

304-200 - LPIC-3 Virtualization & High Availability

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1. Which options to the xl command will deactivate a running Xen virtual machine? (Choose TWO correct answers.)

- A. destroy
- B. remove
- C. shutdown
- D. stop
- E. halt

Answer: A,C

2. Which of the following restrictions is true when using KVM with the User Network?

- A. Virtual Machines must use a SOCKS proxy to connect to the internet.
- B. Virtual Machines can communicate with the host system and with other virtual machines using User Network.
- C. Virtual Machines can only communicate with other virtual machines but not with the host system.
- D. Virtual Machines cannot use ICMP.
- E. Virtual Machines are restricted to only use IPv6 and not IPv4.

Answer: D

3. In order to use the option dom0_mem to limit the amount of memory assigned to the Xen Domain-0, where must this option be specified?

- A. In its Makefile, when Xen is built.
- B. In the configuration file /etc/xen/Domain-0.cfg, when Xen starts.
- C. In the bootloader configuration, when Xen is booted.
- D. In its .config file, when the Domain-0 kernel is built.
- E. In any of Xen's global configuration files.

Answer: C

4. Which of the following statements is true regarding XenStore?

- A. It is a web interface used to provide self-service domain provisioning to users with sufficient privileges.
- B. It saves the persistent configuration of all defined Xen domains and restores them when the host system is started.
- C. It manages disk file images on behalf of all virtual machines and provides them as virtual devices to guest domains.
- D. It stores run time information regarding Xen and its domains using hierarchical namespaces shared between domains.
- E. It is a software repository located within the host system used to provide software packages to the guest domains.

Answer: D

5. A configuration file for a Xen virtual machine was created with file name slack.cfg within Xen's configuration directory. Which of the following commands starts the virtual machine defined in this configuration file and opens the virtual machine's console on the current command line?

- A. xl start slack
- B. xl create slack.cfg --show-console
- C. xl create slack.cfg
- D. xl start slack.cfg -c
- E. xl create slack.cfg-c

Answer: E

6. Which of the following statements are true regarding IaaS computing instances? (Choose TWO correct answers.)

- A. Creation of new instances can be automated by using scripts or APIs and service interfaces.
- B. The root file system of a computing instance is always persistent and can be accessed after the instance is destroyed.
- C. Each and every user of an IaaS cloud has exactly one computing instance.
- D. Once created, computing instances are seldom deleted in order to ensure the accessibility of the instance's data.
- E. Instances may be created when needed and destroyed when they become obsolete.

Answer: A,E

7. Which daemon applies the configuration and commands of libvirt to the virtualization components of the host system?

- A. vmd
- B. virtuald
- C. libvirtmgr
- D. libvirt-worker
- E. libvirtd

Answer: E

8. Which of the following circumstances prevent the usage of container based virtualization? (Choose TWO correct answers.)

- A. More than one container requires access to block devices available in the host system.
- B. Remote access via SSH is required to all containers.
- C. Each container needs to have its own user accounts and user groups.
- D. Administrators of containers must be able to install customized Linux kernels.
- E. Different operating systems are to be used within containers on the same virtualization host.

Answer: D,E

9. Which of the following statements are true about container-based virtualization? (Choose TWO correct answers.)

- A. All containers run within the operating system kernel of the host system.
- B. Different containers may use different distributions of the same operating system.
- C. Each container runs its own operating system kernel.
- D. Container-based virtualization relies on hardware support from the host systems CPU.
- E. Linux does not support container-based virtualization because of missing kernel APIs.

Answer: A,B

10. When preparing a public machine image for the provisioning of new cloud computing instances, which of the following steps should be done? (Choose TWO correct answers.)

- A. Remove all default users and groups, including root and nobody.
- B. Remove all configuration files from /etc/ that were not manually modified.
- C. Remove all confidential data from the image.
- D. Remove all remote login services (i.e. SSH) from the image.
- E. Remove all private SSH keys from the image.

Answer: C,E

11. Which file format is used by libvirt to store configuration data?

- A. INI-style text files
- B. Text files containing key/value pairs
- C. Java-like .properties files
- D. XML files
- E. SQLite databases

Answer: D

12. Which value must be set in the option builder in the configuration file of a Xen guest domain in order to create a fully virtualized machine instead of a paravirtualized one? (Specify ONLY the value without any option name, quotes or operators.)

Answer:

'hvm', "hvm", hvm

13. Which of the following statements are true regarding Xen domains? (Choose TWO correct answers.)

- A. Fully virtualized and paravirtualized domains are managed using the same tools and commands.
- B. Xen domains of all types require virtualization extensions in the host system's CPU.
- C. All fully virtualized domains are called 'Dom0' while all paravirtualized domains are called 'DomU'.

- D. Both paravirtualized and fully virtualized domains may run on the same host system.
- E. Paravirtualized domains are significantly slower than fully virtualized domains.

Answer: A,D

14. Which of the following components are parts of XAPI? (Choose TWO correct answers.)

- A. The XADB configuration management database.
- B. The XAPI virtual file system available at /xen.
- C. The xm command.
- D. The xe command.
- E. The xapi daemon.

Answer: D,E

15. Which of the following resources are directly (i.e. without specialized machine images) available to users of an OpenStack cloud? (Choose THREE correct answers.)

- A. Database servers to store relational data.
- B. Virtual machines for computing tasks.
- C. Application servers for immediate deployment with Mono applications.
- D. Object storage that is accessed through an API.
- E. Block storage devices for persistent data storage.

Answer: B,D,E

16. Which of the following commands can be used to determine whether the local machine is capable of running full virtualized Xen guests? (Choose TWO correct answers.)

- A. `dmesg |grep -i intel|grep -i vt; dmesg |grep -i amd|grep -i v`
- B. `egrep '(vmx|svm)' /proc/cpuinfo`
- C. `xl dmesg | grep -i hvm`
- D. `grep -i "Full Virtualization" /proc/xen`

E. `grep -i "Full Virtualization" /etc/xen/*`

Answer: B,C

17. Which of the following is true regarding the CPU of a KVM virtual machine? (Choose TWO correct answers.)

- A. Each KVM virtual machine can only have one CPU with one core.
- B. KVM virtual machines support multiple virtual CPUs in order to run SMP systems.
- C. The CPU architecture of a KVM virtual machine is independent of the host system's architecture.
- D. For each KVM virtual machine one dedicated physical CPU core must be reserved.
- E. KVM uses the concept of virtual CPUs to map the virtual machines to physical CPUs.

Answer: B,E

18. What is the name of the kernel module that is required to be loaded in order to use KVM on an Intel CPU architecture? (Specify ONLY the module name without any path information and with or without the module suffix.)

Answer:

kvm-intel.ko, kvm-intel, kvm_intel.ko, kvm_intel

19. Which of the following data should be copied to the virtual machine when migrating a physical machine to a virtual machine?

- A. The block device buffers
- B. The CPU flags
- C. The file systems or their content
- D. The CPU register's content
- E. The memory

Answer: C

20. Which command in the KVM monitor ejects the first IDE CDROM drive? (Specify the KVM monitor command INCLUDING ALL REQUIRED PARAMETERS.)

Answer:

eject ide1-cd0, eject -f ide1-cd0

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