

305-300 Study Materials Review | 305-300 Clearer Explanation



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Lpi 305-300 Exam is divided into two parts, with each part consisting of 60 multiple choice questions. 305-300 exam is timed, with each part having a time limit of 90 minutes. In order to pass the exam, candidates must score at least 500 out of 800 points.

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Lpi LPIC-3 Exam 305: Virtualization and Containerization Sample Questions (Q106-Q111):

NEW QUESTION # 106

Which file format is used by libvirt to store configuration data?

- A. XML files
- B. SQLite databases
- C. Text files containing key/value pairs
- D. Java-like properties files
- E. INI-style text files

Answer: A

NEW QUESTION # 107

A clone of a previously used virtual machine should be created. All VM specific information, such as user accounts, shell histories and SSH host keys should be removed from the cloned disk image. Which of the following tools can perform these tasks?

- A. virt-svspre
- B. vire-wipe
- C. sysprep
- D. virc-reset
- E. virt-rescue
- F. virt-sparsi

Answer: C

Explanation:

Explanation

Sysprep is a tool that removes all your personal account and security information, and then prepares the machine to be used as an image. It is supported by Windows and some Linux distributions. It can also remove drivers and other machine-specific settings.

Sysprep is required when creating a managed image outside of a gallery in Azure

<https://learn.microsoft.com/en-us/azure/virtual-machines/generalize>

NEW QUESTION # 108

Virtualization of which hardware component is facilitated by CPUs supporting nested page table extensions, such as Intel Extended Page Table (EPT) or AMD Rapid Virtualization Indexing (RVI)?

- A. Memory
- B. Network Interfaces
- C. Host Bus Adapters
- D. Hard Disks
- E. IO Cache

Answer: A

Explanation:

Nested page table extensions, such as Intel Extended Page Table (EPT) or AMD Rapid Virtualization Indexing (RVI), are hardware features that facilitate the virtualization of memory. They allow the CPU to perform the translation of guest virtual addresses to host physical addresses in a single step, without the need for software-managed shadow page tables. This reduces the overhead and complexity of memory management for virtual machines, and improves their performance and isolation. Nested page table extensions do not directly affect the virtualization of other hardware components, such as network interfaces, host bus adapters, hard disks, or IO cache.

:

Second Level Address Translation - Wikipedia

c - What is use of extended page table? - Stack Overflow

Hypervisor From Scratch - Part 4: Address Translation Using Extended ...

NEW QUESTION # 109

If docker stack is to be used to run a Docker Compose file on a Docker Swarm, how are the images referenced in the Docker Compose configuration made available on the Swarm nodes?

- A. docker stack passes the images to the Swarm master which distributes the images to all other Swarm nodes.
- B. docker stack transfers the image from its local Docker cache to each Swarm node.
- C. docker stack instructs the Swarm nodes to pull the images from a registry, although it does not upload the images to the registry.
- D. docker stack builds the images locally and copies them to only those Swarm nodes which run the service.
- E. docker stack triggers the build process for the images on all nodes of the Swarm.

Answer: C

Explanation:

Docker stack is a command that allows users to deploy and manage a stack of services on a Docker Swarm cluster. A stack is a group of interrelated services that share dependencies and can be orchestrated and scaled together. A stack is typically defined by a Compose file, which is a YAML file that describes the services, networks, volumes, and other resources of the stack. To use docker stack to run a Compose file on a Swarm, the user must first create and initialize a Swarm cluster, which is a group of machines (nodes) that are running the Docker Engine and are joined into a single entity. The Swarm cluster has one or more managers, which are responsible for maintaining the cluster state and orchestrating the services, and one or more workers, which are the nodes that run the services.

When the user runs docker stack deploy with a Compose file, the command parses the file and creates the services as specified. However, docker stack does not build or upload the images referenced in the Compose file to any registry. Instead, it instructs the Swarm nodes to pull the images from a registry, which can be the public Docker Hub or a private registry. The user must ensure that the images are available in the registry before deploying the stack, otherwise the deployment will fail. The user can use docker build and docker push commands to create and upload the images to the registry, or use an automated build service such as Docker Hub or GitHub Actions. The user must also make sure that the image names and tags in the Compose file match the ones in the registry, and that the Swarm nodes have access to the registry if it is private. By pulling the images from a registry, docker stack ensures that the Swarm nodes have the same and latest version of the images, and that the images are distributed across the cluster in an efficient way.

The other options are not correct. Docker stack does not build the images locally or on the Swarm nodes, nor does it copy or transfer the images to the Swarm nodes. Docker stack also does not pass the images to the Swarm master, as this would create a bottleneck and a single point of failure. Docker stack relies on the registry as the source of truth for the images, and delegates the image pulling to the Swarm nodes. References:

* Deploy a stack to a swarm | Docker Docs1

* docker stack deploy | Docker Docs2

* docker build | Docker Docs3

* docker push | Docker Docs4

NEW QUESTION # 110

Which of the following values are valid in the type attribute of a<domain>element in a libvirt domain definition? (Choose two.)

- A. lxc
- B. cgroup
- C. namespace
- D. kvm
- E. proc

Answer: A,D

NEW QUESTION # 111

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