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Question 1

Question Type: MultipleChoice

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

Options:

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

Answer:

B

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.

Question 2

Question Type: MultipleChoice

What are the two characteristics of the Network Functions Virtualization (NFV) framework? (Choose two.)

Options:

- A- It decouples the network control plane from the forwarding plane.
- B- It implements virtualized tunnel endpoints.
- C- It implements virtualized network functions
- D- It decouples the network software from the hardware.

Answer:

C, D

Explanation:

The two characteristics of the Network Functions Virtualization (NFV) framework are that it implements virtualized network functions (VNFs) and that it decouples the network software from the hardware. According to the NFV overview by VMware3, NFV is "designed to deliver the network services needed to support an infrastructure totally independent from hardware by decoupling network functions from proprietary purpose-built hardware appliances" and that "the software that provides these network services are known as virtual network functions (VNFs) and run on generic hardware". Other characteristics that are mentioned in the question are related to Software Defined Networking (SDN), not NFV. SDN separates the network control plane from the forwarding plane and implements virtualized tunnel endpoints.

Question 3

Question Type: MultipleChoice

In the CN2 architecture, which component integrates with the orchestrator to listen for changes and take action on any events affecting network resources?

Options:

A- cni.bin

- B- kube-apiserver
- C- contrail-vrouter-agent
- D- contrail-k8s-kubemanager

Answer:

D

Explanation:

contrail-k8s-kubemanager is the component in the CN2 architecture that integrates with the orchestrator (such as Kubernetes or OpenShift) to listen for changes and take action on any events affecting network resources. According to the CN2 components documentation², contrail-k8s-kubemanager is "the interface between Kubernetes resources and Contrail resources" that "watches the kube-apiserver for changes to regular Kubernetes resources such as service and namespace and acts on any changes that affect the networking resources". Other components in the CN2 architecture are contrail-k8s-apiserver², which is an aggregated API server that manages all Contrail resources; cni.bin, which is a binary file that implements the Container Network Interface (CNI) specification for CN2; and contrail-vrouter-agent, which is a pod that runs on every node and communicates with the CN2 control plane to program the data plane.

Question 4

Question Type: MultipleChoice

Your organization has legacy virtual machine workloads that need to be managed within a Kubernetes deployment.

Which Kubernetes add-on would be used to satisfy this requirement?

Options:

- A- Canal
- B- ADOT
- C- KubeVirt
- D- Romana

Answer:

C

Explanation:

KubeVirt is a Kubernetes add-on that allows you to run and manage legacy virtual machine workloads alongside container workloads within a Kubernetes deployment. According to the KubeVirt website, KubeVirt is "a virtual machine management add-on for Kubernetes" that "aims to provide a common ground for virtualization solutions on top of Kubernetes". Other Kubernetes add-ons that are mentioned in the question are Canal, which is a network policy provider that combines Flannel and Calico; ADOT, which is a distribution of the OpenTelemetry Collector that supports tracing and metrics collection for AWS services; and Romana, which is a network and security automation solution that supports multiple network topologies and policies.

Question 5

Question Type: MultipleChoice

Which two features are provided by CN2? (Choose two.)

Options:

- A- application firewall
- B- isolated namespaces
- C- role-based access control
- D- user-defined virtual networks

Answer:

B, D

Explanation:

According to the CN2 datasheet¹, CN2 supports "multiple isolated namespaces for each tenant, allowing for overlapping IP addresses among tenants" and "user-defined virtual networks that can span across clusters, regions, and clouds". Other features of CN2 include cloud-native networking, NetOps-driven automation, edge and remote compute, enhanced observability, and ultra-fast, high performance¹.

Question 6

Question Type: MultipleChoice

What is the name of the Docker container runtime?

Options:

- A- dockerd
- B- docker cl
- C- containerd
- D- cri-o

Answer:

C

Explanation:

The name of the Docker container runtime is containerd, which is a daemon that manages the complete container lifecycle of its host system, from image transfer and storage to container execution and supervision to low-level storage to network attachments and beyond. Dockerd is the Docker daemon that acts as the primary user interface for Docker. Docker cli is not a valid name for any Docker component. Cri-o is another container runtime that implements the Kubernetes Container Runtime Interface (CRI) to enable using OCI (Open Container Initiative) compatible runtimes

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