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RUCKUS RCNI Exam Syllabus Topics:

Topic	Details
Topic 1	• ICX Solution Troubleshooting: RUCKUS ICX networking Engineers are expected to demonstrate troubleshooting skills in this section. It covers basic networking troubleshooting techniques and procedures for performing ICX switch recovery. Candidates should be able to identify and resolve common network issues in ICX environments.
Topic 2	• RUCKUS Products & Solutions: RUCKUS ICX networking Engineers are expected to showcase their knowledge of RUCKUS products and solutions in this section. It focuses primarily on the ICX product line, covering various switch models and their capabilities. Candidates should be familiar with the features, specifications, and use cases of different ICX switches.

Topic 3	• Foundational Networking Concepts: This section of the exam measures the skills of RUCKUS ICX Network Administrators and covers essential networking concepts. It includes VLAN design and configuration, STP and loop prevention protocols, PoE requirements, basic LAN concepts, Layer 3 routing configurations, and basic QoS concepts. Candidates should be able to demonstrate proficiency in designing VLANs for network segmentation.
Topic 4	• ICX Solution Implementation: This significant portion of the exam assesses the skills of RUCKUS ICX Network Administrators in implementing ICX solutions. It covers ICX software management, stacking capabilities, PoE configuration, Layer 2 • 3 protocols, and ICX services, IPv4 • IPv6 addressing on switch interfaces, ICX switch management methods, and configuring multicast and security features. Candidates should be able to demonstrate proficiency in configuring stacking for scalable network deployments.

RUCKUS Certified Networking Implementer Sample Questions (Q52-Q57):

NEW QUESTION # 52

Which three factors must be considered when ordering a replacement power supply for an ICX7650? (Choose three.)

- A. PoE vs non-PoE
- B. active vs passive cooling
- C. DC vs AC power
- D. 110 vs 220 volt
- E. airflow direction
- F. hotswap vs non-hotswap

Answer: A,C,D

NEW QUESTION # 53

ICX reserves some VLAN IDs for system functions. How many VLAN IDs are reserved?

- A. 0
- B. 1
- C. 2
- D. 3

Answer: C

Explanation:

In RUCKUS ICX switches, certain VLAN IDs are reserved for system functions and cannot be used for user-defined VLANs. Specifically, the following VLAN IDs are reserved:

- * VLAN 0: Reserved for priority tagging.
- * VLAN 1: Default VLAN for untagged frames.
- * VLAN 4095: Reserved and cannot be used.
- * VLAN 4094: Reserved and cannot be used.
- * VLAN 4093: Reserved and cannot be used.

This totals to 5 reserved VLAN IDs.

These reservations are standard across many networking devices to ensure proper network operations and to avoid conflicts with system-level processes. It's important to note that while VLAN 1 is the default VLAN, it can be reassigned if necessary, but caution should be exercised to avoid disrupting network management and control traffic.

For detailed information on VLAN configuration and reserved VLAN IDs on RUCKUS ICX switches, please refer to the RUCKUS FastIron Layer 2 Switching Configuration Guide:

- * FastIron Layer 2 Switching Configuration Guide

This guide provides comprehensive information on VLAN management, including details on reserved VLAN IDs and best practices for VLAN configuration on RUCKUS ICX switches.

NEW QUESTION # 54

Which two Power over Ethernet (PoE) features on the ICX will be enabled by the inline power poe-ha command? (Choose two.)

- A. PoE Overdrive
- B. power limit
- C. Perpetual PoE
- D. power priority
- E. Fast Boot

Answer: C,E

Explanation:

The inline power poe-ha command on RUCKUS ICX switches enables two key Power over Ethernet (PoE) features:

* Fast Boot PoE: This feature ensures that PoE power is delivered to connected devices immediately upon switch startup, without waiting for the entire system to boot up. This is crucial for devices that need to be operational as soon as possible, such as IP phones or security cameras. To enable Fast Boot PoE, enter interface configuration mode and execute the command:

inline power poe-ha

This command ensures that PoE is delivered promptly during the boot process.

* Perpetual PoE: This feature maintains PoE power to connected devices even when the switch undergoes a soft reboot or firmware upgrade. It ensures uninterrupted power delivery, preventing devices from losing power during such events. To enable Perpetual PoE, use the same command in interface configuration mode:

By configuring this command, the switch provides continuous PoE power during reboots.

For more detailed information on these features and their configuration, refer to the RUCKUS Community Forum post titled "Things to consider about PoE at a glance, when deploying." Ruckus Wireless Community

NEW QUESTION # 55

Which three objects can be assigned a Layer 3 address? (Choose three.)

- A. Stack Interface
- B. Virtual LAN
- C. Loopback
- D. Virtual Ethernet
- E. VxLAN
- F. GRE tunnels

Answer: A,C,F

Explanation:

* Layer 3 Address Assignment:

* Stack Interface (A): A stack interface is a virtual interface representing all members of a stack.

It can be assigned a Layer 3 IP address for management or routing purposes.

* Loopback (E): Loopback interfaces are virtual interfaces always "up" and used for routing, management, or stable endpoint addressing.

* GRE Tunnels (F): GRE tunnels operate at Layer 3 and require IP addresses for both endpoints to encapsulate and route traffic.

* Why Not Other Options?

* B. VxLAN: VxLAN operates at Layer 2 over Layer 3 and does not require direct IP address assignment to itself.

* C. Virtual LAN: VLANs are Layer 2 constructs; while they are associated with SVI (Switch Virtual Interfaces), they are not directly assigned an IP address.

* D. Virtual Ethernet: Virtual Ethernet interfaces are typically Layer 2 and used within virtualized environments, not directly assigned Layer 3 addresses.

References:

* ICX Routing Configuration Guide: RUCKUS Documentation

NEW QUESTION # 56

Which two commands can be used to display the IP address of a device attached to a switch port? (Choose two.)

- A. show interface
- B. show mac-address all
- C. show interface brief wide

- D. show lldp neighbor detail
- E. show arp

Answer: D,E

Explanation:

To determine the IP address of a device connected to a specific switch port on a RUCKUS ICX switch, the following commands can be utilized:

* show lldp neighbor detail

This command provides detailed information about devices connected via LLDP, including their IP addresses.

Command Usage:

show lldp neighbor detail

Output Example:

Local Port: 1/1/2

Neighbor MAC: 60d0.2c1c.1cd0

System Name: RuckusAP

Management Address: 192.168.0.3

In this example, the Management Address field displays the IP address of the connected device on port 1/1/2.

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* show arp

The Address Resolution Protocol (ARP) table maps IP addresses to MAC addresses. By examining the ARP table, you can identify the IP address associated with a device's MAC address.

Command Usage:

show arp

Output Example:

IP Address MAC Address Type Age Port

192.168.0.3 60d0.2c1c.1cd0 Dynamic 0 1/1/2

Here, the IP address 192.168.0.3 is associated with the MAC address 60d0.2c1c.1cd0 on port 1/1/2.

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Note: For the show lldp neighbor detail command to provide IP addresses, LLDP must be enabled on both the switch and the connected devices. Additionally, the devices should support LLDP and be configured to advertise their management addresses.

NEW QUESTION # 57

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