

300-510^{Q&As}

Implementing Cisco Service Provider Advanced Routing Solutions
(SPRI)

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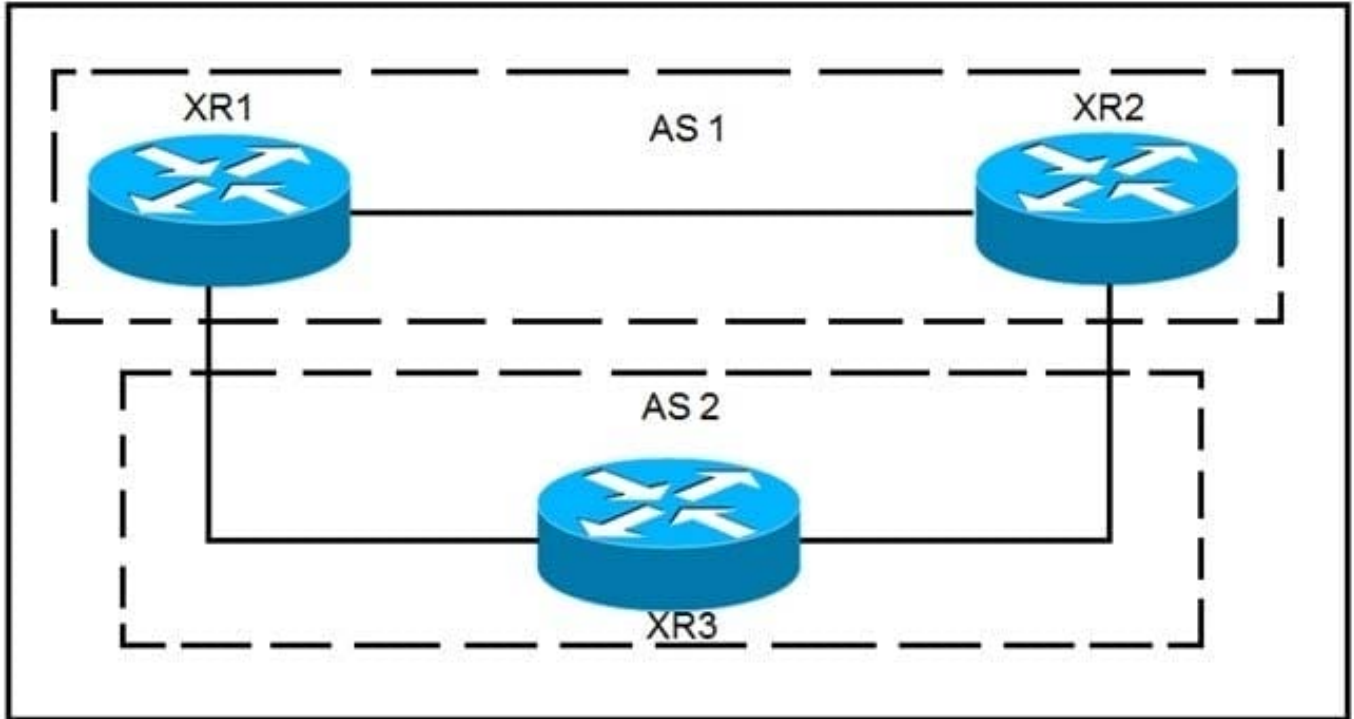
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QUESTION 1

Refer to the exhibit.



XR1 and XR2 are sending the prefix 10.11.11.0/24 to XR3. A configured policy on XR1 is incorrectly prepending AS path 11 11 12 12 onto this prefix. A network operator wants to add a policy onto XR3 that will not allow the falsely prepending prefix from being installed.

Which policy configuration applied to the XR3 neighbor configuration for XR1 can accomplish this requirement without impact to other or future received routes?

- A. route-policy NO_PREPEND
if as-path passes-through '11' then
pass
else
drop
endif
end-policy
- B. route-policy NO_PREPEND
if as-path prepends
drop
else
pass
endif
end-policy
- C. route-policy NO_PREPEND
if as-path passes-through '1' then
pass
else
drop
endif
end-policy
- D. route-policy NO_PREPEND
if as-path passes-through '11' then
drop
else
pass
endif
end-policy

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: D

Reference: https://www.cisco.com/c/en/us/td/docs/routers/crs/software/crs_r4-1/routing/command/reference/b_routing_cr41crs/b_routing_cr41crs_chapter_01000.html#wp3850885229

QUESTION 2

CORRECT TEXT

Guidelines

This is a lab item in which tasks will be performed on virtual devices.

Refer to the Tasks tab to view the tasks for this lab item.

Refer to the Topology tab to access the device console(s) and perform the tasks.

Console access is available for all required devices by clicking the device icon or using the tab(s) above the console window.

All necessary preconfigurations have been applied.

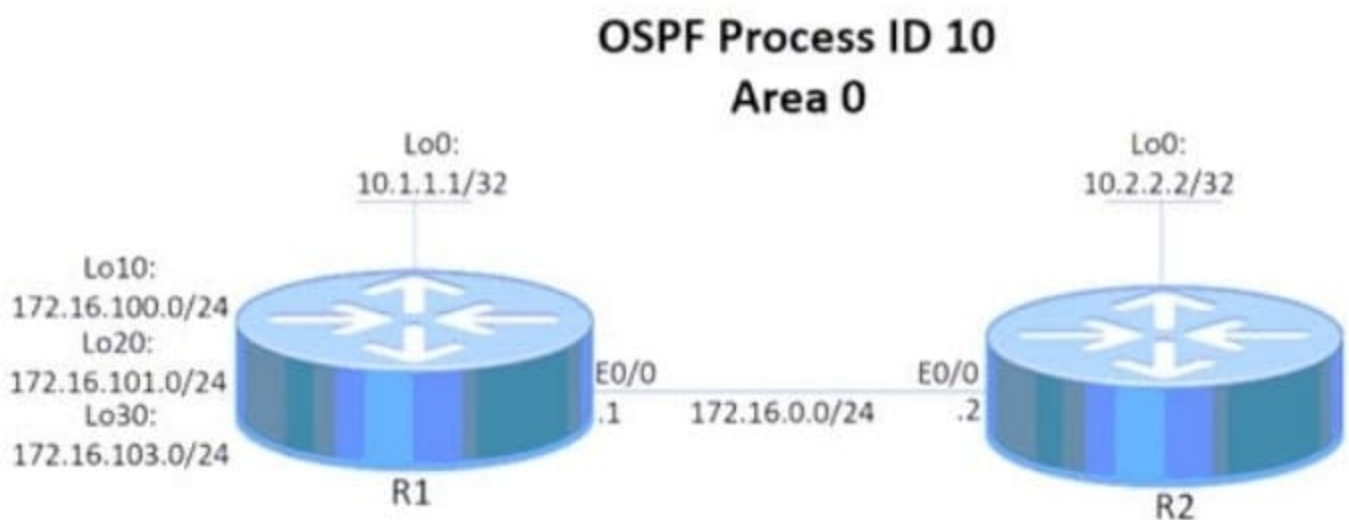
Do not change the enable password or hostname for any device.

Save your configurations to NVRAM before moving to the next item.

Click Next at the bottom of the screen to submit this lab and move to the next question.

When Next is clicked, the lab closes and cannot be reopened.

Topology



Tasks

Configure and verify an OSPF neighbor adjacency between R1 and R2 in OSPF area 0 according to the topology to achieve these goals:

1.

R1 pings the Loopback0 interface of R2. Use interface-level configuration to complete this task.

2.

R2 pings the Loopback0 interface of R1. Use interface-level configuration to complete this task.

A. Check the answer in the explanation

B. Placeholder

C. Placeholder

D. Placeholder

Correct Answer: A

R1

R2

```
R2>
R2>
R2>en
R2#config t
Enter configuration commands, one per line. End with CNTL/Z.
R2(config)#int lo
R2(config)#int lo0
R2(config-if)#ip ospf 10 area 0
R2(config-if)#^Z
R2#
R2#
R2#c
*Aug 26 11:44:48.122: %SYS-5-CONFIG_I: Configured from console by
console
R2#copy run start
R2#copy run startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
R2#
R2#sh ip route ospf
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 ty
pe 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, l
- LISP
        a - application route
        + - replicated route, % - next hop override, p - overrides
from PfR

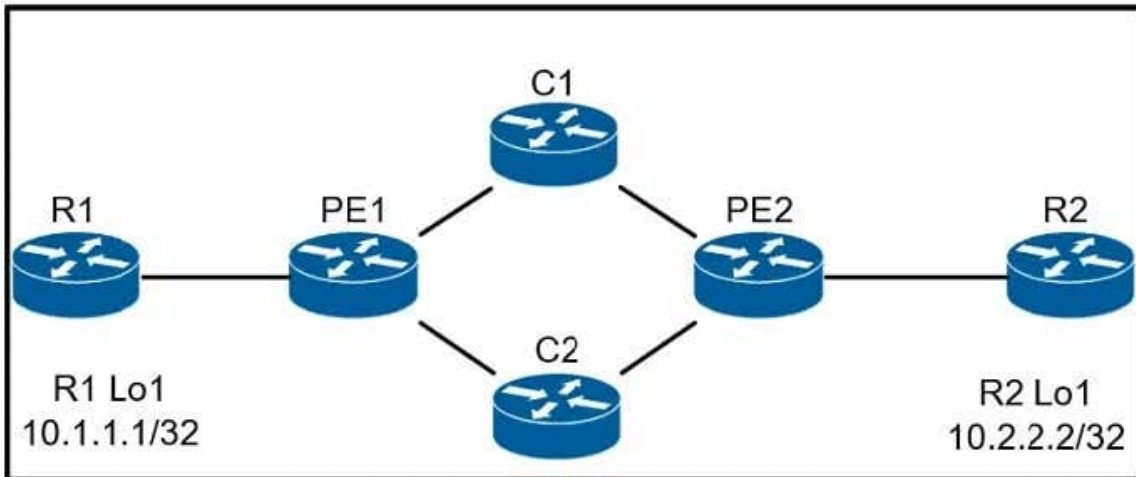
Gateway of last resort is not set
```

3.

R2 receives a single summary route 172.16.100.0/22 for networks 172.16.100.0/24, 172.16.101.0/24, and 172.16.103.0/24.

QUESTION 3

Refer to the exhibits.



```
RP/0/0/CPU0:PE1#show ip route 10.2.2.2
Fri Jun 28 01:03:49.698 UTC
```

```
Routing entry for 10.2.2.2/32
  Known via "bgp 1", distance 200, metric 0, type internal
  Installed Jun 27 23:27:12.395 for 01:36:37
  Routing Descriptor Blocks
    10.0.0.33, from 192.168.0.7
    Route metric is 0
  No advertising protos.
RP/0/0/CPU0:PE1#
```

```
RP/0/0/CPU0:PE1#show mpls forwarding
Fri Jun 28 01:04:44.885 UTC
```

Local Label	Outgoing Label	Prefix or ID	Outgoing Interface	Next Hop	Bytes Switched
24000	Pop	192.168.0.2/32	Gi0/0/0/3	10.0.0.5	1644
24001	24000	192.168.0.4/32	Gi0/0/0/2	10.0.0.30	24647
	24000	192.168.0.4/32	Gi0/0/0/3	10.0.0.5	0
24002	Pop	192.168.0.6/32	Gi0/0/0/2	10.0.0.30	12412
24003	24001	192.168.0.7/32	Gi0/0/0/2	10.0.0.30	22359
	24001	192.168.0.7/32	Gi0/0/0/3	10.0.0.5	1473
24004	Pop	10.0.0.20/30	Gi0/0/0/3	10.0.0.5	0
24005	Pop	10.0.0.16/30	Gi0/0/0/2	10.0.0.30	0
	Pop	10.0.0.16/30	Gi0/0/0/3	10.0.0.5	0
24006	Pop	10.0.0.40/30	Gi0/0/0/2	10.0.0.30	0
24007	24002	10.0.0.32/30	Gi0/0/0/2	10.0.0.30	0
	24002	10.0.0.32/30	Gi0/0/0/3	10.0.0.5	7045024
24009	Unlabelled	10.1.1.1/32	Gi0/0/0/0	10.0.0.9	7037648

A network operator is troubleshooting packet loss seen from the R1 loopback interface to the R2 loopback interface over the core network. The operator is attempting to identify the next leg in the path from PE1. Which interface and label path should the operator investigate next?

- A. PE1 - Gi0/0/0/3 - forwarding label 24002
- B. PE1 - Gi0/0/0/2 - forwarding label 24002
- C. PE1 - Gi0/0/0/3 - forwarding label 24001
- D. PE1 - Gi0/0/0/2 - forwarding label 24001

Correct Answer: C

QUESTION 4

Refer to the exhibit.

```
Router 1:

interface TenGigE0/1
  point-to-point
  address-family ipv4 unicast
    fast-reroute per-prefix
    Fast-reroute per-prefix ti-lfa

R1#show isis fast-reroute 172.16.200.9/32

L2 172.16.200.9/32 [30/115]
   via 192.168.20.1, TenGigE0/1, R2, SRGB Base: 16000, Weight: 0
   FRR backup via 192.168.30.1, TenGigE0/2, R3, SRGB Base: 16000,
   Weight: 0, Metric 40
```

Router 1 is connected to router 2 on interface TenGigE0/1.

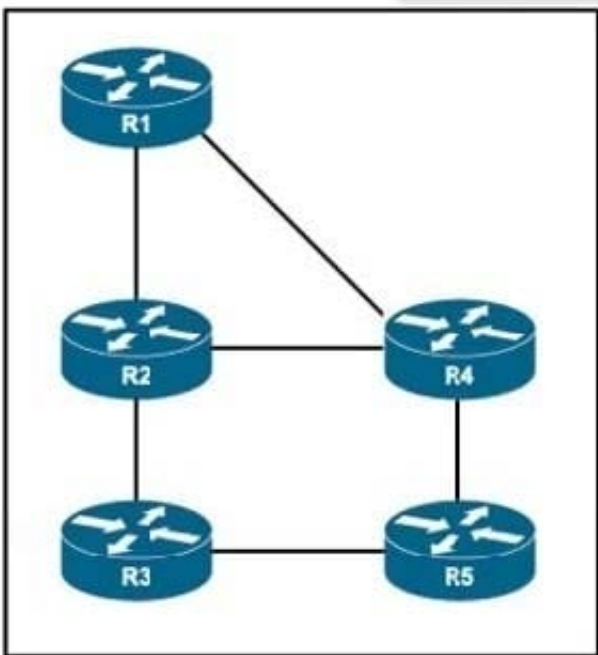
Which interface provides the alternate path to 172.16.200.9/32 when the link between router 1 and router 2 goes down?

- A. TenGigE0/1 interface provides the alternate path
- B. A backup path must be statically installed
- C. TenGigE0/2 interface provides the alternate path
- D. A primary path must be manually installed

Correct Answer: C

QUESTION 5

Refer to the exhibit.



An engineer has configured all routers in the environment to run IS-IS Level 1 and Level 2 routing. The engineer wants traffic from R1 to R5 to pass via R2, but IS-IS routing has calculated the best path via R4. Which action corrects the problem?

- A. Configure routers R1, R4, and R5 for Level 2 routing only.
- B. Set the link metric for the link from router R1 to router R4 to 30 or more.
- C. Set the link metric on R2 for the links from router R2 to routers R3 and R4 to 30 or more.
- D. Configure routers R1, R2, and R5 for Level 1 routing only.

Correct Answer: B

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