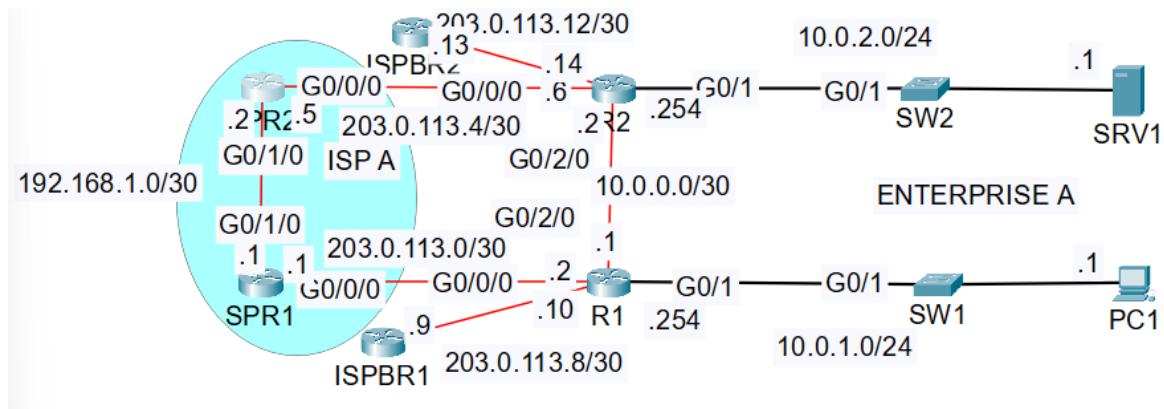


Network Topology:



R1 CLI:

R1

Physical | Config | **CLI** | Attributes |

IOS Command Line Interface

```
Gateway of last resort is 203.0.113.9 to network 0.0.0.0

 10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C     10.0.1.0/24 is directly connected, GigabitEthernet0/1
L     10.0.1.254/32 is directly connected, GigabitEthernet0/1
 203.0.113.0/24 is variably subnetted, 4 subnets, 2 masks
C     203.0.113.0/30 is directly connected, GigabitEthernet0/0/0
L     203.0.113.2/32 is directly connected, GigabitEthernet0/0/0
C     203.0.113.8/30 is directly connected, GigabitEthernet0/1/0
L     203.0.113.10/32 is directly connected, GigabitEthernet0/1/0
S*    0.0.0.0/0 [1/0] via 203.0.113.9

R1(config)#ip route 10.0.2.0 255.255.255.0 203.0.113.1 100
R1(config)#do sh ip route
Codes: L - local, C - connected, S - static, 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, ia - IS-IS inter area
      * - candidate default, U - per-user static route, o - ODR
      P - periodic downloaded static route

Gateway of last resort is 203.0.113.9 to network 0.0.0.0

 10.0.0.0/8 is variably subnetted, 3 subnets, 2 masks
C     10.0.1.0/24 is directly connected, GigabitEthernet0/1
L     10.0.1.254/32 is directly connected, GigabitEthernet0/1
S     10.0.2.0/24 [100/0] via 203.0.113.1
 203.0.113.0/24 is variably subnetted, 4 subnets, 2 masks
C     203.0.113.0/30 is directly connected, GigabitEthernet0/0/0
L     203.0.113.2/32 is directly connected, GigabitEthernet0/0/0
C     203.0.113.8/30 is directly connected, GigabitEthernet0/1/0
L     203.0.113.10/32 is directly connected, GigabitEthernet0/1/0
S*    0.0.0.0/0 [1/0] via 203.0.113.9

R1(config)#int g0/2/0
R1(config)#

```

R1

Physical | Config | CLI | Attributes |

IOS Command Line Interface

```

Gateway of last resort is 203.0.113.9 to network 0.0.0.0

      10.0.0.0/8 is variably subnetted, 3 subnets, 2 masks
C        10.0.1.0/24 is directly connected, GigabitEthernet0/1
L        10.0.1.254/32 is directly connected, GigabitEthernet0/1
S        10.0.2.0/24 [100/0] via 203.0.113.1
      203.0.113.0/24 is variably subnetted, 4 subnets, 2 masks
C        203.0.113.0/30 is directly connected, GigabitEthernet0/0/0
L        203.0.113.2/32 is directly connected, GigabitEthernet0/0/0
C        203.0.113.8/30 is directly connected, GigabitEthernet0/1/0
L        203.0.113.10/32 is directly connected, GigabitEthernet0/1/0
S*       0.0.0.0/0 [1/0] via 203.0.113.9

R1(config)#int g0/2/0
R1(config-if)#no shutdown

R1(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/2/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/2/0, changed
state to up

R1(config-if)#do sh ip int br
Interface          IP-Address      OK? Method Status           Protocol
GigabitEthernet0/0  unassigned     YES manual down          down
GigabitEthernet0/1  10.0.1.254    YES NVRAM up           up
GigabitEthernet0/2  unassigned     YES NVRAM administratively down down
GigabitEthernet0/0/0 203.0.113.2  YES NVRAM up           up
GigabitEthernet0/1/0 203.0.113.10 YES NVRAM up           up
GigabitEthernet0/2/0 10.0.0.1     YES manual up          up
Vlan1              unassigned     YES unset administratively down down
R1(config-if)#
22:25:21: %OSPF-5-ADJCHG: Process 1, Nbr 203.0.113.14 on GigabitEthernet0/2/0
from LOADING to FULL, Loading Done

```

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R2 CLI:

R2

Physical | Config | CLI | Attributes |

IOS Command Line Interface

```

R2>en
R2#conf t
Enter configuration commands, one per line. End with CNTL/Z.
R2(config)#ip route 10.0.1.0 255.255.255.0 203.0.113.5 100
R2(config)#do sh ip route
Codes: L - local, C - connected, S - static, 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, ia - IS-IS inter area
      * - candidate default, U - per-user static route, o - ODR
      P - periodic downloaded static route

Gateway of last resort is 203.0.113.13 to network 0.0.0.0

      10.0.0.0/8 is variably subnetted, 3 subnets, 2 masks
S        10.0.1.0/24 [100/0] via 203.0.113.5
C        10.0.2.0/24 is directly connected, GigabitEthernet0/1
L        10.0.2.254/32 is directly connected, GigabitEthernet0/1
      203.0.113.0/24 is variably subnetted, 4 subnets, 2 masks
C        203.0.113.4/30 is directly connected, GigabitEthernet0/0/0
L        203.0.113.6/32 is directly connected, GigabitEthernet0/0/0
C        203.0.113.12/30 is directly connected, GigabitEthernet0/1/0
L        203.0.113.14/32 is directly connected, GigabitEthernet0/1/0
S*       0.0.0.0/0 [1/0] via 203.0.113.13

R2(config)#int g0/2/0
R2(config-if)#no shutdown

%LINK-5-CHANGED: Interface GigabitEthernet0/2/0, changed state to down

```

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R2

Physical | Config | CLI | Attributes

IOS Command Line Interface

```

C      203.0.113.12/30 is directly connected, GigabitEthernet0/1/0
L      203.0.113.14/32 is directly connected, GigabitEthernet0/1/0
S*    0.0.0.0/0 [1/0] via 203.0.113.13

R2(config)#int g0/2/0
R2(config-if)#no shutdown

%LINK-5-CHANGED: Interface GigabitEthernet0/2/0, changed state to down
R2(config-if)#do sh ip int br
Interface          IP-Address      OK? Method Status      Protocol
GigabitEthernet0/0  unassigned      YES manual down      down
GigabitEthernet0/1  10.0.2.254     YES NVRAM up       up
GigabitEthernet0/2  unassigned      YES NVRAM administratively down down
GigabitEthernet0/0/0 203.0.113.6   YES NVRAM up       up
GigabitEthernet0/1/0 203.0.113.14  YES NVRAM up       up
GigabitEthernet0/2/0 10.0.0.2      YES manual down      down
Vlan1              unassigned      YES unset administratively down down
R2(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/2/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/2/0, changed
state to up

R2(config-if)#do sh ip int br
Interface          IP-Address      OK? Method Status      Protocol
GigabitEthernet0/0  unassigned      YES manual down      down
GigabitEthernet0/1  10.0.2.254     YES NVRAM up       up
GigabitEthernet0/2  unassigned      YES NVRAM administratively down down
GigabitEthernet0/0/0 203.0.113.6   YES NVRAM up       up
GigabitEthernet0/1/0 203.0.113.14  YES NVRAM up       up
GigabitEthernet0/2/0 10.0.0.2      YES manual up       up
Vlan1              unassigned      YES unset administratively down down
R2(config-if)#
22:25:21: %OSPF-5-ADJCHG: Process 1, Nbr 203.0.113.10 on GigabitEthernet0/2/0
from LOADING to FULL, Loading Done

```

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SPR1 CLI:

SPR1

Physical | Config | CLI | Attributes

IOS Command Line Interface

```

192.168.1.0/24 is variably subnetted, 2 subnets, 2 masks
C   192.168.1.0/30 is directly connected, GigabitEthernet0/1/0
L   192.168.1.1/32 is directly connected, GigabitEthernet0/1/0
C   203.0.113.0/24 is variably subnetted, 2 subnets, 2 masks
C   203.0.113.0/30 is directly connected, GigabitEthernet0/0/0
L   203.0.113.1/32 is directly connected, GigabitEthernet0/0/0
S*  0.0.0.0/0 [1/0] via 192.168.1.2

SPR1(config)#ip route 10.0.2.0 255.255.255.0 192.168.1.2 100
SPR1(config)#do sh ip route
Codes: L - local, C - connected, S - static, 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, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is 192.168.1.2 to network 0.0.0.0

      10.0.0.0/24 is subnetted, 2 subnets
S   10.0.1.0/24 [1/0] via 203.0.113.2
S   10.0.2.0/24 [100/0] via 192.168.1.2
      192.168.1.0/24 is variably subnetted, 2 subnets, 2 masks
C   192.168.1.0/30 is directly connected, GigabitEthernet0/1/0
L   192.168.1.1/32 is directly connected, GigabitEthernet0/1/0
      203.0.113.0/24 is variably subnetted, 2 subnets, 2 masks
C   203.0.113.0/30 is directly connected, GigabitEthernet0/0/0
L   203.0.113.1/32 is directly connected, GigabitEthernet0/0/0
S*  0.0.0.0/0 [1/0] via 192.168.1.2

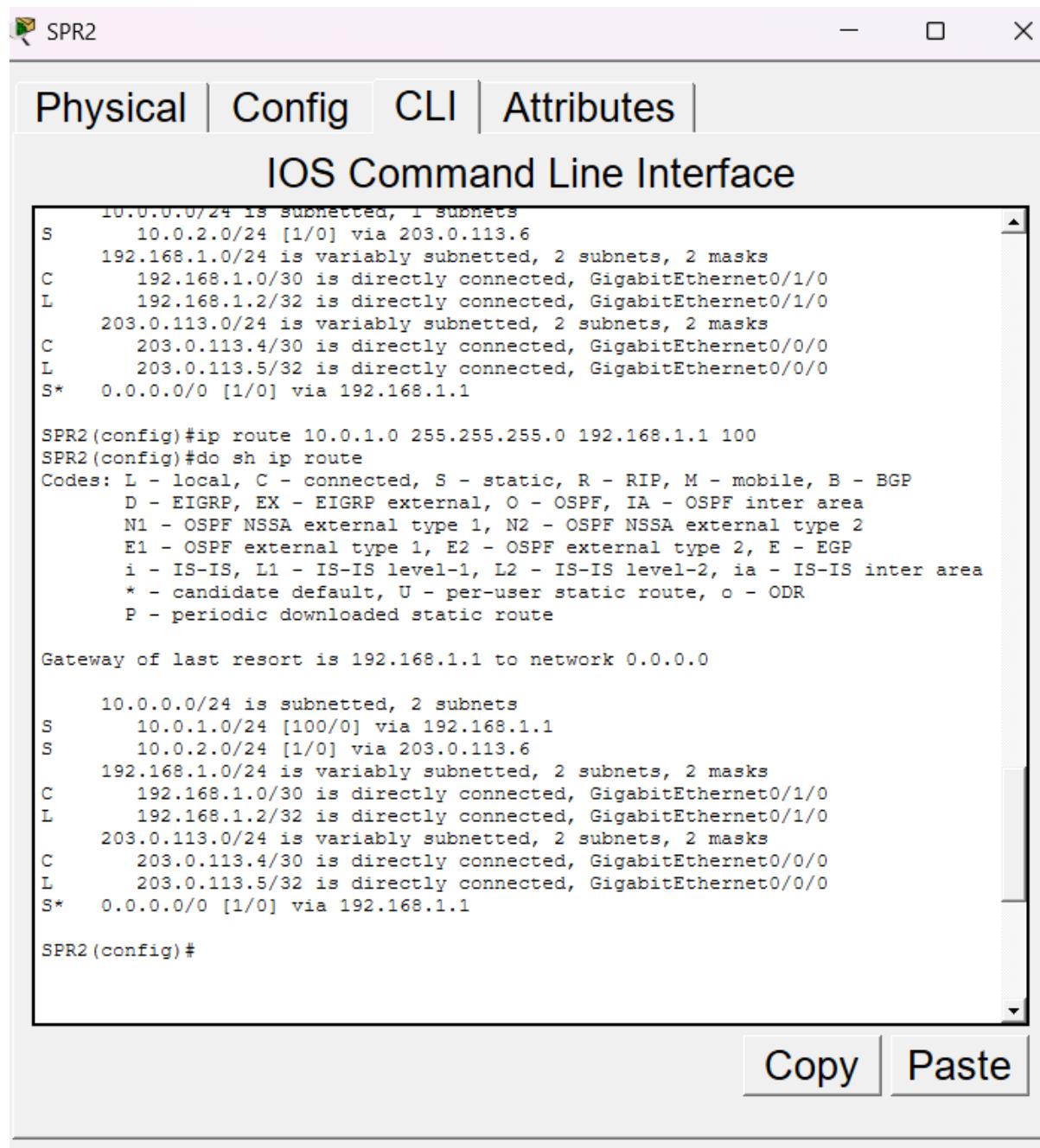
SPR1(config)#

```

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Top

SPR2 CLI:



The screenshot shows a Windows application window titled "SPR2". The title bar has icons for minimize, maximize, and close. Below the title bar is a menu bar with tabs: "Physical", "Config", "CLI", and "Attributes". The "CLI" tab is selected, and the window title "IOS Command Line Interface" is displayed above the text area. The main text area contains the output of an IOS command-line interface. It includes a route table dump, a "do sh ip route" command, and a detailed legend of route codes. It also shows the gateway of last resort and another route table dump. At the bottom right of the text area are "Copy" and "Paste" buttons.

```
10.0.0.0/24 is subnetted, 1 subnets
S      10.0.2.0/24 [1/0] via 203.0.113.6
192.168.1.0/24 is variably subnetted, 2 subnets, 2 masks
C      192.168.1.0/30 is directly connected, GigabitEthernet0/1/0
L      192.168.1.2/32 is directly connected, GigabitEthernet0/1/0
203.0.113.0/24 is variably subnetted, 2 subnets, 2 masks
C      203.0.113.4/30 is directly connected, GigabitEthernet0/0/0
L      203.0.113.5/32 is directly connected, GigabitEthernet0/0/0
S*    0.0.0.0/0 [1/0] via 192.168.1.1

SPR2(config)#ip route 10.0.1.0 255.255.255.0 192.168.1.1 100
SPR2(config)#do sh ip route
Codes: L - local, C - connected, S - static, 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, ia - IS-IS inter area
        * - candidate default, U - per-user static route, o - ODR
        P - periodic downloaded static route

Gateway of last resort is 192.168.1.1 to network 0.0.0.0

10.0.0.0/24 is subnetted, 2 subnets
S      10.0.1.0/24 [100/0] via 192.168.1.1
S      10.0.2.0/24 [1/0] via 203.0.113.6
192.168.1.0/24 is variably subnetted, 2 subnets, 2 masks
C      192.168.1.0/30 is directly connected, GigabitEthernet0/1/0
L      192.168.1.2/32 is directly connected, GigabitEthernet0/1/0
203.0.113.0/24 is variably subnetted, 2 subnets, 2 masks
C      203.0.113.4/30 is directly connected, GigabitEthernet0/0/0
L      203.0.113.5/32 is directly connected, GigabitEthernet0/0/0
S*    0.0.0.0/0 [1/0] via 192.168.1.1

SPR2(config)#

```