642-883^{Q&As}

Deploying Cisco Service Provider Network Routing

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QUESTION 1

Which option is where BGP graceful restart is negotiated between peers?

A. open message

B. keep-alive message

C. notification message

D. update message

Correct Answer: A

QUESTION 2

Which high-availability routing feature requires the neighbor router to support the graceful restart capability?

A. BFD

B. NSR

C. NSF

D. MTR

Correct Answer: C

On Cisco IOS XR software, NSF minimizes the amount of time a network is unavailable to its users following a route processor (RP) failover. The main objective of NSF is to continue forwarding IP packets and perform a graceful restart

following an RP failover.

When a router restarts, all routing peers of that device usually detect that the device went down and then came back up. This transition results in what is called a routing flap, which could spread across multiple routing domains. Routing flaps

caused by routing restarts create routing instabilities, which are detrimental to the overall network performance. NSF helps to suppress routing flaps in NSF-aware devices, thus reducing network instability. NSF allows for the forwarding of

data packets to continue along known routes while the routing protocol information is being restored following an RP failover. When the NSF feature is configured, peer networking devices do not experience routing flaps. Data traffic is

forwarded through intelligent line cards while the standby RP assumes control from the failed active RP during a failover. The ability of line cards to remain up through a failover and to be kept current with the Forwarding Information Base

(FIB) on the active RP is key to NSF operation.

When the Cisco IOS XR router running IS-IS routing performs an RP failover, the router must perform two tasks to resynchronize its link-state database with its IS-IS neighbors. First, it must relearn the available IS-IS neighbors on the network

without causing a reset of the neighbor relationship. Second, it must reacquire the contents of the link-state database for the network.

The IS-IS NSF feature offers two options when configuring NSF:

?ETF NSF

?isco NSF

If neighbor routers on a network segment are NSF aware, meaning that neighbor routers are running a software version that supports the IETF Internet draft for router restartability, they assist an IETF NSF router that is restarting. With IETF

NSF, neighbor routers provide adjacency and link-state information to help rebuild the routing information following a failover.

In Cisco IOS XR software, Cisco NSF checkpoints (stores persistently) all the state necessary to recover from a restart without requiring any special cooperation from neighboring routers. The state is recovered from the neighboring routers,

but only using the standard features of the IS-IS routing protocol. This capability makes Cisco NSF suitable for use in networks in which other routers have not used the IETF standard implementation of NSF

QUESTION 3

For which reason might an enterprise\\'s Internet circuits use private AS BGP peerings?

A. The enterprisewishes to obscure internal routing information from the Internet.

B. The enterprise owns their own IP space.

C. All redundant circuits are through the same provider.

D. The enterprise uses BGP confederations internally.

Correct Answer: C

QUESTION 4

Refer to the exhibit.

Based on the Cisco IOS XR route policy configuration, when redistributing OSPF routes into IS-IS, to which of the following does the "tag" value correspond?

A. The tag value represents the OSPF metric.

B. The tag value represents the IS-IS metric.

C. The tag value identifies a route or set of routes.

D. The tag value is used to match whether the IS-IS route is an external or internal IS-IS route.

E. The tag value represents the administrative distance.
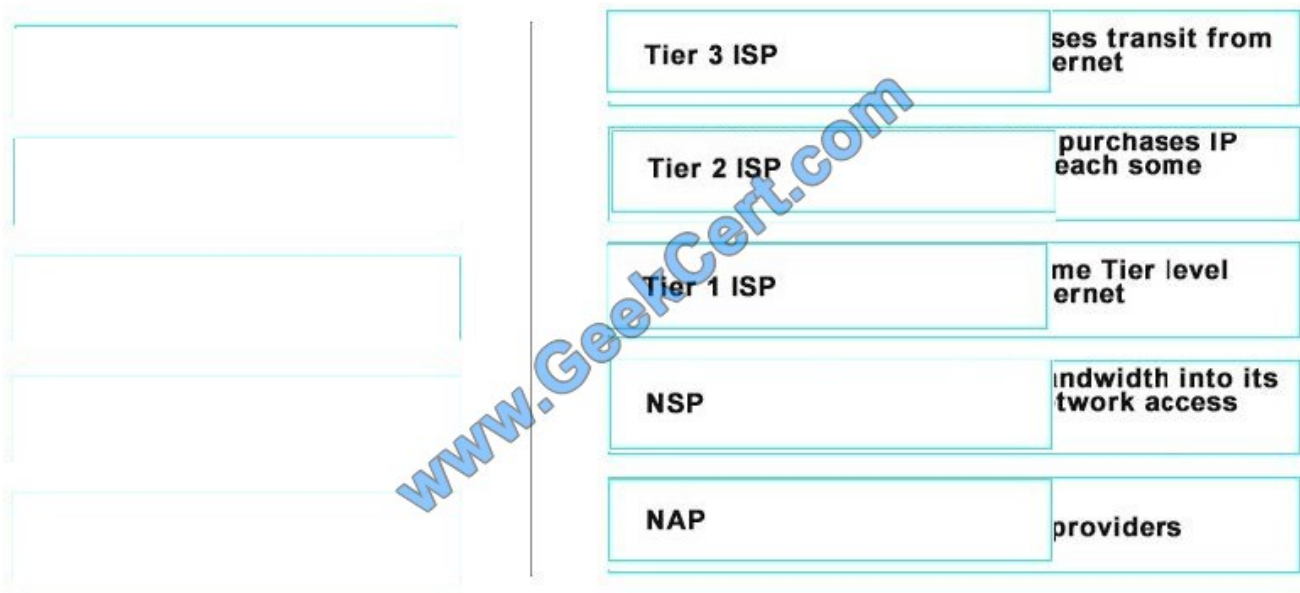
Correct Answer: C

QUESTION 5

Drag and drop the terms on the left onto the appropriate definition on the right.

Select and Place:

NSP		Is a network that solely purchases transit from other networks to reach the Internet
Tier 1 ISP		peers with some networks, but purchases IP transit or pays settlements to reach some portion of the Internet
Tier 2 ISP		peers with other ISPs of the same Tier level to form the backbone of the Internet
Tier 3 ISP		provides or sells access and bandwidth into its backbone infrastructure and network access points
NAP		interconnects network service providers

Correct Answer:

	ses transit from ernet
Tier 3 ISP	
Tier 2 ISP	purchases IP each some
Tier 1 ISP	me Tier level ernet
NSP	ndwidth into its twork access
NAP	providers

Is a network that solely purchases transit from other networks to reach the Internet

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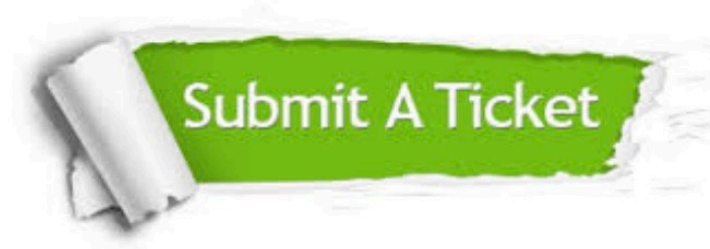
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