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300-410 Exam Questions & Answers

Vendor: Cisco
Certifications: CCNP
Exam Code: 300-410
Exam Name: Implementing Cisco Enterprise Advanced Routing and Services (ENARS)
Updated: Jan 31, 2022
Q&As: 285

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Cisco 300-410 exam, also known as Implementing Cisco Enterprise Advanced Routing and Services, is a certification exam offered by Cisco Systems. 300-410 exam tests IT professionals' knowledge and skills in implementing and troubleshooting advanced routing technologies and services in enterprise environments. Passing 300-410 exam leads to the Cisco Certified Specialist - Enterprise Advanced Infrastructure Implementation certification.

VPN Technologies

This part makes up 20% of the exam questions and evaluates the students' skills in the following:

- Explaining MPLS Layer-3 VPN;
- Verifying and configuring DMVPN (the single hub). It also covers your understanding of HNRP, GRE/mGRE, IPsec, Spoke-to-Spoke, and Dynamic neighbor.
- Explaining the MPLS operations, including label switching, LDP, LSP, and LSR;

Cisco 300-410 (Implementing Cisco Enterprise Advanced Routing and Services) certification exam is designed to validate a candidate's knowledge and skills in implementing advanced routing technologies and services in enterprise networks. Implementing Cisco Enterprise Advanced Routing and Services certification exam is intended for network professionals who are responsible for designing, implementing, and troubleshooting complex enterprise network infrastructure. Successful candidates will be able to configure and troubleshoot advanced routing services such as BGP, OSPF, EIGRP, and IS-IS, as well as implement security, QoS, and automation solutions.

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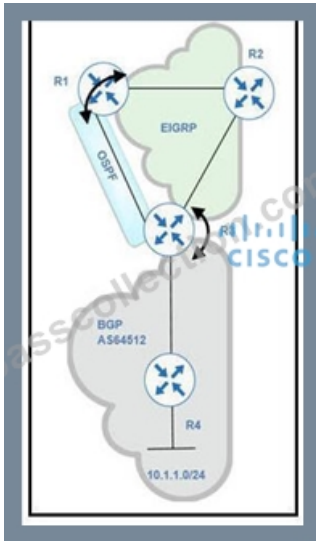
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Cisco Implementing Cisco Enterprise Advanced Routing and Services Sample Questions (Q272-Q277):

NEW QUESTION # 272

Refer to the exhibit.



BGP and EIGRP are mutually redistributed on R3, and EIGRP and OSPF are mutually redistributed on R1.

Users report packet loss and interruption of service to applications hosted on the 10.1.1.0/24 prefix. An engineer tested the link from R3 to R4 with no packet loss present but has noticed frequent routing changes on R3 when running the debug ip route command. Which action stabilizes the service?

- A. Place an OSPF distribute-list outbound on R3 to block the 10.1.1.0/24 prefix from being advertised back to R3.
- **B. Tag the 10.1.1.0/24 prefix and deny the prefix from being redistributed into OSPF on R1.**
- C. Repeat the test from R4 using ICMP ping on the local 10.1.1.0/24 prefix, and fix any Layer 2 errors on the host or switch side of the subnet.
- D. Reduce frequent OSPF SPF calculations on R3 that cause a high CPU and packet loss on traffic traversing R3.

Answer: B

Explanation:

Explanation

After redistribution, R3 learns about network 10.1.1.0/24 via two paths:

+ Internal BGP (IBGP): advertised from R4 with AD of 200 (and metric of 0)

+ OSPF: advertised from R1 with AD of 110 (O E2) (and metric of 20)

Therefore R3 will choose the path with the lower AD via OSPF

But this is a looped path which is received from R3 -> R2 -> R1 -> R3. So when the advertised route from R4 is expired, the looped path is also expired soon and R3 will reinstall the main path from R4.

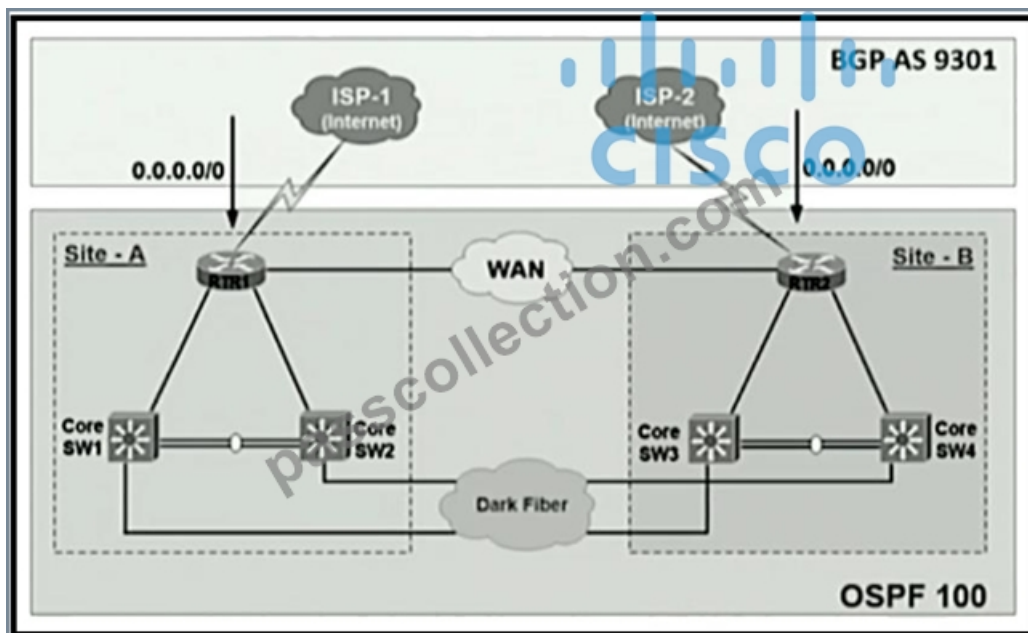
This is the cause of intermittent connectivity.

We can solve this problem by denying the 10.1.1.0/24 prefix from being redistributed into OSPF on R1. So R3 will not learn this prefix from R1.

Or another solution is to place an OSPF distribute-list inbound on R3 to block the 10.1.1.0/24 prefix from being advertised back to R3.

NEW QUESTION # 273

Refer to the exhibit.



The Internet traffic should always prefer Site-A ISP-1 if the link and BGP connection are up; otherwise, all Internet traffic should go to ISP-2. Redistribution is configured between BGP and OSPF routing protocols and it is not working as expected. What action resolves the issue?

- A. Set OSPF cost 100 at Site-A RTR1, and set OSPF Cost 200 at Site-B RTR2
- B. Set OSPF cost 200 at Site-A RTR1 and set OSPF Cost 100 at Site-B RTR2
- C. Set metric-type 2 at Site-A RTR1, and set metric-type 1 at Site-B RTR2
- D. Set metric-type 1 at Site-A RTR1, and set metric-type 2 at Site-B RTR2

Answer: D

Explanation:

OSPF type 1 route is always preferred over a type 2 route for the same destination so we can set metric-type 1 at Site-A RTR1 so that it is preferred over Site-B RTR2.

Note:

Routes are redistributed in OSPF as either type 1 (E1) routes or type 2 (E2) routes, with type 2 being the default.

- A type 1 route has a metric that is the sum of the internal OSPF cost and the external redistributed cost.
- A type 2 route has a metric equal only to the redistributed cost.
- If routes are redistributed into OSPF as type 2 then every router in the OSPF domain will see the same cost to reach the external networks.
- If routes are redistributed into OSPF as type 1, then the cost to reach the external networks could vary from router to router.

NEW QUESTION # 274

Drag and drop the addresses from the left onto the correct IPv6 filter purposes on the right.

permit ip 2001:d8b:800:200c::/117 2001:0DBB:800:2010::/64 eq 443	Permit NTP from this source 2001:0D8B:0800:200c::1f
permit ip 2001:D88:800:200C::e/126 2001:0DBB:800:2010::/64 eq 514	Permit syslog from this source 2001:0D88:0800:200c::1c
permit ip 2001:d8b:800:200c::800/117 2001:0DBB:800:2010::/64 eq 80	Permit HTTP from this source 2001:0D8B:0800:200c::0ff
permit ip 2001:D8B:800:200C::c/126 2001:0DBB:800:2010::/64 eq 123	Permit HTTPS from this source 2001:0D8B:0800:200c::07ff

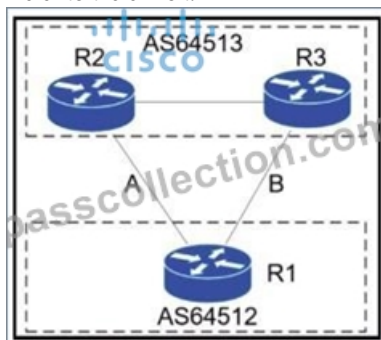
Answer:

Explanation:

<pre> permit ip 2001:d8b:800:200c::/117 2001:0DBB:800:2010::/64 eq 443 </pre>	<pre> permit ip 2001:D8B:800:200C::c/126 2001:0DBB:800:2010::/64 eq 123 </pre>
<pre> permit ip 2001:D88:800:200C::e/126 2001:0DBB:800:2010::/64 eq 514 </pre>	<pre> permit ip 2001:D88:800:200C::e/126 2001:0DBB:800:2010::/64 eq 514 </pre>
<pre> permit ip 2001:d8b:800:200c::800 /117 2001:0DBB:800:2010::/64 eq 80 </pre>	<pre> permit ip 2001:d8b:800:200c::800 /117 2001:0DBB:800:2010::/64 eq 80 </pre>
<pre> permit ip 2001:D8B:800:200C::c/126 2001:0DBB:800:2010::/64 eq 123 </pre>	<pre> permit ip 2001:d8b:800:200c::/117 2001:0DBB:800:2010::/64 eq 443 </pre>

NEW QUESTION # 275

Refer to the exhibit.



A network engineer for AS64512 must remove the inbound and outbound traffic from link A during maintenance without closing the BGP session so that there a backup link over link A toward the ASN.

Which BGP configuration on R1 accomplishes this goal?

A)

```

route-map link-a-in permit 10
set weight 200
route-map link-a-out permit 10
set as-path prepend 64512
route-map link-b-in permit 10
set weight 100
route-map link-b-out permit 10

```

B)

```

route-map link-a-in permit 10
set local-preference 200
route-map link-a-out permit 10
route-map link-b-in permit 10
route-map link-b-out permit 10
set as-path prepend 64512

```

C)

```

route-map link-a-in permit 10
route-map link-a-out permit 10
set as-path prepend 64512
route-map link-b-in permit 10
set local-preference 200
route-map link-b-out permit 10

```

D)

```

route-map link-a-in permit 10
  set weight 200
route-map link-a-out permit 10
route-map link-b-in permit 10
  set weight 100
route-map link-b-out permit 10
  set as-path prepend 64512

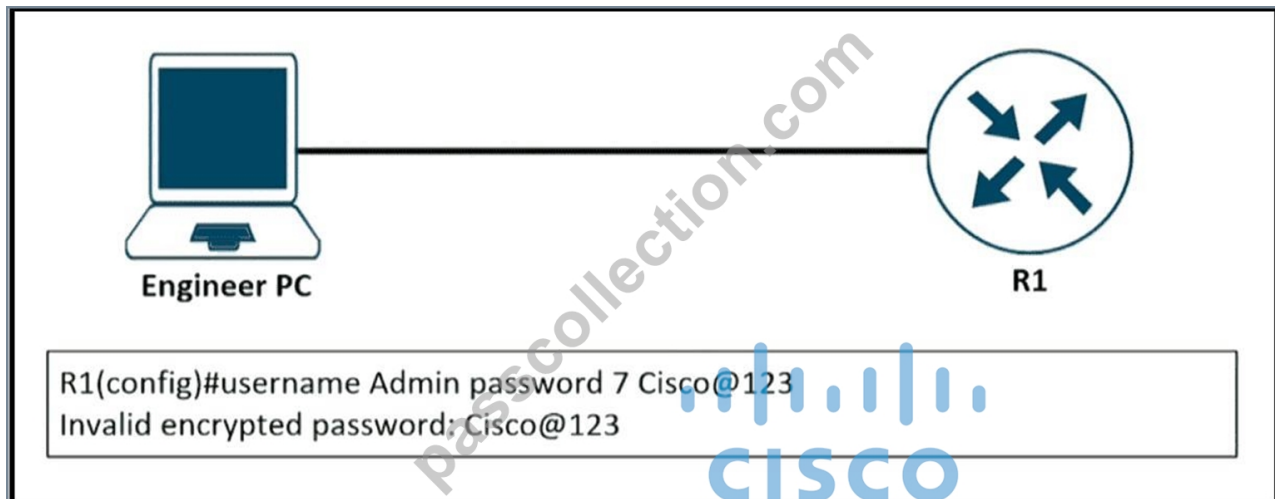
```

- A. Option D
- **B. Option C**
- C. Option A
- D. Option B

Answer: B

NEW QUESTION # 276

Refer to the exhibit.



An engineer is trying to add an encrypted user password that should not be visible in the router configuration. Which two configuration commands resolve the issue? (Choose two)

- A. no service password-encryption
- B. username Admin password Cisco@maedeh motamedi
- C. username Admin password 5 Cisco@maedeh motamedi
- **D. service password-encryption**
- E. password encryption aes
- **F. username Admin secret Cisco@maedeh motamedi**

Answer: D,F

NEW QUESTION # 277

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