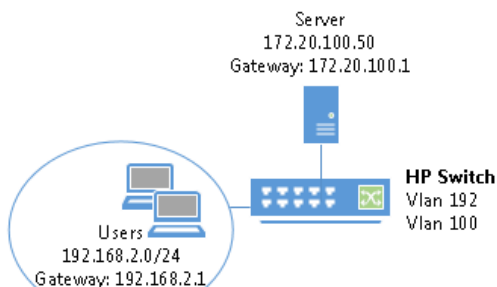


InterVLAN routing



!Inorder for users VLAN to communicate with Server VLAN

```
(config)# ip routing
```

Reset to factory default

```
(config)# erase startup-config
Configuration will be deleted and device
rebooted, continue [y/n]? Y
```

Enable Remote Logging (syslog)

```
(config)# logging 172.20.100.155
```

Configure SNMPv1 and SNMPv2c

!ITADMINCOM is community string. 172.20.100.150 is trap receiver.

```
(config)# snmp-server host 172.20.100.150 ITADMINCOM
```

!community with manager privilege can access all MIB objects, but read-only.

```
config)# snmp-server community ITADMINCOM manager restricted
```

!community with operator privilege can access all MIB objects except CONFIG MIB, but read-only

```
config)# snmp-server community ITADMINCOM operator restricted
```

TROUBLESHOOTING

!displays information on all SNMP communities, trap receivers, traps information

```
(config)# show snmp-server
```

DHCP Relay

```
(config)# vlan 192
(vlan-192)# ip helper-address 172.20.100.1
```

Configure Rapid Spanning Tree Protocol

```
(config)# spanning-tree
```

!Use RSTP (Rapid STP) instead, because of slow convergence of STP

```
(config)# spanning-tree force-version rstp-operation
```

Useful Troubleshooting Commands (self explanatory)

```
show system information
show vlans
show mac-address b40c25-ff6613
show trunks
show lacp
show spanning-tree
show power-over-ethernet brief
!summary of network traffic of each port
show int display
!Event logs
log -r //most recent first
log [IP address] //events of specific IP
```

Configure SNMPv3

```
!disable default and insecure snmp community
(config)# no snmp-server community public
```

```
(config)# snmpv3 enable
Creating user 'initial'
Authentication Protocol: MD5
Enter authentication password: *****
Privacy protocol is DES
Enter privacy password: *****
```

User 'initial' is created
Would you like to create a user that uses SHA? n

User creation is done. SNMPv3 is now functional.
Would you like to restrict SNMPv1 and SNMPv2c messages to have read only access (you can set this later by the command 'snmp restrict-access'): y

```
!If you want to add user to Manager group, privileged.
!SNMPv3 access group should only use ver3 security model.
(config)# snmpv3 group managerpriv user cacti sec-model ver3
```

```
!If you want to add user to Operator group, unprivileged.
(config)# snmpv3 group operatorauth user cacti sec-model ver3
```

```
!Specify your preferred username and password
(config)# snmpv3 user cacti auth md5 authenticationpass priv aes privatepass
```

```
!delete default initial user for security reasons.
(config)# no snmpv3 user initial
```

OPTIONAL

```
!completely turn off snmpv1/2
(config)# snmpv3 only
```

```
!Allow your server for operator access to HP switch
(config)# ip authorized-managers 172.20.100.150 255.255.255.255 access operator
```

TROUBLESHOOTING

```
!To view all snmpv3 users
(config)# show snmpv3 user
```

```
!To view all snmpv3 groups
(config)# show snmpv3 groups
```