//R2 commands

R2>enable

R2#configure terminal

R2(config)#ip dhcp excluded-address 192.168.10.1 192.168.10.10

R2(config)#ip dhcp excluded-address 192.168.30.1 192.168.30.10

R2(config)#ip dhcp pool R1-LAN

R2(dhcp-config)#network 192.168.10.0 255.255.255.0

R2(dhcp-config)#default-router 192.168.10.1

R2(dhcp-config)#dns-server 192.168.20.254

R2(dhcp-config)#exit

R2(config)#ip dhcp pool R3-LAN

R2(dhcp-config)#network 192.168.30.0 255.255.255.0

R2(dhcp-config)#default-router 192.168.30.1

R2(dhcp-config)#dns-server 192.168.20.254

R2(dhcp-config)#exit

R2(config)#interface g0/1

R2(config-if)#ip address dhcp

R2(config-if)#no shutdown

R2(config-if)#exit

R2(config)#exit

R2#show ip interface brief

//R1 commands

R1>enable

R1#configure terminal

R1(config)#interface g0/0

R1(config-if)#ip helper-address 10.1.1.2

//R3 commands

R3>enable

R3#configure terminal

R3(config)#interface g0/0

R3(config-if)#ip helper-address 10.2.2.2

//PC1 commands for checking connection

C:\>ping 192.168.30.0

C:\>ping 209.165.202.158

C:\>ping 209.165.202.157

C:\>ping 192.168.20.254

//PC2 commands for checking connection

C:\>ping 192.168.10.0

C:\>ping 209.165.202.158

C:\>ping 209.165.202.157

C:\>ping 192.168.20.254