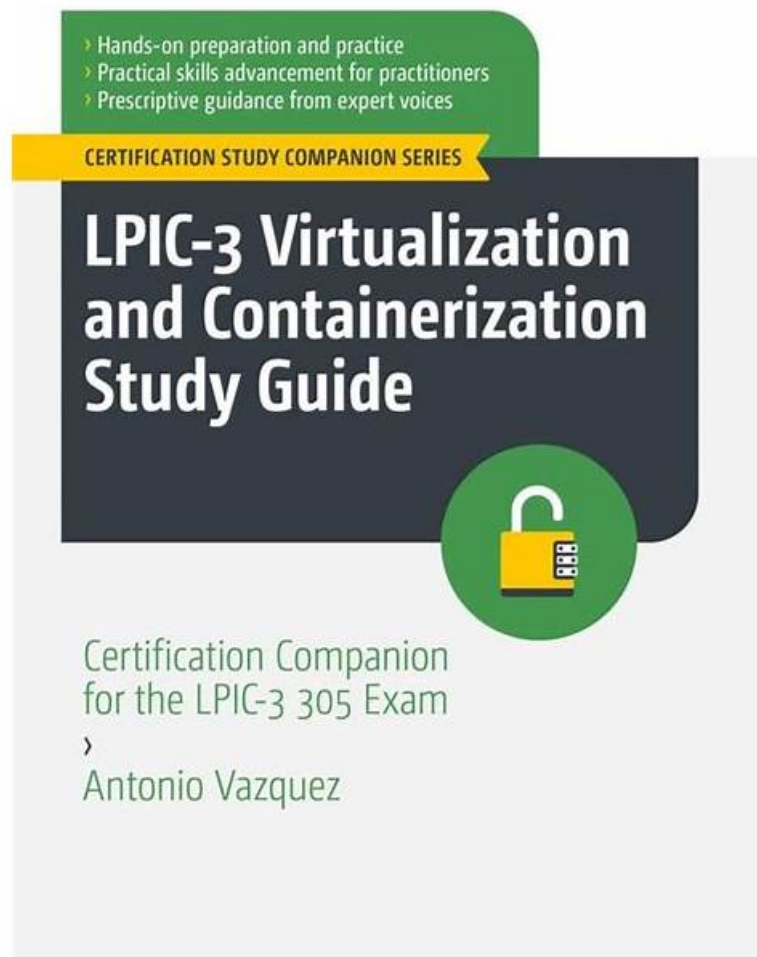


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Lpi LPIC-3 Exam 305: Virtualization and Containerization Sample Questions (Q48-Q53):

NEW QUESTION # 48

Which command was used in Xen 3.x as a predecessor of the xl command?

Answer:

Explanation:

xm

Explanation:

In Xen 3.x, the primary command-line tool used to manage virtual machines was xm. According to Xen virtualization documentation, xm was part of the original Xen management stack and provided commands to create, start, stop, migrate, and monitor Xen domains.

As Xen evolved, the xm toolstack was deprecated and replaced by the xl toolstack. The xl command interfaces directly with the Xen hypervisor and offers better performance, improved maintainability, and reduced complexity. Modern Xen installations no longer support xm, but it remains historically significant as the predecessor to xl.

Therefore, the correct answer is xm.

NEW QUESTION # 49

What is Packer?

- A. A configuration management tool
- **B. An image building tool**
- C. A container orchestration tool
- D. A virtualization platform

Answer: B

Explanation:

Packer is an image automation and building tool developed by HashiCorp. According to virtualization and DevOps documentation, Packer is used to create machine images for multiple platforms from a single configuration file.

Packer is not an orchestration platform, configuration management tool, or hypervisor. Its primary role is to ensure consistent, repeatable, and automated image creation, making B the correct answer.

NEW QUESTION # 50

Which of the following statements is true regarding the following output of xl list:

Name	ID	Mem	VCPUs	State	Time (s)
Domain-0	0	1024	1	r-----	498.7
Debian	2	1024	1	--p---	783.5
Ubuntu	6	1024	1	-b----	313.6
CentOS	7	2048	2	r-----	455.1

- A. It is necessary to use the xl command to change Ubuntu's state to running.
- B. The domain with ID 2 uses Para virtualization.
- C. CentOS is the domain which has consumed the most CPU time.

- D. Ubuntu is idle or waiting for I/O.
- E. Both Debian and Ubuntu require xl commands to start running.

Answer: D

Explanation:

The output of xl list shows the state of the domains. The domain with ID 6, Ubuntu, has a state of "b-". This means that the domain is blocked, which means it is idle or waiting for I/O.

<https://xenbits.xen.org/docs/unstable/man/xl.1.html>

NEW QUESTION # 51

Xen is a:

- A. Type 1 hypervisor
- B. Virtualization management tool
- C. Type 2 hypervisor
- D. Application virtualization platform

Answer: A

Explanation:

Xen is classified as a Type 1 (bare-metal) hypervisor, meaning it runs directly on the system hardware rather than on top of a host operating system. Virtualization documentation defines Type 1 hypervisors as having direct control over CPU, memory, and hardware resources, providing better performance and stronger isolation compared to Type 2 hypervisors.

In a Xen-based system, the hypervisor is loaded first during boot. A privileged management domain, known as Domain 0 (Dom0), is then started to manage hardware access and virtual machine lifecycle operations.

This architecture clearly differentiates Xen from hosted (Type 2) hypervisors such as VirtualBox.

Xen is not merely a management tool or application virtualization platform; it is a full hypervisor used in enterprise, cloud, and service provider environments. Therefore, the correct answer is B.

NEW QUESTION # 52

Which of the following statements is true regarding networking with libvirt?

- A. Libvirt requires a dedicated network interface that may not be used by the host system.
- B. Libvirt's network functionality is limited to connecting virtual machines to a physical network interface of the host system.
- C. Libvirt supports exactly one virtual network and connects all virtual machines to it.
- D. Libvirt networks appear, by default, as standard Linux bridges in the host system.
- E. Libvirt assigns the same MAC address to all virtual machines and isolates their network interfaces at the link layer.

Answer: D

Explanation:

Explanation

Libvirt supports creating and managing various types of virtual networks that can be used to connect virtual machines to each other or to the external network. One of the common types of virtual networks is the NAT-based network, which uses network address translation (NAT) to allow virtual machines to access the outside world through the host's network interface. By default, libvirt creates a NAT-based network called

'default' when it is installed and started. This network appears as a standard Linux bridge device on the host system, named virbr0.

The bridge device has an IP address of 192.168.122.1/24 and acts as a gateway and a DHCP server for the virtual machines connected to it. The bridge device also has iptables rules to forward and masquerade the traffic from and to the virtual machines.

The virtual machines connected to the 'default' network have their own IP addresses in the 192.168.122.0/24 range and their own MAC addresses generated by libvirt. The virtual machines can communicate with each other, with the host, and with the external network through the bridge device and the NAT mechanism¹².

The other statements in the question are false regarding networking with libvirt. Libvirt's network functionality is not limited to connecting virtual machines to a physical network interface of the host system. Libvirt can also create isolated networks that do not have any connection to the outside world, or routed networks that use static routes to connect virtual machines to the external network without NAT³.

Libvirt does not assign the same MAC address to all virtual machines and isolate their network interfaces at the link layer. Libvirt assigns a unique MAC address to each virtual machine and allows them to communicate with each other at the network layer⁴.

Libvirt does not require a dedicated network interface that may not be used by the host system. Libvirt can share the host's network interface with the virtual machines using NAT or bridging, or it can pass a physical network interface to a virtual machine exclusively using PCI passthrough⁵.

Libvirt does not support exactly one virtual network and connect all virtual machines to it. Libvirt supports creating and managing multiple virtual networks with different names and configurations, and connecting virtual machines to different networks according to their needs⁶. References:

- * libvirt: Virtual Networking
- * libvirt: NAT forwarding (aka "virtual networks")
- * libvirt: Routed network
- * libvirt: MAC address
- * libvirt: PCI passthrough of host network devices
- * [libvirt: Network XML format]

NEW QUESTION # 53

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