

Switch0

```
enable
configure terminal
vlan 10
exit
vlan 20
exit
vlan 30
exit
interface range fastEthernet 0/1 - 2
switchport mode trunk
channel-protocol pagp
channel-group 1 mode desirable
exit
interface fastEthernet 0/3
switchport mode access
switchport access vlan 10
exit
exit
```

Multilayer Switch1

```
enable
configure terminal
vlan 10
exit
vlan 20
exit
vlan 30
exit
interface range fastEthernet 0/1 - 2
switchport trunk encapsulation dot1q
switchport mode trunk
channel-protocol pagp
channel-group 1 mode desirable
exit
interface range fastEthernet 0/3 - 6
switchport trunk encapsulation dot1q
switchport mode trunk
channel-protocol pagp
channel-group 2 mode desirable
exit
interface fastEthernet 0/7
switchport mode access
switchport access vlan 20
exit
interface gigabitEthernet 0/1
switchport trunk encapsulation dot1q
switchport mode trunk
```

exit
exit

Switch1

enable
configure terminal
vlan 10
exit
vlan 20
exit
vlan 30
exit
interface range fastEthernet 0/3 - 6
switchport mode trunk
channel-protocol pagp
channel-group 2 mode desirable
exit
interface fastEthernet 0/1
switchport mode access
switchport access vlan 30
exit
exit

Router

enable
configure terminal
interface gigabitEthernet 0/1
no shutdown
exit
interface gigabitEthernet 0/1.10
encapsulation dot1Q 10
ip address 10.10.10.1 255.255.255.0
exit
interface gigabitEthernet 0/1.20
encapsulation dot1Q 20
ip address 20.20.20.1 255.255.255.0
exit
interface gigabitEthernet 0/1.30
encapsulation dot1Q 30
ip address 30.30.30.1 255.255.255.0
exit
ip dhcp pool VLAN10
network 10.10.10.0 255.255.255.0
default-router 10.10.10.1
exit
ip dhcp pool VLAN20

```
network 20.20.20.0 255.255.255.0
default-router 20.20.20.1
exit
ip dhcp pool VLAN30
network 30.30.30.0 255.255.255.0
default-router 30.30.30.1
exit
exit
```