300-101 Q&As

Implementing Cisco IP Routing

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QUESTION 1

You want the devices on your network to summarize routes between OSPF areas. Which action must you take?

A. Configure the area range command on the ABR.

B. Configure the summary-address command on the ABR.

C. Configure the area range command on the ASBR.

D. Configure the summary-address command on the ASBR.

Correct Answer: D

QUESTION 2

Router# show ntp associations

TSR Watermark Image - Unregistered version - This line is removed when registered

```
Address ref clock       st  when poll reach  delay offset  disp
~172.31.32.2    172.31.32.1     5   29 1024 377    4.2  -8.59   1.6
+~192.168.13.33 192.168.1.111   4   69  128 377    4.1   3.48   2.3
#~192.168.13.57 192.168.1.111   3   32  128 377    7.9  11.18   3.6

* Master (synced), # master (unsynced), + selected, – candidate, ~ configured
```

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Which of the following is true?

A. Master is syncing and exchanging NTP packets successfully

B. Master is not syncing but exchanging NTP packets successfully

C. Master is not syncing and not exchanging NTP packets

D. All NTP packets are droped

Correct Answer: B

in the output you can see a * next to the ip address that is the primary NTP server. Also the 377 that means everything was received and processed. Negotiation done. https://www.cisco.com/c/en/us/support/docs/ios-nx-os-software/iossoftware-releases-110/15171-ntpassoc 377 = 1 1 1 1 1 1 1 1 Time 0: Last eight responses from server were received 376 = 1 1 1 1 1 1 1 0 Time 1: Last NTP response was NOT received (lost in network) Values below this 376 is that Last NTP response was received A pound sign (#) displayed next to a configured peer in the show ntp associations command output indicates that the router isn\\'t syncing with the peer even though NTP request and response packets are being exchanged. Reference: https://www.cisco.com/c/en/us/support/docs/ios-nx-os-software/ios-software-releases-110/15171- ntpassoc.html

QUESTION 3

What is a function of NPTv6?

A. It interferes with encryption of the full IP payload.

B. It maintains a per-node state.

C. It is checksum-neutral.

D. It rewrites transport layer headers

Correct Answer: C

RFC 6296 describes a stateless Ipv6-to-Ipv6 Network Prefix Translation (NPTv6) function, designed to provide address independence to the edge network. It is transport-agnostic with respect to transports that do not checksum the IP header,

such as SCTP, and to transports that use the TCP/UDP/DCCP (Datagram Congestion Control Protocol) pseudo-header and checksum

NPTv6 provides a simple and compelling solution to meet the address-independence requirement in Ipv6. The address-independence benefit stems directly from the translation function of the network prefix translator. To avoid as many of the

issues associated with NAPT44 as possible, NPTv6 is defined to include a two-way, checksum-neutral, algorithmic translation function, and nothing else.

QUESTION 4

What command allows permit or deny IPv6 traffic?

A. traffic-filter access-list-name

B. access-list

C. access-list ipv6

D. access-group

Correct Answer: A

QUESTION 5

VPN support for IPv4 and IPv6 address families. Which command enables a VRF that supports these requirements?

A. Router(config-vrf)#route-target 004:006

B. Router(config)#ip vrf CUSTOMER

C. Router(config)#vrf definition CUSTOMER

D. Router(config-vrf)#rd 004:006

Correct Answer: C

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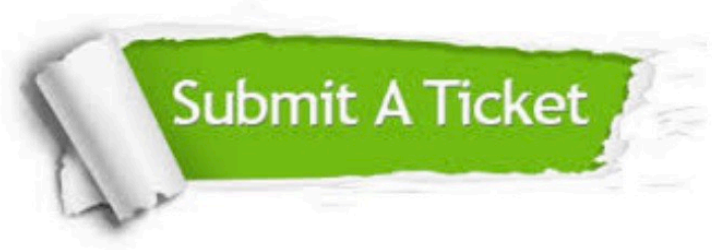

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