PC0 > IP Configuration	**PC1** > IP Configuration	**PC2** > IP Configuration
IPv4 Address : 100.10.0.2	IPv4 Address : 100.20.0.2	IPv4 Address : 100.30.0.2
Subnet Mask : 255.255.0.0	Subnet Mask : 255.255.0.0	Subnet Mask : 255.255.0.0
Default Gateway 100.10.0.1	Default Gateway 100.20.0.1	Default Gateway 100.30.0.1
PC3 > IP Configuration	**PC4** > IP Configuration	**PC5** > IP Configuration
IPv4 Address : 100.10.0.3	IPv4 Address : 100.20.0.3	IPv4 Address : 100.30.0.3
Subnet Mask : 255.255.0.0	Subnet Mask : 255.255.0.0	Subnet Mask : 255.255.0.0
Default Gateway 100.10.0.1	Default Gateway 100.20.0.1	Default Gateway 100.30.0.1
PC6 > IP Configuration	**PC7** > IP Configuration	**PC8** > IP Configuration
IPv4 Address : 100.10.0.4	IPv4 Address : 100.20.0.4	IPv4 Address : 100.30.0.4
Subnet Mask : 255.255.0.0	Subnet Mask : 255.255.0.0	Subnet Mask : 255.255.0.0
Default Gateway 100.10.0.1	Default Gateway 100.20.0.1	Default Gateway 100.30.0.1

SW1, SW2, SW3

Switch>en

Switch#conf t

Switch(config)#no ip domain-lookup

Switch(config)#hostname SW1

SW1(config)#vlan 10

SW1(config-vlan)#vlan 20

SW1(config-vlan)#vlan 30

SW1(config-vlan)#vlan 99

SW1(config-vlan)#name Native

SW1(config-vlan)#exit

SW1(config)#int vlan 99

SW1(config-if)#ip address 100.99.0.2 255.255.0.0

SW1(config-if)#exit

SW1(config)#ip default-gateway 100.99.0.1

SW1, SW2, SW3

Switch(config)#int fastEthernet 0/_

Switch(config-if)#switchport mode access

Switch(config-if)#switchport access vlan 10

Switch(config-if)#exit

Switch(config)#int fastEthernet 0/_

Switch(config-if)#switchport mode access

Switch(config-if)#switchport access vlan 20

Switch(config-if)#exit

Switch(config)#int fastEthernet 0/_

Switch(config-if)#switchport mode access

Switch(config-if)#switchport access vlan 30

Switch(config-if)#exit

SW2

Switch(config)#int port-channel 2

Switch(config-if)#switchport nonegotiate

Switch(config-if)#switchport trunk allowed vlan 10,20,30,99

Switch(config)#int fastEthernet 0/_

Switch(config-if)#switchport mode trunk

Switch(config-if)#switchport trunk native vlan 99

ch 1 pagp desi-desi

Switch(config)#int range fastEthernet 0/_-_

Switch(config-if-range)#switchport mode trunk

Switch(config-if-range)#switchport trunk native vlan 99

Switch(config-if-range)#sh

Switch(config-if-range)#channel-group 1 mode desirable

Switch(config-if-range)#no sh

Switch(config-if-range)#exit

Switch(config)#int port-channel 1

Switch(config-if)#switchport mode trunk

Switch(config-if)#switchport trunk native vlan 99

Switch(config-if)#exit

ch 2 lacp acti-acti

Switch(config)#int range fastEthernet 0/_-_

Switch(config-if-range)#switchport mode trunk

Switch(config-if-range)#switchport trunk native vlan 99

Switch(config-if-range)#sh

Switch(config-if-range)#channel-group 2 mode active

Switch(config-if-range)#no sh

Switch(config-if-range)#exit

Switch(config)#int port-channel 2

Switch(config-if)#switchport mode trunk

Switch(config-if)#switchport trunk native vlan 99

Switch(config-if)#exit

ch 3 manual on-on

Switch(config)#int range fastEthernet 0/_-_

Switch(config-if-range)#switchport mode trunk

Switch(config-if-range)#switchport trunk native vlan 99

Switch(config-if-range)#sh

Switch(config-if-range)#channel-group 3 mode on

Switch(config-if-range)#no sh

Switch(config-if-range)#exit

SW(config)#int port-channel 3

SW(config-if)#switchport mode trunk

SW(config-if)#switchport trunk native vlan 99

SW(config-if)#exit

ROUTER

Router>en

Router#conf t

Router(config)#no ip domain-lookup

Router(config)#hostname R1

R1(config)#int g0/0.10

R1(config-subif)#encapsulation dot1Q 10

R1(config-subif)#ip address 100.10.0.1 255.255.0.0

R1(config-subif)#exit

R1(config)#int g0/0.20

R1(config-subif)#encapsulation dot1Q 20

R1(config-subif)#ip address 100.20.0.1 255.255.0.0

R1(config-subif)#exit

R1(config)#int g0/0.30

R1(config-subif)#encapsulation dot1Q 30

R1(config-subif)#ip address 100.30.0.1 255.255.0.0

R1(config-subif)#exit

R1(config)#int g0/0.99

R1(config-subif)#encapsulation dot1Q 99 Native

R1(config-subif)#ip address 100.99.0.1 255.255.0.0

R1(config-subif)#exit

R1(config)#int g0/0

R1(config-if)#no sh