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ASSIGNMENT # 4 VLAN CONFIGURATION

Date of submission: Dec. 18, 2017

Name of each team member and part of the assignment he completed:

Bishop Osborne – completed Router, Host-A, Screenshots.

Joshua Fontana – completed switch S1, Screenshots.

Nikola Petrovski – completed switch S2, Host-B, Screenshots.

Timothy Molga – completed switch S3, Host-C, Screenshots.

1.0 NETWORK TOPOLOGY IN GNS3 (4)

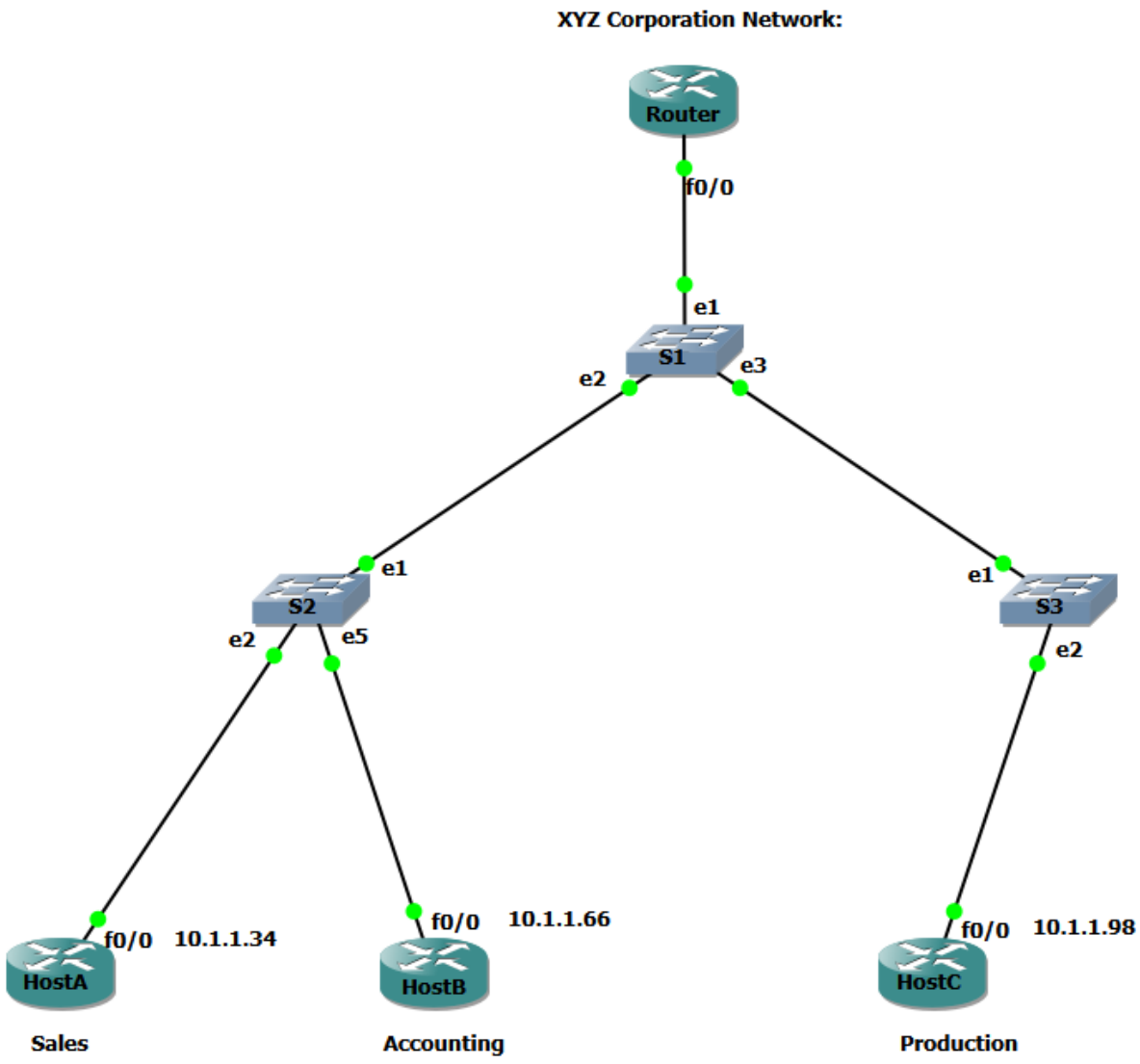


Figure: A screen shot of the topology with the required information as per step D.

2.0 RUNNING CONFIFURATION OF ROUTER (9) ~no comments underline changes

Router#show running-config

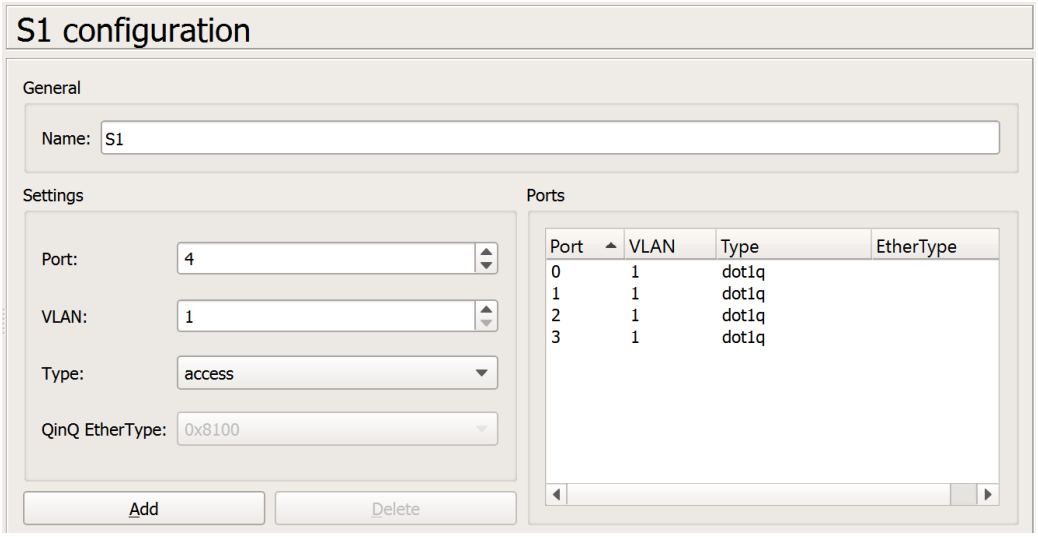
interface FastEthernet0/0
 no ip address
 duplex auto
 speed auto
!
interface FastEthernet0/0.2
 encapsulation dot1Q 2
 ip address 10.1.1.33 255.255.255.224
!
interface FastEthernet0/0.3
 encapsulation dot1Q 3
 ip address 10.1.1.65 255.255.255.240
!
interface FastEthernet0/0.4
 encapsulation dot1Q 4
 ip address 10.1.1.97 255.255.255.248
!
interface Serial1/0
 no ip address
 shutdown
 serial restart-delay 0
!
interface Serial1/1

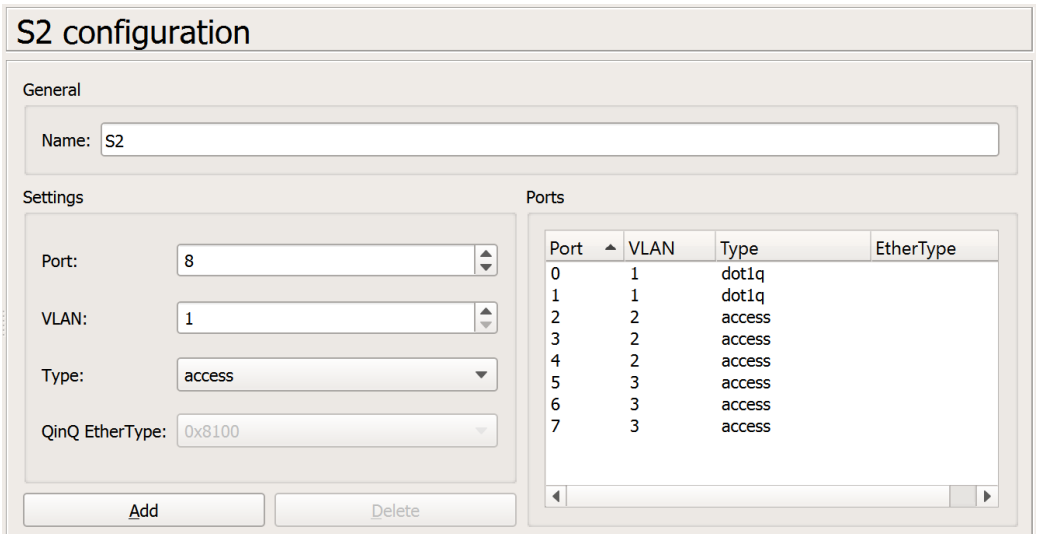
```
 no ip address
 shutdown
 serial restart-delay 0
!
interface Serial1/2
 no ip address
 shutdown
 serial restart-delay 0
!
interface Serial1/3
 no ip address
 shutdown
 serial restart-delay 0
line con 0
 exec-timeout 0 0
 privilege level 15
 logging synchronous
line aux 0
 exec-timeout 0 0
 privilege level 15
 logging synchronous
line vty 0 4
 login
end

Router#
```

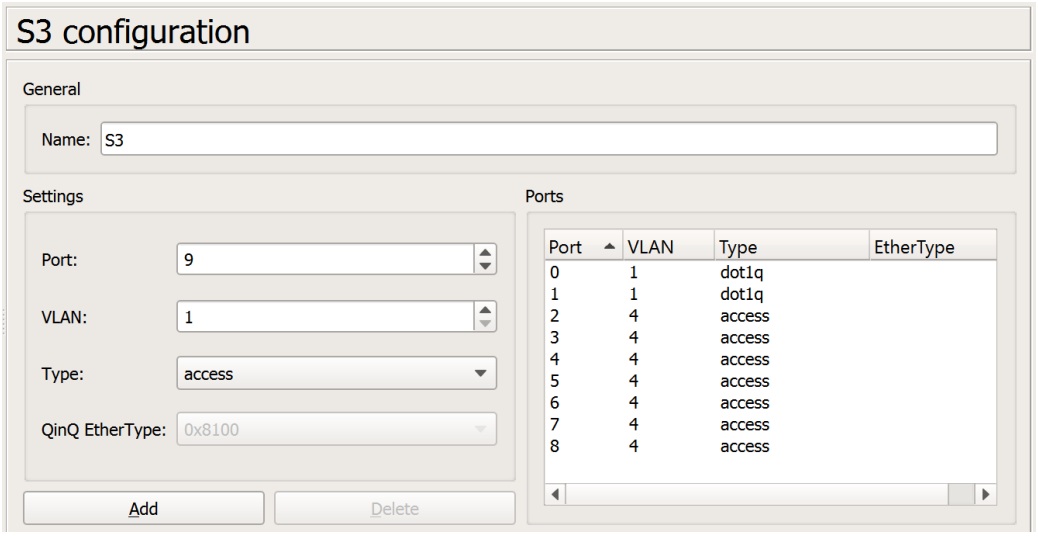
3.0 ROUTING TABLE OF ROUTER (6)

```
Router#show ip interface brief
Interface                  IP-Address      OK? Method Status                Protocol
FastEthernet0/0            unassigned      YES NVRAM  up                    up
FastEthernet0/0.2          10.1.1.33       YES NVRAM  up                    up
FastEthernet0/0.3          10.1.1.65       YES NVRAM  up                    up
FastEthernet0/0.4          10.1.1.97       YES NVRAM  up                    up
Serial1/0                  unassigned      YES NVRAM  administratively down down
Serial1/1                  unassigned      YES NVRAM  administratively down down
Serial1/2                  unassigned      YES NVRAM  administratively down down
Serial1/3                  unassigned      YES NVRAM  administratively down down
Router#
```

4.0 SWITCH CONFIGURATION (S1,S2,S3) (6)







5.0 ROUTING TABLE FOR (HostA,HostB,HostC) (6)

HostA

```
HostA#show ip interface brief
Interface                  IP-Address      OK? Method Status                Protocol
FastEthernet0/0            10.1.1.34       YES NVRAM  up                    up
Serial1/0                  unassigned      YES NVRAM  administratively down down
Serial1/1                  unassigned      YES NVRAM  administratively down down
Serial1/2                  unassigned      YES NVRAM  administratively down down
Serial1/3                  unassigned      YES NVRAM  administratively down down
HostA#
```

HostB

```
HostB#show ip interface brief
Interface                  IP-Address      OK? Method Status                Protocol
FastEthernet0/0            10.1.1.66       YES NVRAM  up                    up
Serial1/0                  unassigned      YES NVRAM  administratively down down
Serial1/1                  unassigned      YES NVRAM  administratively down down
Serial1/2                  unassigned      YES NVRAM  administratively down down
Serial1/3                  unassigned      YES NVRAM  administratively down down
HostB#
```

HostC

```
HostC#show ip interface brief
Interface                  IP-Address      OK? Method Status                Protocol
FastEthernet0/0            10.1.1.98       YES NVRAM  up                    up
Serial1/0                  unassigned      YES NVRAM  administratively down down
Serial1/1                  unassigned      YES NVRAM  administratively down down
Serial1/2                  unassigned      YES NVRAM  administratively down down
Serial1/3                  unassigned      YES NVRAM  administratively down down
HostC#
```

6.0 PING RESULTS (4)

HostA

```
HostA#ping 10.1.1.66

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.66, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 88/90/96 ms
HostA#
```

Form HostA to HostB

HostA

```
HostA#ping 10.1.1.98

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.98, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 88/91/96 ms
HostA#
```

Form HostA to HostC