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Huawei H12-891_V1.0 (HCIE-Datacom V1.0) exam covers a wide range of topics related to data communication, including network design, implementation, maintenance, and troubleshooting. H12-891_V1.0 exam is divided into three parts, each of which focuses on a different skillset. The first part covers network design, including network topology, network connectivity, and network security. The second part focuses on network implementation, including network devices, network protocols, and network management. The third part covers network maintenance and troubleshooting, including network monitoring, network performance analysis, and network fault diagnosis.

The H12-891_V1.0 Certification Exam covers a wide range of topics, including network architecture, network design, network management, network security, and network troubleshooting. H12-891_V1.0 exam is designed to test your knowledge of the latest technologies, including software-defined networking (SDN), network functions virtualization (NFV), cloud computing, and big data.

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Huawei H12-891_V1.0 (HCIE-Datacom V1.0) Certification Exam is a challenging exam that requires a significant amount of preparation. Candidates are expected to have a deep understanding of data communication technologies, including network protocols, routing, switching, and security. They should also be familiar with the latest industry trends and best practices. To pass the exam, candidates must demonstrate their ability to design, implement, and troubleshoot complex data communication networks.

Huawei HCIE-Datacom V1.0 Sample Questions (Q113-Q118):

NEW QUESTION # 113

To deploy a virtual campus network using iMaster NCE-Campus, the following steps are performed.
From top to bottom, sort the steps in the order in which they occur during network deployment and management.

Service deployment		1
Device management		2
Site design		3
Network planning		4
VN management		5
Fabric management		6

Answer:

Explanation:

Service deployment	Network planning	1
Device management	Site design	2
Site design	Device management	3
Network planning	Fabric management	4
VN management	VN management	5
Fabric management	Service deployment	6

Explanation:

Correct Order of Steps:

1## Network planning2## Site design3## Device management4## Fabric management5## VN (Virtual Network) management6##

Service deployment Understanding the iMaster NCE-Campus Deployment Process

iMaster NCE-Campus is Huawei's AI-driven network automation and management platform for campus networks.# The deployment follows a structured sequence to ensure a fully operational network.

Detailed Explanation of Each Step:

1## Network Planning (First Step)

- * Defines the overall network architecture, topology, and business requirements.
- * Determines WAN, LAN, and WLAN coverage for the campus.
- * Ensures IP addressing, VLANs, and security policies are planned.

2## Site Design (Second Step)

- * Creates site layouts and determines device placement (switches, APs, routers).
- * Defines power, cabling, and uplink requirements for optimal connectivity.

3## Device Management (Third Step)

- * Onboards network devices (e.g., switches, APs, firewalls) into iMaster NCE-Campus.

- * Configures initial settings such as IP addresses, interfaces, and SNMP settings.
- * Ensures devices are registered and reachable in the management platform.

4## Fabric Management (Fourth Step)

- * Establishes VXLAN-based network fabric for automated Layer 2/3 connectivity.
- * Configures EVPN/VXLAN overlays, VTEPs, and underlay routing.

5## VN (Virtual Network) Management (Fifth Step)

- * Defines virtual networks (VNs) for different departments, tenants, or services.
- * Configures QoS, ACLs, and network segmentation policies.

6## Service Deployment (Final Step)

- * Activates network services like DHCP, security policies, and application access.
- * Ensures that end-user connectivity and application traffic policies are in place.

Why Is This the Correct Order?

Each step builds upon the previous one, ensuring a smooth and structured deployment process. # Service deployment comes last because it finalizes user access and application connectivity.

Real-World Application:

- * Enterprise Campus Networks: Deploys secure, scalable campus connectivity with AI-based automation.
- * University Campuses & Smart Cities: Uses SDN-driven network segmentation and automation to simplify operations.

Reference: Huawei HCIE-Datcom Guide - iMaster NCE-Campus Deployment & Automation

NEW QUESTION # 114

As shown in the following figure, R1, R2, R3 establish a neighbor relationship of Level2 The IP routing table for R3 is correct (multiple choice).



- A. The 2019:/64 route appears in the IP routing table
- B. 2020::/64 The route appears in the IP routing table
- C. The 2021/64 route will appear in the IP routing table
- D. The 2::/64 route appears in the P route table

Answer: A,B,C,D

NEW QUESTION # 115

The TTL field encapsulated in the MPLS label header can prevent infinite loops of MPLS packets. Which of the following statements regarding the TTL field are correct?

- A. If TTL copy is disabled, users can use the tracert function to view the LSR of the MPLS domain.
- B. MPLS provides two processing modes on the TTL field:
TTL in the MPLS header copies the IP TTL value when an IP packet enters the MPLS network.

The ingress LER sets the TTL value in the MPLS header to 255.

- C. The processing of IP TTL copy hides the LSR in an MPLS domain, improving network security.
- D. MPLS encapsulation in frame mode supports the TTL field. MPLS encapsulation in cell mode does not support the TTL field.

Answer: B,C,D

Explanation:

The Time-To-Live (TTL) field in MPLS is essential for preventing infinite loops and enhancing security.

* MPLS TTL Field Functionality:

* It prevents packets from circulating indefinitely in the MPLS network.

* It allows traceroute (tracert) to identify MPLS hops when TTL propagation is enabled.

* Explanation of Correct Answers: # B. The processing of IP TTL copy hides the LSR in an MPLS domain, improving security.

* If TTL propagation is disabled, MPLS routers do not decrease TTL, hiding internal LSRs from traceroute, enhancing security.

C. MPLS provides two TTL processing modes:

* Default Mode: The MPLS TTL copies the IP TTL value when an IP packet enters the MPLS network.

* Uniform Mode: The ingress LER sets the MPLS TTL to 255, so it does not decrement.

D. MPLS encapsulation in frame mode supports the TTL field, while cell mode does not.

* Frame Mode (Ethernet, PPP, etc.) supports TTL.

* Cell Mode (ATM/MPLS) does not support TTL.

* Incorrect Answer Explanation: # A. If TTL copy is disabled, users can use the traceroute function to view MPLS hops.

* Wrong! If TTL propagation is disabled, traceroute cannot see LSRs inside the MPLS core network.

Reference from Huawei HCIE-Datcom Documentation:

* Huawei MPLS Technology Guide - TTL Field & Loop Prevention

* HCIE-Datcom MPLS VPN Configuration Guide - Traceroute in MPLS Networks

NEW QUESTION # 116

As shown in the figure, the PPP link between R1 and R2 is not in the same network segment, but the R1 and R2 direct connectors can communicate, and the Ethernet link cannot communicate under the same planning, why?

The figure shows a network diagram at the top with two routers, R1 and R2, connected via a PPP link. R1 has IP 192.168.10.1/30 and R2 has IP 192.168.10.5/30. Below the diagram is a screenshot of a Huawei CLI command: <R3>display isis lsdb. The output shows the Level-1 Link State Database with four entries. The first entry is highlighted with a red box, showing LSPID 0001.0000.0000.00-00, Seq Num 0x00000015, Checksum 0xd322, Holdtime 491, Length 109, and ATT/P/OL 0/0/0. The second entry is also highlighted with a red box, showing LSPID 0002.0000.0000.00-00, Seq Num 0x00000011, Checksum 0xfe96, Holdtime 675, Length 88, and ATT/P/OL 1/0/0. The third entry is highlighted with a red box, showing LSPID 0002.0000.0000.01-00, Seq Num 0x00000006, Checksum 0xbd04, Holdtime 656, Length 55, and ATT/P/OL 0/0/0. The fourth entry is highlighted with a red box, showing LSPID 0003.0000.0000.00-00*, Seq Num 0x00000027, Checksum 0xffe7, Holdtime 676, Length 119, and ATT/P/OL 1/0/0. The output also shows the Level-2 Link State Database with five entries. The first entry is highlighted with a red box, showing LSPID 0002.0000.0000.00-00, Seq Num 0x0000000b, Checksum 0x11ff, Holdtime 678, Length 102, and ATT/P/OL 0/0/0. The second entry is highlighted with a red box, showing LSPID 0002.0000.0000.01-00, Seq Num 0x00000002, Checksum 0xc5ff, Holdtime 656, Length 55, and ATT/P/OL 0/0/0. The third entry is highlighted with a red box, showing LSPID 0003.0000.0000.00-00*, Seq Num 0x0000002d, Checksum 0xb496, Holdtime 674, Length 130, and ATT/P/OL 0/0/0. The fourth entry is highlighted with a red box, showing LSPID 0003.0000.0000.03-00*, Seq Num 0x00000008, Checksum 0xac40, Holdtime 673, Length 54, and ATT/P/OL 0/0/0. The fifth entry is highlighted with a red box, showing LSPID 0004.0000.0000.00-00, Seq Num 0x00000010, Checksum 0x90cb, Holdtime 841, Length 88, and ATT/P/OL 0/0/0. The output also shows the total LSP(s) count and the command to display the link state database.

- A. The interconnect POS ports of R1 and R2 learn the 24-bit subnet route of each other's direct connection ports through IPCP
- B. The interconnect POS port of R1 and R2, through LCP learns the MAC address of the opposite termination, does not need to use ARP to request the MAC address
- C. The interconnect POS ports of R1 and R2 learn the 32-bit host route for each other's direct connections through IPCP
- D. The data packets of the interconnect POS ports of R1 and R2 do not need to encapsulate ethernet headers and do not need to use ARP to request MAC addresses

Answer: C,D

NEW QUESTION # 117

On a router, SRv6 is enabled, and the configurations shown below are performed. Which of the following statements about the configurations are correct?

```
[Router-segment-routing-ipv6] locator srv6_locator1 ipv6-prefix 2001:DB8:ABCD::/64 static 32
```

- A. The locator of this node is 2001:DB8:ABCD::
- B. The Args field of this node occupies 32 bits.
- C. The dynamic segment of the node occupies 32 bits.
- D. The static segment of the node occupies 32 bits.

Answer: A,B,C

Explanation:

Comprehensive and Detailed Explanation:

SRv6 Locator and Segment Structure:

* The SRv6 Locator is 2001:DB8:ABCD::/64 # This defines the segment routing namespace for this node. #

* Dynamic Segment (SID) = 32 bits # Defined dynamically per segment. #

* Args Field = 32 bits # Used for function arguments. #

(B) Incorrect # Static segments are NOT explicitly defined as 32-bit fields in Huawei SRv6.

Reference: Huawei HCIE Datacom - SRv6 Locator and SID Structure

NEW QUESTION # 118

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