

//Switch mode access to assign vlan to each connection ---

Ground Floor Switch Config

```
en
conf t
int range fa0/1-5
switchport mode access
switchport access vlan 10
do wr
ex
```

IT Switch Config

```
en
conf t
int fa0/1
switchport mode access
switchport access vlan 11
do wr
int fa1/1
switchport mode access
switchport access vlan 11
do wr
int fa2/1
switchport mode access
switchport access vlan 11
do wr
int fa3/1
switchport mode access
switchport access vlan 11
do wr
ex
```

ADMIN Switch Config

```
en
conf t
int fa0/1
switchport mode access
switchport access vlan 12
do wr
int fa1/1
switchport mode access
switchport access vlan 12
do wr
int fa2/1
switchport mode access
switchport access vlan 12
do wr
int fa3/1
switchport mode access
switchport access vlan 12
do wr
ex
```

SECURITY Switch Config

```
en
conf t
int fa0/1
switchport mode access
switchport access vlan 13
do wr
int fa1/1
switchport mode access
switchport access vlan 13
do wr
int fa2/1
switchport mode access
```

```
switchport access vlan 13
do wr
int fa3/1
switchport mode access
switchport access vlan 13
do wr
ex
```

SECOND FLOOR Switch Config

```
en
conf t
int fa0/1
switchport mode access
switchport access vlan 20
do wr
int fa1/1
switchport mode access
switchport access vlan 20
do wr
ex
```

THIRD FLOOR Switch Config

```
en
conf t
int fa0/1
switchport mode access
switchport access vlan 30
do wr
int fa1/1
switchport mode access
switchport access vlan 30
do wr
ex
```

TOP FLOOR Switch Config

```
en
conf t
int fa0/1
switchport mode access
switchport access vlan 50
do wr
int fa1/1
switchport mode access
switchport access vlan 50
do wr
int fa2/1
switchport mode access
switchport access vlan 13
do wr
int fa3/1
switchport mode access
switchport access vlan 13
do wr

ex
```

//Mode trunk to connect the router to the L3
//Assign the vlan to every (fa) connection

Multilayer Switch Config

```
en
conf t
int fa0/1
switchport trunk encapsulation dot1q
```

```
switchport mode trunk
do wr
int fa0/2
switchport mode access
switchport access vlan 10
do wr
int fa0/3
switchport mode access
switchport access vlan 11
do wr
int fa0/4
switchport mode access
switchport access vlan 12
do wr
int fa0/5
switchport mode access
switchport access vlan 13
do wr
int fa0/6
switchport mode access
switchport access vlan 20
do wr
int fa0/7
switchport mode access
switchport access vlan 30
do wr
int fa0/9
switchport mode access
switchport access vlan 50
do wr
ex
```

//Up the status of the gig0/0 connection

//used the router to encapsulate the ip for every vlan

//config the service dhcp network ---

Router Config

```
en
conf t
int gig0/0
no sh
do wr
ex

int gig0/0.10
encapsulation dot1q 10
ip add 192.168.1.0 255.255.255.0
no sh
ex

int gig0/0.11
encapsulation dot1q 11
ip add 192.168.11.0 255.255.255.0
no sh
ex

int gig0/0.12
encapsulation dot1q 12
ip add 192.168.12.0 255.255.255.0
no sh
ex

int gig0/0.13
encapsulation dot1q 13
ip add 192.168.13.0 255.255.255.0
```

```
no sh
ex
```

```
int gig0/0.20
encapsulation dot1q 20
ip add 192.168.2.0 255.255.255.0
no sh
ex
```

```
int gig0/0.30
encapsulation dot1q 30
ip add 192.168.3.0 255.255.255.0
no sh
ex
```

```
int gig0/0.50
encapsulation dot1q 50
ip add 192.168.5.0 255.255.255.0
no sh
ex
```

```
service dhcp
ip dhcp pool frontdesk-pool
network 192.168.1.0 255.255.255.0
default-router 192.168.1.1
dns-server 192.168.1.1
do wr
ex
```

```
service dhcp
ip dhcp pool IT-pool
network 192.168.11.0 255.255.255.0
default-router 192.168.11.1
dns-server 192.168.11.1
do wr
ex
```

```
service dhcp
ip dhcp pool ADMIN-pool
network 192.168.12.0 255.255.255.0
default-router 192.168.12.1
dns-server 192.168.12.1
do wr
ex
```

```
service dhcp
ip dhcp pool SECURITY-pool
network 192.168.13.0 255.255.255.0
default-router 192.168.13.1
dns-server 192.168.13.1
do wr
ex
```

```
service dhcp
ip dhcp pool second-pool
network 192.168.2.0 255.255.255.0
default-router 192.168.2.1
dns-server 192.168.2.1
do wr
ex
```

```
service dhcp
ip dhcp pool third-pool
network 192.168.3.0 255.255.255.0
default-router 192.168.3.1
```

```
dns-server 192.168.3.1
do wr
ex

service dhcp
ip dhcp pool top-pool
network 192.168.5.0 255.255.255.0
default-router 192.168.5.1
dns-server 192.168.5.1
do wr
ex
```

*/*DHCP Server & Inter-VLAN Config --- Ang naka different niya sa past activity natu kay instead na adtu ta sa L3 SWITCH mag config para sa pag assign sa ip add ug network sa each VLAN kay ddtu ta nag config sa ROUTER since nag utilize naman ta ug router. Bali nagamit ang L3 Switch sa assignment sa VLAN and nagamit sad sha na maoy ni connect sa tanang switch para ma connect sa router*/*