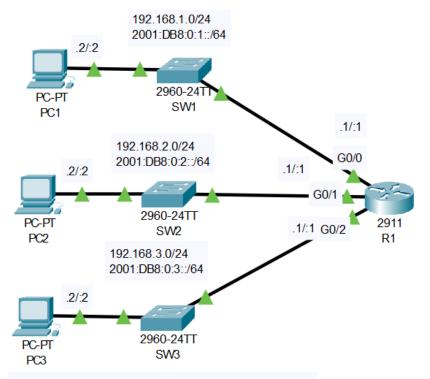
IPv6 part 1

Source: Jeremy's IT Lab

Student: Mono



The IPv4 configuration of each device is complete. Perform the follow ing IPv6 configurations to create an IPv4/IPv6 'dual-stack' netw ork.

- 1. Enable IPv6 routing on R1.
- 2. Configure the appropriate IPv6 addresses on R1.
- 3. Confirm your configurations.
 What IPv6 addresses are present on each interface?
- Configure the appropriate IPv6 addresses on each PC. Configure the correct default gatew ay.
- 5. Attempt to ping between the PCs (IPv4 and IPv6)

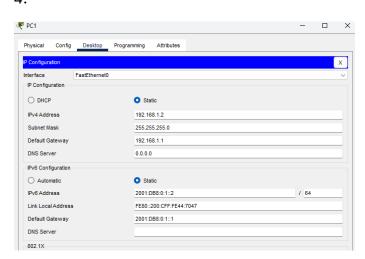
1.

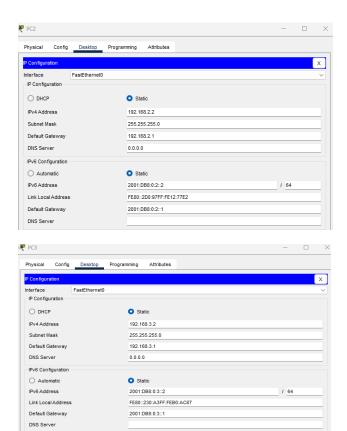
```
Risconfig t
Enter configuration commands, one per line. End with CNTL/Z.
Ri(config) #ipv6 ?
access-list Configure access lists
cef Cisco Express Forwarding
dhop Configure Ipv6 DHCP
general-prefix Configure a general IPv6 prefix
host Configure a general IPv6 prefix
configure static hostnames
local Specify local options
nat NAT-PT Configuration commands
neighbor Neighbor
route Configure static routes
router Enable an IPV6 routing process
unicast-routing Enable unicast routing
Ri(config) #ipv6 unicast-routing
Ri(config) #ipv6
```

2 + 3.

```
Rl(config) #do show ipv6 int bri
GigabitEthernet0/0
                         [up/up]
    unassigned
GigabitEthernet0/1
                           [up/up]
    unassigned
GigabitEthernet0/2
                           [up/up]
    unassigned
Vlanl
                           [administratively down/down]
    unassigned
R1(config)#int g0/0
R1(config-if)#ipv6 addr 2001:DB8:0:1::1/64
R1(config-if)#int g0/1
R1(config-if)#ipv6 addr 2001:DB8:0:2::1/64
R1(config-if)#int g0/2
R1(config-if)#ipv6 addr 2001:DB8:0:3::1/64
R1(config-if) #do show ipv6 int bri
GigabitEthernet0/0
   FE80::201:97FF:FE9A:AC01
    2001:DB8:0:1::1
GigabitEthernet0/1
                           [up/up]
   FE80::201:97FF:FE9A:AC02
    2001:DB8:0:2::1
GigabitEthernet0/2
   FE80::201:97FF:FE9A:AC03
    2001:DB8:0:3::1
Vlanl
                           [administratively down/down]
   unassigned
```

4.





5.

All worked

Example:

```
Physical Config Desktop Programming Attributes

Command Prompt

Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.2.1
Pinging 192.168.2.1 with 32 bytes of data:

Reply from 192.168.2.1: bytes=32 time<lms TTL=255

Ping statistics for 192.168.2.1:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip time in milli-seconds:

Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>2001:DB8:0:1::1
Invalid Command.

C:\>ping 2001:DB8:0:1::1 with 32 bytes of data:

Reply from 2001:DB8:0:1::1 bytes=32 time<lms TTL=255
Reply from 2001:DB8:0:1::1: bytes=32 time<lms TTL=255
Reply from 2001:DB8
```