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Lpi LPIC-3 Exam 305: Virtualization and Containerization Sample Questions (Q19-Q24):

NEW QUESTION # 19

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 download required base images.
- D. Both can apply changes to a base image.
- E. Both can share directories from the host file system to a guest.

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 baseimage 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 # 20

What is the purpose of the packer inspect subcommand?

- A. Display an overview of the configuration contained in a Packer template.
- B. Execute commands within a running instance of a Packer image.
- C. List the artifacts created during the build process of a Packer image.
- D. Show usage statistics of a Packer image.
- E. Retrieve files from an existing Packer image.

Answer: A

NEW QUESTION # 21

Which of the following tasks are part of a hypervisor's responsibility? (Choose two.)

- A. Isolate the virtual machines and prevent unauthorized access to resources of other virtual machines.
- B. Manage authentication to network services running inside a virtual machine.
- C. Map the resources of virtual machines to the resources of the host system
- D. Provide host-wide unique PIDs to the processes running inside the virtual machines in order to ease inter-process communication between virtual machines.

- E. Create filesystems during the installation of new virtual machine guest operating systems.

Answer: A,C

Explanation:

Explanation

A hypervisor is a software that creates and runs virtual machines (VMs) by separating the operating system and resources from the physical hardware. One of the main tasks of a hypervisor is to map the resources of VMs to the resources of the host system, such as CPU, memory, disk, and network. This allows the hypervisor to allocate and manage the resources among multiple VMs and ensure that they run efficiently and independently¹²³. Another important task of a hypervisor is to isolate the VMs and prevent unauthorized access to resources of other VMs. This ensures the security and privacy of the VMs and their data, as well as the stability and performance of the host system. The hypervisor can use various techniques to isolate the VMs, such as virtual LANs, firewalls, encryption, and access control¹⁴⁵.

The other tasks listed are not part of a hypervisor's responsibility, but rather of the guest operating system or the application running inside the VM. A hypervisor does not create filesystems during the installation of new VMs, as this is done by the installer of the guest operating system⁶. A hypervisor does not provide host-wide unique PIDs to the processes running inside the VMs, as this is done by the kernel of the guest operating system⁷. A hypervisor does not manage authentication to network services running inside a VM, as this is done by the network service itself or by a directory service such as LDAP or Active Directory⁸. References: 1 (search for "What is a hypervisor?"), 2 (search for "How does a hypervisor work?"), 3 (search for "The hypervisor gives each virtual machine the resources that have been allocated"), 4 (search for "Benefits of hypervisors"), 5 (search for "Isolate the virtual machines and prevent unauthorized access"), 6 (search for "Create filesystems during the installation of new virtual machine guest operating systems"), 7 (search for "Provide host-wide unique PIDs to the processes running inside the virtual machines"), 8 (search for "Manage authentication to network services running inside a virtual machine").

NEW QUESTION # 22

What is the default provider of Vagrant?

- A. lxc
- B. vmware_workstation
- C. hyperv
- **D. virtualbox**
- E. docker

Answer: D

Explanation:

Explanation

Vagrant is a tool that allows users to create and configure lightweight, reproducible, and portable development environments.

Vagrant supports multiple providers, which are the backends that Vagrant uses to create and manage the virtual machines. By default, VirtualBox is the default provider for Vagrant. VirtualBox is still the most accessible platform to use Vagrant: it is free, cross-platform, and has been supported by Vagrant for years. With VirtualBox as the default provider, it provides the lowest friction for new users to get started with Vagrant. However, users can also use other providers, such as VMware, Hyper-V, Docker, or LXC, depending on their preferences and needs. To use another provider, users must install it as a Vagrant plugin and specify it when running Vagrant commands. Users can also change the default provider by setting the VAGRANT_DEFAULT_PROVIDER environmental variable. References:

* Default Provider - Providers | Vagrant | HashiCorp Developer¹

* Providers | Vagrant | HashiCorp Developer²

* How To Set Default Vagrant Provider to Virtualbox³

NEW QUESTION # 23

How can data be shared between several virtual machines running on the same Linux-based host system?

- **A. By using a network file system or file transfer protocol.**
- B. By writing data to the file system since all virtual machines on the same host system use the same file system.
- C. By setting up a ramdisk in one virtual machine and mounting it using its UUID in the other VMs.
- D. By attaching the same virtual hard disk to all virtual machines and activating EXT4 sharing extensions on it.
- E. By mounting other virtual machines' file systems from /dev/virt-disks/remote/.

Answer: A

Explanation:

The correct way to share data between several virtual machines running on the same Linux-based host system is by using a network file system or file transfer protocol. A network file system (NFS) is a distributed file system protocol that allows a user on a client computer to access files over a network in a manner similar to how local storage is accessed¹. A file transfer protocol (FTP) is a standard network protocol used for the transfer of computer files between a client and server on a computer network². Both methods allow data to be shared between virtual machines regardless of their underlying file systems or virtualization technologies. The other options are incorrect because they either do not work or are not feasible. Option A is wrong because each virtual machine has its own file system that is not directly accessible by other virtual machines. Option B is wrong because there is no such device as `/dev/virt-disks/remote/` that can be used to mount other virtual machines' file systems. Option C is wrong because a ramdisk is a volatile storage device that is not suitable for sharing data between virtual machines. Option E is wrong because attaching the same virtual hard disk to multiple virtual machines can cause data corruption and conflicts, and EXT4 does not have any sharing extensions that can prevent this. References:<https://kb.vmware.com/s/article/1012706>
<https://bing.com/search?q=data+sharing+between+virtual+machines>

NEW QUESTION # 24

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