

## عنوان آزمایش : پیادهسازی مسیریابی بین روترا با استفاده از (BGP) و پیکربندی Community (no-export)

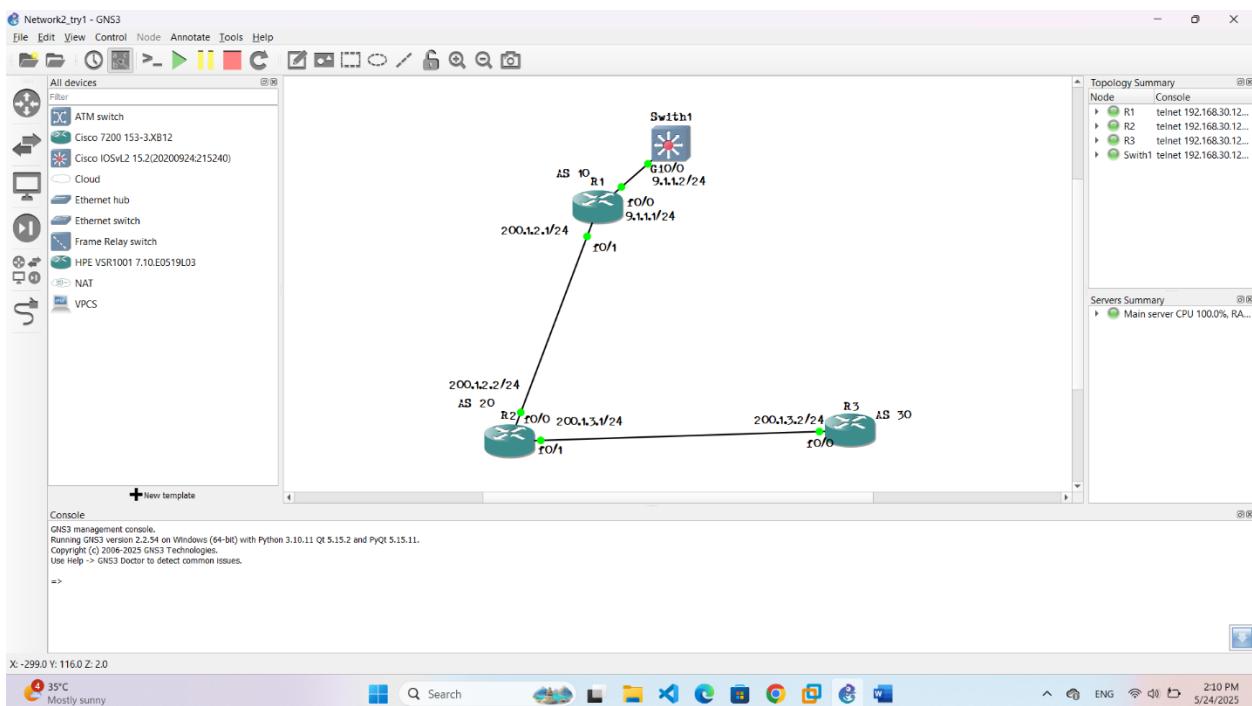
**هدف:**

- برقراری ارتباط بین سه روتر از طریق BGP
- پیکربندی آدرس های IP روی اینترفیس ها
- اضافه کردن شبکه ها به جدول BGP
- بررسی مسیر ها و تست اتصال (Ping)
- اعمال Redistribute در صورت نیاز برای تبادل مسیر ها
- بخش بعدی:

- روتر R1 در AS 10 مسیر 24.9.1.0 را advertise می کند.
- روتر R2 در AS 20 ، AS 30 eBGP به A و C دارد.
- می خواهیم روتر R2 این مسیر را به R3 در AS 30 advertise کنیم از community no-export.
- 

**تجهیزات مورد نیاز:**

- سه روتر ، R1 ، R2 ، R3
- لینک های FastEthernet بین روترا
- نرم افزار شبیه ساز (GNS3)
- 



**مرحله 1: پیکربندی روتر R1****1. تنظیم آدرس های IP:****R1#config te**

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

R1(config)#interface loopback 0

R1(config-if)#

*\*May 24 09:51:25.639: %LINEPROTO-5-UPDOWN: Line protocol on Interface Loopback0, changed state to up*

R1(config-if)#ip address 1.1.1.1 255.255.255.255

R1(config-if)#no shutdown

R1(config-if)#exit

R1(config)#interface fastEthernet0/0

R1(config-if)#ip address 9.1.1.1 255.255.255.0

R1(config-if)#no shutdown

R1(config-if)#exit

*\*May 24 09:49:15.863: %LINK-3-UPDOWN: Interface FastEthernet0/0, changed state to up**\*May 24 09:49:16.863: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up*

R1(config)#interface fastEthernet0/1

R1(config-if)#ip address 200.1.2.1 255.255.255.0

R1(config-if)#no shutdown

R1(config-if)#exit

R1(config)#+

*\*May 24 09:50:03.935: %LINK-3-UPDOWN: Interface FastEthernet0/1, changed state to up**\*May 24 09:50:04.935: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up*

**2. پیکربندی در AS 10 BGP****R1(config)#router bgp 10**

R1(config-router)#nei 200.1.2.2 remote-as 20

R1(config-router)#net 1.1.1.1 mask 255.255.255.255

R1(config-router)#net 9.1.1.0 mask 255.255.255.0

R1(config-router)#exit

R1(config)#

\*May 24 10:01:37.475: %BGP-5-ADJCHANGE: neighbor 200.1.2.2 Up

R1(config)#exit

R1#

\*May 24 10:10:29.791: %SYS-5-CONFIG\_I: Configured from console by console

**R1#ping 3.3.3.3**

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 3.3.3.3, timeout is 2 seconds:

....

Success rate is 0 percent(5/0)

**R1#ping 2.2.2.2**

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 2.2.2.2, timeout is 2 seconds:

....

Success rate is 0 percent(5/0)

R1#conf t

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

\*May 24 10:12:49.911: %SYS-5-CONFIG\_I: Configured from console by console

**R1#ping 2.2.2.2**

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 2.2.2.2, timeout is 2 seconds:

!!!!!

Success rate is 100 percent (5/5), round-trip min/avg/max = 8/24/40 ms

R1#ping 3.3.3.3

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 3.3.3.3, timeout is 2 seconds:

!!!!!

Success rate is 100 percent (5/5), round-trip min/avg/max = 32/44/64 ms

R1#show 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

i - IS-IS, su - IS-IS summary, 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, H - NHRP, I - LISP

- + replicated route, % - next hop override

Gateway of last resort is not set

32/1.0.0.0 is subnetted, 1 subnets

C 1.1.1.1 is directly connected, Loopback0

32/2.0.0.0 is subnetted, 1 subnets

B 2.2.2.2 [20/0] via 200.1.2.2, 00:16:17

```

32/3.0.0.0      is subnetted, 1 subnets

B    3.3.3.3 [20/0] via 200.1.2.2, 00:15:39

8/9.0.0.0      is variably subnetted, 2 subnets, 2 masks

C    9.1.1.0/24 is directly connected, FastEthernet0/0

L    9.1.1.1/32 is directly connected, FastEthernet0/0

24/200.1.2.0    is variably subnetted, 2 subnets, 2 masks

C    200.1.2.0/24 is directly connected, FastEthernet0/1

L    200.1.2.1/32 is directly connected, FastEthernet0/1

B    200.1.3.0/24 [20/0] via 200.1.2.2, 00:22:49

```

**R1#**

مرحله 2: پیکربندی روتر R2

**1. تنظیم آدرس ها:****R2#confi t**

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

R2(config)#interface loopback 0

R2(config-if)#

\*May 24 09:59:07.115: %LINEPROTO-5-UPDOWN: Line protocol on Interface Loopback0, changed state to up

R2(config-if)#ip address 2.2.2.2 255.255.255.255

R2(config-if)#no shutdown

R2(config-if)#exit

R2(config)#interface fa0/0

R2(config-if)#ip address 200.1.2.2 255.255.255.0

R2(config-if)#no shutdown

R2(config-if)#exit

```
R2(config)#
```

```
*May 24 10:00:18.875: %LINK-3-UPDOWN: Interface FastEthernet0/0, changed state to up
```

```
*May 24 10:00:19.875: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
```

```
R2(config)#interface fa0/1
```

```
R2(config-if)#ip address 200.1.3.1 255.255.255.0
```

```
R2(config-if)#no shutdown
```

```
R2(config-if)#
```

```
*May 24 10:00:54.851: %LINK-3-UPDOWN: Interface FastEthernet0/1, changed state to up
```

```
*May 24 10:00:55.855: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
```

```
R2(config-if)#exit
```

: AS 20 پیکربندی BGP در 2.

```
R2(config)#router bgp 20
```

```
R2(config-router)#neighbor 200.1.2.1 remote-as 10
```

```
*May 24 10:01:37.451: %BGP-5-ADJCHANGE: neighbor 200.1.2.1 Up
```

```
R2(config-router)#neighbor 200.1.3.2 remote-as 30
```

```
R2(config-router)#net 200.1.2.0 mask 255.255.255.0
```

```
R2(config-router)#net 200.1.3.0 mask 255.255.255.0
```

```
R2(config-router)#net 2.2.2.2 mask 255.255.255.255
```

```
R2(config-router)#exit
```

```
R2(config)#
```

```
*May 24 10:08:25.303: %BGP-5-ADJCHANGE: neighbor 200.1.3.2 Up
```

: R3 به R1 (AS 10) از (AS 30) باز توزیع مسیرهای BGP

#تبادل مسیرهای 10 AS به 30

```
R2(config)#exit
```

R2#

\*May 24 10:13:35.799: %SYS-5-CONFIG\_I: Configured from console by console

R2#ping 3.3.3.3

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 3.3.3.3, timeout is 2 seconds:

!!!!

Success rate is 100 percent (5/5), round-trip min/avg/max = 4/22/64 ms

R2#ping 1.1.1.1

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 1.1.1.1, timeout is 2 seconds:

!!!!

Success rate is 100 percent (5/5), round-trip min/avg/max = 12/32/68 ms

R2#show 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

i - IS-IS, su - IS-IS summary, 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, H - NHRP, I - LISP

+ - replicated route, % - next hop override

Gateway of last resort is not set

1.0.0.0/32 is subnetted, 1 subnets

B 1.1.1.1 [20/0] via 200.1.2.1, 00:15:54

2.0.0.0/32 is subnetted, 1 subnets

C 2.2.2.2 is directly connected, Loopback0

3.0.0.0/32 is subnetted, 1 subnets

B 3.3.3.3 [20/0] via 200.1.3.2, 00:04:11

200.1.2.0/24 is variably subnetted, 2 subnets, 2 masks

C 200.1.2.0/24 is directly connected, FastEthernet0/0

L 200.1.2.2/32 is directly connected, FastEthernet0/0

200.1.3.0/24 is variably subnetted, 2 subnets, 2 masks

C 200.1.3.0/24 is directly connected, FastEthernet0/1

R2(config-router)#exit

R2(config)#exit

R2#

\*May 24 10:29:24.143: %SYS-5-CONFIG\_I: Configured from console by console

**R2#show 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

i - IS-IS, su - IS-IS summary, 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, H - NHRP, I - LISP

+ - replicated route, % - next hop override

Gateway of last resort is not set

1.0.0.0/32 is subnetted, 1 subnets

B 1.1.1.1 [20/0] via 200.1.2.1, 00:27:50

2.0.0.0/32 is subnetted, 1 subnets

C 2.2.2.2 is directly connected, Loopback0

3.0.0.0/32 is subnetted, 1 subnets

B 3.3.3.3 [20/0] via 200.1.3.2, 00:16:07

9.0.0.0/24 is subnetted, 1 subnets

B 9.1.1.0 [20/0] via 200.1.2.1, 00:00:43

200.1.2.0/24 is variably subnetted, 2 subnets, 2 masks

C 200.1.2.0/24 is directly connected, FastEthernet0/0

L 200.1.2.2/32 is directly connected, FastEthernet0/0

200.1.3.0/24 is variably subnetted, 2 subnets, 2 masks

C 200.1.3.0/24 is directly connected, FastEthernet0/1

L 200.1.3.1/32 is directly connected, FastEthernet0/1

R2#

R2#show ip bgp 9.1.1.0

BGP routing table entry for 9.1.1.0/24, version 7

Paths: (1 available, best #1, table default)

Advertised to update-groups:

1

Refresh Epoch 1

10

200.1.2.1 from 200.1.2.1 (1.1.1.1)

Origin IGP, metric 0, localpref 100, valid, external, best

rx pathid: 0, tx pathid: 0x0

R2#show ip bgp 9.1.1.0/24

BGP routing table entry for 9.1.1.0/24, version 7

Paths: (1 available, best #1, table default)

Advertised to update-groups:

1

Refresh Epoch 1

10

200.1.2.1 from 200.1.2.1 (1.1.1.1)

Origin IGP, metric 0, localpref 100, valid, external, best

rx pathid: 0, tx pathid: 0x0

R2#

مرحله 3: پیکربندی روتر R3

1. تنظیم آدرس ها:

R3#conf t

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

R3(config)#interface loopback 0

R3(config-if)#

\*May 24 10:06:49.287: %LINEPROTO-5-UPDOWN: Line protocol on Interface Loopback0, changed state to up

R3(config-if)#ip address 3.3.3.3 255.255.255.255

R3(config-if)#no shutdown

R3(config-if)#exit

```
R3(config)#interface fa0/0  
R3(config-if)#ip address 200.1.3.2 255.255.255.0  
R3(config-if)#no shutdown  
R3(config-if)#exit  
R3(config)#{}
```

\*May 24 10:07:37.191: %LINK-3-UPDOWN: Interface FastEthernet0/0, changed state to up  
\*May 24 10:07:38.191: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

: AS 30 در BGP پیکربندی .2

```
R3(config)#router bgp 30
```

```
R3(config-router)#nei 200.1.3.1 remote-as 20  
R3(config-router)#{}
```

\*May 24 10:08:25.507: %BGP-5-ADJCHANGE: neighbor 200.1.3.1 Up

```
R3(config-router)#net 200.1.3.0 mask 255.255.255.0
```

```
R3(config-router)#net 3.3.3.3 mask 255.255.255.255
```

```
R3(config-router)#exit
```

```
R3(config)#exit
```

```
R3#
```

\*May 24 10:30:27.411: %SYS-5-CONFIG\_I: Configured from console by console

```
R3#show ip bgp
```

BGP table version is 8, local router ID is 3.3.3.3

Status codes: s suppressed, d damped, h history, \* valid, > best, i - internal,  
r RIB-failure, S Stale, m multipath, b backup-path, f RT-Filter,  
x best-external, a additional-path, c RIB-compressed,

Origin codes: i - IGP, e - EGP, ? - incomplete

RPKI validation codes: V valid, I invalid, N Not found

Network	Next Hop	Metric	LocPrf	Weight	Path
*> 1.1.1.1/32	200.1.3.1		0	20	10 i
*> 2.2.2.2/32	200.1.3.1	0	0	20	i
*> 3.3.3.3/32	0.0.0.0	0	32768		i
*> 9.1.1.0/24	200.1.3.1		0	20	10 i
*> 200.1.2.0	200.1.3.1	0	0	20	i
*> 200.1.3.0	0.0.0.0	0	32768		i
*	200.1.3.1	0	0	20	i

R3#

مرحله 4: تست ارتباط (Ping)

تست موفقیت‌آمیز ارتباط بین روتراها:

R1#

ping 2.2.2.2 ✓

ping 3.3.3.3 ✓

R2#

ping 1.1.1.1 ✓

ping 3.3.3.3 ✓

R3#

ping 1.1.1.1 ✓

ping 2.2.2.2 ✓

نمایش جدول مسیریابی در R1 (show ip route):

```

R1(config)#exit
R1(config)#
May 26 17:27:20 2007: %LINK-3-UPDOWN: Interface FastEthernet0/1, changed state to up
May 26 17:27:21 2007: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
R1(config)#router bgp 10
R1(config-router)#nei 200.1.2.2 remote-as 20
R1(config-router)#net 1.1.1.1 mask 255.255.255.255
R1(config-router)#net 9.1.1.0 mask 255.255.255.0
R1(config-router)#exit
R1(config)#exit
May 26 17:34:31.499: %SYS-5-CONFIG_I: Configured from console by console
R1#wr
Warning: Attempting to overwrite an NVRAM configuration previously written
by a different version of the system image.
Overwrite the previous NVRAM configuration? [confirm]
Building configuration...
[OK]
R1#
May 26 17:37:25.375: %BGP-5-ADJCHANGE: neighbor 200.1.2.2 Up
R1#show 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
      i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
      ia - IS-IS inter area, * - candidate default, U - per-user static route
      o - OSPF, P - periodic downloaded static route, H - NHRP, I - LISP
      + - replicated route, % - next hop override

Gateway of last resort is not set

      1.0.0.0/32 is subnetted, 1 subnets
C        1.1.1.1 is directly connected, Loopback0
      2.0.0.0/32 is subnetted, 1 subnets
B          2.2.2.2 [20/0] via 200.1.2.2, 00:12:53
      3.0.0.0/32 is subnetted, 1 subnets
B          3.3.3.3 [20/0] via 200.1.2.2, 00:12:58
      4.0.0.0/32 is variably subnetted, 2 subnets, 2 masks
C          9.1.1.0/24 is directly connected, FastEthernet0/0
L          9.1.1.1/32 is directly connected, FastEthernet0/0
      200.1.2.0/24 is variably subnetted, 2 subnets, 2 masks
C          200.1.2.0/24 is directly connected, FastEthernet0/1
L          200.1.2.1/32 is directly connected, FastEthernet0/1
B          200.1.3.0/24 [20/0] via 200.1.2.2, 00:12:53
R1#

```

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```

R2(config-router)#redistribute bgp 10 sub
R2(config-router)#redistribute bgp 10 sub
R2(config-router)#redistribute bgp 10 sub
% Invalid input detected at '^' marker.

R2(config-router)#exit
R2(config)#
R2#
R2#
May 26 17:43:02.795: %SYS-5-CONFIG_I: Configured from console by console
R2#wr
Warning: Attempting to overwrite an NVRAM configuration previously written
by a different version of the system image.
Overwrite the previous NVRAM configuration? [confirm]
Building configuration...
[OK]
R2#
May 26 17:46:07.691: %BGP-5-ADJCHANGE: neighbor 200.1.3.2 Up
R2#show 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
      i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
      ia - IS-IS inter area, * - candidate default, U - per-user static route
      o - OSPF, P - periodic downloaded static route, H - NHRP, I - LISP
      + - replicated route, % - next hop override

Gateway of last resort is not set

      1.0.0.0/32 is subnetted, 1 subnets
B          1.1.1.1 [20/0] via 200.1.2.2, 00:13:38
      2.0.0.0/32 is subnetted, 1 subnets
C          2.2.2.2 is directly connected, Loopback0
      3.0.0.0/32 is subnetted, 1 subnets
B          3.3.3.3 [20/0] via 200.1.3.2, 00:03:58
      9.0.0.0/24 is subnetted, 1 subnets
B          9.1.1.0 [20/0] via 200.1.2.1, 00:13:38
      200.1.2.0/24 is variably subnetted, 2 subnets, 2 masks
C          200.1.2.0/24 is directly connected, FastEthernet0/0
L          200.1.2.1/32 is directly connected, FastEthernet0/0
      200.1.3.0/24 is variably subnetted, 2 subnets, 2 masks
C          200.1.3.0/24 is directly connected, FastEthernet0/1
L          200.1.3.1/32 is directly connected, FastEthernet0/1
R2#

```

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```

Swith1          R1          R2          R3
R3>(config-router)net 200.1.3.1 remote-as 20
R3>(config-router)*
*May 26 17:46:07.931: %BGP-5-ADJCHANGE: neighbor 200.1.3.1 Up
R3>(config-router)net 200.1.3.0 mask 255.255.255.0
R3>(config-router)net 3.3.3.3 mask 255.255.255.255
R3>(config-router)exit
R3>(config)exit
R3>#w
*May 26 17:46:40.447: %SYS-5-CONFIG_I: Configured from console by console
R3>#w<
^
% Invalid input detected at '^' marker.

R3>#w<
Warning: Attempting to overwrite an NVRAM configuration previously written
by a different version of the system image.
Overwrite the previous NVRAM configuration? [confirm]
Building configuration...
[OK]
R3>show ip bgp
BGP table version is 1, local router ID is 3.3.3.3
Status codes: s suppressed, d damped, h history, * valid, > best, i - internal,
              r RTB-failure, S Stale, m multipath, b backup-path, f RT-Filter,
              x best-external, a additional-path, c RIB-compressed,
Origin codes: i - IGP, e - EGP, ? - incomplete
RPKI validation codes: V valid, I invalid, N Not found

Network      Next Hop            Metric LocPrf Weight Path
+ 1.1.1.1/32    200.1.3.1          0  20 10 i
+ 2.2.2.2/32    200.1.3.1          0  0  i
+ 3.3.3.3/32    0.0.0.0           0  32768 i
+ 9.1.1.0/24     200.1.3.1          0  20 10 i
+ 200.1.2.0     200.1.3.1          0  0 20 i
+ 200.1.3.0     0.0.0.0           0  32768 i
+               200.1.3.1          0  0 20 i
R3>ping 1.1.1.1
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 1.1.1.1, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 40/43/44 ms
R3>ping 2.2.2.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 2.2.2.2, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 8/15/36 ms
R3>

```

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مرحله 4: اکنون باید set community no-export با route-map روی R2 اعمال کنیم تا از ارسال این مسیر به R3 جلوگیری کنیم.

#### اعمال فعالسازی ارسال Community no-export

R2(config)#ip community-list 1 permit no-export

R2(config)#route-map BLOCK\_TO\_C permit 10

R2(config-route-map)#set community no-export

R2(config)#router bgp 20

R2(config-router)#address-family ipv4

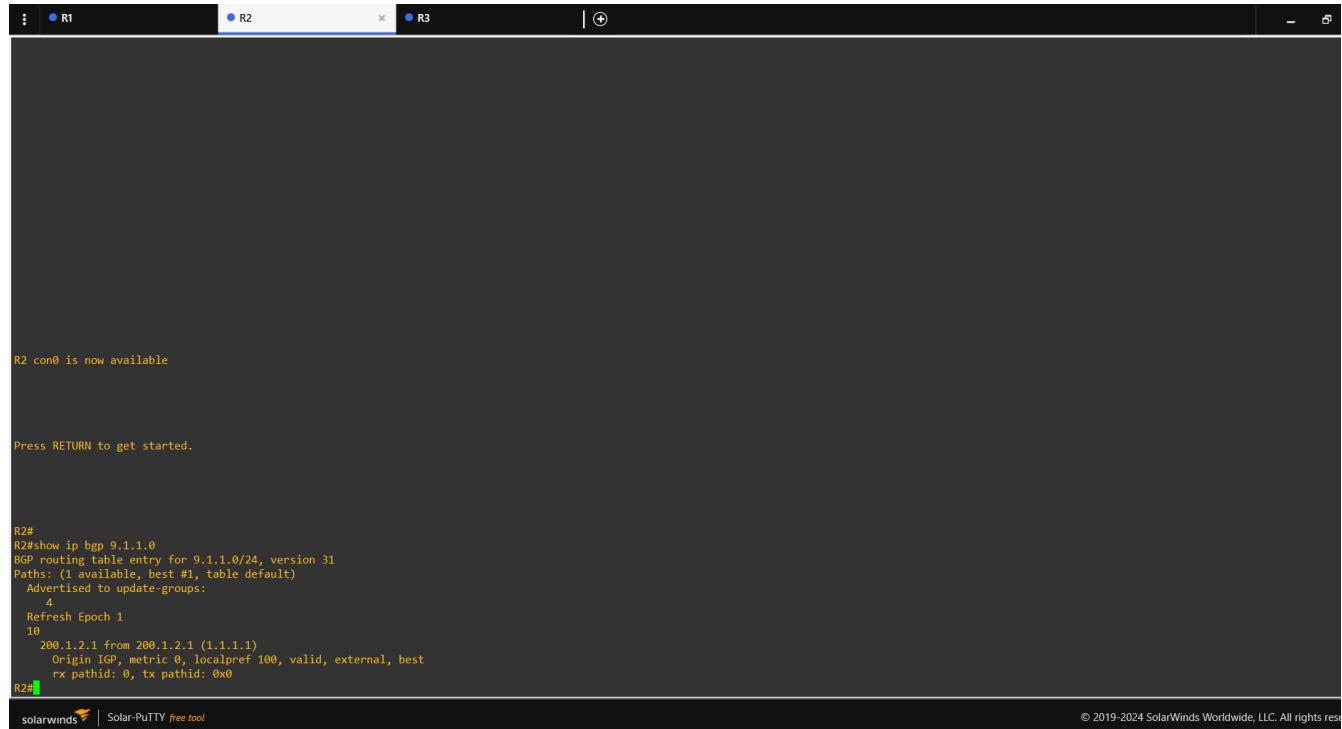
R2(config-router-af)#neighbor 200.1.2.1 activate

R2(config-router-af)#neighbor 200.1.2.1 send-community

R2(config-router-af)#neighbor 200.1.3.2 activate

R2(config-router-af)#neighbor 200.1.2.1 route-map BLOCK\_TO\_C out

R2(config-router-af)#exit-address-family

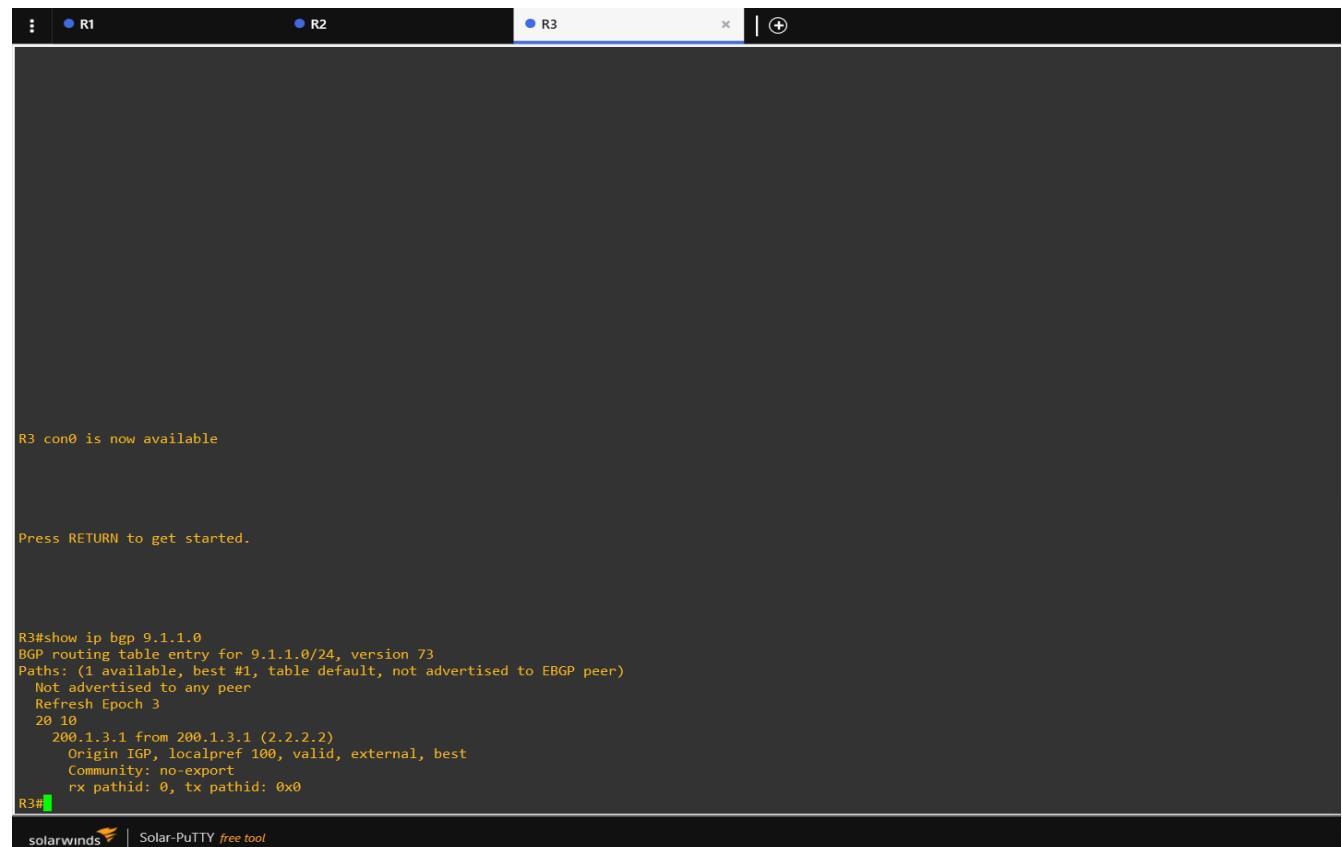


R2 con0 is now available

Press RETURN to get started.

```
R2#  
R2#show ip bgp 9.1.1.0  
BGP routing table entry for 9.1.1.0/24, version 31  
Paths: (1 available, best #1, table default)  
  Advertised to update-groups:  
    4  
    Refresh Epoch 1  
    10  
      200.1.2.1 from 200.1.2.1 (1.1.1.1)  
        Origin IGP, metric 0, localpref 100, valid, external, best  
        rx pathid: 0, tx pathid: 0x0  
R2#
```

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R3 con0 is now available

Press RETURN to get started.

```
R3#  
R3#show ip bgp 9.1.1.0  
BGP routing table entry for 9.1.1.0/24, version 73  
Paths: (1 available, best #1, table default, not advertised to EBGP peer)  
  Not advertised to any peer  
  Refresh Epoch 3  
  20 10  
    200.1.3.1 from 200.1.3.1 (2.2.2.2)  
      Origin IGP, localpref 100, valid, external, best  
      Community: no-export  
      rx pathid: 0, tx pathid: 0x0  
R3#
```

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نباشد 9.1.1.0/24 را در خروجی ببینیم، چون مسیر رو به R3 advertise میشود روتر B (R2) no-export باعث میشود روتر R3 نکند.

### نتیجه‌گیری:

- با استفاده از BGP ، ارتباط کامل بین سه روتر با سیستم‌های AS متفاوت (10، 20، 30) برقرار شده است. از طریق تنظیم دقیق همسایگی BGP و تعریف شبکه‌ها، مسیر‌های مورد نظر در هر سه روتر قابل مشاهده و استفاده شده‌اند. ارتباط بین روترها نیز با موقیت نسبت شده است.
- برای اینکه no-export کار کند:
  - باید send-community فعال باشد.
  - بدون route-map به سمت خروجی همسایه درست اعمال شود.
  - بدون send-community، روتر همسایه متوجه هیچ Community نمیشود.