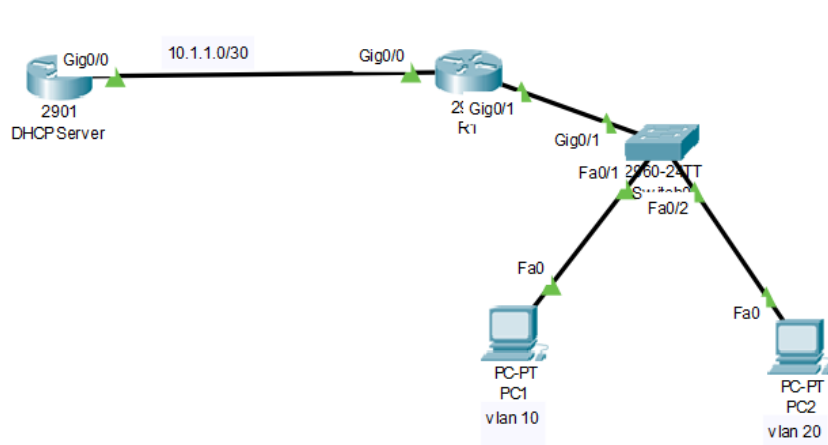# DHCP Configuration

1) Exclude first 10 IP addresses in each subnet from pool
Pool names =vlan10 and vlan20
2) Networks = 10.1.10.0/24 (VLAN 10) and 10.1.20.0/24 (VLAN 20)
3)default-router 10.1.10.1
10.1.20.1
4)dns: 8.8.8.8

R1	DHCPServer	Switch
Router>en	Router>en	Switch>en
Router#configure terminal	Router#config t	Switch#configure terminal
Router(config)#hostname R1	Router(config)#hostname	Switch(config-if)#exit
R1(config)#interface	DHCP_server	Switch(config)#vlan 10
gigbitethernet 0/0	DHCP_server(config)#int	Switch(config-vlan)#name
R1(config-if)#no shutdown	gig0/0	cse
R1(config-if)#ip address	DHCP_server(config-if)#no	Switch(config-vlan)#vlan 20
10.1.1.1 255.255.255.252	shutdown	Switch(config-vlan)#name
R1(config)#interface	DHCP_server(config-if)#ip	eee
gigabitethernet0/1.10	address 10.1.1.2	Switch(config-vlan)#vlan 30
R1(config-subif)#encapsulation dot1Q 10	255.255.255.252	Switch(config-vlan)#name native
R1(config-subif)#ip address	R1(config-if)#ex	Switch(config-vlan)#int
10.1.10.1 255.255.255.0	DHCP_server(config)#ip	gig0/1
	dhcp excluded-address	Switch(config-if)#switchport
R1(config-subif)#ip helper-address 10.1.1.2	10.1.10.1 10.1.10.10	mode trunk
	DHCP_server(config)#ip	Switch(config-if)#switchport
R1(config-subif)#exit	dhcp excluded-address	trunk native vlan 30
R1(config)#int gig0/1.20	10.1.20.1 10.1.20.10	Switch(config-if)#switchport
R1(config-subif)#encapsulation dot1Q 20	DHCP_server(config)#ip dhcp pool vlan10	trunk allowed vlan 10, 20
	DHCP_server(dhcp-config)#network 10.1.10.0	Switch(config-if)#switchport trunk allowed vlan 10,20
R1(config-subif)#ip address	255.255.255.0	Switch#show interfaces trunk
10.1.20.1 255.255.255.0	DHCP_server(dhcp-config)#default-router	Switch(config)#int fa0/1
R1(config-subif)#ip helper-address 10.1.1.2	10.1.10.1	Switch(config-if)#switchport mode acc
R1(config-subif)#exit	DHCP_server(dhcp-config)#dns-server 8.8.8.8	Switch(config-if)#switchport access vlan10

	DHCP_server(dhcp-config)#exit DHCP_server(config)#ip dhcp pool vlan20 DHCP_server(dhcp-config)#network 10.1.20.0 255.255.255.0 DHCP_server(dhcp-config)#dns-server 8.8.8.8 DHCP_server(dhcp-config)#default-router 10.1.20.1 DHCP_server(dhcp-config)#exit DHCP_server(config)#ip route 10.1.10.0 255.255.255.0 10.1.1.1 DHCP_server(config)#ip route 10.1.20.0 255.255.255.0 10.1.1.1 DHCP_server#show ip dhcp binding	Switch(config-if)#switchport access vlan 10 Switch(config-if)#int fa0/2 Switch(config-if)#switchport mode acc Switch(config-if)#switchport access vlan 20

#show ip dhcp binding

#show ip dhcp pool [pool name]

#show ip dhcp server statistics

#show ip dhcp conflict