R2>en

R2#config t

Enter configuration commands, one per line. End with CNTL/Z.

R2(config)#ip dhcp ex

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)#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)#

R1>en

R1#config t

Enter configuration commands, one per line. End with CNTL/Z.

R1(config)#int g0/0

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

R1(config-if)#

R3>en

R3#config t

Enter configuration commands, one per line. End with CNTL/Z.

R3(config)#int g0/0

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

R3(config-if)#

R2>en

R2#config t

Enter configuration commands, one per line. End with CNTL/Z.

R2(config)#exit

R2#

%SYS-5-CONFIG\_I: Configured from console by console

R2#show ip interface brief

Interface IP-Address OK? Method Status Protocol

GigabitEthernet0/0 192.168.20.1 YES manual up up

GigabitEthernet0/1 unassigned YES unset administratively down down

Serial0/0/0 10.1.1.2 YES manual up up

Serial0/0/1 10.2.2.2 YES manual up up

Serial0/1/0 unassigned YES unset down down

Serial0/1/1 unassigned YES unset down down

Vlan1 unassigned YES unset administratively down down

R2#config t

Enter configuration commands, one per line. End with CNTL/Z.

R2(config)#int g0/1

R2(config-if)#ip address dhcp

R2(config-if)#no shut

R2(config-if)#

%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to up

R2(config-if)#

%DHCP-6-ADDRESS\_ASSIGN: Interface GigabitEthernet0/1 assigned DHCP address 209.165.200.231, mask 255.255.255.224, hostname R2

%DUAL-5-NBRCHANGE: IP-EIGRP 1: Neighbor 209.165.200.225 (GigabitEthernet0/1) is up: new adjacency

R2(config-if)#exit

R2(config)#exit

R2#

%SYS-5-CONFIG\_I: Configured from console by console

R2#show ip interface brief

Interface IP-Address OK? Method Status Protocol

GigabitEthernet0/0 192.168.20.1 YES manual up up

GigabitEthernet0/1 209.165.200.231 YES DHCP up up

Serial0/0/0 10.1.1.2 YES manual up up

Serial0/0/1 10.2.2.2 YES manual up up

Serial0/1/0 unassigned YES unset down down

Serial0/1/1 unassigned YES unset down down

Vlan1 unassigned YES unset administratively down down

R2#