13.3.4 Practice Questions

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Date: 12/8/2022 8:51:41 pm • Time Spent: 00:14

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?



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

D 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 2: ✓ Co	rrect
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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?

→ (Dua	l-home	d 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.

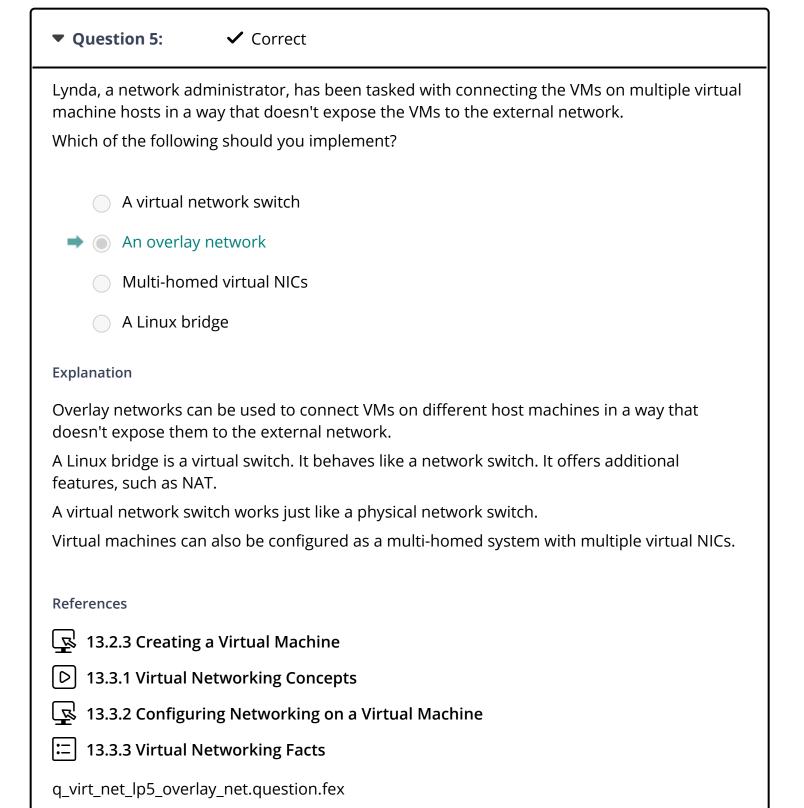
References

- 13.2.3 Creating a Virtual Machine
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- 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
Solated
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
q_virt_net_lp5_nat.question.fex

▼ 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
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