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RUCKUS RCNI Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 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.

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RUCKUS Certified Networking Implementer Sample Questions (Q48-Q53):

NEW QUESTION # 48

What is the highest Power over Ethernet (PoE) power class supported by 802.3bt?

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

Answer: C

NEW QUESTION # 49

Which two statements are true when Dynamic Host Configuration Protocol (DHCP) Snooping is enabled? (Choose two.)

- A. All interfaces are trusted by default.
- B. DHCP snooping must be enabled per VLAN.
- C. DHCP snooping must be enabled per interface.
- D. DHCP server interfaces should be trusted.
- E. DHCP snooping must be enabled globally.

Answer: D,E

Explanation:

Dynamic Host Configuration Protocol (DHCP) Snooping is a security feature that acts as a firewall between untrusted hosts and trusted DHCP servers. It helps prevent malicious or malformed DHCP traffic by monitoring DHCP messages and filtering untrusted sources.

When configuring DHCP Snooping on RUCKUS ICX switches, consider the following:

* Global Enablement: DHCP Snooping must be enabled globally on the switch to activate the feature across the device. This is done using the following command in global configuration mode:

```
ip dhcp snooping
```

* Trusted Interfaces: Interfaces connected to legitimate DHCP servers should be configured as trusted to allow DHCP server messages to pass through. This is configured per interface:

```
interface ethernet 1/1/1
```

```
ip dhcp snooping trust
```

Replace 1/1/1 with the appropriate interface identifier.

* VLAN Configuration: DHCP Snooping must be enabled on specific VLANs where DHCP services are required. This ensures that DHCP messages are monitored within those VLANs:

NEW QUESTION # 50

When using zero-touch stacking, which two prerequisites must be in place to ensure all devices join the stack?

(Choose two.)

- A. issue stack disable on intended member devices
- B. enable stacking on all devices
- C. configure each unit's management IP, VLANs, and tagging
- D. ensure units have clean configurations
- E. enable stacking on the active controller

Answer: B,D

Explanation:

Zero-touch stacking simplifies the process of forming a stack by automating the configuration. To ensure all devices join the stack seamlessly, the following prerequisites must be met:

* Enable Stacking on All Devices:

* Access each switch's CLI.

* Enter global configuration mode: configure terminal.

* Enable stacking by executing: stack enable.

* Save the configuration with: write memory.

* Ensure Units Have Clean Configurations:

* It's crucial that switches have default configurations to prevent conflicts during the stacking process.

* To reset a switch to its default settings:

* Enter global configuration mode: configure terminal.

* Execute the command: write erase.

* Reload the switch to apply the default configuration: reload.

* Additional Considerations:

* Ensure all switches are running compatible firmware versions to prevent software mismatches.

* Verify that stacking cables are correctly connected to facilitate proper communication between units.

References:

* For a comprehensive guide on building an ICX stack using zero-touch provisioning, consult the RUCKUS Community Forums.

NEW QUESTION # 51

Which two commands display Power over Ethernet (PoE) power budget? (Choose two.)

- A. show inline power detail
- B. show inline power
- C. show chassis
- D. show version
- E. show configuration

Answer: A,B

Explanation:

To monitor and manage the PoE power budget on RUCKUS ICX switches, the following commands are utilized:

* show inline power Command:

* Purpose: Displays a summary of the PoE status, including total power capacity, power consumption, and available power.

* Usage:

* Access the switch's command-line interface (CLI).

* Enter the command:

plaintext

Copy code

```
show inline power
```

* Output Details:

* Power Capacity: Total PoE power available on the switch.

* Power Allocations: Power consumption per port, indicating which ports are supplying power to connected devices.

* Example Output:

plaintext

Copy code

```
Power Capacity: Total is 124000 mWatts. Current Free is 64000 mWatts.
```

```
Power Allocations: Requests Honored 8 times
```

```
Port Admin Oper ---Power (mWatts)--- PD Type PD Class Pri Fault/
```

```
State State Consumed Allocated Error
```

```
-----  
1/1/1 On On 4733 30000 2P-IEEE Class 4 3 n/a
```

```
1/1/2 On Off 6015 30000 2P-IEEE Class 4 3 n/a
```

```
(additional ports)
```

NEW QUESTION # 52

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 # 53

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