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Lpi LPIC-3 Exam 305: Virtualization and Containerization Sample Questions (Q66-Q71):

NEW QUESTION # 66

Which of the following resources can be limited by libvirt for a KVM domain? (Choose two.)

- A. Number of available files
- **B. Size of available memory**
- C. File systems allowed in the domain
- D. Number of running processes
- **E. Amount of CPU time**

Answer: B,E

Explanation:

Libvirt is a toolkit that provides a common API for managing different virtualization technologies, such as KVM, Xen, LXC, and others. Libvirt allows users to configure and control various aspects of a virtual machine (also called a domain), such as its CPU, memory, disk, network, and other resources. Among the resources that can be limited by libvirt for a KVM domain are:

* Amount of CPU time: Libvirt allows users to specify the number of virtual CPUs (vCPUs) that a domain can use, as well as the CPU mode, model, topology, and tuning parameters. Users can also set the CPU shares, quota, and period to control the relative or absolute amount of CPU time that a domain can consume. Additionally, users can pin vCPUs to physical CPUs or NUMA nodes to improve performance and isolation. These settings can be configured in the domain XML file under the <cpu> and <cpupin> elements¹².

* Size of available memory: Libvirt allows users to specify the amount of memory that a domain can use, as well as the memory backing, tuning, and NUMA node parameters. Users can also set the memory hard and soft limits, swap hard limit, and minimum guarantee to control the memory allocation and reclaim policies for a domain. These settings can be configured in the domain XML file under the <memory>, <memoryBacking>, and <memtune> elements¹³.

The other resources listed in the question are not directly limited by libvirt for a KVM domain. File systems allowed in the domain are determined by the disk and filesystem devices that are attached to the domain, which can be configured in the domain XML file under the <disk> and <filesystem> elements¹⁴. Number of running processes and number of available files are determined by the operating system and the file system of the domain, which are not controlled by libvirt.

:

libvirt: Domain XML format

CPU Allocation

Memory Allocation

Hard drives, floppy disks, CDRoms

NEW QUESTION # 67

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

- A. pcie
- **B. efi**
- **C. bios**
- D. scsi
- E. virtio

Answer: B,C

NEW QUESTION # 68

Which of the following components are essential in Docker architecture? (Select all that apply)

- **A. Docker Registry**
- B. Docker Compose
- **C. Docker Daemon**
- **D. Docker Client**

Answer: A,C,D

Explanation:

Docker architecture consists of several core components that enable container creation and management.

According to Docker documentation, the Docker Client, Docker Daemon, and Docker Registry are essential components.

The Docker Client is the user-facing command-line interface that sends commands to the daemon. The Docker Daemon (dockerd) performs the heavy lifting, such as building images, running containers, and managing networks and storage. The Docker Registry stores container images, enabling image distribution and reuse.

Docker Compose is an optional orchestration tool used to define and run multi-container applications, but it is not an essential

architectural component.

Therefore, the correct answers are A, C, and D.

NEW QUESTION # 69

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

- A. `pcie`
- B. `efi`
- C. `bios`
- D. `scsi`
- E. `virtio`

Answer: B,C

Explanation:

The `firmware` attribute of the `<os>` element in a libvirt domain definition specifies the type of firmware used to boot the virtual machine. The valid values for this attribute are `efi` and `bios`, which correspond to the Extensible Firmware Interface (EFI) and the Basic Input/Output System (BIOS) respectively. EFI is a newer standard that supports more features and security than BIOS, such as Secure Boot and faster boot times. BIOS is an older standard that is widely compatible and supported by most hypervisors and operating systems. The other values, `scsi`, `virtio`, and `pcie`, are not related to firmware, but to different types of devices or drivers that can be used in a virtual machine. References: 1 (search for `firmware` enum)

NEW QUESTION # 70

Where are paravirtualized device drivers installed?

- A. In the Guest OS
- B. No special drivers are required for paravirtualization
- C. Compiled into the hypervisor
- D. In the Host OS

Answer: A

Explanation:

Paravirtualization is a virtualization technique where the guest operating system is aware that it is running in a virtualized environment and cooperates directly with the hypervisor. According to Xen and virtualization documentation, this cooperation is achieved through paravirtualized device drivers, which must be installed inside the guest operating system.

These specialized drivers replace traditional hardware drivers and communicate directly with the hypervisor using optimized interfaces. This reduces the overhead of hardware emulation and improves performance, particularly for disk and network I/O.

Because of this design, the guest OS must either be modified or explicitly include support for paravirtualized drivers.

Option B is incorrect because paravirtualization explicitly requires special guest-side drivers. Option C is incorrect because drivers are not compiled into the hypervisor; they reside in the guest. Option D is also incorrect because host OS drivers do not provide paravirtualized functionality to guests.

Virtualization notes consistently state that paravirtualized drivers are installed and run within the guest OS, making option A the correct answer.

NEW QUESTION # 71

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