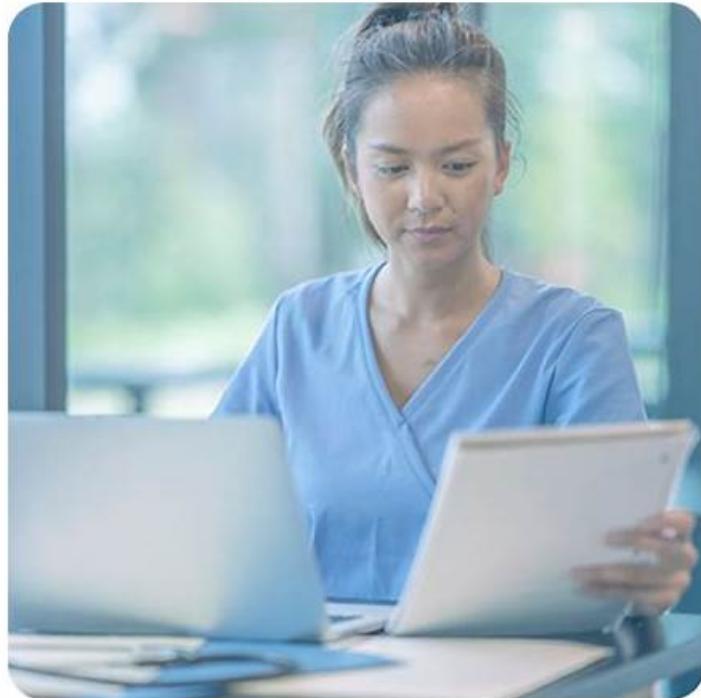


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## RUCKUS RCNI Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• 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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>• 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.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>• RUCKUS Products &amp; 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.</li></ul>

Topic 4	<ul style="list-style-type: none"> <li>• 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</li> <li>• 3 protocols, and ICX services, IPv4</li> <li>• 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.</li> </ul>
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## Make Exam Preparation Simple RUCKUS RCNI Exam Questions

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### RUCKUS Certified Networking Implementer Sample Questions (Q21-Q26):

#### NEW QUESTION # 21

The root bridge is connected to another switch over two independent 10Gbe links. Which link will remain in a forwarding state on both sides?

- A. the link with the lowest port number on the non-root switch
- B. the link with the highest port number on the non-root switch
- C. the link with the lowest port number on the root switch
- D. the link with the highest port number on the root switch

**Answer: C**

#### NEW QUESTION # 22

As an IP packet is routed across subnets, which value gets updated at each hop?

- A. source IP address
- B. destination IP address
- C. subnet mask
- D. destination MAC address

**Answer: D**

Explanation:

In network communications, when an IP packet traverses multiple subnets to reach its destination, certain header information is modified at each hop to facilitate proper routing and delivery.

\* Destination MAC Address:

\* Role: The Media Access Control (MAC) address is a hardware identifier used at the Data Link layer (Layer 2) of the OSI model.

\* Update Process:

\* As a packet moves from one router to the next, the destination MAC address is updated to reflect the MAC address of the next-hop device.

\* This ensures that the packet is correctly forwarded at the Data Link layer within each local network segment.

\* Explanation:

\* When a router forwards a packet, it encapsulates the IP packet within a new Ethernet frame.

\* The router sets the destination MAC address in this frame to the MAC address of the next-hop router or the final destination device if it is on the same local network.

\* This process repeats at each hop, with each router updating the destination MAC address to ensure proper Layer 2 delivery.

\* Other Header Fields:

\* Destination IP Address:

- \* Remains unchanged throughout the packet's journey, ensuring end-to-end delivery to the correct device.
- \* Source IP Address:
  - \* Also remains unchanged, identifying the original sender of the packet.
- \* Subnet Mask:
  - \* Not a field within the packet header; it is used by routers to determine the network portion of an IP address but is not transmitted with the packet.
- References:
  - \* For a detailed understanding of how routers handle packet forwarding and the role of MAC addresses in this process, refer to the RUCKUS ICX Switch Configuration Guide, which provides insights into Layer 2 and Layer 3 forwarding mechanisms.

### NEW QUESTION # 23

Which ICX model has eight integrated QSFP28 ports?

- A. ICX7550-48F
- B. ICX7750-48F
- C. **ICX7650-48F**
- D. ICX7850-48F

**Answer: C**

### NEW QUESTION # 24

As an IP packet is routed across subnets, which value gets updated at each hop?

- A. source IP address
- B. destination IP address
- C. subnet mask
- D. **destination MAC address**

**Answer: D**

### NEW QUESTION # 25

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

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

**Answer: B**

### NEW QUESTION # 26

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