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Question 1

Question Type: MultipleChoice

After setting up a data container using the following command:

```
docker create -v /data --name datastore debian /bin/true
```

how is an additional new container started which shares the /data volume with the datastore container?

Options:

- A- `docker run --share-with datastore --name service debian bash`
- B- `docker run -v datastore:/data --name service debian bash`
- C- `docker run --volumes-from datastore --name service debian bash`
- D- `docker run -v /data --name service debian bash`
- E- `docker run --volume-backend datastore -v /data --name service debian bash`

Answer:

C

Question 2

Question Type: MultipleChoice

How does Packer interact with system images?

Options:

- A-** Packer has to be installed within the target image and is executed during the image's first boot in order to execute preparation tasks.
- B-** Packer installs a client within the image which has to be run periodically via cron in order to retrieve the latest template from the Packer server and apply it locally.
- C-** Packer periodically connects through the network to the Packer daemons of all running Packer images in order to re-apply the whole template to the running instance.
- D-** Packer downloads and extracts an image in order to make changes to the image's file system, repack the modified image and upload it again.
- E-** Packer creates an instance based on a source image, prepares the instance through a network connection and bundles the resulting instance as a new system image.

Answer:

E

Question 3

Question Type: MultipleChoice

Which of the following statements are true about container-based virtualization? (Choose two.)

Options:

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

Answer:

B, D

Question 4

Question Type: MultipleChoice

Which directory is used by cloud-init to store status information and configuration information retrieved from external sources?

Options:

A- /var/lib/cloud/

B- /etc/cloud-init/cache/

C- /proc/sys/cloud/

D- /tmp/.cloud/

E- /opt/cloud/var/

Answer:

A

Question 5

Question Type: MultipleChoice

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

Options:

- 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 6

Question Type: MultipleChoice

What is the purpose of the packer inspect subcommand?

Options:

- A- Retrieve files from an existing Packer image.
- B- Execute commands within a running instance of a Packer image.
- C- List the artifacts created during the build process of a Packer image.
- D- Show usage statistics of a Packer image.
- E- Display an overview of the configuration contained in a Packer template.

Answer:

E

Question 7

Question Type: MultipleChoice

What is the purpose of cloud-init?

Options:

- A- Replace common Linux init systems, such as systemd or SysV init.
- B- Assign an IaaS instance to a specific computing node within a cloud.

- C- Standardize the configuration of infrastructure services, such as load balancers or virtual firewalls in a cloud.
- D- Orchestrate the creation and start of multiple related IaaS instances.
- E- Prepare the generic image of an IaaS instance to fit a specific instance's configuration.

Answer:

E

Question 8

Question Type: MultipleChoice

Which command within virsh lists the virtual machines that are running on the current host?

Options:

- A- l view
- B- list-vm
- C- list
- D- show

E- list-all

Answer:

C

Question 9

Question Type: MultipleChoice

In an IaaS cloud, what is a common method for provisioning new computing instances with an operating system and software?

Options:

- A-** Each new instance is connected to the installation media of a Linux distribution and provides access to the installer by logging in via SSH.
- B-** Each new instance is created based on an image file that contains the operating system as well as software and default configuration for a given purpose.
- C-** Each new instance is a clone of another currently running instance that includes all the software, data and state of the original instance.

- D-** Each new instance is connected via a VPN with the computer that started the provisioning and tries to PXE boot from that machine.
- E-** Each new instance contains a minimal live system running from a virtual CD as the basis from which the administrator deploys the target operating system.

Answer:

B

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