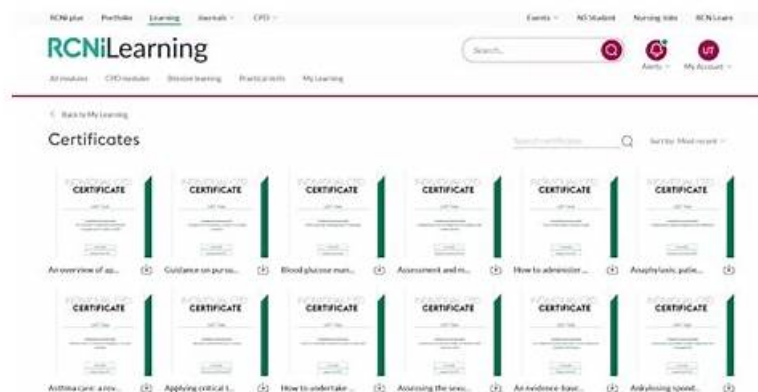# RCNI Reliable Study Materials - New RCNI Exam Format

Whereas the other two Pass4guide RCNI exam questions formats are concerned, both are customizable practice tests, provide real time environment, track your progress, and help you overcome mistakes. The desktop RUCKUS RCNI Practice Test software is compatible with Windows computers. The web based practice exam is supported by all browsers and operating systems.

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	• 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	• 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.

>> RCNI Reliable Study Materials <<

New RUCKUS RCNI Exam Format - New RCNI Test Objectives

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they will be sure to pass the RCNI test with few failure odds.

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

NEW QUESTION # 21
What is the maximum distance between ICX devices in a stack?

- A. 1 kilometer
- B. 3 meters
- C. 40 kilometers
- D. 9 meters

Answer: C

Explanation:
RUCKUS ICX switches support stacking over both copper and fiber connections, allowing for flexible deployment across various distances:
* Copper Stacking Cables:
* Maximum Distance:
* Up to 5 meters using active direct-attach copper (DAC) cables.
* Use Case:
* Suitable for stacking switches within the same rack or in close proximity.
* Fiber-Optic Stacking Cables:
* Maximum Distance:
* Up to 40 kilometers using appropriate optical transceivers and single-mode fiber.
* Use Case:
* Ideal for stacking switches located in different buildings or across a campus environment.
References:
* For detailed information on stacking distances and supported optics, refer to the FastIron stacking distances and optics guide:
FastIron stacking distances and optics by device By utilizing fiber-optic connections with appropriate transceivers, ICX switches can be stacked over substantial distances, providing flexibility in network design and deployment.

NEW QUESTION # 22
Review the following configuration.

A RADIUS server is connected and working. However, a switch technician has forgotten the RADIUS username/password for the ICX. When RADIUS is not functioning, they expect to be able to plug into the console port and use the local username/password as a backup.
The ICX does not accept the local password.
Why can't the technician log in?

- A. Based on the AAA login command, local should be in front of radius for correct backup operation.
- B. Local username/password is only used for SSH and web access.
- C. Based on the AAA login command, local password will only be used if the RADIUS server is unavailable.
- D. The AAA web-server configuration is missing the radius keyword.

Answer: C

Explanation:
* Understanding the Configuration:
* The command aaa authentication login default radius local specifies that the switch will attempt RADIUS authentication first. If the RADIUS server is unavailable, it will fallback to the local username/password.
* If the RADIUS server is operational, the local credentials will not be accepted, even over the console port.
* Why Can't the Technician Log In?
* The local username/password will only work if the RADIUS server is unreachable. In this scenario, the RADIUS server is functional, so the switch continues to authenticate through it and does not fall back to the local credentials.
* This behavior is by design, as dictated by the configuration.
* Solution:
* If access to the console port using local credentials is a critical requirement, consider adjusting the configuration to prioritize local credentials. For example, use:
aaa authentication login default local radius

This configuration ensures that local credentials are tried first, with RADIUS as a secondary option.
References:
* ICX Switch Command Reference Guide (AAA Configuration Section): RUCKUS Support

NEW QUESTION # 23
Which function is performed by ARP protocol?

- A. build and maintain switch MAC tables
- B. resolve host name
- C. discover directly connected neighbors
- D. resolve IP address to MAC address

Answer: D

Explanation:
The Address Resolution Protocol (ARP) is a fundamental protocol used in IP networking to map a device's IP address to its corresponding Media Access Control (MAC) address. This mapping is essential for enabling communication within a local network segment.
How ARP Works:
* ARP Request:
* When a device (Host A) needs to communicate with another device (Host B) on the same local network, it checks its ARP cache to see if it already has Host B's MAC address corresponding to its IP address.
* If the MAC address is not in the cache, Host A broadcasts an ARP request packet to all devices on the local network. This packet includes Host B's IP address and requests the MAC address associated with that IP.
* ARP Reply:
* Upon receiving the ARP request, the device with the matching IP address (Host B) responds with an ARP reply. This reply is sent directly to Host A and contains Host B's MAC address.
* Updating ARP Cache:
* Host A receives the ARP reply and updates its ARP cache with the new IP-to-MAC address mapping. This cached information allows for efficient communication without the need for repeated ARP requests.
Key Functions of ARP:
* IP to MAC Address Resolution:
* ARP's primary function is to resolve IP addresses to MAC addresses, enabling devices to locate each other on the same local network segment.
* Facilitating Data Link Layer Communication:
* By providing the necessary MAC address, ARP allows data packets to be correctly addressed and transmitted over the network's data link layer.
Clarifications on Other Options:
* Option B: Discover directly connected neighbors
* This function is typically performed by protocols like the Neighbor Discovery Protocol (NDP) in IPv6 or by network discovery tools, not by ARP.
* Option C: Build and maintain switch MAC tables
* Switches build and maintain MAC address tables by observing the source MAC addresses of incoming frames, a process independent of ARP.
* Option D: Resolve host name
* Resolving hostnames to IP addresses is the function of the Domain Name System (DNS), not ARP.
References:
* Understanding ARP (Address Resolution Protocol)
* How ARP Works

NEW QUESTION # 24
Which ICX model can run silently in fanless mode?

- A. ICX7150-48PF
- B. ICX7150-48P
- C. ICX7550-24P
- D. ICX7150-48ZP

Answer: B

NEW QUESTION # 25

Why is the following command failing?
RKUS-01(config)#vlan 1
RKUS-01(config-vlan-1)#tagged ethernet 1/2/1
Invalid input -> tagged ethernet 1/2/1
Type ? for a list

- A. The default VLAN cannot be tagged to any interfaces.
- B. A Virtual Ethernet interface must be defined before a tagged port can be added.
- C. VLAN 1 must be configured as a protocol-based VLAN before tagged ports can be added.
- D. This model ICX does not have an interface Ethernet 1/2/1.

Answer: A

Explanation:
In RUCKUS ICX switches, VLAN 1 is the default VLAN and is typically used for management purposes. By default, all ports are members of VLAN 1 as untagged. Attempting to configure VLAN 1 as tagged on a port can result in an error, as the system restricts tagging the default VLAN.
Understanding the Error:
RKUS-01(config)# vlan 1
RKUS-01(config-vlan-1)# tagged ethernet 1/2/1
Invalid input -> tagged ethernet 1/2/1
Type ? for a list
This error occurs because the switch does not allow tagging of the default VLAN (VLAN 1) on any interface.
Resolution:
* Option 1: Use a Different VLAN for Tagging
* Create a new VLAN (e.g., VLAN 2) and configure it as tagged on the desired port.
RKUS-01(config)# vlan 2
RKUS-01(config-vlan-2)# tagged ethernet 1/2/1
* Option 2: Change the Default VLAN ID
* If you must use VLAN 1 as tagged, you can change the default VLAN ID to another VLAN (e.g., VLAN 2), allowing VLAN 1 to be configured as tagged.
RKUS-01(config)# default-vlan-id 2
RKUS-01(config)# vlan 1
RKUS-01(config-vlan-1)# tagged ethernet 1/2/1

NEW QUESTION # 26

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