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LPI 305-300 CERTIFICATION EXAM QUESTIONS AND ANSWERS PDF

LPI 305-300 Exam



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Lpi LPIC-3 Exam 305: Virtualization and Containerization Sample Questions (Q116-Q121):

NEW QUESTION # 116

What types of cloud-init data sources can be used to configure cloud instances? (Select all that apply)

- A. Cloud-based configuration management tools
- B. Metadata service
- C. User data scripts
- D. QR codes

Answer: B,C

Explanation:

Cloud-init is a widely used initialization system for cloud instances, allowing configuration at first boot.

According to cloud-init documentation, the two primary data sources used to configure instances are metadata services and user data scripts.

A metadata service provides instance-specific information such as hostname, instance ID, networking details, and SSH keys. User data scripts allow administrators to supply custom configuration instructions, commonly written as shell scripts or cloud-config YAML.

Cloud-based configuration management tools like Ansible or Puppet are not cloud-init data sources; instead, cloud-init may install or trigger them. QR codes are not supported data sources in cloud-init.

Virtualization and cloud documentation clearly identifies metadata and user data as the supported configuration mechanisms.

Therefore, the correct answers are B and D.

NEW QUESTION # 117

Which file in a group directory contains the list of processes belonging to this group?

- A. pids
- B. procs
- C. members
- D. casks
- E. subjects

Answer: B

NEW QUESTION # 118

What is true about containerd?

- A. It is a text file format defining the build process of containers.
- B. It requires the Docker engine and Docker CLI to be installed.
- C. It uses runc to start containers on a container host.
- D. It is the initial process run at the start of any Docker container.
- E. It runs in each Docker container and provides DHCP client functionality

Answer: C

NEW QUESTION # 119

Which of the following are true regarding the CPU of a QEMU virtual machine? (Choose two.)

- A. The CPU architecture of a QEMU virtual machine is independent of the host system's architecture.
- B. QEMU virtual machines support multiple virtual CPUs in order to run SMP systems.

- C. QEMU uses the concept of virtual CPUs to map the virtual machines to physical CPUs.
- D. For each QEMU virtual machine, one dedicated physical CPU core must be reserved.
- E. Each QEMU virtual machine can only have one CPU with one core.

Answer: A,B

Explanation:

Explanation

The CPU architecture of a QEMU virtual machine is independent of the host system's architecture. QEMU can emulate many CPU architectures, including x86, ARM, Alpha, and SPARC, regardless of the host system's architecture¹. This allows QEMU to run guest operating systems that are not compatible with the host system's hardware. Therefore, option A is correct. QEMU virtual machines support multiple virtual CPUs in order to run SMP systems. QEMU uses the concept of virtual CPUs (vCPUs) to map the virtual machines to physical CPUs. Each vCPU is a thread that runs on a physical CPU core. QEMU allows the user to specify the number of vCPUs and the CPU model for each virtual machine. QEMU can run SMP systems with multiple vCPUs, as well as single-processor systems with one vCPU². Therefore, option E is also correct. The other options are incorrect because they do not describe the CPU of a QEMU virtual machine. Option B is wrong because QEMU virtual machines can have more than one CPU with more than one core. Option C is wrong because QEMU does not require a dedicated physical CPU core for each virtual machine. QEMU can share the physical CPU cores among multiple virtual machines, depending on the load and the scheduling policy.

Option D is wrong because QEMU does not use the term CPU, but vCPU, to refer to the virtual machines' processors. References:

- * QEMU vs VirtualBox: What's the difference? - LinuxConfig.org
- * QEMU / KVM CPU model configuration - QEMU documentation
- * Introduction - QEMU documentation
- * Qemu/KVM Virtual Machines - Proxmox Virtual Environment

NEW QUESTION # 120

What happens when the following command is executed twice in succession?

```
docker run -tid -v data:/data debian bash
```

- A. The original content of the container image data is available in both containers, although changes stay local within each container.
- B. Each container is equipped with its own independent data volume, available at /data/ in the respective container.
- C. The container resulting from the second invocation can only read the content of /data/ and cannot change it.
- **D. Both containers share the contents of the data volume, have full permissions to alter its content and mutually see their respective changes.**
- E. The second command invocation fails with an error stating that the volume data is already associated with a running container.

Answer: D

Explanation:

Explanation

The command `docker run -tid -v data:/data debian bash` creates and runs a new container from the debian image, with an interactive terminal and a detached mode, and mounts a named volume `data` at `/data` in the container¹². If the volume `data` does not exist, it is created automatically³. If the command is executed twice in succession, two containers are created and run, each with its own terminal and process ID, but they share the same volume `data`. This means that both containers can access, modify, and see the contents of the data volume, and any changes made by one container are reflected in the other container. Therefore, the statement C is true and the correct answer. The statements A, B, D, and E are false and incorrect, as they do not describe the behavior of the command or the volume correctly. References:

- * 1: `docker run` | Docker Docs.
- * 2: Docker run reference | Docker Docs - Docker Documentation.
- * 3: Use volumes | Docker Documentation.
- * [4]: How to Use Docker Run Command with Examples - phoenixNAP.

NEW QUESTION # 121

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