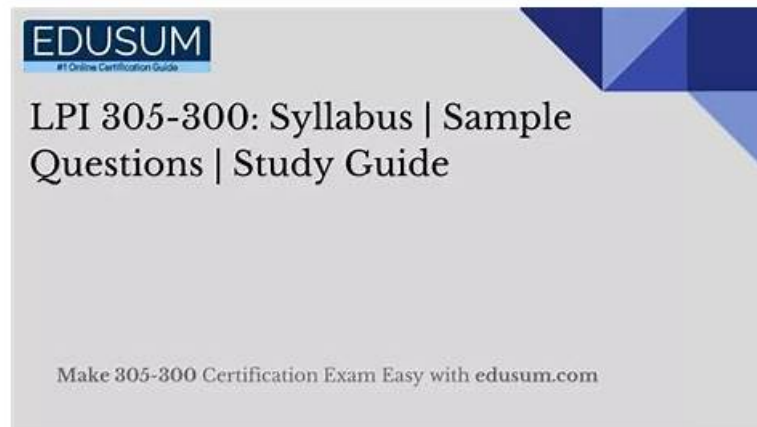


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The exam tests you on how to install and configure a virtualization environment, including VMware vSphere, Microsoft Hyper-V, Citrix XenDesktop and XenApp. You also need to know how to manage devices within a virtualized environment. You must be able to solve problems related to configuration issues, upgrading technologies and troubleshooting issues with end-user devices. **LPI 305-300 Exam Dumps** are the best choice for preparing for this exam.

Additionally, you should be able to design and implement a multi-tier network topology using switches or routers with different

speeds, types of ports and duplex modes (full/half).

Lpi LPIC-3 Exam 305: Virtualization and Containerization Sample Questions (Q79-Q84):

NEW QUESTION # 79

What is the same of the global configuration file for the xl tool stack?

Answer:

Explanation:

/etc/xen/xl.conf

Explanation:

The xl toolstack is the modern command-line management interface used for administering the Xen hypervisor, replacing the older xm toolstack. According to official Xen virtualization documentation, the global configuration file for the xl toolstack is /etc/xen/xl.conf.

This configuration file defines default behaviors and policies for the xl management commands. It allows administrators to configure global settings such as default CPU scheduling behavior, memory handling, device model settings, and other operational parameters that affect how virtual machines (domains) are managed on a Xen host. These settings apply system-wide and influence the behavior of all xl commands unless overridden by per-domain configuration files.

The file /etc/xen/xl.conf is read by the xl toolstack at runtime and is part of the standard Xen configuration directory structure.

Individual virtual machine definitions are typically stored as separate configuration files in /etc/xen/, but xl.conf serves as the central, global configuration reference.

Virtualization notes emphasize that proper configuration of xl.conf is important for performance tuning, stability, and compliance in Xen-based environments. While many default installations function correctly without modifying this file, enterprise deployments often customize it to align with workload requirements and hardware capabilities.

Therefore, the correct and documented global configuration file for the xl toolstack is /etc/xen/xl.conf.

NEW QUESTION # 80

Which of the following is a benefit of virtualization?

- A. Decreased resource utilization
- **B. Simplified hardware management**
- C. All of the above
- D. Improved security

Answer: B

Explanation:

One of the core benefits of virtualization is simplified hardware management. Virtualization abstracts physical hardware into software-defined resources, making it easier to manage, allocate, migrate, and maintain systems.

Option C is incorrect because virtualization increases, not decreases, resource utilization. Since one option is incorrect, "All of the above" cannot be correct. While improved security is also a benefit, the most accurate single answer in this context is simplified hardware management.

Therefore, the correct answer is D.

NEW QUESTION # 81

Which of the following statements are true of full virtualization? (Select THREE correct answers)

- A. Full virtualization has superior I/O performance through emulated device drivers
- B. Full virtualization is faster than paravirtualization
- **C. Full virtualization requires time and system resources for emulation**
- **D. Full virtualization requires no modification to the Guest OS kernel**
- **E. Full virtualization works through CPU emulation**

Answer: C,D,E

Explanation:

Full virtualization allows unmodified guest operating systems to run in virtual machines, making statement B correct. The hypervisor

presents a complete hardware abstraction to the guest OS.

Historically and conceptually, full virtualization relies on CPU emulation or hardware-assisted virtualization, making statement C correct. Even with hardware extensions, some degree of emulation is involved.

Full virtualization also requires additional system resources and processing time to emulate hardware and manage isolation, making statement E correct.

Statement A is incorrect because paravirtualization often offers better performance. Statement D is incorrect because emulated I/O devices generally perform worse than paravirtualized drivers.

Therefore, the correct answers are B, C, and E.

NEW QUESTION # 82

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

Answer: B,C,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 # 83

Which of the following statements are true regarding resource management for full virtualization? (Choose two.)

- A. Full virtualization cannot pose any limits to virtual machines and always assigns the host system's resources in a first-come-first-serve manner.
- B. The hypervisor provides each virtual machine with hardware of a defined capacity that limits the resources of the virtual machine.
- C. All processes created within the virtual machines are transparently and equally scheduled in the host system for CPU and I/O usage.
- D. The hypervisor may provide fine-grained limits to internal elements of the guest operating system such as the number of processes.
- E. It is up to the virtual machine to use its assigned hardware resources and create, for example, an arbitrary amount of network sockets.

Answer: B,E

NEW QUESTION # 84

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