Vendor: LPI

Exam Code: 305-300

Exam Name: LPIC-3: Virtualization and Containerization - Exam 305, version 3.0

Version: DEMO

QUESTION 1
What is the purpose of capabilities in the context of container virtualization?

A. Map potentially dangerous system calls to an emulation layer provided by the container virtualization.
B. Restrict the disk space a container can consume.
C. Enable memory deduplication to cache files which exist in multiple containers.
D. Allow regular users to start containers with elevated permissions.
E. Prevent processes from performing actions which might infringe the container.

Answer: E

QUESTION 2
If docker stack is to be used to run a Docker Compose file on a Docker Swarm, how are the images referenced in the Docker Compose configuration made available on the Swarm nodes?

A. docker stack builds the images locally and copies them to only those Swarm nodes which run the service.
B. docker stack passes the images to the Swarm master which distributes the images to all other Swarm nodes.
C. docker stack instructs the Swarm nodes to pull the images from a registry, although it does not upload the images to the registry.
D. docker stack transfers the image from its local Docker cache to each Swarm node.
E. docker stack triggers the build process for the images on all nodes of the Swarm.

Answer: C

QUESTION 3
Which of the following commands executes a command in a running LXC container?

A. lxc-accach
B. lxc-batch
C. lxc-run
D. lxc-enter
E. lxc-eval

Answer: A

QUESTION 4
Which of the following statements in a Dockerfile leads to a container which outputs hello world? (Choose two.)

A. ENTRYPOINT "echo Hello World"
B. ENTRYPOINT ["echo hello world"]
C. ENTRYPOINT ["echo", "hello", "world"]
D. ENTRYPOINT echo Hello World
E. ENTRYPOINT "echo", "Hello", "World*

Answer: BC

QUESTION 5
Which of the following statements are true regarding a Pod in Kubernetes? (Choose two.)

A. All containers of a Pod run on the same node.
B. Pods are always created automatically and cannot be explicitly configured.
C. A Pod is the smallest unit of workload Kubernetes can run.
D. When a Pod fails, Kubernetes restarts the Pod on another node by default.
E. systemd is used to manage individual Pods on the Kubernetes nodes.

Answer: AC

QUESTION 6
Which of the following values would be valid in the FROM statement in a Dockerfile?

A. ubuntu:focal
B. docker://ubuntu: focal
C. registry:ubuntu:focal
D. file:/tmp/ubuntu/Dockerfile
E. http://docker.example.com/images/ubuntu-focal.iso

Answer: A

QUESTION 7
Which CPU flag indicates the hardware virtualization capability on an AMD CPU?

A. HVM
B. VIRT
C. SVM
D. PVM
E. VMX

Answer: C

QUESTION 8
What is the purpose of a .dockerignore file?

A. It lists files existing in a Docker image which should be excluded when building a derivative image.
B. It specifies files that Docker does not submit to the Docker daemon when building a Docker image
C. It exists in the root file system of containers that should ignore volumes and ports provided by Docker.
D. It must be placed in the top level directory of volumes that Docker should never attach automatically to a container
E. It specifies which parts of a Dockerfile should be ignored when building a Docker image.

Answer: B

QUESTION 9
Which file in a cgroup directory contains the list of processes belonging to this cgroup?

A. pids
B. members
C. procs
D. casks
E. subjects

Answer: C

QUESTION 10
What kind of virtualization is implemented by LXC?

A. System containers
B. Application containers
C. Hardware containers
D. CPU emulation
E. Paravirtualization

Answer: A

QUESTION 11
Which of the following statements is true regarding networking with libvirt?

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

Answer: C

QUESTION 12
Which of the following are true regarding the CPU of a QEMU virtual machine? (Choose two.)

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

Answer: AE

QUESTION 13
Which of the following statements about the command lxc-checkpoint is correct?

A. It creates a clone of a container.
B. It doubles the memory consumption of the container.
C. It only works on stopped containers.
D. It writes the status of the container to a file.
E. It creates a container image based on an existing container.

Answer: D

QUESTION 14
The command virsh vol-list vms returns the following error:

```
error: failed to get pool 'vms'
error: Storage pool not found: no storage pool with matching name 'vms
'
```

Given that the directory /vms exists, which of the following commands resolves this issue?

A. dd if=/dev/zero of=/vms bs=1 count=0 flags=name:vms
B. libvirt-poolctl new ?name=/vms ?type=dir ?path=/vms
C. qemu-img pool vms:/vms
D. virsh pool-create-as vms dir --target /vms
E. touch /vms/.libvirtpool

Answer: D

QUESTION 15
Which of the following values are valid in the firmware attribute of a <os> element in a libvirt domain definition? (Choose two.)

A. scsi
B. virtio
C. efi
D. bios
E. pcie

Answer: CD

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