RouterA#sh ru
Building configuration...

Current configuration:
!
version 12.0
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
!
hostname RouterA
!
enable secret 5 $1$BuMZ$w1JPLt9wq80QBWYa193VX.
enable password Sp0teds
!
ip subnet-zero
!
!
interface Ethernet0
  ip address 10.2.0.249 255.255.0.0
  no ip directed-broadcast
!
interface Serial0
  ip address 192.168.15.253 255.255.255.252
  no ip directed-broadcast
!
router rip
  network 10.0.0.0
  network 192.168.15.0
!
ip classless
ip route 10.3.0.0 255.255.0.0 192.168.15.254
!
!
line con 0
  transport input none
line vty 0 4
  password Spoted5
  login
!
end
RouterA#sh ip ro
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
    D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
    N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
    E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
    i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, * - candidate default
    U - per-user static route, o - ODR

Gateway of last resort is not set

    192.168.15.0/30 is subnetted, 1 subnets
C   192.168.15.252 is directly connected, Serial0
    10.0.0.0/16 is subnetted, 2 subnets
C   10.2.0.0 is directly connected, Ethernet0
S   10.3.0.0 [1/0] via 192.168.15.254

RouterA#sh ip prot
Routing Protocol is "rip"
Sending updates every 30 seconds, next due in 10 seconds
Invalid after 180 seconds, hold down 180, flushed after 240
Outgoing update filter list for all interfaces is
Incoming update filter list for all interfaces is
Redistributing: rip
Default version control: send version 1, receive any version

<table>
<thead>
<tr>
<th>Interface</th>
<th>Send</th>
<th>Recv</th>
<th>Key-chain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethernet0</td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Serial0</td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
</tbody>
</table>

Routing for Networks:
    10.0.0.0
    192.168.15.0

Routing Information Sources:
    Gateway       Distance  Last Update
    192.168.15.254 120  00:00:02
Distance: (default is 120)
RouterA#sh int
Ethernet0 is up, line protocol is up
   Hardware is QUICC Ethernet, address is 00d0.bae0.4f96 (bia 00d0.bae0.4f96)
   Internet address is 10.2.0.249/16
   MTU 1500 bytes, BW 10000 Kbit, DLY 1000 usec, rely 255/255, load 1/255
   Encapsulation ARPA, loopback not set, keepalive set (10 sec)
   ARP type: ARPA, ARP Timeout 04:00:00
   Last input 00:00:00, output 00:00:00, output hang never
   Last clearing of "show interface" counters never
   Queueing strategy: fifo
   Output queue 0/40, 0 drops; input queue 1/75, 0 drops
   5 minute input rate 10000 bits/sec, 18 packets/sec
   5 minute output rate 1000 bits/sec, 1 packets/sec
      3213901 packets input, 240465402 bytes, 0 no buffer
      Received 3211769 broadcasts, 0 runts, 0 giants, 0 throttles
      0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort
      0 input packets with dribble condition detected
      80640 packets output, 7063837 bytes, 0 underruns
      0 output errors, 8 collisions, 2 interface resets
      0 babbles, 0 late collision, 31 deferred
      0 lost carrier, 0 no carrier
      0 output buffer failures, 0 output buffers swapped out
Serial0 is up, line protocol is up
   Hardware is QUICC Serial
   Internet address is 192.168.15.253/30
   MTU 1500 bytes, BW 1544 Kbit, DLY 20000 usec, rely 255/255, load 1/255
   Encapsulation HDLC, loopback not set, keepalive set (10 sec)
   Last input 00:00:05, output 00:00:04, output hang never
   Last clearing of "show interface" counters never
   Input queue: 0/75/0 (size/max/drops); Total output drops: 0
   Queueing strategy: weighted fair
   Output queue: 0/1000/64/0 (size/max total/threshold/drops)
      Conversations 0/1/256 (active/max active/max total)
      Reserved Conversations 0/0 (allocated/max allocated)
   5 minute input rate 0 bits/sec, 0 packets/sec
   5 minute output rate 0 bits/sec, 0 packets/sec
      79706 packets input, 4659421 bytes, 0 no buffer
      Received 79201 broadcasts, 0 runts, 0 giants, 0 throttles
      0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort
      79953 packets output, 4652995 bytes, 0 underruns
      0 output errors, 0 collisions, 1 interface resets
      0 output buffer failures, 0 output buffers swapped out
      0 carrier transitions
   DCD=up DSR=up DTR=up RTS=up CTS=up