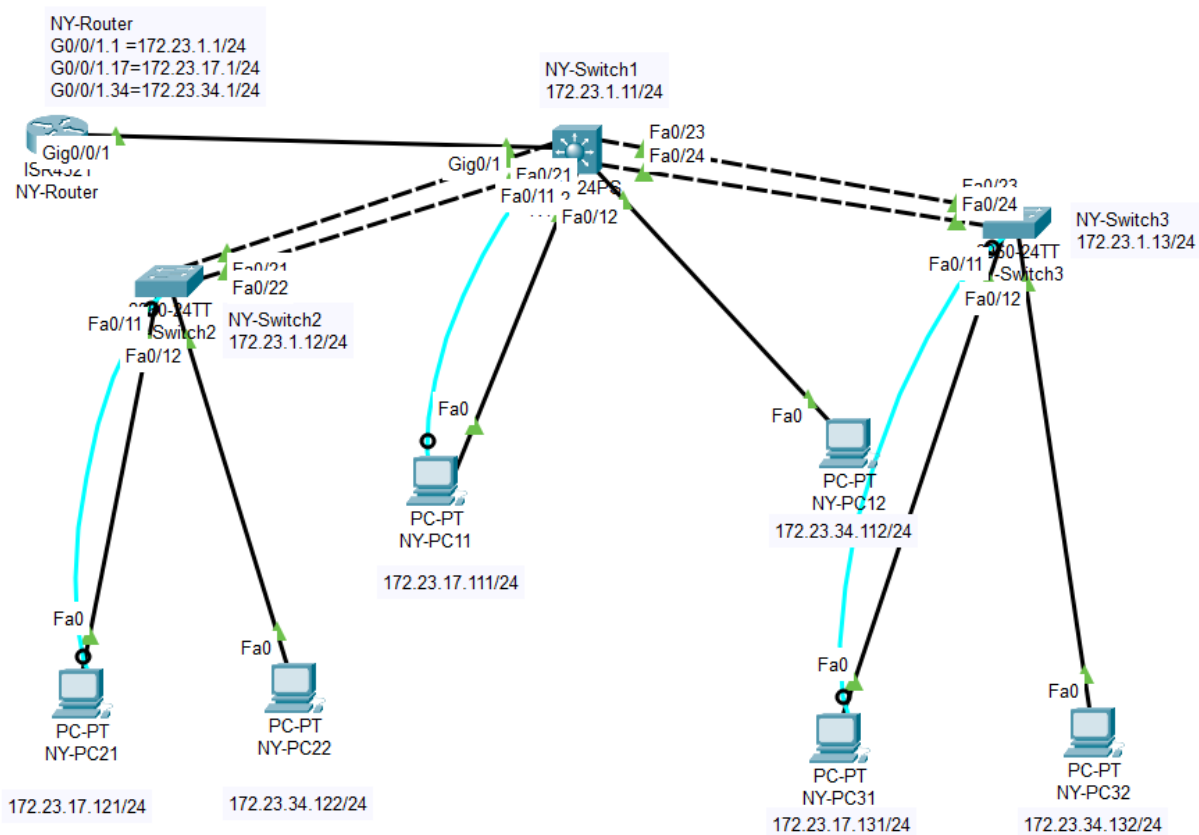


Lab 3 Lab Report

Lab Description:

Set up a router within a Network to allow PCs on separate VLANS to communicate with each other.

Topography:



Syntax:

CLI Command	Description	Mode of Cisco OIS
ping	Used to ping ip addresses from a PC. You can ping other PC's or switches with this.	Windows CMD
Logging synchronous	Forces error messages to be on its own line, rather than interrupt a line that you're typing on.	Console Line

Enable	Enter Privileged Mode	User Mode
Conf t	Enter Global Configurator Mode	Privileged Mode
Line con 0	Enter the Console Line	Global Configurator Mode
Hostname	Used to name a switch or PC	Privileged Mode
Password	Used to set a password	Privileged Mode
Login	Used to require the password to utilize User Mode	Global Configurator Mode
Enable password	Used to set an unencrypted Privileged Password	Global Configurator Mode
Show ip interface brief (sh ip int brief)	Displays a brief list of all interfaces	Privileged Mode
vtp domain INETLAB	Renames the VTP domain from NULL to INETLAB	Global Configurator Mode
Vtp password cisco	Set a password within the VTP Domain	Global Configurator Mode
Vtp mode server/client	Sets the vtp mode between server or client, in the case of this lab.	Global Configurator Mode
Switchport mode access	Changes the mode of a switchport to access mode	Line configuration Mode (within a vlan)
Switchport trunk encapsulation dot1q	Sets up the switch to switch connect to use IEEE 802.1Q encapsulation	Within a vlan with a multi-Connection switch
Switchport mode trunk	Sets the mode for the switchport to trunk	Within a vlan
Spanning-tree vlan xx root primary	Setting up a spanning tree within a vlan, and setting it to root primary	Privileged mode
Encapsulation dot1q xx	Sets up a VLAN in IEEE 802.1Q within a router	ROUTER Line Configuration Mode(within a sub interface)

Verification:

B) NY-Switch1 vlans

NY-Switch1#sh vlan

VLAN Name		Status	Ports
1	default	active	Fa0/1, Fa0/2, Fa0/3, Fa0/4 Fa0/5, Fa0/6, Fa0/7, Fa0/8 Fa0/9, Fa0/10, Fa0/13, Fa0/14 Fa0/15, Fa0/16, Fa0/17, Fa0/18 Fa0/19, Fa0/20, Gig0/2
17	BLUE	active	Fa0/11
34	GREEN	active	Fa0/12
1002	fddi-default	active	
1003	token-ring-default	active	
1004	fddinet-default	active	
1005	trnet-default	active	

VLAN	Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode	Trans1	Trans2
1	enet	100001	1500	-	-	-	-	-	0	0
17	enet	100017	1500	-	-	-	-	-	0	0
34	enet	100034	1500	-	-	-	-	-	0	0
1002	fddi	101002	1500	-	-	-	-	-	0	0
1003	tr	101003	1500	-	-	-	-	-	0	0
1004	fdnet	101004	1500	-	-	-	ieee	-	0	0
1005	trnet	101005	1500	-	-	-	ibm	-	0	0

VLAN	Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode	Trans1	Trans2
1	enet	100001	1500	-	-	-	-	-	0	0
17	enet	100017	1500	-	-	-	-	-	0	0
34	enet	100034	1500	-	-	-	-	-	0	0
1002	fddi	101002	1500	-	-	-	-	-	0	0
1003	tr	101003	1500	-	-	-	-	-	0	0
1004	fdnet	101004	1500	-	-	-	ieee	-	0	0
1005	trnet	101005	1500	-	-	-	ibm	-	0	0

Remote SPAN VLANs

Primary	Secondary	Type	Ports

C)

NY-Switch2 vlans

NY-Switch2#sh vlan

VLAN Name		Status	Ports
1	default	active	Fa0/1, Fa0/2, Fa0/3, Fa0/4 Fa0/5, Fa0/6, Fa0/7, Fa0/8 Fa0/9, Fa0/10, Fa0/13, Fa0/14 Fa0/15, Fa0/16, Fa0/17, Fa0/18 Fa0/19, Fa0/20, Fa0/23, Fa0/24 Gig0/1, Gig0/2
17	BLUE	active	Fa0/11
34	GREEN	active	Fa0/12
1002	fddi-default	active	
1003	token-ring-default	active	
1004	fddinet-default	active	
1005	trnet-default	active	

VLAN	Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode	Trans1	Trans2
1	enet	100001	1500	-	-	-	-	-	0	0
17	enet	100017	1500	-	-	-	-	-	0	0
34	enet	100034	1500	-	-	-	-	-	0	0
1002	fddi	101002	1500	-	-	-	-	-	0	0
1003	tr	101003	1500	-	-	-	-	-	0	0
1004	fdnet	101004	1500	-	-	-	ieee	-	0	0
1005	trnet	101005	1500	-	-	-	ibm	-	0	0

VLAN	Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode	Trans1	Trans2
1	enet	100001	1500	-	-	-	-	-	0	0
17	enet	100017	1500	-	-	-	-	-	0	0
34	enet	100034	1500	-	-	-	-	-	0	0
1002	fddi	101002	1500	-	-	-	-	-	0	0
1003	tr	101003	1500	-	-	-	-	-	0	0
1004	fdnet	101004	1500	-	-	-	ieee	-	0	0
1005	trnet	101005	1500	-	-	-	ibm	-	0	0

Remote SPAN VLANs

Primary	Secondary	Type	Ports

NY-Switch2 Trunks Interfaces

```
NY-Switch2#sh int trunk
Port      Mode      Encapsulation  Status      Native vlan
Po2       on        802.1q         trunking    1

Port      Vlans allowed on trunk
Po2       1-1005

Port      Vlans allowed and active in management domain
Po2       1,17,34

Port      Vlans in spanning tree forwarding state and not pruned
Po2       1,17,34
```

NY-Switch2 EtherChannel Summary

```
NY-Switch2#sh ether summ
Flags: D - down          P - in port-channel
       I - stand-alone   s - suspended
       H - Hot-standby (LACP only)
       R - Layer3        S - Layer2
       U - in use        f - failed to allocate aggregator
       u - unsuitable for bundling
       w - waiting to be aggregated
       d - default port

Number of channel-groups in use: 1
Number of aggregators:          1

Group  Port-channel  Protocol    Ports
-----+-----+-----+-----
2      Po2 (SU)          LACP       Fa0/21(P) Fa0/22(P)
```

D)

NY-Switch3 vlans

```
NY-Switch3#sh vlan

VLAN Name                Status    Ports
-----+-----+-----+-----
1    default                active    Fa0/1, Fa0/2, Fa0/3, Fa0/4
                                           Fa0/5, Fa0/6, Fa0/7, Fa0/8
                                           Fa0/9, Fa0/10, Fa0/13, Fa0/14
                                           Fa0/15, Fa0/16, Fa0/17, Fa0/18
                                           Fa0/19, Fa0/20, Fa0/21, Fa0/22
                                           Gig0/1, Gig0/2
17   BLUE                   active    Fa0/11
34   GREEN                  active    Fa0/12
1002 fddi-default          active
1003 token-ring-default    active
1004 fddinet-default        active
1005 trnet-default          active

VLAN Type  SAID      MTU    Parent RingNo BridgeNo Stp  BrdgMode Trans1 Trans2
-----+-----+-----+-----+-----+-----+-----+-----+-----+-----
1    enet    100001    1500    -      -      -      -    -         0       0
17   enet    100017    1500    -      -      -      -    -         0       0
34   enet    100034    1500    -      -      -      -    -         0       0
1002 fddi    101002    1500    -      -      -      -    -         0       0
1003 tr     101003    1500    -      -      -      -    -         0       0
1004 fdnet  101004    1500    -      -      -      ieee -         0       0
1005 trnet  101005    1500    -      -      -      ibm  -         0       0

VLAN Type  SAID      MTU    Parent RingNo BridgeNo Stp  BrdgMode Trans1 Trans2
-----+-----+-----+-----+-----+-----+-----+-----+-----+-----

Remote SPAN VLANs
-----+-----+-----+-----+-----+-----+-----+-----+-----+-----

Primary Secondary Type      Ports
-----+-----+-----+-----+-----+-----+-----+-----+-----+-----
```

NY-Switch3 Trunk Interfaces

```
NY-Switch3#sh int trunk
Port      Mode      Encapsulation  Status      Native vlan
Po3       on        802.1q         trunking    1

Port      Vlans allowed on trunk
Po3       1-1005

Port      Vlans allowed and active in management domain
Po3       1,17,34

Port      Vlans in spanning tree forwarding state and not pruned
Po3       1,17,34
```

NY-Switch3 Ether Summary

```
NY-Switch3#sh ether summ
Flags: D - down      P - in port-channel
       I - stand-alone s - suspended
       H - Hot-standby (LACP only)
       R - Layer3     S - Layer2
       U - in use     f - failed to allocate aggregator
       u - unsuitable for bundling
       w - waiting to be aggregated
       d - default port

Number of channel-groups in use: 1
Number of aggregators:          1

Group  Port-channel  Protocol    Ports
-----+-----+-----+-----
3      Po3(SU)          LACP       Fa0/23(P) Fa0/24(P)
```

E) NY-PC11 to NY-PC21/31

```
C:\>ping 172.23.17.121

Pinging 172.23.17.121 with 32 bytes of data:

Reply from 172.23.17.121: bytes=32 time=1ms TTL=128
Reply from 172.23.17.121: bytes=32 time<1ms TTL=128
Reply from 172.23.17.121: bytes=32 time<1ms TTL=128
Reply from 172.23.17.121: bytes=32 time<1ms TTL=128

Ping statistics for 172.23.17.121:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

NY-PC11 -> NY-PC21

```
C:\>ping 172.23.17.131

Pinging 172.23.17.131 with 32 bytes of data:

Reply from 172.23.17.131: bytes=32 time<1ms TTL=128
Reply from 172.23.17.131: bytes=32 time<1ms TTL=128
Reply from 172.23.17.131: bytes=32 time<1ms TTL=128
Reply from 172.23.17.131: bytes=32 time<1ms TTL=128

Ping statistics for 172.23.17.131:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

NY-PC11 -> NY-PC31

F) NY-PC12 to NY-PC22/32

```
C:\>ping 172.23.34.122

Pinging 172.23.34.122 with 32 bytes of data:

Reply from 172.23.34.122: bytes=32 time<1ms TTL=128
Reply from 172.23.34.122: bytes=32 time=1ms TTL=128
Reply from 172.23.34.122: bytes=32 time<1ms TTL=128
Reply from 172.23.34.122: bytes=32 time<1ms TTL=128

Ping statistics for 172.23.34.122:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

NY-PC12->NY-PC22

```
C:\>ping 172.23.34.132

Pinging 172.23.34.132 with 32 bytes of data:

Reply from 172.23.34.132: bytes=32 time<1ms TTL=128
Reply from 172.23.34.132: bytes=32 time=14ms TTL=128
Reply from 172.23.34.132: bytes=32 time<1ms TTL=128
Reply from 172.23.34.132: bytes=32 time<1ms TTL=128

Ping statistics for 172.23.34.132:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 14ms, Average = 3ms
```

NY-PC12->NY-PC32

G)

Interfaces in an abbreviated format

```
NY-Router#sh ip int brief
Interface                IP-Address      OK? Method Status              Protocol
GigabitEthernet0/0/0     unassigned      YES unset  administratively down  down
GigabitEthernet0/0/1     unassigned      YES unset  up                    up
GigabitEthernet0/0/1.1   172.23.1.1      YES manual  up                    up
GigabitEthernet0/0/1.17  172.23.17.1     YES manual  up                    up
GigabitEthernet0/0/1.34  172.23.34.1     YES manual  up                    up
Vlan1                    unassigned      YES unset  administratively down  down
Vlan17                    unassigned      YES unset  down                  down
```

NY-Router Routing table

```
NY-Router#sh ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route
```

Gateway of last resort is not set

```
172.23.0.0/16 is variably subnetted, 6 subnets, 2 masks
C       172.23.1.0/24 is directly connected, GigabitEthernet0/0/1.1
L       172.23.1.1/32 is directly connected, GigabitEthernet0/0/1.1
C       172.23.17.0/24 is directly connected, GigabitEthernet0/0/1.17
L       172.23.17.1/32 is directly connected, GigabitEthernet0/0/1.17
C       172.23.34.0/24 is directly connected, GigabitEthernet0/0/1.34
L       172.23.34.1/32 is directly connected, GigabitEthernet0/0/1.34
```

NY-Switch1 Trunk Interfaces

```
NY-Switch1#sh int trunk
Port      Mode      Encapsulation  Status      Native vlan
Po2       on        802.1q         trunking    1
Po3       on        802.1q         trunking    1
Gig0/1    on        802.1q         trunking    1

Port      Vlans allowed on trunk
Po2       1-1005
Po3       1-1005
Gig0/1    1-1005

Port      Vlans allowed and active in management domain
Po2       1,17,34
Po3       1,17,34
Gig0/1    1,17,34

Port      Vlans in spanning tree forwarding state and not pruned
Po2       1,17,34
Po3       1,17,34
Gig0/1    1,17,34
```

H)

Ping from NY-PC11 to Default Gateway, however this worked on all PC's

```
C:\>ping 172.23.1.0

Pinging 172.23.1.0 with 32 bytes of data:

Reply from 172.23.17.1: bytes=32 time<1ms TTL=255
Reply from 172.23.17.1: bytes=32 time=6ms TTL=255
Reply from 172.23.17.1: bytes=32 time<1ms TTL=255
Reply from 172.23.17.1: bytes=32 time<1ms TTL=255

Ping statistics for 172.23.1.0:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 6ms, Average = 1ms
```

I)NY-PC11 to NY-PC12/22/32

```
C:\>ping 172.23.34.112

Pinging 172.23.34.112 with 32 bytes of data:

Reply from 172.23.34.112: bytes=32 time<1ms TTL=127
Reply from 172.23.34.112: bytes=32 time=1ms TTL=127
Reply from 172.23.34.112: bytes=32 time<1ms TTL=127
Reply from 172.23.34.112: bytes=32 time<1ms TTL=127

Ping statistics for 172.23.34.112:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

NY-PC11 -> NY-PC12

```
C:\>ping 172.23.34.122

Pinging 172.23.34.122 with 32 bytes of data:

Reply from 172.23.34.122: bytes=32 time<lms TTL=127
Reply from 172.23.34.122: bytes=32 time<lms TTL=127
Reply from 172.23.34.122: bytes=32 time<lms TTL=127
Reply from 172.23.34.122: bytes=32 time<lms TTL=127

Ping statistics for 172.23.34.122:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

NY-PC11 -> NY-PC22

```
C:\>ping 172.23.34.132

Pinging 172.23.34.132 with 32 bytes of data:

Reply from 172.23.34.132: bytes=32 time<lms TTL=127
Reply from 172.23.34.132: bytes=32 time<lms TTL=127
Reply from 172.23.34.132: bytes=32 time<lms TTL=127
Reply from 172.23.34.132: bytes=32 time<lms TTL=127

Ping statistics for 172.23.34.132:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

NY-PC11 -> NY-PC32

J) NY-PC12 to NY-PC11/21/31

```
C:\>ping 172.23.17.111

Pinging 172.23.17.111 with 32 bytes of data:

Reply from 172.23.17.111: bytes=32 time<lms TTL=127
Reply from 172.23.17.111: bytes=32 time<lms TTL=127
Reply from 172.23.17.111: bytes=32 time<lms TTL=127
Reply from 172.23.17.111: bytes=32 time<lms TTL=127

Ping statistics for 172.23.17.111:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

NY-PC12 -> NY-PC11

```
C:\>ping 172.23.17.121

Pinging 172.23.17.121 with 32 bytes of data:

Reply from 172.23.17.121: bytes=32 time<lms TTL=127
Reply from 172.23.17.121: bytes=32 time<lms TTL=127
Reply from 172.23.17.121: bytes=32 time<lms TTL=127
Reply from 172.23.17.121: bytes=32 time<lms TTL=127

Ping statistics for 172.23.17.121:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

NY-PC12 -> NY-PC21


```

C:\>ping 172.23.17.131

Pinging 172.23.17.131 with 32 bytes of data:

Reply from 172.23.17.131: bytes=32 time<1ms TTL=127
Reply from 172.23.17.131: bytes=32 time<1ms TTL=127
Reply from 172.23.17.131: bytes=32 time<1ms TTL=127
Reply from 172.23.17.131: bytes=32 time<1ms TTL=127

Ping statistics for 172.23.17.131:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

```

NY-PC12 -> NY-PC31

K)

While all the PC's can reach all of the other PC's, all of the PC's cannot reach all of the switches. This is due to the PC's not being linked directly to the switches, which results in the ping command being unable to reach the other switches.

L) Rapid Spanning-Tree Protocol on all 3 Switches

NY-Switch1

```

NY-Switch1# sh spanning-tree
VLAN0001
  Spanning tree enabled protocol rstp
  Root ID    Priority    32769
             Address     0001.637C.4C7C
             This bridge is the root
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec

  Bridge ID  Priority    32769 (priority 32768 sys-id-ext 1)
             Address     0001.637C.4C7C
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec
             Aging Time  20

Interface    Role Sts Cost      Prio.Nbr Type
-----
Po2          Desg FWD 9         128.27 Shr
Po3          Desg FWD 9         128.28 Shr
Gi0/1        Desg FWD 4         128.25 P2p

VLAN0017
  Spanning tree enabled protocol rstp
  Root ID    Priority    24593
             Address     0001.637C.4C7C
             This bridge is the root
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec

  Bridge ID  Priority    24593 (priority 24576 sys-id-ext 17)
             Address     0001.637C.4C7C
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec
             Aging Time  20

Interface    Role Sts Cost      Prio.Nbr Type
-----
Po2          Desg FWD 9         128.27 Shr
Fa0/11       Desg FWD 19        128.11 P2p
Po3          Desg FWD 9         128.28 Shr
Gi0/1        Desg FWD 4         128.25 P2p

VLAN0034
  Spanning tree enabled protocol rstp
  Root ID    Priority    24610
             Address     0001.637C.4C7C
             This bridge is the root
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec

  Bridge ID  Priority    24610 (priority 24576 sys-id-ext 34)
             Address     0001.637C.4C7C
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec
             Aging Time  20

Interface    Role Sts Cost      Prio.Nbr Type
-----
Po2          Desg FWD 9         128.27 Shr
Fa0/12       Desg FWD 19        128.12 P2p
Po3          Desg FWD 9         128.28 Shr
Gi0/1        Desg FWD 4         128.25 P2p

```

NY-Switch2

```
NY-Switch2#sh spanning-tree
VLAN0001
  Spanning tree enabled protocol rstp
  Root ID    Priority    32769
             Address    0001.637C.4C7C
             Cost        9
             Port        27 (Port-channel2)
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec

  Bridge ID  Priority    32769  (priority 32768 sys-id-ext 1)
             Address    00E0.B07B.C31B
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec
             Aging Time  20

Interface      Role Sts Cost      Prio.Nbr Type
-----
Po2            Root FWD 9         128.27 Shr

VLAN0017
  Spanning tree enabled protocol rstp
  Root ID    Priority    24593
             Address    0001.637C.4C7C
             Cost        9
             Port        27 (Port-channel2)
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec

  Bridge ID  Priority    24593  (priority 24576 sys-id-ext 17)
             Address    00E0.B07B.C31B
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec
             Aging Time  20

Interface      Role Sts Cost      Prio.Nbr Type
-----
Fa0/11         Desg FWD 19        128.11 P2p
Po2            Root FWD 9         128.27 Shr

VLAN0034
  Spanning tree enabled protocol rstp
  Root ID    Priority    24610
             Address    0001.637C.4C7C
             Cost        9
             Port        27 (Port-channel2)
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec

  Bridge ID  Priority    24610  (priority 24576 sys-id-ext 34)
             Address    00E0.B07B.C31B
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec
             Aging Time  20

Interface      Role Sts Cost      Prio.Nbr Type
-----
Fa0/12         Desg FWD 19        128.12 P2p
Po2            Root FWD 9         128.27 Shr
```

NY-Switch3

```
NY-Switch3#sh spanning-tree
VLAN0001
  Spanning tree enabled protocol rstp
  Root ID    Priority    32769
             Address    0001.637C.4C7C
             Cost        9
             Port        27 (Port-channel3)
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec

  Bridge ID  Priority    32769 (priority 32768 sys-id-ext 1)
             Address    000C.854D.B8D3
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec
             Aging Time  20

Interface                Role Sts Cost      Prio.Nbr Type
-----
Po3                       Root FWD 9         128.27  Shr

VLAN0017
  Spanning tree enabled protocol rstp
  Root ID    Priority    24593
             Address    0001.637C.4C7C
             Cost        9
             Port        27 (Port-channel3)
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec

  Bridge ID  Priority    24593 (priority 24576 sys-id-ext 17)
             Address    000C.854D.B8D3
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec
             Aging Time  20

Interface                Role Sts Cost      Prio.Nbr Type
-----
Fa0/11                 Desg FWD 19         128.11  P2p
Po3                     Root FWD 9         128.27  Shr

VLAN0034
  Spanning tree enabled protocol rstp
  Root ID    Priority    24610
             Address    0001.637C.4C7C
             Cost        9
             Port        27 (Port-channel3)
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec

  Bridge ID  Priority    24610 (priority 24576 sys-id-ext 34)
             Address    000C.854D.B8D3
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec
             Aging Time  20

Interface                Role Sts Cost      Prio.Nbr Type
-----
Fa0/12                 Desg FWD 19         128.12  P2p
Po3                     Root FWD 9         128.27  Shr
```

Conclusion:

This Lab was not significantly harder than the last lab, however I ran into some headaches when setting up the Router, mainly due to it being the first time setting up a router by myself. These headaches were quickly resolved as soon as I looked at my notes from last class, and from there on it was smooth sailing.