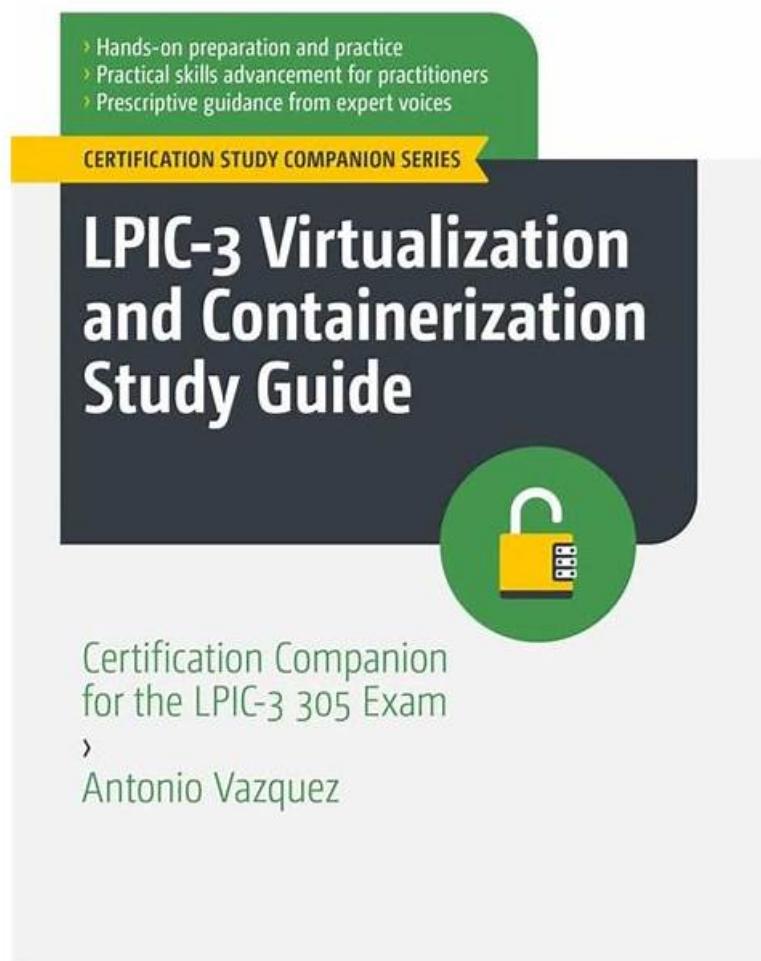


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## Lpi LPIC-3 Exam 305: Virtualization and Containerization Sample Questions (Q119-Q124):

### NEW QUESTION # 119

Which of the following statements are true regarding hardware-based virtualization? (Choose TWO correct answers.)

- A. Hardware-based virtualization is not available on x86-based CPU architectures and requires special virtualization host hardware.
- B. Hardware-based virtualization relies on the host system's processor to call the hypervisor when critical instructions are executed by a virtual machine.
- C. Hardware-based virtualization requires special support in the host system's hardware which is present in recent x86-based computers.
- D. Hardware-based virtualization implements a whole machine in software and therefore can run virtual machines of a given hardware platform on an arbitrary host system.

**Answer: B,C**

Explanation:

Hardware-based virtualization uses CPU-assisted virtualization features to improve performance and isolation when running virtual machines. According to virtualization documentation, modern processors such as Intel VT-x and AMD-V provide special CPU instructions that allow the processor to trap and transfer control to the hypervisor when sensitive or privileged instructions are executed by a guest virtual machine.

This behavior makes statement A correct.

Additionally, hardware-based virtualization requires explicit CPU and chipset support, which is now standard in most modern x86-based systems. These hardware extensions reduce the need for complex software emulation and enable near-native performance for virtual machines. Therefore, statement C is also correct.

Statement B describes full software emulation rather than hardware-assisted virtualization and is incorrect in this context. Statement D is false because hardware-based virtualization is widely available and heavily used on x86 architectures in enterprise, cloud, and desktop environments.

Virtualization notes consistently highlight that hardware-based virtualization is the foundation for platforms such as KVM, Xen, VMware ESXi, and Hyper-V, making it a critical technology in modern computing.

Thus, the correct answers are A and C.

## NEW QUESTION # 120

Xen is a:

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

**Answer: B**

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 # 121

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

□

- A. CentOS is the domain which has consumed the most CPU time.
- **B. Ubuntu is idle or waiting for I/O.**
- C. The domain with ID 2 uses Para virtualization.
- D. Both Debian and Ubuntu require xl commands to start running.
- E. It is necessary to use the xl command to change Ubuntu's state to running.

**Answer: B**

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 # 122

Which of the following are benefits of virtualization?

- **A. Increased security**
- **B. Improved hardware utilization**
- C. Reduced software compatibility issues
- **D. Simplified backup and recovery**

**Answer: A,B,D**

Explanation:

Virtualization provides several well-documented benefits in modern IT environments. One major advantage is improved hardware utilization(A), as multiple virtual machines can run on a single physical system, maximizing resource usage. Virtualization also enhances security(C) through isolation between workloads, limiting the impact of failures or security breaches.

Another key benefit is simplified backup and recovery(D). Virtual machines are encapsulated into files, making it easier to snapshot, back up, clone, and restore entire systems. This significantly improves disaster recovery and testing workflows.

Option B is not universally true. While virtualization can help standardize environments, it does not inherently reduce software compatibility issues; in some cases, it may even introduce additional layers of complexity.

Virtualization documentation consistently highlights hardware efficiency, security isolation, and operational flexibility as core benefits, making A, C, and D the correct answers.

## NEW QUESTION # 123

In the command `vzctl 105 /usr/bin/apt-get install wget`, which subcommand of `vzctl` is missing in order to install `wget` in the OpenVZ container 105?

### Answer:

### Explanation:

exec

### Explanation:

In OpenVZ virtualization, the `vzctl` command is used to manage containers. According to OpenVZ documentation, the `exec` subcommand is required to execute a command inside a running container.

The correct command syntax is:

```
vzctl exec 105 /usr/bin/apt-get install wget
```

The `exec` subcommand runs the specified command in the context of the container identified by its container ID (CTID), in this case 105. Without `exec`, the command would not be executed inside the container environment.

Therefore, the missing and correct subcommand is exec.

## NEW QUESTION # 124

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