Anthony Dushaj

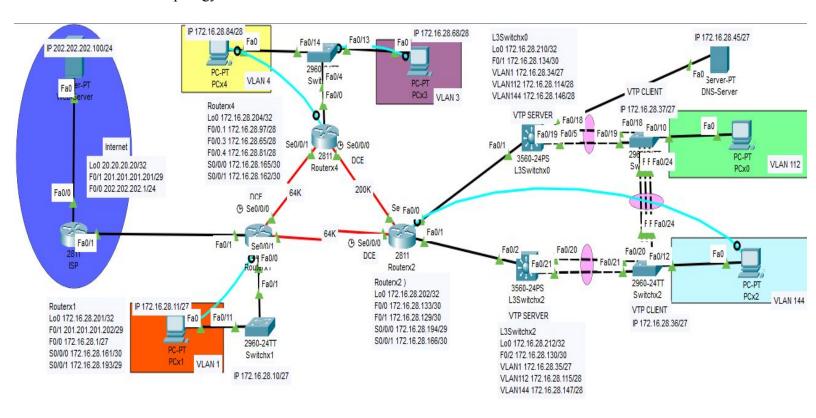
Professor Cannistra

Internetworking

12 May 2020

Challenge Lab 02

Network Topology:



1. VLANs

Layer 2 Switches

	faU/2U, faU/21,	,,,		
		200 10000 1000 Bearing		Fa0/18,
active	Fa0/10	Gig0/1, Gig0/2		
		112 PCx0	active	
		144 PCx2	active	Fa0/12
		1002 fddi-default	active	
	active active active	active Fa0/10 active active	active Fa0/10 Gig0/1, Gig0/2 active active 144 PCx2	active Fa0/10 Gig0/1, Gig0/2 112 PCx0 active

3 VLAN0003 active Fa0/13 4 VLAN0004 active Fa0/14

Layer 3 Switches

up			up		
Vlanl	172.16.28.34	YES manual up	Vlan1	172.16.28.35	YES manual up
up		ASSOCIATION CONTRACTOR CONTRACTOR	up		
Vlan112	172.16.28.114	YES manual up	Vlan112	172.16.28.115	YES manual up
up		Maria de la companya	up		
Vlan144	172.16.28.146	YES manual up	Vlan144	172.16.28.147	YES manual up

Layer 3 Switch 0

Spanning tree enabled protocol ieee

Root ID Priority 4097

Address 00D0.5845.2EBC

This bridge is the root

Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec

Bridge ID Priority 4097 (priority 4096 sys-id-ext 1)

Address 00D0.5845.2EBC
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec

Aging Time 20

Role Sts Cost Prio.Nbr Type Interface

128.28 Shr 128.5 P2p Desg FWD 9 Fa0/5 Desg FWD 19

VLAN0112

Spanning tree enabled protocol ieee

Root ID Priority 4208 Address 00D0.5845.2EBC

This bridge is the root

Layer 3 Switch 2

VLAN0112

Spanning tree enabled protocol ieee Root ID 4208

Priority 00D0.5845.2EBC Address

Cost 26

27 (Port-channell Port

Hello Time 2 sec Max Age 2

Bridge ID Priority 28784 (priority 0090 2B1D 4521 Address

Hello Time 2 sec Max Age 2 Aging Time 20

Role Sts Cost Interface Prio.

Root FWD 9 Po1 128.2

VI.ANO144

Spanning tree enabled protocol ieee

Root ID Priority 4240 Address 0090.2B1D.4521

This bridge is the root

VLAN0144

Spanning tree enabled protocol ieee

Root ID Priority 4240

Address 0090.2B1D.4521

Cost 26

28 (Port-channel2) Port

Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec

Bridge ID Priority 8336 (priority 8192 sys-id-ext 144)

Address 00D0.5845.2EBC

Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec

Aging Time 20

L3xSwitchx2#show spanning-tree

VLAN0001

Spanning tree enabled protocol ieee

Root ID Priority 4097 Address 00D0.5845.2EBC

Cost 26

27 (Port-channell) Port

Hello Time 2 sec Max Age 20 sec

Bridge ID Priority 28673 (priority 28672 Address 0090.2BlD.4521

Address 0090.2BlD.4521
Hello Time 2 sec Max Age 20 sec Aging Time 20

3. EtherChannel

Layer 2 Switches

	Port-channel: Pol (Primary Aggregator)				
	Rosel or Research and the profit				
Group: 2	2				
	Age of the Port-channel = 00d:00h:53m:45s				
Port-channels in the group:	Logical slot/port = 2/1 Number of ports				
	GC = 0x00000000 HotStandB Port state = Port-channel				
Port-channel: Po2 (Primary Aggregator)	Protocol = LACP Port Security = Disabled				
	Fort Security - Disabled				
	Ports in the Port-channel:				
Age of the Port-channel = 00d:00h:51m:41s	Total and Total Committee				
Logical slot/port = 2/2 Number of ports = 2	Index Load Port EC state No of b				
GC = 0x00000000 HotStandBy po					
Port state = Port-channel	0 00 Fa0/20 Active 0				
Protocol = LACP	0 00 Fa0/21 Active 0				
Port Security = Disabled	Time since last port bundled: 00d:00h:53m:45				
Ports in the Port-channel:	Group: 3				
Ports in the Port-Channel:					
Index Load Port EC state No of bits	Port-channels in the group:				
+					
0 00 Fa0/19 Active 0					
0 00 Fa0/18 Active 0	Port-channel: Po3 (Primary Aggregator)				
Time since last port bundled: 00d:00h:51m:08s					
Group: 3	The state of the s				
	Age of the Port-channel = 00d:00h:53m:45s				
Port-channels in the group:	Logical slot/port = 2/3 Number of ports				
	GC = 0x00000000 HotStandB				
	Port state = Port-channel				
Port-channel: Po3 (Primary Aggregator)	Protocol = LACP				
	Port Security = Disabled				
	Ports in the Port-channel:				
Age of the Port-channel = 00d:00h:51m:41s	Folia In the Foliamet.				
Logical slot/port = 2/3 Number of ports = 3	Index Load Port FC state No of h				
GC = 0x00000000 HotStandBy po	Index Load Port EC state No of b				
Port state = Port-channel	0 00 Fa0/24 Active 0				
Protocol = LACP	0 00 Fa0/24 Active 0				
Port Security = Disabled	o oo rao/23 Acorve				

Layer 3 Switches

Group: 2		Group: 1		
Port-channe	Ls in the group:	(SECTION SECTION)	ort-channels in the	e group:
Port-channel: Po2 (Prima	ry Aggregator)	Port-channel: Pol	(Primary Aggree	gator)
Age of the Port-channel =	00d:00h:58m:32s	Age of the Port-ch	nannel = 00d:00h	:58m:47s
Logical slot/port = 2/2	Number of ports = 2	Logical slot/port	= 2/1 Numl	ber of ports = 2
GC = 0x000	00000 HotStandBy port = null		= 0x000000000	
Port state = Port-	맛있다면 다른 경기는 다른 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전	Port state		CONTROL CONTROL CONTROL
Protocol = LAC	2	Protocol		
Port Security = Disab	Led	Port Security		
Ports in the Port-channel:		Ports in the Port-	-channel:	
Index Load Port EC			rt EC state	
0 00 Fa0/19 Act		13	+ D/21 Active	0
0 00 Fa0/18 Act	ive 0	0 00 Fa0	0/20 Active	0
Time since last port bundle	d: 00d:00h:58m:32s Fa0/18	Time since last po	ort bundled: 00	d:00h:58m:47s

4. InterVLAN Routing with a Router-on-a-Stick

Routerx4

routerx4#show ip int	brief				
Interface	IP-Address	OK?	Method	Status	Protocol
FastEthernet0/0	unassigned	YES	unset	up	up
FastEthernet0/0.1	172.16.28.97	YES	manual	up	up
FastEthernet0/0.3	172.16.28.65	YES	manual	up	up
FastEthernet0/0.4	172.16.28.81	YES	manual	up	up

PC4 Pinging PC3 and its Vlan Sub interface

```
C:\>ping 172.16.28.68
Pinging 172.16.28.68 with 32 bytes of data:
Request timed out.
Reply from 172.16.28.68: bytes=32 time<1ms TTL=127
Reply from 172.16.28.68: bytes=32 time<1ms TTL=127
Reply from 172.16.28.68: bytes=32 time<1ms TTL=127
Ping statistics for 172.16.28.68:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% lo
Approximate round trip times in milli-seconds:
   Minimum = Oms, Maximum = Oms, Average = Oms
C:\>ping 172.16.28.81
Pinging 172.16.28.81 with 32 bytes of data:
Reply from 172.16.28.81: bytes=32 time<1ms TTL=255
```

PC3 pinging its Vlan Sub interface as well as Vlans 1 subinterface

```
Pinging 172.16.28.65 with 32 bytes of data:

Reply from 172.16.28.65: bytes=32 time<1ms TTL=255
Ping statistics for 172.16.28.65:

Packets: Sent = 4, Received = 4, Lost = 0 (0% lo
Approximate round trip times in milli-seconds:

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

C:\>ping 172.16.28.97

Pinging 172.16.28.97 with 32 bytes of data:

Reply from 172.16.28.97: bytes=32 time=1ms TTL=255
Reply from 172.16.28.97: bytes=32 time<1ms TTL=255
```

5. InterVLAN Routing with SVIs

Layer 3 Switches

up			up Vlan1	172.16.28.35	YES manual up
Vlanl	172.16.28.34	YES manual up	SAST	1/2.16.28.35	iss manual up
up		estable established	up		244212 000 000 000 000 000 000 000 000 000
Vlan112	172.16.28.114	YES manual up	Vlan112	172.16.28.115	YES manual up
up			up		
Vlan144	172.16.28.146	YES manual up	Vlan144	172.16.28.147	YES manual up

PCx2 pinging Pcx0 and Vlan 144 SVI

C:\>ping 172.16.28.116 Pinging 172.16.28.116 with 32 bytes of data: Reply from 172.16.28.116: bytes=32 time<1ms TTL=127 Ping statistics for 172.16.28.116: Packets: Sent = 4, Received = 4, Lost = 0 (0% los Approximate round trip times in milli-seconds: Minimum = Oms, Maximum = Oms, Average = Oms C:\>ping 172.16.28.144 Pinging 172.16.28.144 with 32 bytes of data: Reply from 172.16.28.147: bytes=32 time<1ms TTL=255 Reply from 172.16.28.146: bytes=32 time<1ms TTL=255 Reply from 172.16.28.147: bytes=32 time=1ms TTL=255 Reply from 172.16.28.146: bytes=32 time=1ms TTL=255

PCx0 pinging Vlan 1 and Vlan 112 SVI

```
Pinging 172.16.28.34 with 32 bytes of data:

Reply from 172.16.28.34: bytes=32 time<1ms TTL=255
Ping statistics for 172.16.28.34:

Packets: Sent = 4, Received = 4, Lost = 0 (0% lo
Approximate round trip times in milli-seconds:

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

C:\>ping 172.16.28.114

Pinging 172.16.28.114 with 32 bytes of data:

Reply from 172.16.28.114: bytes=32 time<1ms TTL=255
```

The route I entered

Verifying Connectivity By pinging the the isps interface and its web server:

```
routerxl#ping 201.201.201.201

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to seconds:

!!!!!

Success rate is 100 percent (5/5),

routerxl#ping 202.202.202.100

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to seconds:

.!!!!

Success rate is 80 percent (4/5),
```

7. Dynamic Routing

Router 1 Routing table alongside the specific commands I entered

```
routerxl#show ip route ospf
     172.16.0.0/16 is variably subnetted, 17 subnets, 5 masks
        172.16.28.32 [110/66] via 172.16.28.194, 02:31:06, Serial0/0/1
0
0
       172.16.28.64 [110/129] via 172.16.28.194, 02:32:31, Serial0/0/1
       172.16.28.80 [110/129] via 172.16.28.194, 02:32:31, Serial0/0/1
0
       172.16.28.96 [110/129] via 172.16.28.194, 02:32:31, Serial0/0/1
0
       172.16.28.112 [110/66] via 172.16.28.194, 02:30:56, Serial0/0/1
0
0
       172.16.28.128 [110/65] via 172.16.28.194, 02:32:06, Serial0/0/1
       172.16.28.132 [110/65] via 172.16.28.194, 02:32:06, Serial0/0/1
0
       172.16.28.144 [110/66] via 172.16.28.194, 02:30:56, Serial0/0/1
0
0
       172.16.28.164 [110/128] via 172.16.28.194, 02:32:31, Serial0/0/1
0
       172.16.28.202 [110/65] via 172.16.28.194, 02:32:31, Serial0/0/1
0
       172.16.28.204 [110/129] via 172.16.28.194, 02:32:31, Serial0/0/1
0
       172.16.28.210 [110/66] via 172.16.28.194, 02:31:56, Serial0/0/1
       172.16.28.212 [110/66] via 172.16.28.194, 02:01:16, Serial0/0/1
routerxl#show run | include ?
 LINE Regular expression.
routerxl#show run | include network
network 172.16.28.0 0.0.0.31 area 0
network 172.16.28.160 0.0.0.3 area 0
network 172.16.28.192 0.0.0.7 area 0
network 172.16.28.201 0.0.0.0 area 0
routerxl#show ip route
```

Layer Switch 2 Routing table alongside the specific commands I entered

```
L3xSwitchx2#show run | i area
 network 172.16.28.128 0.0.0.3 area 0
 network 172.16.28.32 0.0.0.31 area 0
network 172.16.28.112 0.0.0.15 area 0
network 172.16.28.144 0.0.0.15 area 0
network 172.16.28.212 0.0.0.0 area 0
L3xSwitchx2#show ip route ospf
     172.16.0.0/16 is variably subnetted, 17 subnets, 5 masks
0
        172.16.28.0 [110/130] via 172.16.28.129, 02:36:21, FastEthernet0/2
       172.16.28.64 [110/66] via 172.16.28.129, 02:36:21, FastEthernet0/2
0
       172.16.28.80 [110/66] via 172.16.28.129, 02:36:21, FastEthernet0/2
0
       172.16.28.96 [110/66] via 172.16.28.129, 02:36:21, FastEthernet0/2
0
       172.16.28.132 [110/2] via 172.16.28.34, 02:35:16, Vlan1
                      [110/2] via 172.16.28.114, 02:35:16, Vlan112
                      [110/2] via 172.16.28.146, 02:35:16, Vlan144
                      [110/2] via 172.16.28.129, 02:35:16, FastEthernet0/2
0
       172.16.28.160 [110/129] via 172.16.28.129, 02:36:21, FastEthernet0/2
0
       172.16.28.164 [110/65] via 172.16.28.129, 02:36:21, FastEthernet0/2
       172.16.28.192 [110/1563] via 172.16.28.129, 02:36:21, FastEthernet0/2
       172.16.28.201 [110/130] via 172.16.28.129, 02:36:21, FastEthernet0/2
       172.16.28.202 [110/2] via 172.16.28.129, 02:36:21, FastEthernet0/2
       172.16.28.204 [110/66] via 172.16.28.129, 02:36:21, FastEthernet0/2
        172.16.28.210 [110/2] via 172.16.28.34, 02:35:16, Vlan1
                      [110/2] via 172.16.28.114, 02:35:16, Vlan112
                      [110/2] via 172.16.28.146, 02:35:16, Vlan144
0*E2 0.0.0.0/0 [110/1] via 172.16.28.129, 02:36:21, FastEthernet0/2
```

PCx0s traceroute to PCx1

L3xSwitchx2#

```
Tracing route to 172.16.28.11 over a maximum of 30
     0 ms
                0 ms
                          0 ms
                                     172.16.28.114
 2
     11 ms
                          1 ms
                                    172.16.28.129
                0 ms
     1 ms
                13 ms
                          1 ms
                                    172.16.28.165
     0 ms
                1 ms
                          0 ms
                                    172.16.28.193
     2 ms
                0 ms
                          11 ms
                                    172.16.28.11
```

8. Default Route Injection

The command I entered

```
routerxl#show run | i default
default-information originate
```

Verifying Population in Router 2 and 3

```
Serial0/0/0
0 172.16.28.212 [110/52] via 172.16.28.166, 02:43:00,
Serial0/0/0
0*E2 0.0.0.0/0 [110/1] via 172.16.28.161, 03:14:15, Serial0/0/1
```

```
0 172.16.28.210 [110/2] via 172.16.28.134, 03:14:19, FastEthernet0/0 0 172.16.28.212 [110/2] via 172.16.28.130, 02:43:24, FastEthernet0/1 0*E2 0.0.0.0/0 [110/1] via 172.16.28.165, 03:14:39, Serial0/0/1
```

Verifying connectivity to the web server from devices outside of router 1s lan

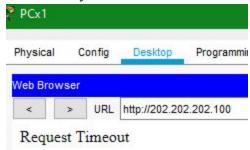
PCx3 pinging Web Server and Trace Routing it

```
Pinging 202.202.202.100 with 32 bytes of data:
Reply from 202.202.202.100: bytes=32 time=1ms TTL=124
Reply from 202.202.202.100: bytes=32 time=1ms TTL=124
Reply from 202.202.202.100: bytes=32 time=1ms TTL=124
Reply from 202.202.202.100: bytes=32 time=9ms TTL=124
Ping statistics for 202.202.202.100:
   Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 9ms, Average = 3ms
C:\>tracert 202.202.202.100
Tracing route to 202.202.202.100 over a maximum of 30 hops:
      1 ms
                0 ms
                          0 ms
                                    172.16.28.81
      4 ms
                1 ms
                          2 ms
                                    172.16.28.193
                          1 ms
     1 ms
                1 ms
                                    201.201.201.201
                          1 ms
      1 ms
                0 ms
                                    202.202.202.100
```

9. Access Control Lists

```
routerxl#show access
Extended IP access list DENYPC1WEB
    10 deny tcp host 172.16.28.11 host 202.202.202.100 eq www
    20 permit ip any any (12 match(es))
    30 permit tcp any any
```

Check to verify PCx1 cannot access the server via HTTP



Check to verify other devices can reach the server via HTTP



10. SSH

Verify an SSH connection is established with PC4

routerx4#sh	ow ssh				
Connection	Version	Mode	Encryption	Hmac State	
Username					
323	1.99	IN	aes128-cbc	hmac-shal	Session
Started	cisco				
323	1.99	OUT	aes128-cbc	hmac-shal	Session
Started c	isco				

Verify Telnet not being allowed

```
C:\>telnet 172.16.28.65
Trying 172.16.28.65 ...Open
[Connection to 172.16.28.65 closed by foreign host]
```

Verify Other devices not being able to use SSH



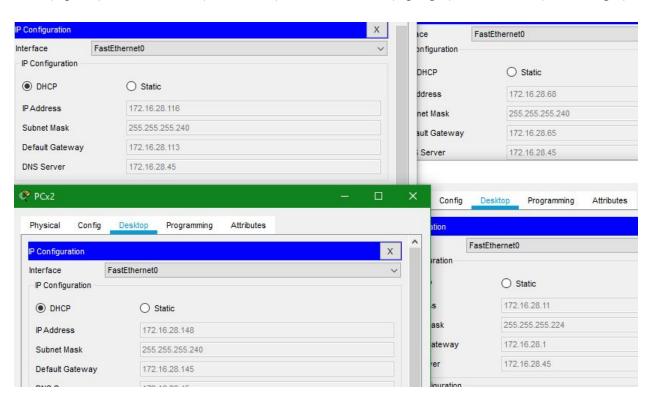
Router 4 - Devices binded to dhcp - Pcx1 and Pcx3

routerx4#show i	p dhep binding		
IP address	Client-ID/	Lease expiration	Type
	Hardware address		
172.16.28.68	0050.0F71.8383		Automatic
172.16.28.11 routerx4#	0060.5C4C.E05E	NEET S	Automatic

Layer 3 Switch - Devices binded to dhcp - Pcx0 and Pcx2

L3xSwitchx2#show	ip dhep binding		
IP address	Client-ID/	Lease expiration	Type
	Hardware address		
172.16.28.116	0002.4A97.9B51		
Automatic			
172.16.28.148	00D0.BA46.9B80		
Automatic			
LavSwitchv2#			

PCx0(top left), Pcx2 (bottom left), Pcx4 (top right), Pcx1 (bottom right)



Dns servers populated records and cnames

No.	Name	Туре	
0	dns-server	CNAME	dns-server-inetlab.local
1	dns-server-inetlab.local	A Record	172.16.28.45
2	isp-inetlab.local	A Record	20.20.20.20
3	l3switchx0-inetlab.local	A Record	172.16.28.210
4	l3switchx2-inetlab.local	A Record	172.16.28.212
5	рсх0	CNAME	pxc0-inetlab.local
6	pcx1	CNAME	pxc1-inetlab.local
7	pcx2	CNAME	pxc2-inetlab.local
8	pxc0-inetlab.local	A Record	172.16.28.116
9	pxc1-inetlab.local	A Record	172.16.28.11
10	pxc2-inetlab.local	A Record	172.16.28.148
11	pxc4-inetlab.local	A Record	172.16.28.84

Verifying a cname and a record connectivity:

```
C:\>ping pcx0
Pinging 172.16.28.116 with 32 bytes of data:
Reply from 172.16.28.116: bytes=32 time=1ms TTL=128
Reply from 172.16.28.116: bytes=32 time<1ms TTL=128
Reply from 172.16.28.116: bytes=32 time=1ms TTL=128
Reply from 172.16.28.116: bytes=32 time<1ms TTL=128
Ping statistics for 172.16.28.116:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
   Minimum = Oms, Maximum = 1ms, Average = Oms
C:\>ping router4-inetlab.local
Pinging 172.16.28.204 with 32 bytes of data:
Reply from 172.16.28.204: bytes=32 time=1ms TTL=253
Reply from 172.16.28.204: bytes=32 time=1ms TTL=253
Reply from 172.16.28.204: bytes=32 time=3ms TTL=253
Reply from 172.16.28.204: bytes=32 time=1ms TTL=253
```

PCx2 pinging DNS server

```
C:\>ping 172.16.28.45

Pinging 172.16.28.45 with 32 bytes of data:

Request timed out.

Reply from 172.16.28.45: bytes=32 time<lms TTL=127

Reply from 172.16.28.45: bytes=32 time=lms TTL=127

Reply from 172.16.28.45: bytes=32 time<lms TTL=127

Ping statistics for 172.16.28.45:

Packets: Sent = 4, Received = 3, Lost = 1 (25% loss

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

13. PAT

Access list permitting all networks

```
Standard IP access list 20

10 permit 172.16.28.192 0.0.0.7
20 permit 172.16.28.160 0.0.0.3
30 permit 172.16.28.164 0.0.0.3
40 permit 172.16.28.0 0.0.0.31 (2 match(es))
50 permit 172.16.28.96 0.0.0.15
60 permit 172.16.28.64 0.0.0.15 (2 match(es))
70 permit 172.16.28.80 0.0.0.15 (28 match(es))
80 permit 172.16.28.132 0.0.0.3
90 permit 172.16.28.132 0.0.0.3
100 permit 172.16.28.128 0.0.0.3
110 permit 172.16.28.112 0.0.0.15
120 permit 172.16.28.114 0.0.0.15
130 deny any (21 match(es))
```

Show nat pool statistics

Show nat translations

```
routerxl#show ip nat translations
Pro Inside global
                                      Outside local
                     Inside local
                                                          Outside
global
icmp 201.201.201.203:13172.16.28.68:13 202.202.202.100:13
202.202.202.100:13
icmp 201.201.201.203:14172.16.28.68:14 202.202.202.100:14
202.202.202.100:14
icmp 201.201.201.203:15172.16.28.68:15 202.202.202.100:15
202.202.202.100:15
icmp 201.201.201.203:16172.16.28.68:16 202.202.202.100:16
202.202.202.100:16
icmp 201.201.201.203:17172.16.28.148:17 202.202.202.100:17
202.202.202.100:17
icmp 201.201.201.203:18172.16.28.148:18 202.202.202.100:18
202.202.202.100:18
icmp 201.201.201.203:19172.16.28.148:19 202.202.202.100:19
202.202.202.100:19
icmp 201.201.201.203:20172.16.28.148:20 202.202.202.100:20
202.202.202.100:20
tcp 201.201.201.203:1025172.16.28.68:1025 202.202.202.100:80
202.202.202.100:80
```

14. HSRP

Layer 3 Switch 0

Layer 3 Switch 2

Pcx0 pinging VIPS

```
C:\>ping 172.16.28.113
Pinging 172.16.28.113 with 32 bytes of data:
Reply from 172.16.28.113: bytes=32 time<1ms TTL=255
Ping statistics for 172.16.28.113:
   Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
   Minimum = Oms, Maximum = Oms, Average = Oms
C:\>ping 172.16.28.147
Pinging 172.16.28.147 with 32 bytes of data:
Reply from 172.16.28.147: bytes=32 time=1ms TTL=255
Reply from 172.16.28.147: bytes=32 time<1ms TTL=255
Reply from 172.16.28.147: bytes=32 time<1ms TTL=255
Reply from 172.16.28.147: bytes=32 time<1ms TTL=255
```

15. Routed Switch Interfaces

Layer 3 Switch 0 interface status

L3xSwitchx0#show	int	status
------------------	-----	--------

Port	Name	Status	Vlan	Duplex	Speed	Type
Pol		notconnect	1	auto	auto	
Po2		connected	1	auto	auto	
Fa0/1		connected	routed	auto	auto	10/10
T 0 (0		No professional	-	111000	The state of the s	10110

Layer 3 Switch 2 interface status

L3xSwitchx2#show int status

Port	Name	Status	Vlan	Duplex	Speed	Type
Pol		connected	1	auto	auto	
Fa0/1		notconnect	1	auto	auto	10/10
Fa0/2		connected	routed	auto	auto	10/10

Command I entered - No Switchport

```
interface FastEthernet0/2
no switchport
ip address 172.16.28.130 255.255.255
```

16. VTP

Layer 3 Switch 2 VTP status

Switchx0#show vtp password

VTP Password: cisco

```
L3xSwitchx2(config) #do show vtp status
VTP Version capable : 1 to 2
VTP version running
VTP Domain Name
                              : Serverl
VTP Pruning Mode
                              : Disabled
VTP Traps Generation
                              : Disabled
                              : 0002.17E7.2400
Configuration last modified by 172.16.28.35 at 3-1-93 00:28:17
Local updater ID is 172.16.28.35 on interface V11 (lowest numbered VLAN interface
Feature VLAN :
-----
VTP Operating Mode
                                : Server
Maximum VLANs supported locally : 1005
Number of existing VLANs
                                : 7
Configuration Revision
                                : 68
                                : 0x00 0x49 0x68 0x41 0x06 0x42 0x66 0x9D
MD5 digest
                                 0xAE 0xB1 0xE2 0xA4 0x20 0x8B 0x1B 0xD7
was a sole as a second
Layer 3 Switch 0 VTP status
L3xSwitchx0#show vtp status
VTP Version capable
                             : 1 to 2
VTP version running
                              . 2
VTP Domain Name
                              : Serverl
                              : Disabled
VTP Pruning Mode
VTP Traps Generation
                              : Disabled
Device ID
                               : 000C.CFAD.7E30
Configuration last modified by 172.16.28.34 at 3-1-93 00:28:39
Local updater ID is 172.16.28.34 on interface V11 (lowest numbered
VLAN interface found)
Feature VLAN :
VTP Operating Mode
                                : Server
Maximum VLANs supported locally : 1005
Number of existing VLANs
Configuration Revision
                               : 68
                                : 0xAD 0xD4 0xD5 0xB8 0xF4 0x9D
MD5 digest
0x8F 0x44
                                 OxAC 0x38 0xA7 0xA7 0xFB 0x5A
0x29 0x35
Layer 2 Switch 0 VTP status and Password *
Switchx0#show vtp status
VTP Version
Configuration Revision
Maximum VLANs supported locally : 255
Number of existing VLANs
VTP Operating Mode
VTP Domain Name
VTP Pruning Mode
                               : Disabled
VTP V2 Mode
                               : Disabled
VTP Traps Generation
                               : Disabled
MD5 digest
                               : 0xAD 0xD4 0xD5
0x44
 Configuration last modified by 172.16.28.34 at 3-
Switchx0#show vtp ?
  counters VTP statistics
  password VTP password
  status VTP domain status
```