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Lpi LPIC-3 Exam 305: Virtualization and Containerization Sample Questions (Q119-Q124):

NEW QUESTION # 119

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. Hard Disks
- D. IO Cache
- E. Host Bus Adapters

Answer: A

Explanation:

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.

References:

- * 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 # 120

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. Hard Disks
- D. IO Cache
- E. Host Bus Adapters

Answer: A

NEW QUESTION # 121

Which functionality is provided by Vagrant as well as by Docker? (Choose three.)

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

Answer: C,D,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 base image 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 # 122

Which directory is used by cloud-init to store status information and configuration information retrieved from external sources?

- A. /proc/sys/cloud/
- B. /opt/cloud/var/
- C. /tmp/.cloud/
- **D. /var/lib/cloud/**
- E. /etc/cloud-init/cache/

Answer: D

NEW QUESTION # 123

Which of the following commands are needed to establish a private network between two (or more) KVM virtual machines that is not visible to other KVM instances on the same KVM host? (Choose THREE correct answers.)

- A. ebtables
- **B. brctl**
- **C. tuncctl**
- D. ipconfig
- **E. ifconfig**

Answer: B,C,E

Explanation:

To establish a private, isolated network between KVM virtual machines on the same host, Linux networking tools are used to create and manage virtual network bridges and TAP interfaces. According to KVM and Linux virtualization documentation, the core components required are `brctl`, `tuncctl`, and `ifconfig` (or the modern `ip` command).

The `brctl` utility is used to create and manage Linux bridge interfaces, which act as virtual switches connecting multiple virtual machines. `tuncctl` is used to create TAP interfaces that allow virtual machines to connect to the bridge. `ifconfig` is used to bring interfaces up and assign network parameters.

`ebtables` is not strictly required for creating a private network; it is used for filtering Ethernet frames. `ipconfig` is a Windows networking command and is not applicable to Linux systems.

Therefore, the correct and documented answers are B, D, and E.

NEW QUESTION # 124

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