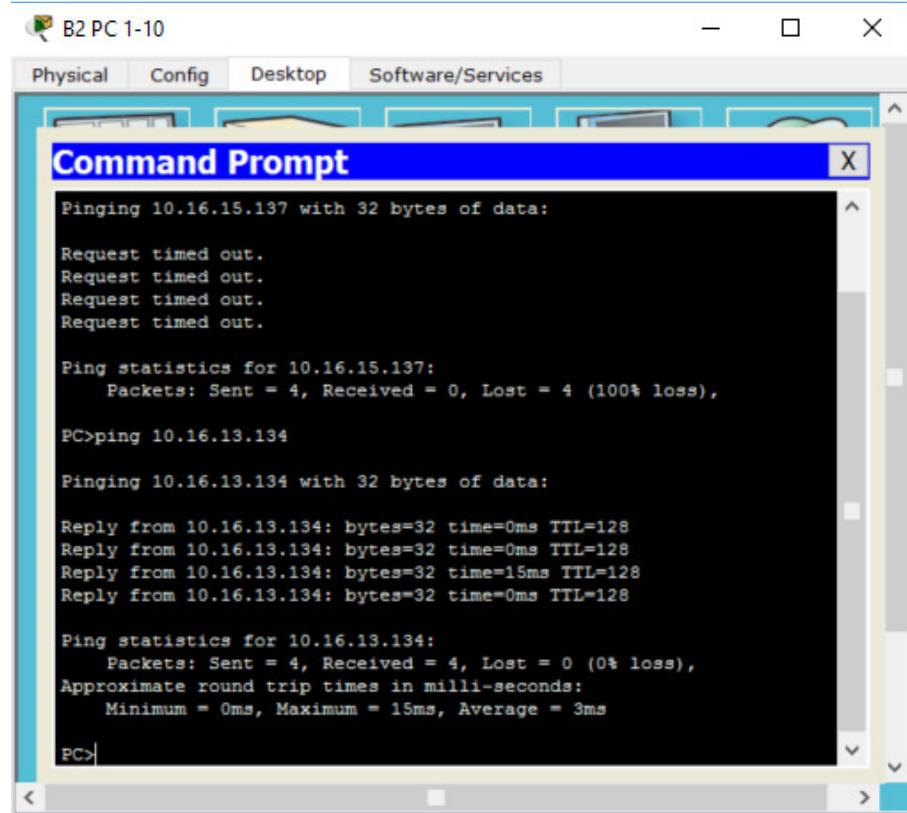
Reply from 10.16.13.135: bytes=32 time=2ms TTL=126
Reply from 10.16.13.135: bytes=32 time=3ms TTL=126
Reply from 10.16.13.135: bytes=32 time=2ms TTL=126
Reply from 10.16.13.135: bytes=32 time=4ms TTL=126

Ping statistics for 10.16.13.135:
 Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
 Minimum = 2ms, Maximum = 4ms, Average = 2ms

PC>

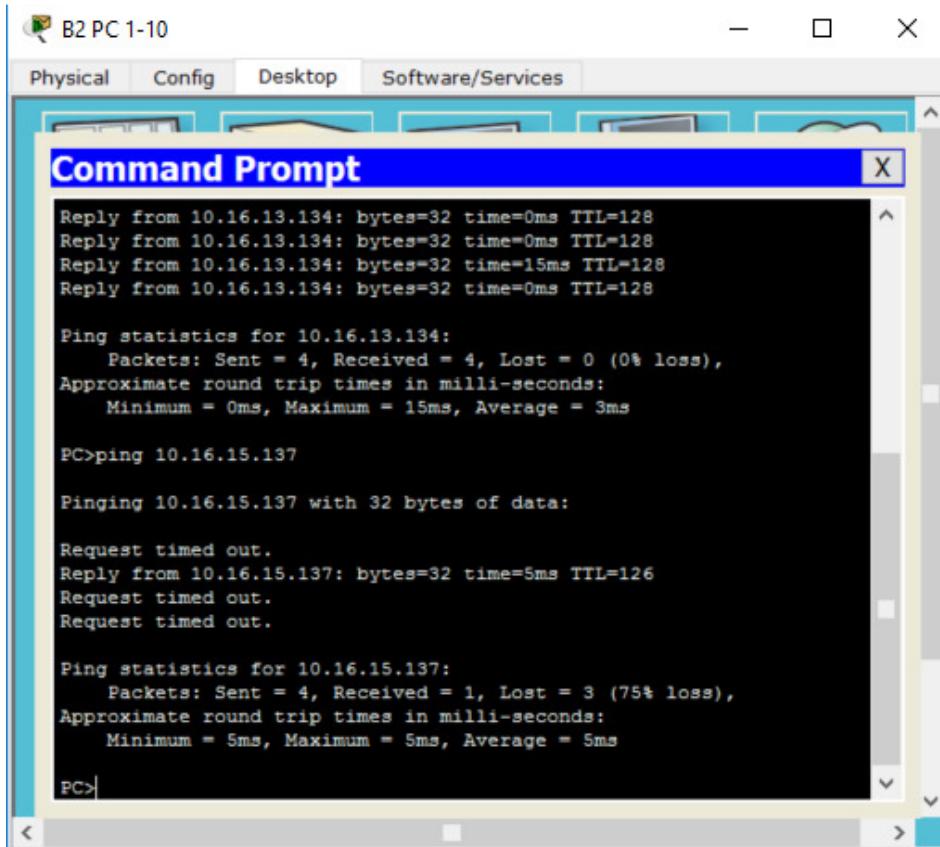
BUILDING 2

PING WITHIN BUILDING 2:



```
Pinging 10.16.15.137 with 32 bytes of data:  
  
Request timed out.  
Request timed out.  
Request timed out.  
Request timed out.  
  
Ping statistics for 10.16.15.137:  
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),  
  
PC>ping 10.16.13.134  
  
Pinging 10.16.13.134 with 32 bytes of data:  
  
Reply from 10.16.13.134: bytes=32 time=0ms TTL=128  
Reply from 10.16.13.134: bytes=32 time=0ms TTL=128  
Reply from 10.16.13.134: bytes=32 time=15ms TTL=128  
Reply from 10.16.13.134: bytes=32 time=0ms TTL=128  
  
Ping statistics for 10.16.13.134:  
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),  
Approximate round trip times in milli-segments:  
    Minimum = 0ms, Maximum = 15ms, Average = 3ms  
  
PC>
```

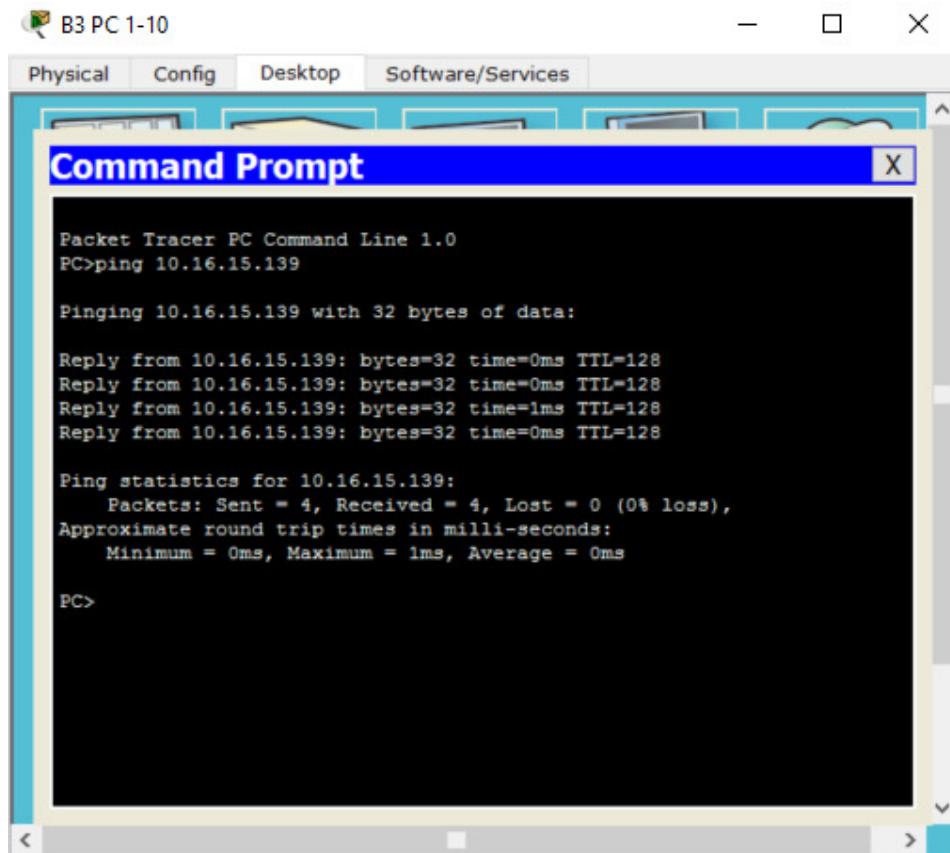
PING OUTSIDE BUILDING



```
Reply from 10.16.13.134: bytes=32 time=0ms TTL=128  
Reply from 10.16.13.134: bytes=32 time=0ms TTL=128  
Reply from 10.16.13.134: bytes=32 time=15ms TTL=128  
Reply from 10.16.13.134: bytes=32 time=0ms TTL=128  
  
Ping statistics for 10.16.13.134:  
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),  
Approximate round trip times in milli-segments:  
    Minimum = 0ms, Maximum = 15ms, Average = 3ms  
  
PC>ping 10.16.15.137  
  
Pinging 10.16.15.137 with 32 bytes of data:  
  
Request timed out.  
Reply from 10.16.15.137: bytes=32 time=5ms TTL=126  
Request timed out.  
Request timed out.  
  
Ping statistics for 10.16.15.137:  
    Packets: Sent = 4, Received = 1, Lost = 3 (75% loss),  
Approximate round trip times in milli-segments:  
    Minimum = 5ms, Maximum = 5ms, Average = 5ms  
  
PC>
```

BUILDING 3

PING WITHIN BUILDING 3:



Packet Tracer PC Command Line 1.0
PC>ping 10.16.15.139

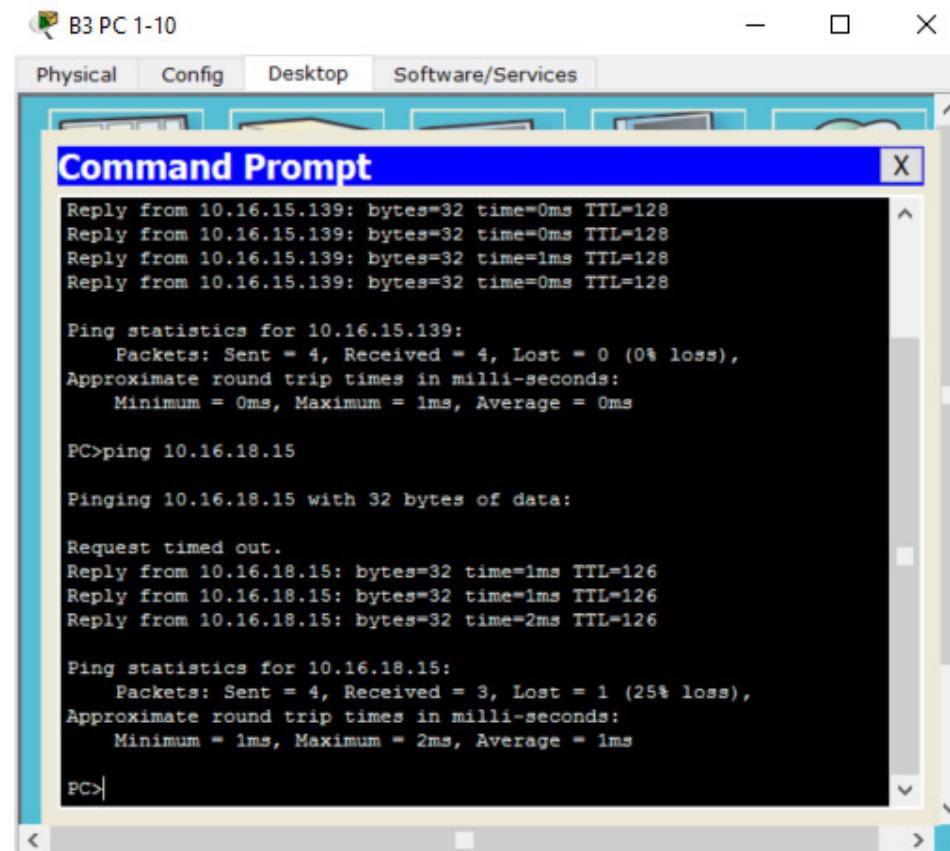
Pinging 10.16.15.139 with 32 bytes of data:

Reply from 10.16.15.139: bytes=32 time=0ms TTL=128
Reply from 10.16.15.139: bytes=32 time=0ms TTL=128
Reply from 10.16.15.139: bytes=32 time=1ms TTL=128
Reply from 10.16.15.139: bytes=32 time=0ms TTL=128

Ping statistics for 10.16.15.139:
 Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
 Approximate round trip times in milli-seconds:
 Minimum = 0ms, Maximum = 1ms, Average = 0ms

PC>

PING OUTSIDE BUILDING



Reply from 10.16.15.139: bytes=32 time=0ms TTL=128
Reply from 10.16.15.139: bytes=32 time=0ms TTL=128
Reply from 10.16.15.139: bytes=32 time=1ms TTL=128
Reply from 10.16.15.139: bytes=32 time=0ms TTL=128

Ping statistics for 10.16.15.139:
 Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
 Approximate round trip times in milli-seconds:
 Minimum = 0ms, Maximum = 1ms, Average = 0ms

PC>ping 10.16.18.15

Pinging 10.16.18.15 with 32 bytes of data:

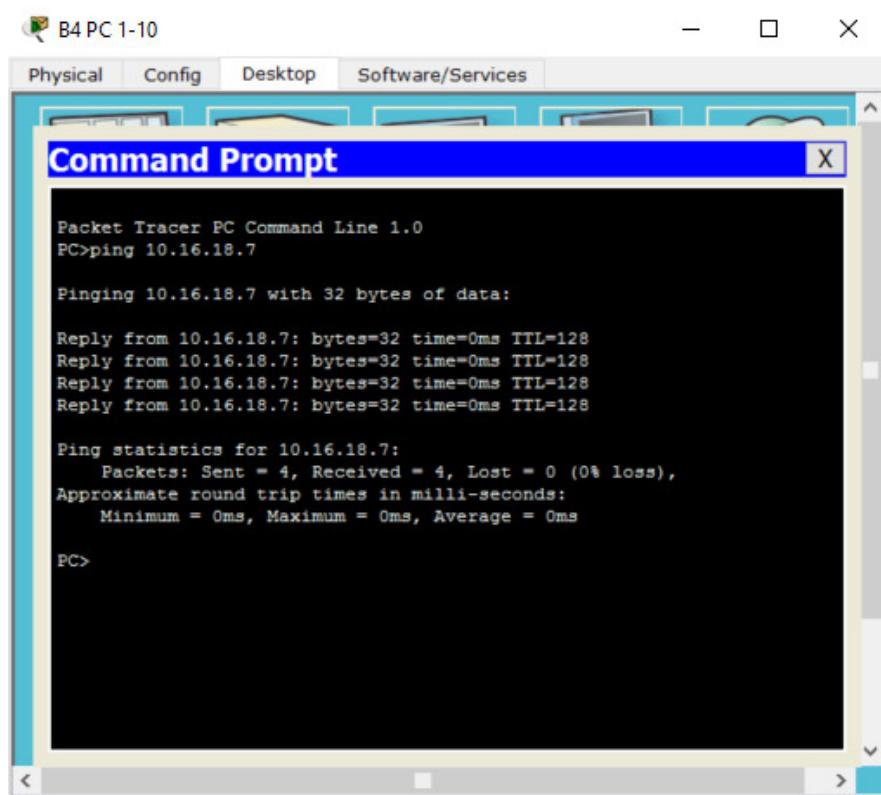
Request timed out.
Reply from 10.16.18.15: bytes=32 time=1ms TTL=126
Reply from 10.16.18.15: bytes=32 time=1ms TTL=126
Reply from 10.16.18.15: bytes=32 time=2ms TTL=126

Ping statistics for 10.16.18.15:
 Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
 Approximate round trip times in milli-seconds:
 Minimum = 1ms, Maximum = 2ms, Average = 1ms

PC>|

BUILDING 4

PING WITHIN BUILDING 4:



Packet Tracer PC Command Line 1.0
PC>ping 10.16.18.7

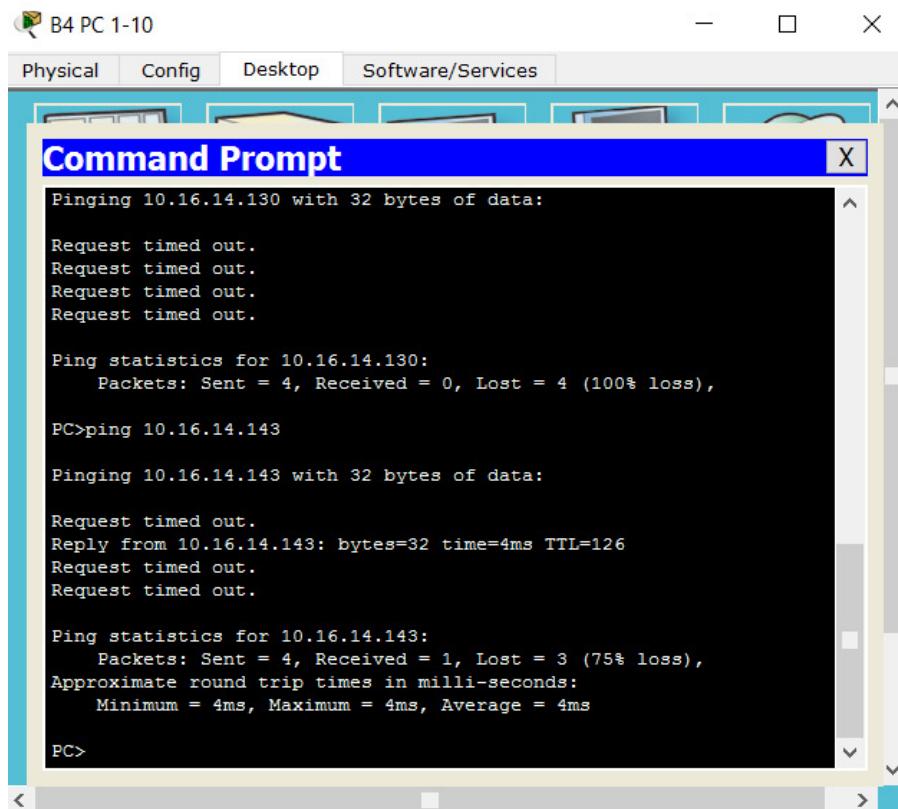
Pinging 10.16.18.7 with 32 bytes of data:

Reply from 10.16.18.7: bytes=32 time=0ms TTL=128

Ping statistics for 10.16.18.7:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms

PC>

PING OUTSIDE BUILDING



Pinging 10.16.14.130 with 32 bytes of data:

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

Ping statistics for 10.16.14.130:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

PC>ping 10.16.14.143

Pinging 10.16.14.143 with 32 bytes of data:

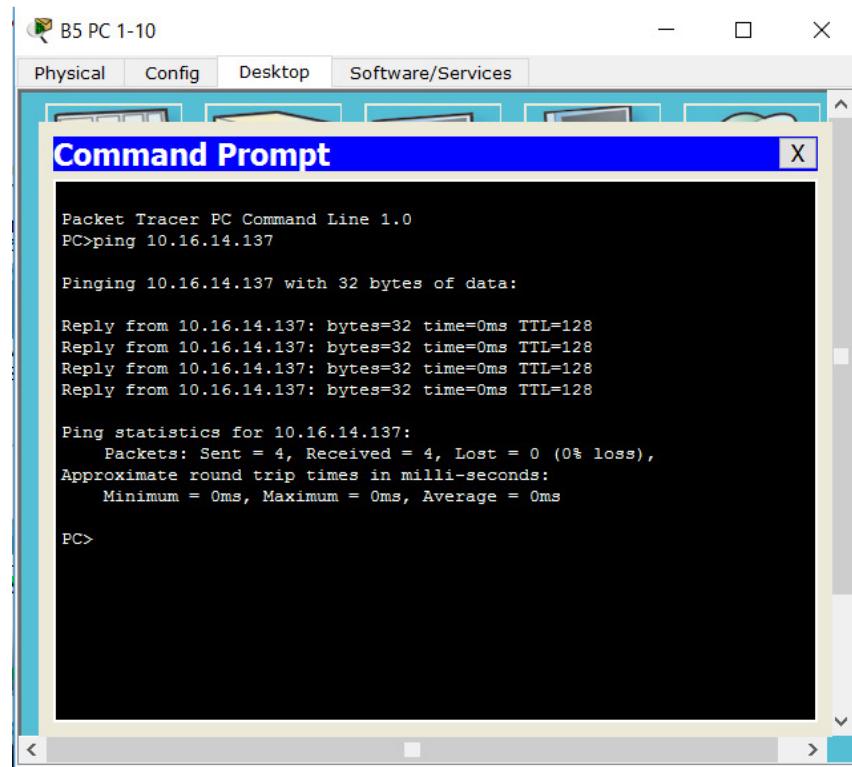
Request timed out.
Reply from 10.16.14.143: bytes=32 time=4ms TTL=126
Request timed out.
Request timed out.

Ping statistics for 10.16.14.143:
Packets: Sent = 4, Received = 1, Lost = 3 (75% loss),
Approximate round trip times in milli-seconds:
Minimum = 4ms, Maximum = 4ms, Average = 4ms

PC>

BUILDING 5

PING WITHIN BUILDING 5:



Packet Tracer PC Command Line 1.0
PC>ping 10.16.14.137

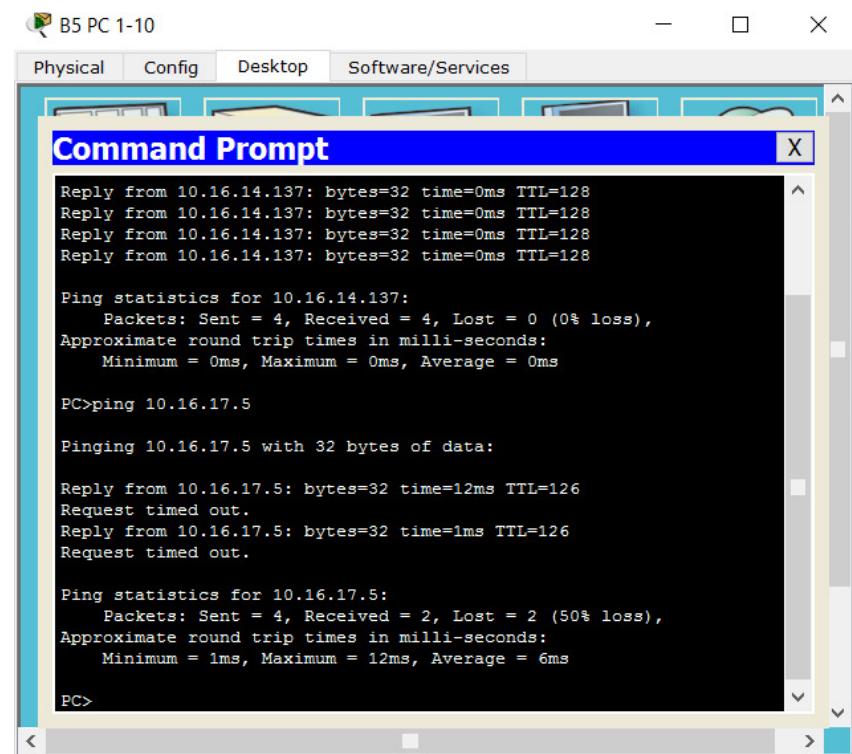
Pinging 10.16.14.137 with 32 bytes of data:

Reply from 10.16.14.137: bytes=32 time=0ms TTL=128

Ping statistics for 10.16.14.137:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms

PC>

PING OUTSIDE BUILDING



Reply from 10.16.14.137: bytes=32 time=0ms TTL=128

Ping statistics for 10.16.14.137:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms

PC>ping 10.16.17.5

Pinging 10.16.17.5 with 32 bytes of data:

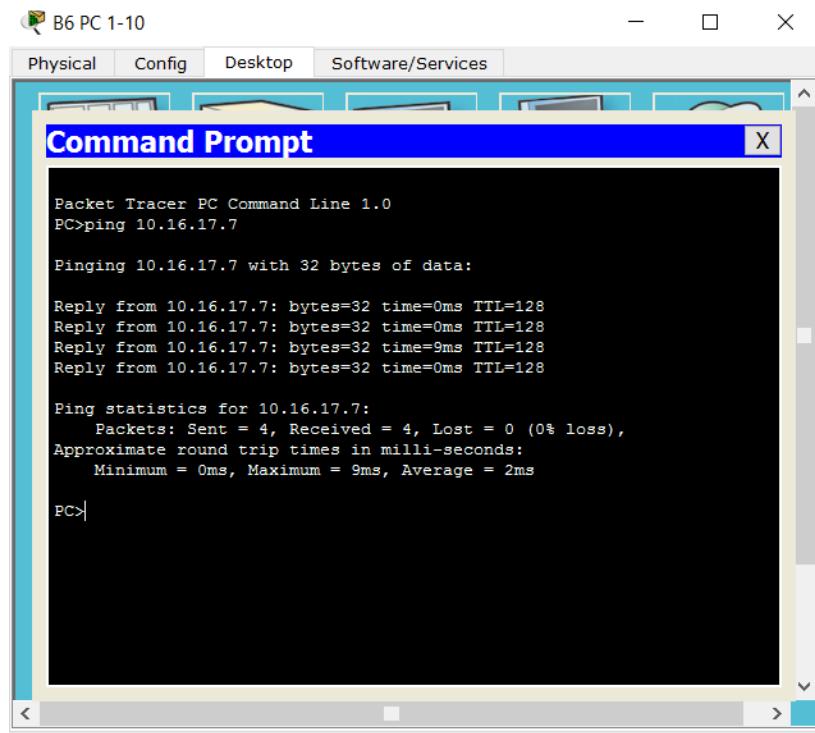
Reply from 10.16.17.5: bytes=32 time=12ms TTL=126
Request timed out.
Reply from 10.16.17.5: bytes=32 time=1ms TTL=126
Request timed out.

Ping statistics for 10.16.17.5:
Packets: Sent = 4, Received = 2, Lost = 2 (50% loss),
Approximate round trip times in milli-seconds:
Minimum = 1ms, Maximum = 12ms, Average = 6ms

PC>

BUILDING 6

PING WITHIN BUILDING 6:



```
Packet Tracer PC Command Line 1.0
PC>ping 10.16.17.7

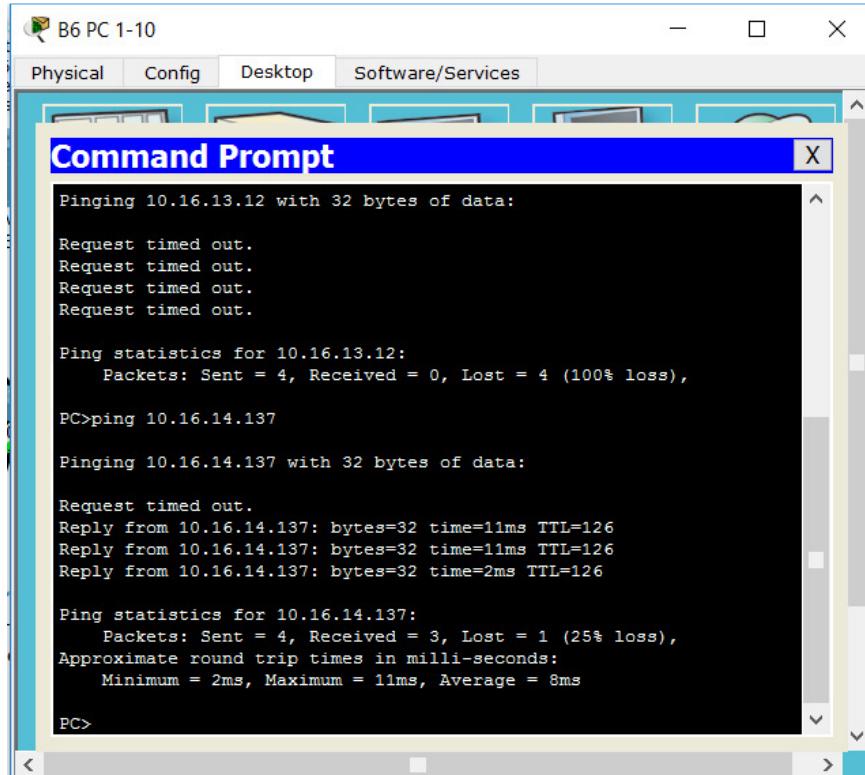
Pinging 10.16.17.7 with 32 bytes of data:

Reply from 10.16.17.7: bytes=32 time=0ms TTL=128
Reply from 10.16.17.7: bytes=32 time=0ms TTL=128
Reply from 10.16.17.7: bytes=32 time=9ms TTL=128
Reply from 10.16.17.7: bytes=32 time=0ms TTL=128

Ping statistics for 10.16.17.7:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 9ms, Average = 2ms

PC>
```

PING OUTSIDE BUILDING



```
Pinging 10.16.13.12 with 32 bytes of data:

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

Ping statistics for 10.16.13.12:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

PC>ping 10.16.14.137

Pinging 10.16.14.137 with 32 bytes of data:

Request timed out.
Reply from 10.16.14.137: bytes=32 time=11ms TTL=126
Reply from 10.16.14.137: bytes=32 time=11ms TTL=126
Reply from 10.16.14.137: bytes=32 time=2ms TTL=126

Ping statistics for 10.16.14.137:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 11ms, Average = 8ms

PC>
```

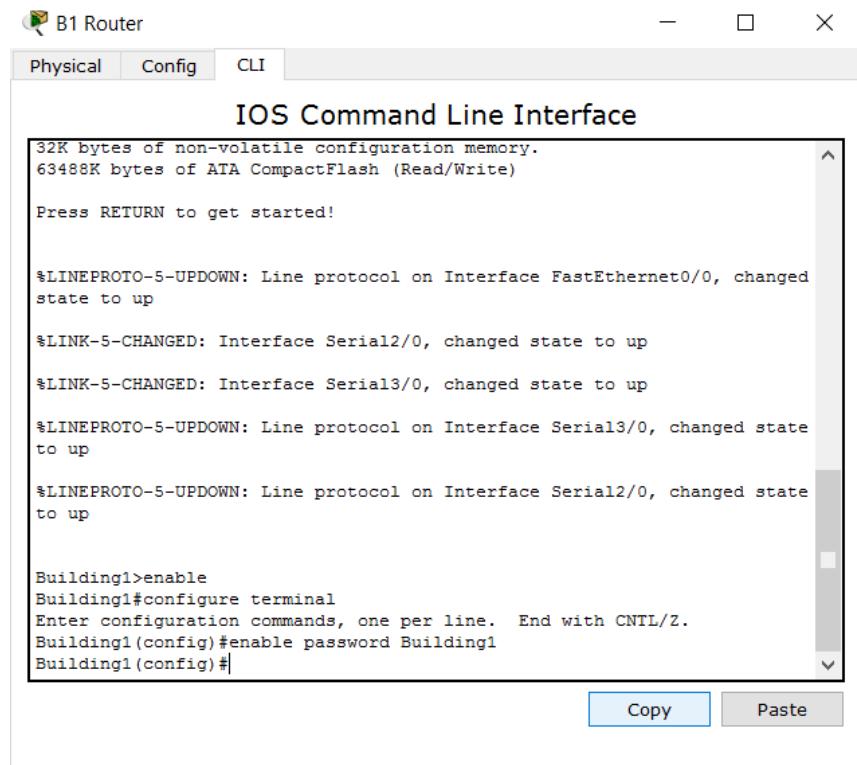
QUESTION 4

QUESTION 4.1

Passwords allocated to each main router:

Router	Password	Secret
B1 Router	Building1	Secret1
B2 Router	Building2	Secret2
B3 Router	Building3	Secret3
B4 Router	Building4	Secret4
B5 Router	Building5	Secret5
B6 Router	Building6	Secret6
Backup B1B6	B1B6	Secret16
Backup B2B5	B2B5	Secret25
Backup B3B4	B3B4	Secret34

Building 1 Router



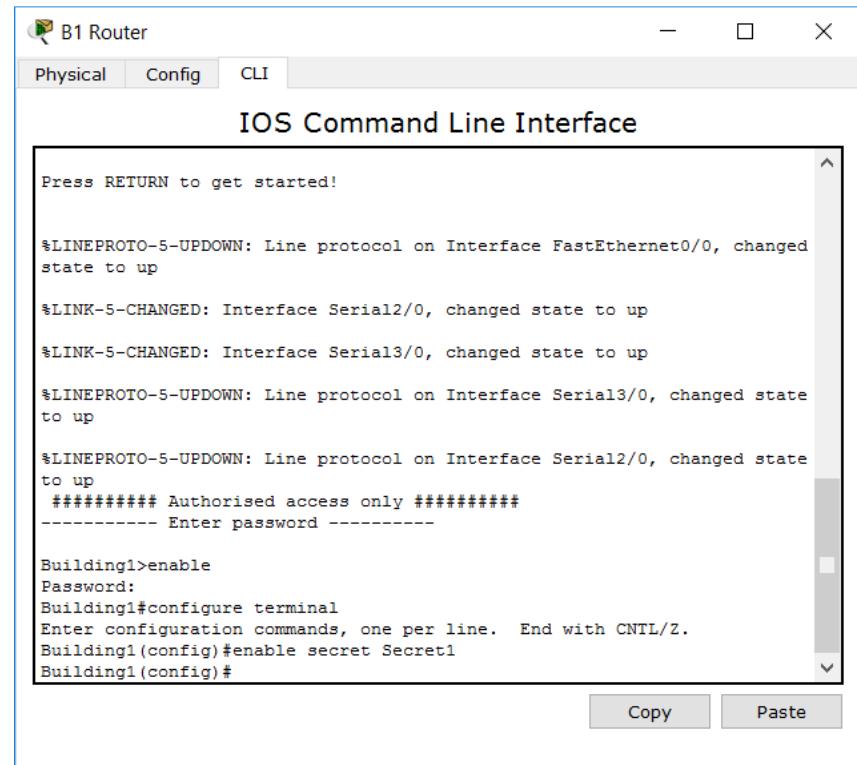
B1 Router

Physical Config CLI

IOS Command Line Interface

```
32K bytes of non-volatile configuration memory.  
63488K bytes of ATA CompactFlash (Read/Write)  
  
Press RETURN to get started!  
  
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up  
%LINK-5-CHANGED: Interface Serial2/0, changed state to up  
%LINK-5-CHANGED: Interface Serial3/0, changed state to up  
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state to up  
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up  
  
Building1>enable  
Building1#configure terminal  
Enter configuration commands, one per line. End with CNTL/Z.  
Building1(config)#enable password Building1  
Building1(config)#
```

Copy Paste



B1 Router

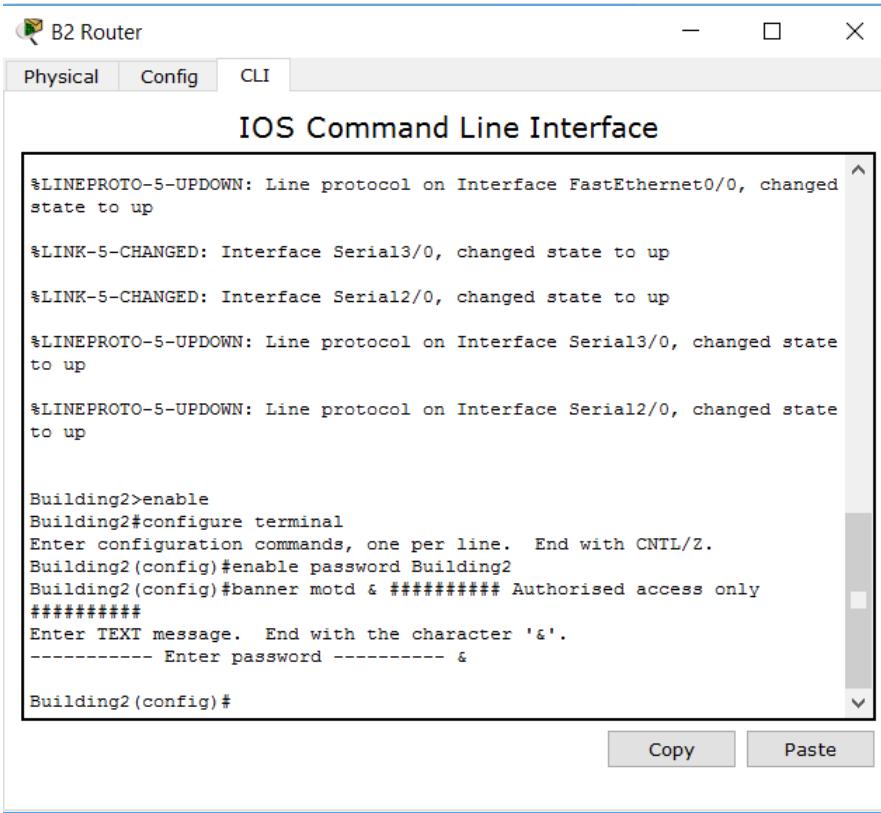
Physical Config CLI

IOS Command Line Interface

```
Press RETURN to get started!  
  
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up  
%LINK-5-CHANGED: Interface Serial2/0, changed state to up  
%LINK-5-CHANGED: Interface Serial3/0, changed state to up  
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state to up  
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up  
##### Authorised access only #####  
----- Enter password -----  
  
Building1>enable  
Password:  
Building1#configure terminal  
Enter configuration commands, one per line. End with CNTL/Z.  
Building1(config)#enable secret Secret1  
Building1(config)#
```

Copy Paste

Building 2 Router



B2 Router

Physical Config CLI

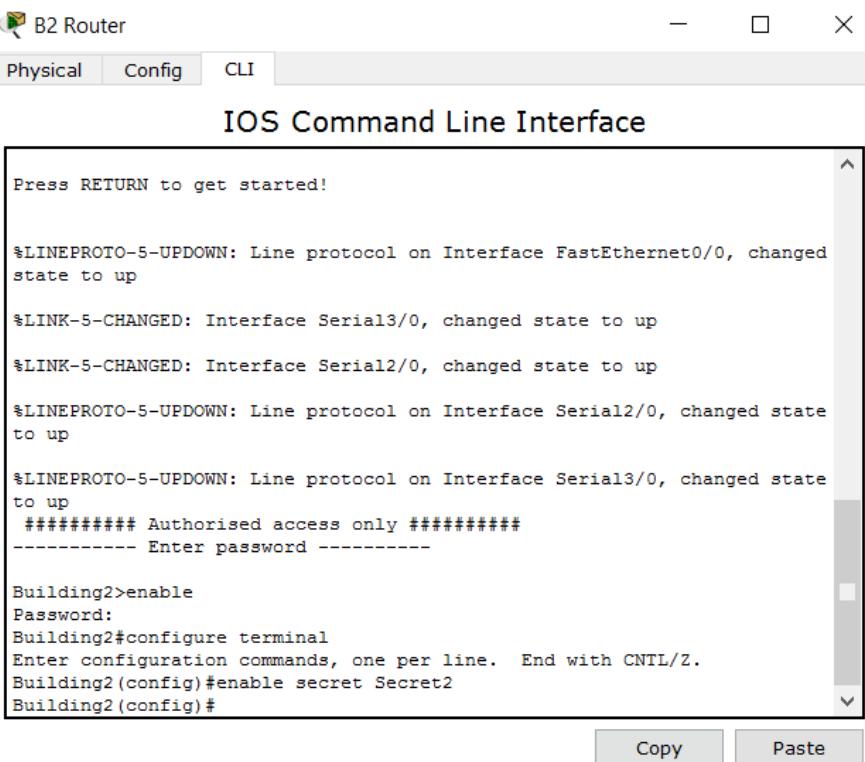
IOS Command Line Interface

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
%LINK-5-CHANGED: Interface Serial3/0, changed state to up
%LINK-5-CHANGED: Interface Serial2/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up

Building2>enable
Building2#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Building2(config)#enable password Building2
Building2(config)#banner motd & ##### Authorised access only
#####
Enter TEXT message. End with the character '&'.
----- Enter password ----- &
Building2(config)#

```

Copy Paste



B2 Router

Physical Config CLI

IOS Command Line Interface

```
Press RETURN to get started!

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
%LINK-5-CHANGED: Interface Serial3/0, changed state to up
%LINK-5-CHANGED: Interface Serial2/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state to up
##### Authorised access only #####
----- Enter password -----

Building2>enable
Password:
Building2#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Building2(config)#enable secret Secret2
Building2(config)#

```

Copy Paste

Building 3 Router

B3 Router

Physical Config CLI

IOS Command Line Interface

```
%LINK-5-CHANGED: Interface Serial3/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed
state to up
%LINK-5-CHANGED: Interface Serial2/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state
to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state
to up

Building3>enable
Building3#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Building3(config)#enable password Building3
Building3(config)#banner motd & ##### Authorised access only
#####
Enter TEXT message. End with the character '&'.
----- Enter password ----- &

Building3(config)#[
```

Copy Paste

B3 Router

Physical Config CLI

IOS Command Line Interface

```
Press RETURN to get started!

%LINK-5-CHANGED: Interface Serial3/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed
state to up
%LINK-5-CHANGED: Interface Serial2/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state
to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state
to up
##### Authorised access only #####
----- Enter password ----->

Building3>enable
Password:
Building3#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Building3(config)#enable secret Secret3
Building3(config)#[
```

Copy Paste

Building 4 Router

B4 Router

Physical Config CLI

IOS Command Line Interface

```
%LINK-5-CHANGED: Interface Serial2/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed
state to up

%LINK-5-CHANGED: Interface Serial3/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state
to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state
to up

Building4>enable
Building4#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Building4(config)#enable password Building4
Building4(config)#banner motd & ##### Authorised access only
#####
Enter TEXT message. End with the character '&'.
----- Enter password ----- &
Building4(config)#

```

Copy Paste

B4 Router

Physical Config CLI

IOS Command Line Interface

```
Press RETURN to get started!

%LINK-5-CHANGED: Interface Serial2/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed
state to up

%LINK-5-CHANGED: Interface Serial3/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state
to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state
to up
##### Authorised access only #####
----- Enter password ----->

Building4>enable
Password:
Building4#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Building4(config)#enable secret Secret4
Building4(config)#

```

Copy Paste

Building 5 Router

B5 Router

Physical Config CLI

IOS Command Line Interface

```
%LINK-5-CHANGED: Interface Serial2/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed
state to up

%LINK-5-CHANGED: Interface Serial3/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state
to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state
to up

Building5>enable
Building5#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Building5(config)#enable password Building5
Building5(config)#banner motd & ##### Authorised access only
#####
Enter TEXT message. End with the character '&'.
----- Enter password ----- &

Building5(config) #
```

Copy Paste

B5 Router

Physical Config CLI

IOS Command Line Interface

```
Press RETURN to get started!

%LINK-5-CHANGED: Interface Serial2/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed
state to up

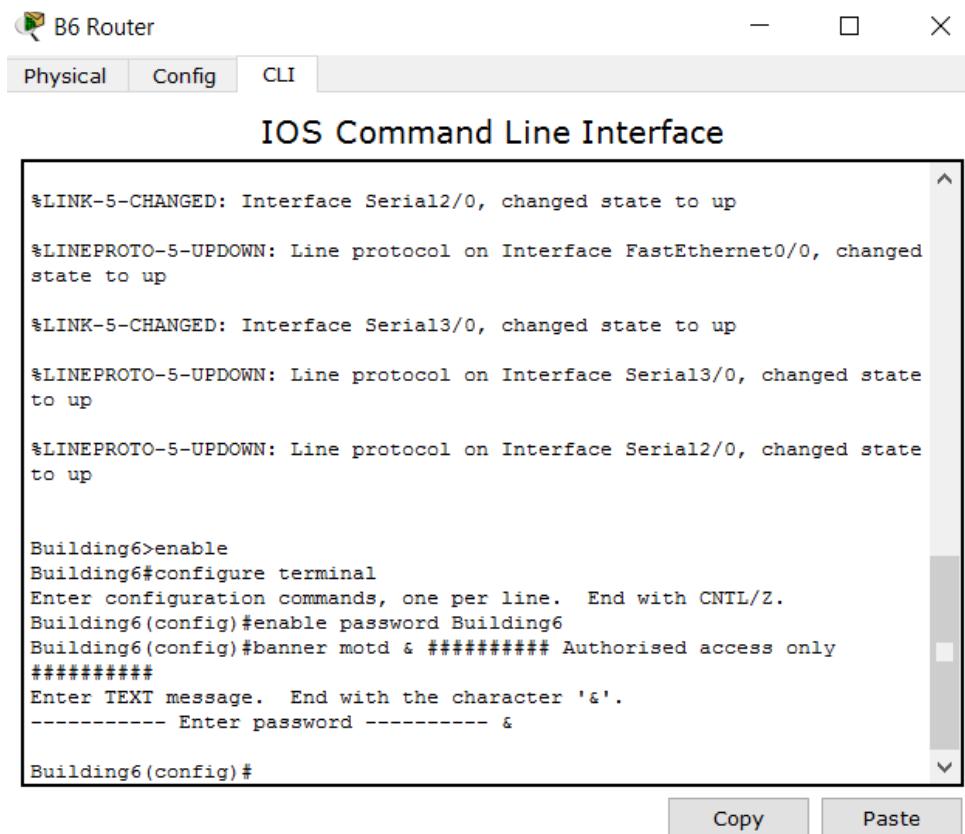
%LINK-5-CHANGED: Interface Serial3/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state
to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state
to up
##### Authorised access only #####
----- Enter password -----


Building5>enable
Password:
Building5#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Building5(config)#enable secret Secret5
Building5(config) #
```

Copy Paste

Building 6 Router



B6 Router

Physical Config CLI

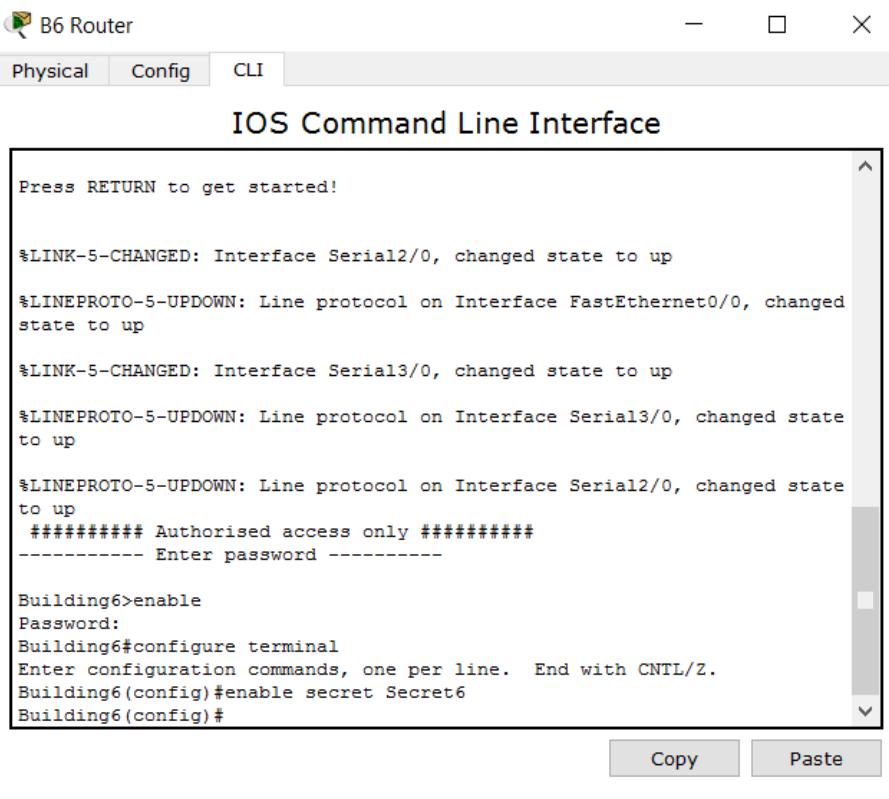
IOS Command Line Interface

```
%LINK-5-CHANGED: Interface Serial2/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed
state to up
%LINK-5-CHANGED: Interface Serial3/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state
to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state
to up

Building6>enable
Building6#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Building6(config)#enable password Building6
Building6(config)#banner motd & ##### Authorised access only
#####
Enter TEXT message. End with the character '&'.
----- Enter password ----- &
Building6(config)#

```

Copy Paste



B6 Router

Physical Config CLI

IOS Command Line Interface

```
Press RETURN to get started!

%LINK-5-CHANGED: Interface Serial2/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed
state to up
%LINK-5-CHANGED: Interface Serial3/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state
to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state
to up
##### Authorised access only #####
----- Enter password -----

Building6>enable
Password:
Building6#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Building6(config)#enable secret Secret6
Building6(config)#

```

Copy Paste

Backup B1 B6 Router

Backup B1 B6

Physical Config CLI

IOS Command Line Interface

Press RETURN to get started.

```
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname B1B6
B1B6(config)#enable password B1B6
B1B6(config)#enable secret Secret16
B1B6(config)#banner motd & ##### Authorised access only #####
Enter TEXT message. End with the character '&'.
----- Enter password ----- &

B1B6(config)#

```

Copy Paste

Backup B2 B5



Backup B2 B5

Physical Config CLI

IOS Command Line Interface

```
Router(config-router)#exit
Router(config)#interface Serial3/0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface Serial3/0, changed state to up
ip address 192.168.1.37 255.255.255.252
Router(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state
to up

Router(config-if)#end
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname B2B5
B2B5(config)#
%SYS-5-CONFIG_I: Configured from console by console

B2B5(config)#enable password B2B5
B2B5(config)#enable secret Secret25
B2B5(config)#banner motd & ##### Authorised access only #####
Enter TEXT message. End with the character '&'.
----- Enter password ----- &

B2B5(config)#[
```

Backup B3 B4 Router

```
Router(config-if)#
%LINK-5-CHANGED: Interface Serial3/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state
to up
ip address 192.168.1.45 255.255.255.252
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial2/0
Router(config-if)#
Router(config-if)#end
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname B3B4
B3B4(config)#
%SYS-5-CONFIG_I: Configured from console by console

B3B4(config)#enable password B3B4
B3B4(config)#enable secret Secret34
B3B4(config)#banner motd & ##### Authorised access only #####
Enter TEXT message. End with the character '&'.
----- Enter password ----- &

B3B4(config)#

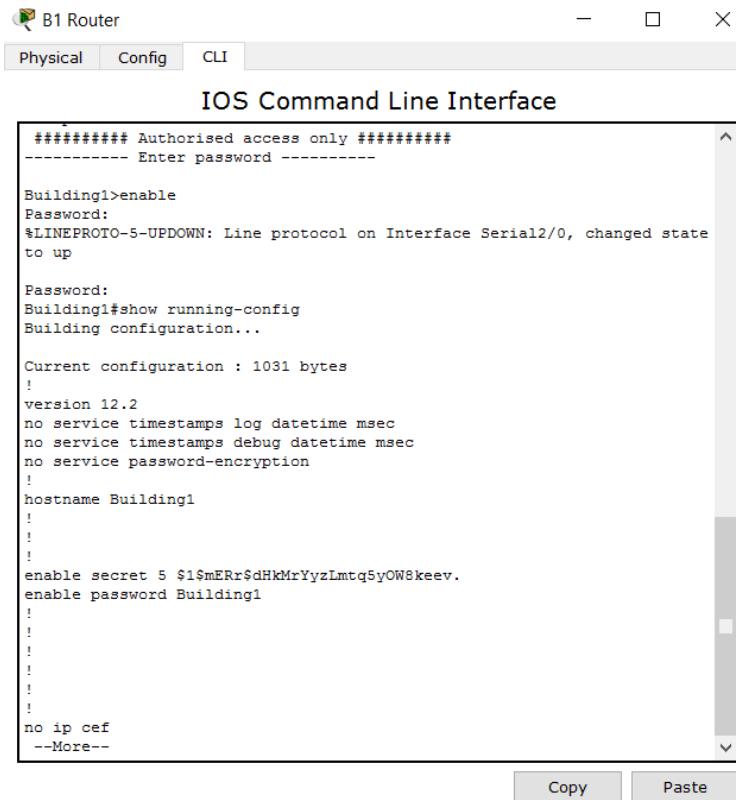
```

Copy Paste

References for configuring router, enabling password and secret: (Computer Networking Basic Tutorials and Study Guides, 2017) (Tetz, 2017) (S, 2013)

QUESTION 4.2

Building 1 Router

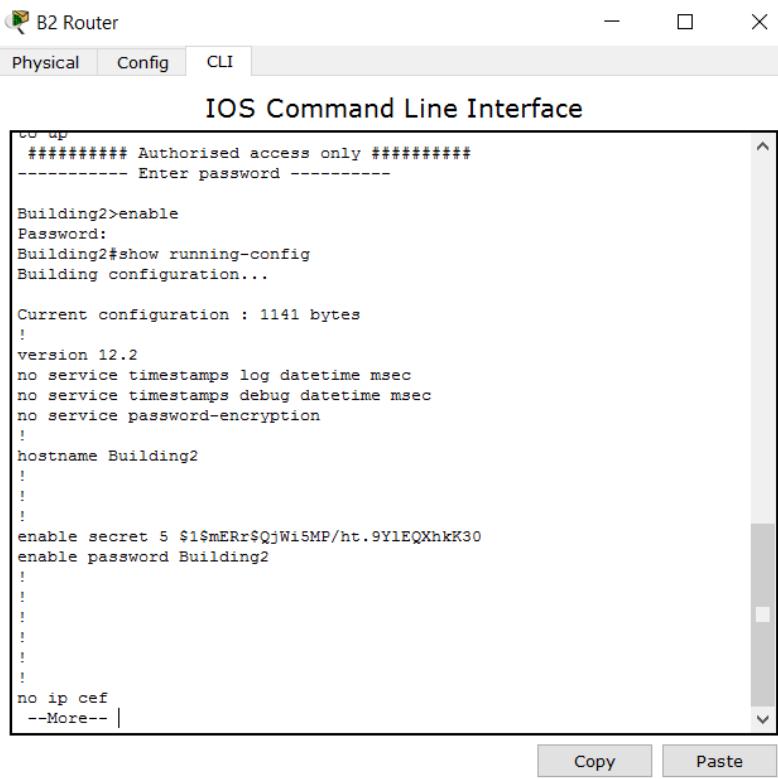


The screenshot shows a terminal window titled "B1 Router" with the "CLI" tab selected. The window displays the IOS Command Line Interface. The configuration includes:

```
#####
# Authorised access only #####
-----
Enter password -----  
  
Building1>enable  
Password:  
$LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state  
to up  
  
Password:  
Building1#show running-config  
Building configuration...  
  
Current configuration : 1031 bytes  
!  
version 12.2  
no service timestamps log datetime msec  
no service timestamps debug datetime msec  
no service password-encryption  
!  
hostname Building1  
!  
!  
enable secret 5 $1$mERr$dhkMrYyzLmtq5yOW8keev.  
enable password Building1  
!  
!  
!  
!  
!  
no ip cef  
--More--
```

At the bottom right of the window are "Copy" and "Paste" buttons.

Building 2 Router

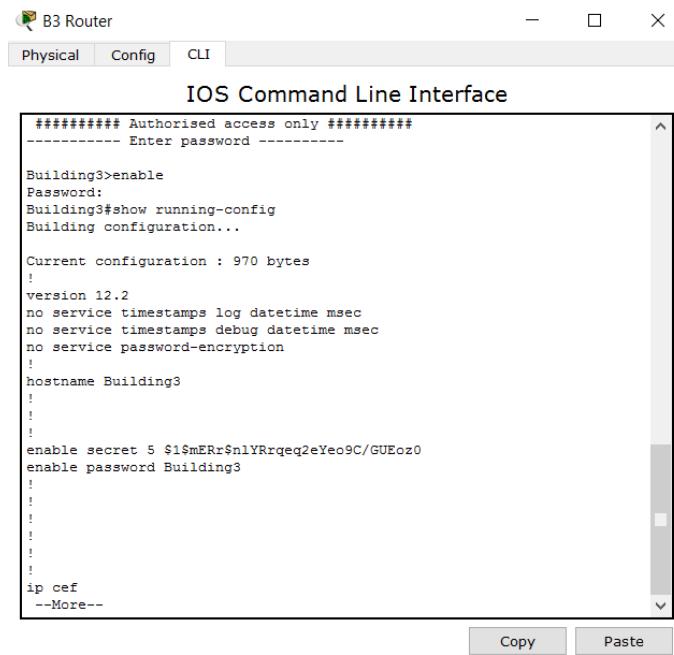


The screenshot shows a terminal window titled "B2 Router" with the "CLI" tab selected. The window displays the IOS Command Line Interface. The configuration includes:

```
cd up
#####
# Authorised access only #####
-----
Enter password -----  
  
Building2>enable  
Password:  
Building2#show running-config  
Building configuration...  
  
Current configuration : 1141 bytes  
!  
version 12.2  
no service timestamps log datetime msec  
no service timestamps debug datetime msec  
no service password-encryption  
!  
hostname Building2  
!  
!  
enable secret 5 $1$mERr$SQjWi5MP/ht.9Y1EQXhkK30  
enable password Building2  
!  
!  
!  
!  
no ip cef  
--More-- |
```

At the bottom right of the window are "Copy" and "Paste" buttons.

Building 3 Router



B3 Router

Physical Config CLI

IOS Command Line Interface

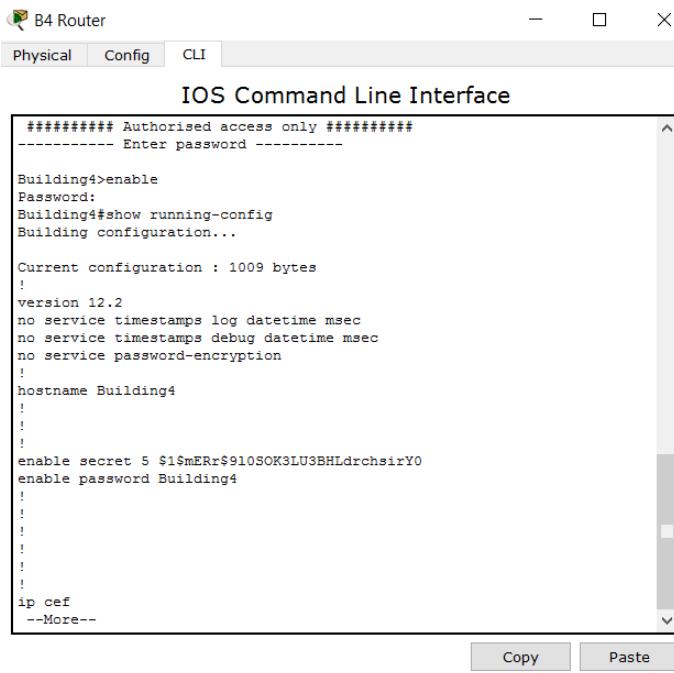
```
##### Authorised access only #####
----- Enter password -----
```

```
Building3>enable
Password:
Building3#show running-config
Building configuration...

Current configuration : 970 bytes
!
version 12.2
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname Building3
!
!
!
enable secret 5 $1$ERr$nlYRrqeq2eYe09C/GUEoz0
enable password Building3
!
!
!
ip cef
--More--
```

Copy Paste

Building 4 Router



B4 Router

Physical Config CLI

IOS Command Line Interface

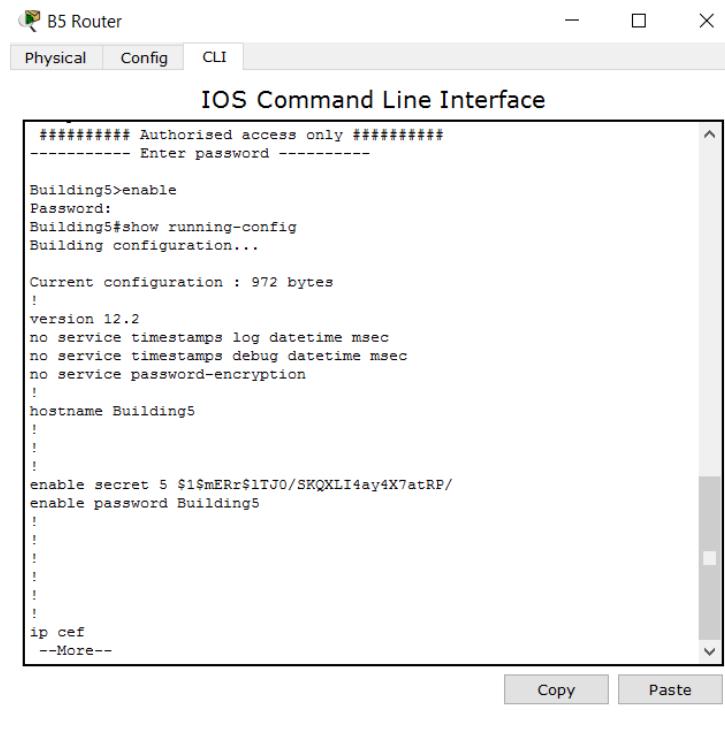
```
##### Authorised access only #####
----- Enter password -----
```

```
Building4>enable
Password:
Building4#show running-config
Building configuration...

Current configuration : 1009 bytes
!
version 12.2
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname Building4
!
!
!
enable secret 5 $1$ERr$910SOK3LU3BHLdrchsirY0
enable password Building4
!
!
!
ip cef
--More--
```

Copy Paste

Building 5 Router



B5 Router

Physical Config CLI

IOS Command Line Interface

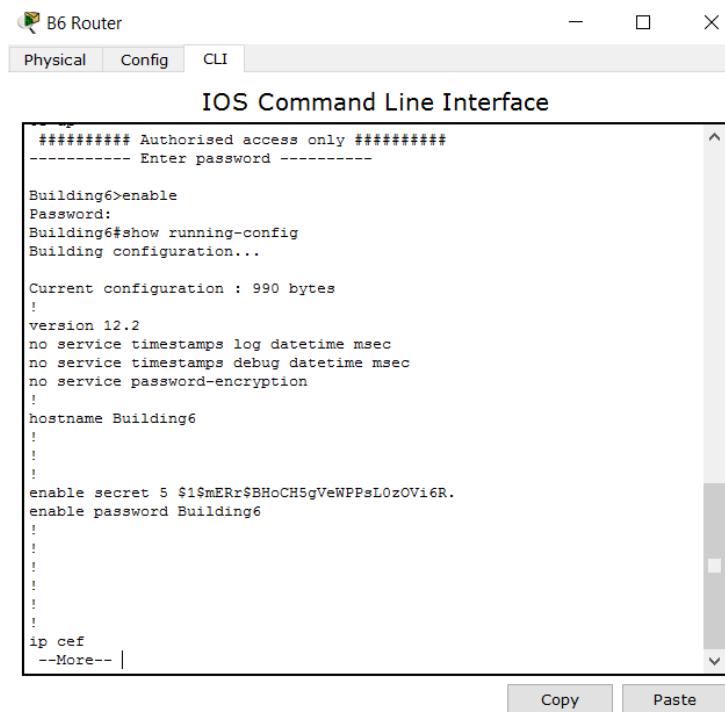
```
##### Authorised access only #####
----- Enter password -----
```

```
Building5>enable
Password:
Building5#show running-config
Building configuration...

Current configuration : 972 bytes
!
version 12.2
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname Building5
!
!
!
enable secret 5 $1$mERr$1TJ0/SKQXLI4ay4X7atRP/
enable password Buildings
!
!
!
ip cef
--More--
```

Copy Paste

Building 6 Router



B6 Router

Physical Config CLI

IOS Command Line Interface

```
##### Authorised access only #####
----- Enter password -----
```

```
Building6>enable
Password:
Building6#show running-config
Building configuration...

Current configuration : 990 bytes
!
version 12.2
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname Building6
!
!
!
enable secret 5 $1$mERr$BHoCH5gVeWPPsLOzOVi6R.
enable password Building6
!
!
!
ip cef
--More-- |
```

Copy Paste

Backup B1 B6 Router

The window title is "Backup B1 B6". The tab bar shows "Physical", "Config", and "CLI" (which is selected). The main area is titled "IOS Command Line Interface". The terminal output is as follows:

```
##### Authorised access only #####
-----
B1B6>enable
Password:
B1B6#show running-config
Building configuration...

Current configuration : 986 bytes
!
version 12.2
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname B1B6
!
!
!
enable secret 5 $1$mERr$FyvaupXU0ic0ZRbiRDCmd/
enable password B1B6
!
!
!
!
ip cef
--More-- |
```

At the bottom right are "Copy" and "Paste" buttons.

Backup B2 B5 Router

The window title is "Backup B2 B5". The tab bar shows "Physical", "Config", and "CLI" (which is selected). The main area is titled "IOS Command Line Interface". The terminal output is as follows:

```
##### Authorised access only #####
-----
B2B5>enable
Password:
B2B5#show running-config
Building configuration...

Current configuration : 986 bytes
!
version 12.2
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname B2B5
!
!
!
enable secret 5 $1$mERr$MrpV3k2hXS9fYr2iYTSDj/
enable password B2B5
!
!
!
!
ip cef
--More-- |
```

At the bottom right are "Copy" and "Paste" buttons.

Backup B3 B4 Router

Backup B3 B4

Physical Config CLI

IOS Command Line Interface

```
##### Authorised access only #####
----- Enter password -----
B3B4>enable
Password:
B3B4#show running-config
Building configuration...

Current configuration : 986 bytes
!
version 12.2
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname B3B4
!
!
!
enable secret 5 $1$mERr$zW2jRTXNRPFLrAppeC251
enable password B3B4
!
!
!
!
ip cef
--More-- |
```

Copy Paste

Reference for checking secret and password in CLI: (Tetz, 2017)

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