13.3.4 Practice Questions

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Score: 100%

Passing Score: 80%

▼ Question 1:   ✔ Correct

Linux-based hypervisors, such as Xen, KVM, and QEMU, provide a software-based virtual network switch.

Which of the following is an additional feature provided by a Linux bridge?

➡ ⦿ NAT

○ Multi-homed NICs

○ Overlay network

○ Packet filtering

Explanation

A Linux bridge is a virtual switch. It behaves like a network switch. It offers additional features, such as NAT.

Virtual machines can also be configured as a multi-homed system with multiple virtual NICs.

Overlay networks can be used to connect VMs on different host machines in a way that doesn't expose them to the external network.

Packet filtering is a firewall feature.

References

🖥 **13.2.3 Creating a Virtual Machine**

▷ **13.3.1 Virtual Networking Concepts**

🖥 **13.3.2 Configuring Networking on a Virtual Machine**

☰ **13.3.3 Virtual Networking Facts**

q_virt_net_lp5_bridge.question.fex

▼ **Question 2:**   ✔ Correct

When implementing a network gateway, implementing a firewall, or increasing performance, multiple NICs can be added to a computer.

Which of the following can be implemented on VMs to provide this capability?

➡ ◉ Dual-homed NICs

   ○ An overlay network

   ○ A bridged network

   ○ An switch in isolated mode

Explanation

Physical computers can have multiple NICs connected to multiple subnets to increase performance, use the computer as a network gateway, or use the computer as a network firewall. Virtual machines can also be configured as a multi-homed system with multiple virtual NICs. Depending on your requirements, you can connect each NIC to a separate virtual switch or connect multiple NICs to a single virtual switch. You can link each physical NIC on the host machine to a different virtual switch, or you could link several physical NICs to one virtual switch.

References

🖥 **13.2.3 Creating a Virtual Machine**

▷ **13.3.1 Virtual Networking Concepts**

🖥 **13.3.2 Configuring Networking on a Virtual Machine**

≔ **13.3.3 Virtual Networking Facts**

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▼ Question 3:   ✔ Correct

Which of the following Linux bridge modes is the default?

- ○ Bridged

➡ ● NAT

- ○ Isolated

- ○ Routed

Explanation

NAT mode is the default mode.

References

🖥️ **13.2.3 Creating a Virtual Machine**

▷ **13.3.1 Virtual Networking Concepts**

🖥️ **13.3.2 Configuring Networking on a Virtual Machine**

:= **13.3.3 Virtual Networking Facts**

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
▼ **Question 4:**   ✔ Correct

Which of the following is a function of a virtual network switch?

➡ ⦿   Connects the VMs virtual NIC and the host's
         physical NIC.

   ◯   Reduces local virtual network traffic.

   ◯   Provides proxy and packet filtering.

   ◯   Replaces the need for a physical network
         switch.

Explanation

A virtual network switch works just like a physical network switch. A software connection is made between the virtual switch and the host's physical NIC. A software connection is made between the virtual switch and the virtual machine's virtual NIC.

References

🖥 **13.2.3 Creating a Virtual Machine**

▷ **13.3.1 Virtual Networking Concepts**

🖥 **13.3.2 Configuring Networking on a Virtual Machine**

☰ **13.3.3 Virtual Networking Facts**

q_virt_net_lp5_network.question.fex

▼ **Question 5:**   ✔ Correct

Lynda, a network administrator, has been tasked with connecting the VMs on multiple virtual machine hosts in a way that doesn't expose the VMs to the external network.

Which of the following should you implement?

○ A virtual network switch

➡ ◉ An overlay network

○ Multi-homed virtual NICs

○ A Linux bridge

Explanation

Overlay networks can be used to connect VMs on different host machines in a way that doesn't expose them to the external network.

A Linux bridge is a virtual switch. It behaves like a network switch. It offers additional features, such as NAT.

A virtual network switch works just like a physical network switch.

Virtual machines can also be configured as a multi-homed system with multiple virtual NICs.

References

🖥 **13.2.3 Creating a Virtual Machine**

▷ **13.3.1 Virtual Networking Concepts**

🖥 **13.3.2 Configuring Networking on a Virtual Machine**

▤ **13.3.3 Virtual Networking Facts**

q_virt_net_lp5_overlay_net.question.fex