HUB-SPOKE R1 R2 R3 frame
R1 hub 2 3 spoke R2 R1
,R3 R1 R2-----R1------R3 R1
R1#conf t R1(config) #int lo 0 R1(config-if) #ip add 1.1.1.1
255.255.255.0 R1(config-if) #no sh R1(config-if) #int s0/0
R1(config-if) #ip add 11.1.1.1 255.255.255.0
R1(config-if) #encapsulation frame-relay R1(config-if) #no arp
frame-relay R1(config-if) #no frame inverse-arp R1(config-if) #frame
map ip 11.1.1.2 102 broadcast R1(config-if) #frame map ip 11.1.1.3
103 broadcast R1(config-if) #no sh R2
R2(config-if) #int s0/0 R2(config-if) #ip add 11.1.1.2
255.255.255.0 R2(config-if) #no sh R2(config-if) #encapsulation
frame-relay R2(config-if) #no arp frame-relay R2(config-if) #no
frame inverse-arp R2(config-if) #frame map ip 11.1.1.1 201 broadcast
R2(config-if) #no sh R3 R3(config-if) #int s0/0
R3(config-if) #ip add 11.1.1.3 255.255.255.0
R3(config-if) #encapsulation frame-relay R3(config-if) #no arp
frame-relay R3(config-if) #no frame inverse-arp R3(config-if) #frame
map ip 11.1.1.1 301 broadcast R3(config-if) #no sh
R1#sh frame map Serial0/0 (up): ip 11.1.1.2 dlci
102(0x66,0x1860), static, broadcast, CISCO, status defined, active
Serial0/0 (up): ip 11.1.1.3 dlci 103(0x67,0x1870), static, broadcast,

CISCO, status defined, active R2#sh frame map Serial0/0 (up): ip 11.1.1.1 dlci 201(0xC9,0x3090), static, broadcast, CISCO, status defined, active R3#sh frame map Serial0/0 (up): ip 11.1.1.1 dlci 301(0x12D,0x48D0), static, broadcast, CISCO, status defined, active R3#ping 11.1.1.1 Type escape sequence to abort. Sending 5, 100-byte ICMP Echos to 11.1.1.1, timeout is 2 seconds: !!!!! Success rate is 100 percent (5/5), round-trip min/avg/max = 48/77/96 ms

rip   eigrp

R1   S0/0

R1#sh ip int s0/0 Serial0/0 is up, line protocol is up Internet address is 11.1.1.1/24 Broadcast address is 255.255.255.255 Address determined by setup command MTU is 1500 bytes Helper address is not set Directed broadcast forwarding is disabled Multicast reserved groups joined: 224.0.0.9 Outgoing access list is not set Inbound access list is not set Proxy ARP is enabled Local Proxy ARP is disabled Security level is default Split horizon is disabled ICMP redirects are always sent ICMP unreachables are always sent ICMP mask replies are never sent IP fast switching is enabled IP fast switching on the same interface is enabled IP Flow switching is disabled   rip   eigrp

RIP   R2R3

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