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Lpi LPIC-3 Exam 305: Virtualization and Containerization Sample Questions (Q11-Q16):

NEW QUESTION # 11

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

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

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 mechanism^{1,2}.

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 # 12

Which of the following statements about the command `xc-checkpoint` is correct?

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

Answer: A

NEW QUESTION # 13

Which of the following statements are true about sparse images in the context of virtual machine storage? (Choose two.)

- A. Sparse images are automatically resized when their maximum capacity is about to be exceeded.
- B. Sparse images can only be used in conjunction with paravirtualization.

- C. Sparse images allocate backend storage at the first usage of a block.
- D. Sparse images are automatically shrunk when files within the image are deleted.
- E. Sparse images may consume an amount of space different from their nominal size.

Answer: C,E

NEW QUESTION # 14

Which of the following types of guest systems does Xen support? (Choose two.)

- A. Emulated guests
- B. Paravirtualized guests (PVI)
- C. Container virtualized guests
- D. Fully virtualized guests
- E. Foreign architecture guests (FA)

Answer: B,D

NEW QUESTION # 15

Which of the following commands lists all differences between the disk images vml-snap.img and vml.img?

- A. virt-delta -a vml-snap.img -A vml.img
- B. virt-cp-in -a vml-snap.img -A vml.img
- C. virt-cmp -a vml-snap.img -A vml.img
- D. virt-diff -a vml-snap.img -A vml.img
- E. virt-history -a vml-snap.img -A vml.img

Answer: D

Explanation:

Explanation

The virt-diff command-line tool can be used to list the differences between files in two virtual machines or disk images. The output shows the changes to a virtual machine's disk images after it has been running. The command can also be used to show the difference between overlays¹. To specify two guests, you have to use the -a or -d option for the first guest, and the -A or -D option for the second guest. For example: virt-diff -a old.img -A new.img¹. Therefore, the correct command to list all differences between the disk images vml-snap.img and vml.img is: virt-diff -a vml-snap.img -A vml.img. The other commands are not related to finding differences between disk images. virt-delta is a tool to create delta disks from two disk images². virt-cp-in is a tool to copy files and directories into a virtual machine disk image³. virt-cmp is a tool to compare two files or directories in a virtual machine disk image⁴. virt-history is a tool to show the history of a virtual machine disk image⁵. References:

- * 21.13. virt-diff: Listing the Differences between Virtual Machine Files ...
- * 21.14. virt-delta: Creating Delta Disks from Two Disk Images ...
- * 21.6. virt-cp-in: Copying Files and Directories into a Virtual Machine Disk Image ...
- * 21.7. virt-cmp: Comparing Two Files or Directories in a Virtual Machine Disk Image ...
- * 21.8. virt-history: Showing the History of a Virtual Machine Disk Image ...

NEW QUESTION # 16

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