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RUCKUS RCNI Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">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 2	<ul style="list-style-type: none">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 3	<ul style="list-style-type: none"> • 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.
Topic 4	<ul style="list-style-type: none"> • 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.

RUCKUS Certified Networking Implementer Sample Questions (Q44-Q49):

NEW QUESTION # 44

Which command can be used to identify Cyclic Redundancy Check (CRC) errors on port Ethernet 1/1/1?

- A. show interfaces brief ethernet 1/1/1
- B. show mac-address ethernet 1/1/1
- C. show port security ethernet 1/1/1
- D. show statistics ethernet 1/1/1

Answer: D

Explanation:

* Locating CRC Errors:

* The show statistics ethernet [port] command provides detailed port statistics, including packet counts, errors, and specifically Cyclic Redundancy Check (CRC) errors.

* Why Other Commands Don't Work:

* B. show interfaces brief ethernet 1/1/1: This provides a summary of interface status but does not include detailed error information like CRC errors.

* C. show mac-address ethernet 1/1/1: This displays MAC address table entries for the specified port, unrelated to error statistics.

* D. show port security ethernet 1/1/1: This shows port security configurations and violations, not errors like CRC.

References:

* ICX Switch Command Reference: RUCKUS Documentation

NEW QUESTION # 45

For multicast clients to stop receiving traffic using a leave request, which protocol must run on the local subnet?

- A. IGMP Snooping
- B. **IGMPv2**
- C. IGMPv1
- D. PIM Dense

Answer: B

Explanation:

The Internet Group Management Protocol (IGMP) is used by IPv4 hosts and adjacent routers to establish multicast group memberships. Different versions of IGMP provide varying capabilities for managing these memberships.

IGMPv2 introduced the ability for hosts to send "leave group" messages when they wish to unsubscribe from a multicast group. This feature allows for more efficient management of multicast group memberships by enabling routers to promptly stop forwarding multicast traffic to subnets where there are no interested receivers.

When a host leaves a multicast group in an IGMPv2-enabled network, the following process occurs:

* Leave Message Sent: The host sends an IGMP leave message to the all-routers multicast address (224.0.0.2).

* Query by Router: Upon receiving the leave message, the router sends a group-specific query to determine if there are any remaining members of the multicast group on the local subnet.

* Group Membership Determination: If no hosts respond to the query within a specified time, the router concludes that there are no

remaining members and ceases forwarding multicast traffic for that group to the subnet. This mechanism reduces unnecessary multicast traffic and optimizes network performance. In contrast, IGMPv1 does not have a leave group message; routers must rely on a timeout period to determine the absence of group members, leading to increased leave latency. For more detailed information on IGMPv2 and its leave group mechanism, refer to the Cisco documentation on IGMP.

NEW QUESTION # 46

When running FastIron SPS08095e code, which step is required to define static routes?

- A. Change the ICX image version to SPR08095e.bin.
- B. Upgrade to version SPS08095h or later.
- C. Run the UFI code image for GZR08095h.
- D. **Install the L3-prem license.**

Answer: D

Explanation:

To define static routes on a device running FastIron SPS08095e code, it's essential to have the appropriate licensing in place.

* Understanding Licensing Requirements:

* RUCKUS ICX switches require specific licenses to enable advanced features.
* The "L3-prem" (Premium Layer 3) license unlocks advanced routing capabilities, including the ability to configure static routes.

* Verifying Current License Status:

* Access the switch's command-line interface (CLI).
* Execute the command `show license` to display the current licensing status.
* Check for the presence of the "L3-prem" license in the output.

* Installing the L3-prem License:

* If the "L3-prem" license is not installed, obtain it from RUCKUS Networks or an authorized distributor.
* Follow the official RUCKUS licensing guide for detailed installation instructions.

* Configuring Static Routes:

* Once the "L3-prem" license is active, enter global configuration mode by typing `configure terminal`.
* Use the `ip route` command to define static routes. For example: `ip route [destination_network] [subnet_mask] [next_hop_ip]`.
* After configuring, save the settings with the `write memory` command to ensure persistence across reboots.

References:

* For detailed information on licensing and feature sets, refer to the FastIron 08.0.95 (GA) Software Licensing Guide.

NEW QUESTION # 47

Which method is required to install a feature license on an ICX running FastIron 08.0.95?

- A. **TFTP**
- B. CLI
- C. USB
- D. FTP

Answer: A

NEW QUESTION # 48

In the following output, what is the bridge priority of the root in hex?

□

- A. 9c49
- **B. 0**
- C. 1
- D. 2

Answer: B

Explanation:

* Understanding Bridge Priority:

* The bridge priority in the Spanning Tree Protocol (STP) is represented in hexadecimal format in RUCKUS ICX switches.

* In the output, the bridge priority is a combination of the priority value (default is 32768 or

0x8000 in hex) and the VLAN ID.

* Why It Is 8000:

* Unless explicitly modified, the defa

* Why Other Options Don't Apply:

* B. 0: This value does not align with the default or modified priority values.

* C. 9c49: This might represent a different component of the output, * D. 20000: This is just a continuation of 21-111, which is

* D. 20009:

References:

* IGV Software Team. Configuration Guide. BUCKUS, D. 2014.

NEW QUESTION # 40

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