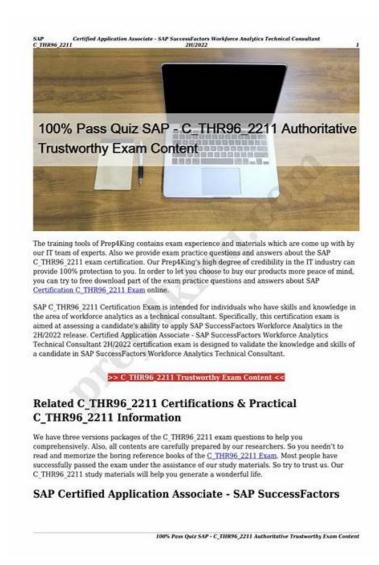
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# Juniper Cloud, Associate (JNCIA-Cloud) Sample Questions (Q48-Q53):

#### **NEW OUESTION #48**

Click the Exhibit button.

```
web-service.yaml
---
apiVersion: v1
kind: Service
metadata:
name: web-service
spec:
type: NodePort
selector:
app: web-app
ports:
- protocol: tcp
port: 8080
targetPort: 5000
nodePort: 31000
```

Referring to the exhibit, which port number would external users use to access the WEB application?

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

## Answer: A

# Explanation:

The YAML file provided in the exhibit defines a Kubernetes Service object of type NodePort. Let's break down the key components of the configuration and analyze how external users access the WEB application:

Key Fields in the YAML File:

type: NodePort:

This specifies that the service is exposed on a static port on each node in the cluster. External users can access the service using the node's IP address and the assigned nodePort.

port: 8080:

This is the port on which the service is exposed internally within the Kubernetes cluster. Other services or pods within the cluster can communicate with this service using port 8080.

targetPort: 5000:

This is the port on which the actual application (WEB application) is running inside the pod. The service forwards traffic from port: 8080 to targetPort: 5000.

nodePort: 31000:

This is the port on the node (host machine) where the service is exposed externally. External users will use this port to access the WEB application.

How External Users Access the WEB Application:

External users access the WEB application using the node's IP address and the nodePort value (31000).

The Kubernetes service listens on this port and forwards incoming traffic to the appropriate pods running the WEB application. Why Not Other Options?

A . 80: Port 80 is commonly used for HTTP traffic, but it is not specified in the YAML file. The service does not expose port 80 externally.

B. 8080: Port 8080 is the internal port used within the Kubernetes cluster. It is not the port exposed to external users.

D . 5000: Port 5000 is the target port where the application runs inside the pod. It is not directly accessible to external users. Why 31000?

NodePort Service Type: The NodePort service type exposes the application on a high-numbered port (default range: 30000-32767) on each node in the cluster.

External Accessibility: External users must use the nodePort value (31000) along with the node's IP address to access the WEB application.

JNCIA Cloud Reference:

The JNCIA-Cloud certification covers Kubernetes networking concepts, including service types like ClusterIP, NodePort, and LoadBalancer. Understanding how NodePort services work is essential for exposing applications to external users in Kubernetes environments.

For example, Juniper Contrail integrates with Kubernetes to provide advanced networking features, such as load balancing and network segmentation, for services like the one described in the exhibit.

Reference:

Kubernetes Documentation: Service Types

Juniper JNCIA-Cloud Study Guide: Kubernetes Networking

#### **NEW QUESTION #49**

Which two statements are correct about cloud computing? (Choose two.)

- A. Cloud computing eliminates operating expenses.
- B. Cloud computing allows access to data any time from any location through the Internet.
- C. Cloud computing has the ability to scale elastically
- D. Cloud computing increases the physical control of the data resources.

#### Answer: B,C

#### Explanation:

Cloud computing is a model for delivering IT services where resources are provided over the internet on-demand. Let's analyze each statement:

A. Cloud computing eliminates operating expenses.

Incorrect: While cloud computing can reduce certain operating expenses (e.g., hardware procurement, maintenance), it does not eliminate them entirely. Organizations still incur costs such as subscription fees, data transfer charges, and operational management of cloud resources. Additionally, there may be costs associated with training staff or migrating workloads to the cloud.

B. Cloud computing has the ability to scale elastically.

Correct: Elasticity is one of the key characteristics of cloud computing. It allows resources (e.g., compute, storage, networking) to scale up or down automatically based on demand. For example, during peak usage, additional virtual machines or storage can be provisioned dynamically, and when demand decreases, these resources can be scaled back. This ensures efficient resource utilization and cost optimization.

C. Cloud computing increases the physical control of the data resources.

Incorrect: Cloud computing typically reduces physical control over data resources because the infrastructure is managed by the cloud provider. For example, in public cloud models, the customer does not have direct access to the physical servers or data centers. Instead, they rely on the provider's security and compliance measures.

D. Cloud computing allows access to data any time from any location through the Internet.

Correct: One of the core advantages of cloud computing is ubiquitous access. Users can access applications, services, and data from anywhere with an internet connection. This is particularly beneficial for remote work, collaboration, and global business operations.

JNCIA Cloud Reference:

The Juniper Networks Certified Associate - Cloud (JNCIA-Cloud) curriculum highlights the key characteristics of cloud computing, including elasticity, scalability, and ubiquitous access. These principles are foundational to understanding how cloud environments operate and how they differ from traditional on-premises solutions.

For example, Juniper Contrail, a software-defined networking (SDN) solution, leverages cloud elasticity to dynamically provision and manage network resources in response to changing demands. Similarly, the ability to access cloud resources remotely aligns with Juniper's focus on enabling flexible and scalable cloud architectures.

Reference:

NIST Definition of Cloud Computing

Juniper JNCIA-Cloud Study Guide: Cloud Characteristics

## **NEW QUESTION #50**

What are two reasons to create a Kubernetes deployment rather than work with pods directly? (Choose two.)

- A. A deployment is ephemeral and therefore requires less configuration.
- B. A deployment contains imperative instructions on how to re-create a pod if a pod dies unexpectedly.
- C. A deployment ensures that the desired number of pods is running at all times.
- D. A deployment simplifies pod updates and roll-outs.

#### Answer: C,D

#### Explanation:

A Kubernetes deployment is a resource object in Kubernetes that provides declarative updates to applications. It allows you to describe an application's life cycle, such as which images to use for the app, the number of pods there should be, and the way in which they should be updated. Two reasons to create a Kubernetes deployment rather than work with pods directly are:

A deployment ensures that the desired number of pods is running at all times. If a pod crashes, the Deployment will automatically recreate it.

A deployment simplifies pod updates and roll-outs. It allows you to describe a desired state in its specification and the Deployment controller changes the actual state to the desired state at a controlled rate.

#### **NEW QUESTION #51**

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

#### Answer: C

## 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 #52**

Which Linux protection ring is the least privileged?

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

## Answer: B

# Explanation:

In Linux systems, the concept of protection rings is used to define levels of privilege for executing processes and accessing system resources. These rings are part of the CPU's architecture and provide a mechanism for enforcing security boundaries between different parts of the operating system and user applications. There are typically four rings in the x86 architecture, numbered from 0 to 3:

Ring 0 (Most Privileged): This is the highest level of privilege, reserved for the kernel and critical system functions. The operating system kernel operates in this ring because it needs unrestricted access to hardware resources and control over the entire system. Ring 1 and Ring 2: These intermediate rings are rarely used in modern operating systems. They can be utilized for device drivers or other specialized purposes, but most operating systems, including Linux, do not use these rings extensively.

Ring 3 (Least Privileged): This is the least privileged ring, where user-level applications run. Applications running in Ring 3 have limited access to system resources and must request services from the kernel (which runs in Ring 0) via system calls. This ensures that untrusted or malicious code cannot directly interfere with the core system operations.

Why Ring 3 is the Least Privileged:

Isolation: User applications are isolated from the core system functions to prevent accidental or intentional damage to the system.

Security: By restricting access to hardware and sensitive system resources, the risk of vulnerabilities or exploits is minimized. Stability: Running applications in Ring 3 ensures that even if an application crashes or behaves unexpectedly, it does not destabilize the entire system.

JNCIA Cloud Reference:

The Juniper Networks Certified Associate - Cloud (JNCIA-Cloud) curriculum emphasizes understanding virtualization, cloud architectures, and the underlying technologies that support them. While the JNCIA-Cloud certification focuses more on Juniperspecific technologies like Contrail, it also covers foundational concepts such as virtualization, Linux, and cloud infrastructure. In the context of virtualization and cloud environments, understanding the role of protection rings is important because: Hypervisors often run in Ring 0 to manage virtual machines (VMs).

VMs themselves run in a less privileged ring (e.g., Ring 3) to ensure isolation between the guest operating systems and the host system.

For example, in a virtualized environment like Juniper Contrail, the hypervisor (e.g., KVM) manages the execution of VMs. The hypervisor operates in Ring 0, while the guest OS and applications within the VM operate in Ring 3. This separation ensures that the VMs are securely isolated from each other and from the host system.

Thus, the least privileged Linux protection ring is Ring 3, where user applications execute with restricted access to system resources. Reference:

Juniper JNCIA-Cloud Study Guide: Virtualization Basics x86 Architecture Protection Rings Documentation

## **NEW QUESTION #53**

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