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Juniper JN0-214 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• 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.
Topic 2	<ul style="list-style-type: none">• Cloud Fundamentals: This section of the exam measures the skills of Cloud Infrastructure Engineers and covers the fundamental concepts of cloud networking. Candidates must understand different deployment models such as public, private, and hybrid cloud, as well as service models such as SaaS, IaaS, and PaaS. The exam also tests knowledge of cloud-native architectures, automation tools, and infrastructure technologies, including Network Functions Virtualization (NFV) and Software-Defined Networking (SDN). One key skill assessed is identifying appropriate cloud deployment models for different business needs.
Topic 3	<ul style="list-style-type: none">• 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 4	<ul style="list-style-type: none">• 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 5	<ul style="list-style-type: none"> • Linux Containers: This section of the exam measures the skills of Containerization Specialists and covers the concepts of Linux containers. Candidates must understand the differences between virtual machines and containers, as well as container components. The exam tests the ability to create and manage containers using Docker. One key skill assessed is deploying and managing containers efficiently.
Topic 6	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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.

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Juniper Cloud, Associate (JNCIA-Cloud) Sample Questions (Q15-Q20):

NEW QUESTION # 15

Which cloud automation tool uses YAML playbooks to install software and tools on servers?

- A. Python
- B. Terraform
- C. Heat
- **D. Ansible**

Answer: D

Explanation:

According to the Ansible documentation⁴, Ansible playbooks are "automation blueprints, in YAML format, that Ansible uses to deploy and configure nodes in an inventory". Other cloud automation tools that are mentioned in the question are Terraform, which uses HCL (HashiCorp Configuration Language) or JSON files to provision infrastructure resources; Python, which is a general-purpose programming language that can be used for various automation tasks; and Heat, which is an orchestration service for OpenStack that uses HOT (Heat Orchestration Template) or CFN (AWS CloudFormation) formats to describe stacks of cloud resources.

NEW QUESTION # 16

You are provisioning workloads on worker nodes in a Kubernetes cluster.

Which CN2 component is responsible for generating associated routes?

- A. Contrail kube-manager
- B. vRouter forwarding plane
- **C. vRouter agent microservice**
- D. Configuration Resource (CR) controllers

Answer: C

Explanation:

The vRouter agent microservice is the CN2 component responsible for generating associated routes. When a pod is scheduled on a node, the vRouter agent on that node programs the necessary routes in the kernel routing table to ensure that traffic destined for that pod is properly routed.

NEW QUESTION # 17

Which two statements are correct about Kubernetes resources? (Choose two.)

- A. A ClusterIP type service can only be accessed within a Kubernetes cluster.
- B. A daemonSet ensures that a replica of a pod is running on all nodes.
- C. NodePort service exposes the service externally by using a cloud provider load balancer.
- D. A deploymentConfig is a Kubernetes resource.

Answer: A,B

Explanation:

Incorrect:

A NodePort service exposes the service on a static port on each node in the cluster, allowing external access via the node's IP address and the assigned port. However, it does not use a cloud provider load balancer. The LoadBalancer service type is the one that leverages cloud provider load balancers for external access.

Why These Statements?

ClusterIP: Ensures internal-only communication, making it suitable for backend services that do not need external exposure.

DaemonSet: Guarantees that a specific pod runs on all nodes, ensuring consistent functionality across the cluster.

JNCIA Cloud Reference:

The JNCIA-Cloud certification covers Kubernetes resources and their functionalities, including services, DaemonSets, and Deployments. Understanding these concepts is essential for managing Kubernetes clusters effectively.

For example, Juniper Contrail integrates with Kubernetes to provide advanced networking features for services and DaemonSets, ensuring seamless operation of distributed applications.

Explanation:

Kubernetes resources are the building blocks of Kubernetes clusters, enabling the deployment and management of applications.

Let's analyze each statement:

A . A ClusterIP type service can only be accessed within a Kubernetes cluster.

Correct:

A ClusterIP service is the default type of Kubernetes service. It exposes the service internally within the cluster, assigning it a virtual IP address that is accessible only to other pods or services within the same cluster. External access is not possible with this service type.

B . A daemonSet ensures that a replica of a pod is running on all nodes.

Correct:

A daemonSet ensures that a copy of a specific pod is running on every node in the cluster (or a subset of nodes if specified). This is commonly used for system-level tasks like logging agents or monitoring tools that need to run on all nodes.

C . A deploymentConfig is a Kubernetes resource.

Incorrect:

deploymentConfig is a concept specific to OpenShift, not standard Kubernetes. In Kubernetes, the equivalent resource is called a Deployment , which manages the desired state of pods and ReplicaSets.

Reference:

Kubernetes Documentation: Services, DaemonSets, and Deployments

Juniper JNCIA-Cloud Study Guide: Kubernetes Resources

NEW QUESTION # 18

Which two statements are true about virtual networks? (Choose two.)

- A. Virtual networks are available on common Linux distributions.
- B. Virtual networks are limited to a single device.
- C. Virtual networks are available only as part of a cloud orchestration system.
- D. Virtual networks are able to span multiple devices.

Answer: A,D

Explanation:

Virtual networks are logical networks that are decoupled from the underlying network hardware.

This decoupling allows network administrators to manage their networks independently of the physical network topology. As such, virtual networks can span multiple devices, allowing for a high degree of flexibility and scalability. Furthermore, virtual networks are available on common Linux distributions, allowing for easy deployment and management.

NEW QUESTION # 19

The Kubernetes object definition file is in which format?

- A. HTML
- **B. YAML**
- C. IXML
- D. TXT

Answer: B

Explanation:

The Kubernetes object definition file is in YAML format. Kubernetes objects are represented in the Kubernetes API, and you can express them in .yaml format. You can execute `kubectl get deployment <deployment-name> -o yaml` to get the deployment definition in a yaml format.

NEW QUESTION # 20

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