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LPI 305-300 Exam



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The LPIC-3 Exam 305 covers a wide range of topics related to virtualization and containerization, including virtualization concepts, virtualization implementation and management, containerization concepts, and containerization implementation and management. 305-300 Exam is designed to test the candidate's ability to plan, deploy, manage, and troubleshoot virtualization and containerization technologies in a Linux environment.

Lpi LPIC-3 Exam 305: Virtualization and Containerization Sample Questions (Q65-Q70):

NEW QUESTION # 65

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

- A. 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.
- B. Each new instance is a clone of another currently running instance that includes all the software, data and state of the original instance.
- C. 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.
- D. Each new instance is connected via a VPN with the computer that started the provisioning and tries to PXE boot from that machine.
- E. Each new instance is connected to the installation media of a Linux distribution and provides access to the installer by logging in via SSH.

Answer: C

Explanation:

In an IaaS cloud, the most common method for provisioning new computing instances is to use an image file that contains a pre-installed operating system and software. This image file is also known as a machine image, a virtual appliance, or a template. The image file can be customized for a specific purpose, such as a web server, a database server, or a development environment. The image file can be stored in a repository or a library that is accessible by the cloud provider or the user. When a new instance is requested, the cloud provider copies the image file to a virtual disk and attaches it to the instance. The instance then boots from the virtual disk and runs the operating system and software from the image file. This method is faster and more efficient than installing the operating system and software from scratch for each new instance. It also ensures consistency and reliability across multiple instances that use the same image file. References:

* LPI Virtualization and Containerization Exam Objectives, Topic 305.1: Virtualization Concepts and Theory, Objective: Describe the concept of machine images and templates

* LPI Virtualization and Containerization Study Guide, Chapter 1: Virtualization Concepts and Theory, Section: Machine Images and Templates

* LPI LPIC-3 305 Certification Sample Questions and Practice Exam, Question 10: In an IaaS cloud, what is a common method for provisioning new computing instances with an operating system and software?

NEW QUESTION # 66

What is the purpose of a .dockerignore file?

- A. It lists files existing in a Docker image which should be excluded when building a derivative image.
- B. It must be placed in the top level directory of volumes that Docker should never attach automatically to a container
- C. It specifies which parts of a Dockerfile should be ignored when building a Docker image.
- D. It exists in the root file system of containers that should ignore volumes and ports provided by Docker.
- E. It specifies files that Docker does not submit to the Docker daemon when building a Docker image

Answer: E

Explanation:

The purpose of a `.dockerignore` file is to specify files that Docker does not submit to the Docker daemon when building a Docker image. A `.dockerignore` file is a text file that contains a list of files or directories that should be excluded from the build context, which is the set of files and folders that are available for use in a Dockerfile. By using a `.dockerignore` file, you can avoid sending files or directories that are large, contain sensitive information, or are irrelevant to the Docker image to the daemon, which can improve the efficiency and security of the build process. The other options are incorrect because they do not describe the function of a `.dockerignore` file. Option A is wrong because a `.dockerignore` file does not affect the files existing in a Docker image, but only the files sent to the daemon during the build. Option C is wrong because a `.dockerignore` file does not exist in the root file system of containers, but in the same directory as the Dockerfile. Option D is wrong because a `.dockerignore` file does not affect the volumes that Docker attaches to a container, but only the files included in the build context. Option E is wrong because a `.dockerignore` file does not affect the parts of a Dockerfile that are executed, but only the files available for use in a Dockerfile.

References:

- * What are `.dockerignore` files, and why you should use them?
- * Dockerfile reference | Docker Docs
- * How to use `.dockerignore` and its importance - Shisho Cloud

NEW QUESTION # 67

Which command within `virsh` lists the virtual machines that are running on the current host?

- A. `list-all`
- **B. `list`**
- C. `list-vm`
- D. `I view`
- E. `show`

Answer: B

Explanation:

The command `virsh list` is used to list all running domains (VMs) on the current host. The command `virsh list --all` can be used to list both active and inactive domains. The other options are not valid `virsh` commands. The command `virsh list` is a basic command that lists all running domains (VMs). You can also list all configured VMs by adding the `--all` option. This is useful if you want to see all VMs configured in the target hypervisor that you can use on subsequent commands¹. References:

- * 1: 8 Linux `virsh` subcommands for managing VMs on the command line | Enable Sysadmin.

NEW QUESTION # 68

Which of the following statements about the command `lxc-checkpoint` is correct?

- A. It creates a container image based on an existing container.
- B. It creates a clone of a container.
- C. It only works on stopped containers.
- **D. It writes the status of the container to a file.**
- E. It doubles the memory consumption of the container.

Answer: D

Explanation:

The command `lxc-checkpoint` is used to checkpoint and restore containers. Checkpointing a container means saving the state of the container, including its memory, processes, file descriptors, and network connections, to a file or a directory. Restoring a container means resuming the container from the saved state, as if it was never stopped. Checkpointing and restoring containers can be useful for various purposes, such as live migration, backup, debugging, or snapshotting. The command `lxc-checkpoint` has the following syntax:

```
lxc-checkpoint {-n name} {-D path} [-r] [-s] [-v] [-d] [-F]
```

The options are:

- * `-n name`: Specify the name of the container to checkpoint or restore.
- * `-D path`: Specify the path to the file or directory where the checkpoint data is dumped or restored.
- * `-r`, `--restore`: Restore the checkpoint for the container, instead of dumping it. This option is incompatible with `-s`.
- * `-s`, `--stop`: Optionally stop the container after dumping. This option is incompatible with `-r`.
- * `-v`, `--verbose`: Enable verbose `lxc` logging. Only available when providing `-r`.
- * `-d`, `--daemon`: Restore the container in the background (this is the default). Only available when providing `-r`.

* -F, --foreground: Restore the container in the foreground. Only available when providing -r.

The command `lxc-checkpoint` uses the CRIU (Checkpoint/Restore In Userspace) tool to perform the checkpoint and restore operations. CRIU is a software that can freeze a running application (or part of it) and checkpoint it to a hard drive as a collection of files. It can then use the files to restore and run the application from the point it was frozen at.

The other statements about the command `lxc-checkpoint` are not correct. It does not create a clone or an image of a container, nor does it double the memory consumption of the container. It can work on both running and stopped containers, depending on the options provided. References:

* Linux Containers - LXC - Manpages - `lxc-checkpoint.12`

* `lxc-checkpoint(1)` - Linux manual page - `man7.org`

* CRIU4

NEW QUESTION # 69

In order to use the option `dom0_mem` to limit the amount of memory assigned to the Xen Domain-0, where must this option be specified?

- A. In the bootloader configuration, when Xen is booted.
- B. In its Makefile, when Xen is built.
- C. In any of Xen's global configuration files.
- D. In the configuration file `/etc/xen/Domain-0.cfg`, when Xen starts.
- E. In its `.config` file, when the Domain-0 kernel is built.

Answer: A

Explanation:

Explanation

The option `dom0_mem` is used to set the initial and maximum memory size of the Domain-0, which is the privileged domain that starts first and manages the unprivileged domains (DomU) in Xen. The option `dom0_mem` must be specified in the bootloader configuration, such as GRUB or GRUB2, when Xen is booted.

This ensures that the Domain-0 kernel can allocate memory for storing memory metadata and network related parameters based on the boot time amount of memory. If the option `dom0_mem` is not specified in the bootloader configuration, the Domain-0 will use all the available memory on the host system by default, which may cause performance and security issues. References:

* Managing Xen Dom0s CPU and Memory

* Xen Project Best Practices

* Dom0 Memory - Where It Has Not Gone

NEW QUESTION # 70

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