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Huawei HCIE-Datacom V1.0 Sample Questions (Q303-Q308):

NEW QUESTION # 303

Which of the following languages is integrated into the OPS?

- A. Java
- B. C programming language
- C. C++
- **D. Python**

Answer: D

Explanation:

Huawei Open Programmability System (OPS) and Scripting Support

Huawei OPS (Open Programmability System) enables network automation using script-based programming for device management and configuration.

Python is the primary language integrated into Huawei OPS.

Python scripts can automate device configurations, monitoring, and troubleshooting. OPS supports Python libraries for interacting with network APIs and CLI commands. Used for Huawei CloudCampus, SDN, and Datacom devices.

NEW QUESTION # 304

The following is the correct statement about the LSA of OSPFv3?

- A. When the Intra-AreaPrefixLSA's ReferencedLinkStateType-2, referencedLinkStateID contains the interface to DR ID
- B. Router-LSA and Network-LSA does not contain routing information
- C. Inter-AreaPrefix-SA's LinkStateID contains the prefix
- D. Inter-AreaPrefixLSA also contains LinkLocal information file

Answer: A,B

NEW QUESTION # 305

An engineer uses two routers to perform IPv6 tests and wants to use OSPFv3 for IPv6 network connectivity. Which of the following OSPFv3 configurations for R1 are correct?

- A. [R1-ospfv3-1] router-id 10.1.1.1
- B. [R1-GigabitEthernet0/0/1] ospfv3 1 area 0
- C. [R1-ospfv3-1-area-0.0.0.0] network 2001:DB8:2345:12::1 ::
- D. [R1] router id 10.1.1.1

Answer: A,B

Explanation:

OSPFv3 Configuration Principles:

OSPFv3, the OSPF version supporting IPv6, differs from OSPFv2 in several aspects:

Interface-based Configuration:

OSPFv3 is configured on interfaces directly, unlike OSPFv2 which uses the network command.

Router ID:

The Router ID is still a 32-bit number, typically represented as an IPv4 address.

It must be explicitly specified since OSPFv3 requires a Router ID for operation, even though it supports IPv6.

Analysis:

A). [R1-GigabitEthernet0/0/1] ospfv3 1 area 0:

Correct. This command enables OSPFv3 process 1 on the GE0/0/1 interface in Area 0.

B). [R1-ospfv3-1] router-id 10.1.1.1:

Correct. This correctly sets the Router ID for OSPFv3 process 1.

C). [R1-ospfv3-1-area-0.0.0.0] network 2001:DB8:2345:12::1 ::

Incorrect. OSPFv3 does not use the network command as in OSPFv2. Instead, OSPFv3 is directly configured on interfaces.

D). [R1] router id 10.1.1.1:

Incorrect. The Router ID should be set within the OSPFv3 process view, not the global configuration view.

Therefore, the correct answers are A and B.

Reference:

Huawei HCIE Datacom Official Certification Guide

Huawei OSPFv3 Configuration Guide

RFC 5340: OSPF for IPv6

NEW QUESTION # 306

On the bearer WAN shown in the figure, SR (Segment Routing) is deployed, and the controller is used to compute paths. Drag network technologies on the left to the corresponding application locations on the right.

Answer:

Explanation:

Comprehensive and Detailed In-Depth Explanation:

The diagram shows a WAN network where Segment Routing (SR) is used in conjunction with the Master NCE controller. The network

consists of Data Centers (DCs), Branches, Provider Edge (PE) routers, and Route Reflectors (RR) within AS 65600. Let's analyze each network technology and its placement in the scenario.

1. BGP-LS (Border Gateway Protocol - Link State):

Application Location: 1 (PE to RR)

BGP-LS is used to collect and distribute network topology information from the IGP (Interior Gateway Protocol) domain.

It enables the iMaster NCE (controller) to learn about the network topology and SR information from PE routers.

The PE routers send their link-state information to the RR using BGP-LS.

Why Location 1:

The RR collects topology data from PEs and forwards it to the controller for path computation.

2. BGP (Border Gateway Protocol):

Application Location: 2 (RR to iMaster NCE)

Standard BGP is used for route distribution and network connectivity.

The RR uses BGP to exchange route information with the controller (iMaster NCE).

Why Location 2:

The RR aggregates routes and exchanges them with the iMaster NCE for centralized management.

3. MP-IBGP (Multiprotocol Internal BGP):

Application Location: 3 (PE to PE)

MP-IBGP is used to exchange VPNv4 and VPNv6 routes between PE routers within the same AS.

It allows PEs to advertise VPN routes across the backbone network.

Why Location 3:

PEs need to communicate VPN-related information within the AS, ensuring end-to-end connectivity between DCs and branches.

4. BGP SR-Policy/PCEP (Path Computation Element Protocol):

Application Location: 4 (iMaster NCE to PE)

BGP SR-Policy and PCEP are used by the controller to distribute SR policies to the PE routers.

The iMaster NCE calculates optimal paths and sends the SR policies to PEs via BGP SR-Policy or PCEP.

Why Location 4:

The controller programs the Segment Routing paths directly to the PEs for optimal traffic engineering.

Why This Mapping Is Correct:

The mapping is based on the roles and functions of each protocol within the SR-based WAN architecture. The controller uses BGP-LS to learn topology, BGP for route reflection, MP-IBGP for VPN route exchange, and BGP SR-Policy/PCEP for path computation and distribution.

References:

Huawei HCIE-Datacom V1.0 Training Materials

Huawei Official Documentation: Segment Routing Configuration Guide

Huawei iMaster NCE-Campus Guide

RFC 7752 - BGP-LS (Link State)

RFC 8283 - BGP SR-Policy

RFC 5440 - PCEP (Path Computation Element Protocol)

HCIE-Datacom Knowledge Base: Segment Routing and Traffic Engineering

NEW QUESTION # 307

In an IPv6 network, two nodes A and B are neighbors to each other if node A sends to node B NS message, if Node B receives the message and then replies to the NA message, then on Node A On the view, the neighbor status will be marked as What?

- A. Probe Answer
- B. Constant
- C. Incomplete
- **D. Reachable**

Answer: D

NEW QUESTION # 308

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