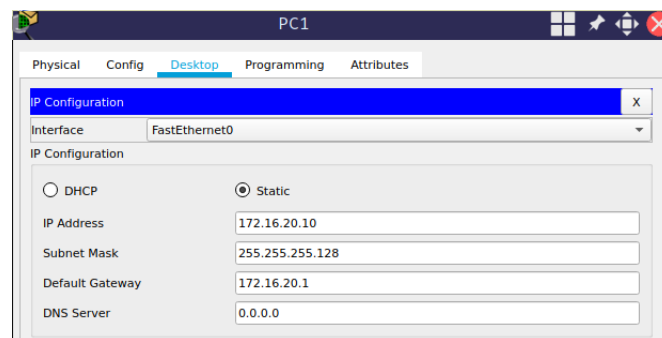


Packet Tracer Lab 6

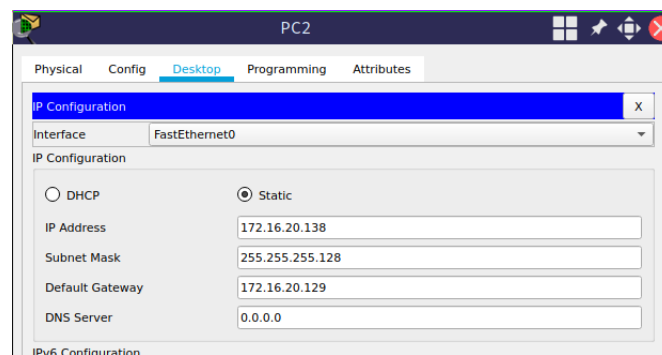
January 24, 2020

Part 1: fuckity fuck

i) fucking fuck
blah blah



I opened up PC2 and clicked on desktop and opened the ipconfiguration box and entered the information from the table



I opened up R1 and used the commandline tool to enter the information according to the chart.

```
R1
Physical Config CLI Attributes
IOS Command Line Interface

User Access Verification
Password:
R1>ena
Password:
R1#interface gigabitEthernet 0/0
      ^
% Invalid input detected at '^' marker.

R1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
R1(config)#interface gigabitEthernet 0/0\
      ^
% Invalid input detected at '^' marker.

R1(config)#interface gigabitEthernet 0/0
R1(config-if)#ip address 172.16.20.1
% Incomplete command.
R1(config-if)#ip address 172.16.20.1 255.255.255.128
R1(config-if)#no shut

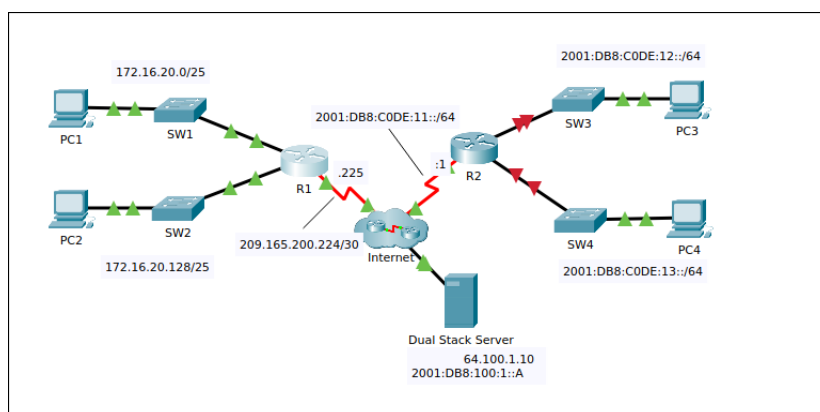
R1(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up

R1(config-if)#int g 0/1
R1(config-if)#ip address 172.16.20.129 255.255.255.128
R1(config-if)#no shut

R1(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to up
```

We can now see that PC1 PC2 and R1 are all connected to each other



ii) Verify connectivity

I opened PC1 went the command line and successfully pinged the Dual stack server and then successfully pinged PC2

```
Command Prompt

Packet Tracer PC Command Line 1.0
C:\>ping 64.100.1.10

Pinging 64.100.1.10 with 32 bytes of data:

Request timed out.
Reply from 64.100.1.10: bytes=32 time=1ms TTL=126
Reply from 64.100.1.10: bytes=32 time=1ms TTL=126
Reply from 64.100.1.10: bytes=32 time=1ms TTL=126

Ping statistics for 64.100.1.10:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 1ms, Average = 1ms

C:\>ping 172.16.20.138

Pinging 172.16.20.138 with 32 bytes of data:

Request timed out.
Reply from 172.16.20.138: bytes=32 time<1ms TTL=127
Reply from 172.16.20.138: bytes=32 time<1ms TTL=127
Reply from 172.16.20.138: bytes=32 time<1ms TTL=127

Ping statistics for 172.16.20.138:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

I opened PC2 went the command line and successfully pinged the Dual stack server and then successfully pinged PC1

```
PC2
Physical Config Desktop Programming Attributes
Command Prompt

Packet Tracer PC Command Line 1.0
C:\>ping 64.100.1.10

Pinging 64.100.1.10 with 32 bytes of data:

Reply from 64.100.1.10: bytes=32 time=2ms TTL=126
Reply from 64.100.1.10: bytes=32 time=1ms TTL=126
Reply from 64.100.1.10: bytes=32 time=1ms TTL=126
Reply from 64.100.1.10: bytes=32 time=1ms TTL=126

Ping statistics for 64.100.1.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 2ms, Average = 1ms

C:\>ping 172.16.20.10

Pinging 172.16.20.10 with 32 bytes of data:

Reply from 172.16.20.10: bytes=32 time=1ms TTL=127
Reply from 172.16.20.10: bytes=32 time=1ms TTL=127
Reply from 172.16.20.10: bytes=32 time=1ms TTL=127
Reply from 172.16.20.10: bytes=32 time=1ms TTL=127

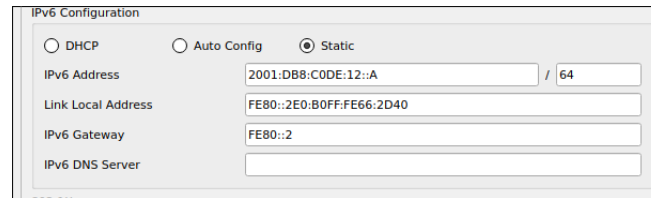
Ping statistics for 172.16.20.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```

Part 2: configuring IPv6

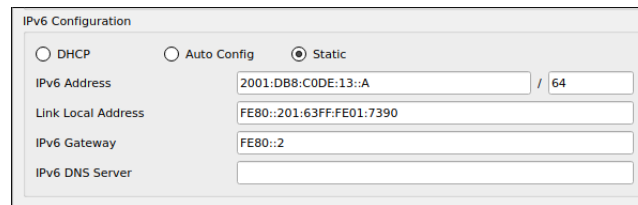
i) assign IPv6 addressing and verify connectivity

I opened up PC3 and clicked on desktop and opened the ipconfiguration box and entered the information from the table



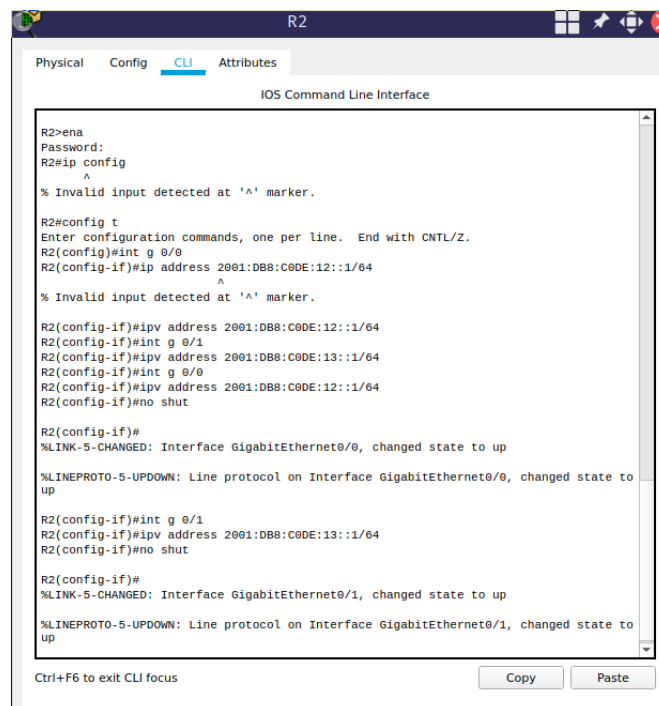
IPv6 Configuration window for PC3. The 'Static' radio button is selected. The IPv6 Address is 2001:DB8:C0DE:12::A with a prefix length of 64. The Link Local Address is FE80::2E0:B0FF:FE66:2D40. The IPv6 Gateway is FE80::2. The IPv6 DNS Server field is empty.

I opened up PC4 and clicked on desktop and opened the ipconfiguration box and entered the information from the table



IPv6 Configuration window for PC4. The 'Static' radio button is selected. The IPv6 Address is 2001:DB8:C0DE:13::A with a prefix length of 64. The Link Local Address is FE80::201:63FF:FE01:7390. The IPv6 Gateway is FE80::2. The IPv6 DNS Server field is empty.

I opened up R2 and used the commandline tool to enter the information according to the chart.



```
R2>ena
Password:
R2#ip config
^
% Invalid input detected at '^' marker.

R2#config t
Enter configuration commands, one per line. End with CNTL/Z.
R2(config)#int g 0/0
R2(config-if)#ip address 2001:DB8:C0DE:12::1/64
^
% Invalid input detected at '^' marker.

R2(config-if)#ip address 2001:DB8:C0DE:12::1/64
R2(config-if)#int g 0/1
R2(config-if)#ip address 2001:DB8:C0DE:13::1/64
R2(config-if)#int g 0/0
R2(config-if)#ip address 2001:DB8:C0DE:12::1/64
R2(config-if)#no shut

R2(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up

R2(config-if)#int g 0/1
R2(config-if)#ip address 2001:DB8:C0DE:13::1/64
R2(config-if)#no shut

R2(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to up
```

We can now see that PC3 PC4 and R2 are all connected to each other

```
C:\>ping 2001:DB8:100:1::A

Pinging 2001:DB8:100:1::A with 32 bytes of data:

Reply from 2001:DB8:100:1::A: bytes=32 time=1ms TTL=126
Reply from 2001:DB8:100:1::A: bytes=32 time=1ms TTL=126
Reply from 2001:DB8:100:1::A: bytes=32 time=1ms TTL=126
Reply from 2001:DB8:100:1::A: bytes=32 time=3ms TTL=126

Ping statistics for 2001:DB8:100:1::A:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 3ms, Average = 1ms

C:\>ping 2001:DB8:C0DE:13::A

Pinging 2001:DB8:C0DE:13::A with 32 bytes of data:

Reply from 2001:DB8:C0DE:13::A: bytes=32 time=15ms TTL=127
Reply from 2001:DB8:C0DE:13::A: bytes=32 time<1ms TTL=127
Reply from 2001:DB8:C0DE:13::A: bytes=32 time<1ms TTL=127
Reply from 2001:DB8:C0DE:13::A: bytes=32 time=1ms TTL=127

Ping statistics for 2001:DB8:C0DE:13::A:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 15ms, Average = 4ms
```

ii) Verify connectivity

I opened PC3 went the command line and successfully pinged the Dual stack server and then successfully pinged PC4

```
Packet Tracer PC Command Line 1.0
C:\>ping 2001:DB8:100:1::A

Pinging 2001:DB8:100:1::A with 32 bytes of data:

Reply from 2001:DB8:100:1::A: bytes=32 time=10ms TTL=126
Reply from 2001:DB8:100:1::A: bytes=32 time=1ms TTL=126
Reply from 2001:DB8:100:1::A: bytes=32 time=2ms TTL=126
Reply from 2001:DB8:100:1::A: bytes=32 time=1ms TTL=126

Ping statistics for 2001:DB8:100:1::A:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 10ms, Average = 3ms

C:\>ping 2001:DB8:C0DE:12::A

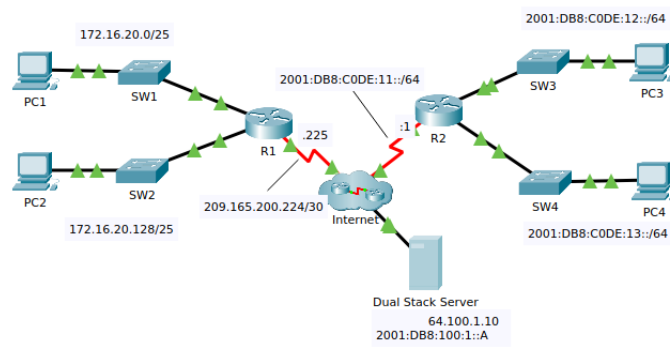
Pinging 2001:DB8:C0DE:12::A with 32 bytes of data:

Reply from 2001:DB8:C0DE:12::A: bytes=32 time=1ms TTL=127
Reply from 2001:DB8:C0DE:12::A: bytes=32 time<1ms TTL=127
Reply from 2001:DB8:C0DE:12::A: bytes=32 time<1ms TTL=127
Reply from 2001:DB8:C0DE:12::A: bytes=32 time=1ms TTL=127

Ping statistics for 2001:DB8:C0DE:12::A:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```

I opened PC4 went the command line and successfully pinged the Dual stack server and then successfully pinged PC3



Part 3: Wrap Up

i) Success

Clicked the Check results button 100% success

File Edit Options View Tools Extensions Help

Activity Results Time Elapsed: 01:09:13

Congratulations Guest! You completed the activity.

Overall Feedback **Assessment Items** Connectivity Tests

Expand/Collapse All Show Incorrect Items

Assessment Items	Status	Points	Component(s)	Feedback
Network				
PC1				
Default Gateway	Correct	2	IPv4 Address C...	
Ports				
FastEthernet0				
IP Address	Correct	2	IPv4 Address C...	
Subnet Mask	Correct	1	IPv4 Address C...	
PC2				
Default Gateway	Correct	2	IPv4 Address C...	
Ports				
FastEthernet0				
IP Address	Correct	2	IPv4 Address C...	
Subnet Mask	Correct	1	IPv4 Address C...	
PC3				
Default Gateway IPv6	Correct	2	IPv6 Address C...	
Ports				
FastEthernet0				
IPv6 Addresses				
2001:DB8:CODE:12::A				
IP Address	Correct	2	IPv6 Address C...	
Prefix Length	Correct	1	IPv6 Address C...	
PC4				
Default Gateway IPv6	Correct	2	IPv6 Address C...	
Ports				
FastEthernet0				
IPv6 Addresses				
2001:DB8:CODE:13::A				
IP Address	Correct	2	IPv6 Address C...	
Prefix Length	Correct	1	IPv6 Address C...	
R1				
Ports				
GigabitEthernet0/0				
IP Address	Correct	10	IPv4 Address C...	
Port Status	Correct	2	IPv4 Address C...	
Subnet Mask	Correct	8	IPv4 Address C...	
GigabitEthernet0/1				
IP Address	Correct	10	IPv4 Address C...	
Port Status	Correct	2	IPv4 Address C...	
Subnet Mask	Correct	8	IPv4 Address C...	
R2				
Ports				
GigabitEthernet0/0				
IPv6 Addresses				
2001:DB8:CODE:12::1				
IP Address	Correct	10	IPv6 Address C...	
Prefix Length	Correct	8	IPv6 Address C...	
Port Status	Correct	2	IPv6 Address C...	
GigabitEthernet0/1				
IPv6 Addresses				
2001:DB8:CODE:13::1				
IP Address	Correct	10	IPv6 Address C...	
Prefix Length	Correct	8	IPv6 Address C...	
Port Status	Correct	2	IPv6 Address C...	

Score : 100/100
Item Count : 24/24

Component	Items/Total	Score
IPv4 Address Configuration	12/12	50/50
IPv6 Address Configuration	12/12	50/50

Close