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Lpi LPIC-3 Exam 305: Virtualization and Containerization Sample Questions (Q38-Q43):

NEW QUESTION # 38
What is the purpose of the kubelet service in Kubernetes?

- A. Run containers on the worker nodes according to the Kubernetes configuration.
- B. Manage permissions of users when interacting with the Kubernetes API.
- C. Provide a command line interface to manage Kubernetes.
- D. Store and replicate Kubernetes configuration data.
- E. Build a container image as specified in a Dockerfile.

Answer: A

Explanation:
The purpose of the kubelet service in Kubernetes is to run containers on the worker nodes according to the Kubernetes configuration. The kubelet is an agent or program that runs on each node and communicates with the Kubernetes control plane. It receives a set of PodSpecs that describe the desired state of the pods that should be running on the node, and ensures that the containers described in those PodSpecs are running and healthy. The kubelet also reports the status of the node and the pods back to the control plane. The kubelet does not manage containers that were not created by Kubernetes. References:
* Kubernetes Docs - kubelet
* Learn Steps - What is kubelet and what it does: Basics on Kubernetes

NEW QUESTION # 39
Which functionality is provided by Vagrant as well as by Docker? (Choose three.)

- A. Both can download required base images.
- B. Both start system images as containers instead of virtual machines by default.
- C. Both can apply changes to a base image.
- D. Both start system images as virtual machines instead of containers bv default.
- E. Both can share directories from the host file system to a guest.

Answer: A,C,E

Explanation:
* Both Vagrant and Docker can share directories from the host file system to a guest. This allows the guest to access files and folders from the host without copying them. Vagrant uses the config.vm.synced_folder option in the Vagrantfile to specify the shared folders1. Docker uses the -v or --volume flag in the docker run command to mount a host directory as a data volume in the container2.
* Both Vagrant and Docker can download required base images. Base images are the starting point for creating a guest environment. Vagrant uses the config.vm.box option in the Vagrantfile to specify the base image to use1. Docker uses the FROM instruction in the Dockerfile to specify the base image to use2. Both Vagrant and Docker can download base images from public repositories or local sources.
* Both Vagrant and Docker can apply changes to a base image. Changes are modifications or additions to the base image that customize the guest environment. Vagrant uses provisioners to run scripts or commands on the guest after it is booted1. Docker uses instructions in the Dockerfile to execute commands on the baseimage and create a new image2. Both Vagrant and Docker can save the changes to a new image or discard them after the guest is destroyed.
* Vagrant and Docker differ in how they start system images. Vagrant starts system images as virtual machines by default, using a provider such as VirtualBox, VMware, or Hyper-V1. Docker starts system images as containers by default, using the native containerization functionality on macOS, Linux, and Windows2. Containers are generally more lightweight and faster than virtual machines, but less secure and flexible. References: 1: Vagrant vs. Docker | Vagrant | HashiCorp Developer 2: Vagrant vs Docker: Which Is Right for You? (Could Be Both) - Kinsta Web Development Tools

NEW QUESTION # 40
In an IaaS cloud, what is a common method for provisioning new computing instances with an operating system and software?

- A. Each new instance is connected via a VPN with the computer that started the provisioning and tries to PXE boot from that machine.
- B. Each new instance is connected to the installation media of a Linux distribution and provides access to the installer by logging in via SSH.
- C. Each new instance is a clone of another currently running instance that includes all the software, data and state of the original instance.
- D. Each new instance is created based on an image file that contains the operating system as well as software and default configuration for a given purpose.
- E. Each new instance contains a minimal live system running from a virtual CD as the basis from which the administrator deploys the target operating system.

Answer: D

NEW QUESTION # 41
Which of the following technologies is the most important component of IaaS clouds?

- A. Database replication
- B. Emulation
- C. DNS delegation
- D. Mandatory Access Control
- E. Virtualization

Answer: E

Explanation:
The foundational technology of Infrastructure as a Service (IaaS) is virtualization. Virtualization enables cloud providers to abstract physical hardware into flexible, on-demand virtual resources such as compute instances, storage, and networks.
All major IaaS platforms rely on virtualization to provide scalability, isolation, elasticity, and multi-tenancy.
Without virtualization, the dynamic provisioning model of IaaS would not be possible.
Therefore, the correct answer is B.

NEW QUESTION # 42
Which of the following is true about LXC?

- A. It is a container runtime
- B. It does not use the Linux kernel
- C. It is primarily used for virtual machine management
- D. It is only compatible with Windows

Answer: A

Explanation:
LXC (Linux Containers) is a container runtime that uses Linux kernel features such as namespaces and cgroups to provide lightweight, isolated environments. According to containerization documentation, LXC allows multiple Linux systems (containers) to run on a single host while sharing the same kernel.
LXC is Linux-specific, uses the Linux kernel directly, and is not a virtual machine manager. Therefore, the correct answer is C.

NEW QUESTION # 43
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