

Quiz JN0-214 - Newest Cloud, Associate (JNCIA-Cloud) Real Testing Environment



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Juniper JN0-214 Exam Syllabus Topics:

Topic	Details
Topic 1	• Network Functions Virtualization: This section of the exam measures the skills of Virtualization Specialists and covers the core principles of NFV. Candidates will be tested on NFV architecture, orchestration, and Virtual Network Functions (VNFs), which are crucial for creating scalable and flexible network infrastructures. Understanding NFV helps optimize network performance and reduce dependency on hardware-based solutions. One skill assessed is the ability to explain NFV's role in modern network management.
Topic 2	• Cloud Orchestration with OpenShift: This section of the exam measures the skills of DevOps Engineers and focuses on OpenShift-based orchestration. Candidates must understand how to create, manage, and monitor workloads using OpenShift, as well as navigate the OpenShift CLI and WebUI. The exam also tests knowledge of node types and different network configurations. One skill assessed is managing OpenShift workloads in a production environment.
Topic 3	• Cloud Orchestration with Kubernetes: This section of the exam measures the skills of Kubernetes Administrators and tests their knowledge of container orchestration. Candidates must demonstrate proficiency in creating and managing Kubernetes containers, working with API objects such as Pods, ReplicaSets, Deployments, and Services, and configuring namespaces and CNI plugins. One key skill assessed is deploying and scaling Kubernetes applications effectively.

Topic 4	• Network Virtualization: This section of the exam measures the skills of Cloud Network Architects and evaluates the principles of network virtualization. Candidates must understand different types of virtual networks, as well as underlay and overlay network configurations. The exam also covers encapsulation and tunneling technologies such as MPLS over GRE, VXLAN, and GENEVE. One skill assessed is the ability to differentiate between underlay and overlay networks in cloud environments.
Topic 5	• Software-Defined Networking: This section of the exam measures the skills of Network Automation Engineers and focuses on SDN concepts, including its architecture, controllers, and solutions. Candidates must understand how SDN separates the control plane from the data plane to improve network agility and automation. The exam also evaluates knowledge of SDN's role in modern cloud environments. One key skill assessed is identifying SDN components and their functions.
Topic 6	• Cloud Orchestration with OpenStack: This section of the exam measures the skills of Cloud Operations Engineers and evaluates expertise in OpenStack-based orchestration. Candidates must understand how to create and manage virtual machines in OpenStack, use HEAT templates for automation, and navigate OpenStack interfaces. The exam also covers OpenStack networking plugins and security groups. One skill assessed is automating cloud deployments using HEAT templates.
Topic 7	• Cloud Virtualization: This section of the exam measures the skills of Linux System Administrators and covers Linux-based virtualization technologies. Candidates must understand Linux architecture, hypervisors (Type 1 & 2), and KVM • QEMU operations. The exam also includes creating virtual machines and managing Linux virtualization environments. One skill assessed is setting up and managing Linux-based virtual machines effectively.

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Juniper Cloud, Associate (JNCIA-Cloud) Sample Questions (Q36-Q41):

NEW QUESTION # 36

Which component of a software-defined networking (SDN) controller defines where data packets are forwarded by a network device?

- A. the operational plane
- B. the control plane
- C. the management plane
- **D. the forwarding plane**

Answer: D

Explanation:

The forwarding plane (also known as the data plane) of a software-defined networking (SDN) controller is responsible for forwarding data packets based on the instructions given by the control plane. It handles all activities involving data packets sent by the end-user, including forwarding of packets.

NEW QUESTION # 37

You just uploaded a qcow2 image of a vSRX virtual machine in OpenStack. In this scenario, which service stores the virtual machine (VM) image?

- A. ironic

- B. Neutron
- C. Nova
- D. Glance

Answer: D

Explanation:

The service that stores the virtual machine (VM) image in OpenStack is Glance. Glance is the image service in OpenStack that allows you to discover, register, retrieve, and store virtual machine images.

NEW QUESTION # 38

Which two statements are correct about containers? (Choose two.)

- A. Containers include the entire operating system.
- B. Containers require an underlying operating system.
- C. Containers have faster boot times than VMs. www*
- D. Containers reduce deployment efficiency.

Answer: B,C

Explanation:

Containers are lightweight because they don't need the extra load of a hypervisor, but run directly within the host machine's kernel. This means they start up almost instantly and use less RAM.

Images are constructed from layered filesystems and share common files, making disk usage and image downloads much more efficient. Containers are isolated from each other and the host system. They have their own filesystem and networking, and can be constrained to not allow root access outside the container. They run on top of a host operating system.

NEW QUESTION # 39

Which two statements are correct about OpenShift monitoring? (Choose two.)

- A. OpenShift monitoring is not compatible with Grafana.
- B. OpenShift is not able to configure customized alerts.
- C. OpenShift has its own monitoring framework.
- D. OpenShift is able to configure customized alerts.

Answer: C,D

Explanation:

OpenShift includes a preconfigured, preinstalled, and self-updating monitoring stack that provides monitoring for core platform components. You also have the option to enable monitoring for user-defined projects. This means OpenShift has its own monitoring framework (C) and is able to configure customized alerts (D).

NEW QUESTION # 40

Which type of virtualization provides containerization and uses a microservices architecture?

- A. OS-level virtualization
- B. hardware-assisted virtualization
- C. paravirtualization
- D. full virtualization

Answer: A

Explanation:

Virtualization technologies enable the creation of isolated environments for running applications or services. Let's analyze each option:

A. hardware-assisted virtualization

Incorrect: Hardware-assisted virtualization (e.g., Intel VT-x, AMD-V) provides support for running full virtual machines (VMs) on physical hardware. It is not related to containerization or microservices architecture.

B . OS-level virtualization

Correct: OS-level virtualization enables containerization , where multiple isolated user-space instances (containers) run on a single operating system kernel. Containers are lightweight and share the host OS kernel, making them ideal for microservices architectures. Examples include Docker and Kubernetes.

C . full virtualization

Incorrect: Full virtualization involves running a complete guest operating system on top of a hypervisor (e.g., VMware ESXi, KVM). While it provides strong isolation, it is not as lightweight or efficient as containerization for microservices.

D . paravirtualization

Incorrect: Paravirtualization involves modifying the guest operating system to communicate directly with the hypervisor. Like full virtualization, it is used for running VMs, not containers.

Why OS-Level Virtualization?

Containerization: OS-level virtualization creates isolated environments (containers) that share the host OS kernel but have their own file systems, libraries, and configurations.

Microservices Architecture: Containers are well-suited for deploying microservices because they are lightweight, portable, and scalable.

JNCIA Cloud Reference:

The JNCIA-Cloud certification emphasizes understanding virtualization technologies, including OS-level virtualization.

Containerization is a key component of modern cloud-native architectures, enabling efficient deployment of microservices.

For example, Juniper Contrail integrates with Kubernetes to manage containerized workloads in cloud environments. OS-level virtualization is fundamental to this integration.

Reference:

Docker Documentation: Containerization

Juniper JNCIA-Cloud Study Guide: Virtualization

NEW QUESTION # 41

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