

```
RouterA#sh ru
Building configuration...
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Current configuration:
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```
!
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

Interface	Send	Recv	Key-chain
Ethernet0	1	1	2
Serial0	1	1	2

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
```