

Exam Report: 13.3.4 Practice Questions

Date: 4/4/28 5:36:12 pm

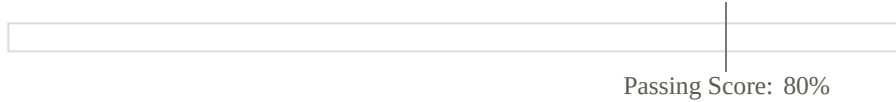
Candidate: Garsteck, Matthew

Time Spent: 1:01

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Individual Responses

▼ Question 1:

Incorrect

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
- ☒ ~~Packet filtering~~
- ☐ Multi-homed NICs
- ☐ Overlay network

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

Linux Pro - 13.3 Virtual Networking

[e_virt_net_lp5.exam.xml Q_VIRT_NET_LP5_BRIDGE]

▼ Question 2:

Incorrect

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?

- ☐ An overlay network
- ☒ ~~A bridged network~~
- ☐ An switch in isolated mode
- ➡ ☐ Dual-homed NICs

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

Linux Pro - 13.3 Virtual Networking

[e_virt_net_lp5.exam.xml Q_VIRT_NET_LP5_DUAL_HOMED]

▼ Question 3: Correct

Which of the following Linux bridge modes is the default?

☐ Isolated

☐ Bridged

☐ Routed

➡ ☒ NAT

Explanation

NAT mode is the default mode.

References

Linux Pro - 13.3 Virtual Networking

[e_virt_net_lp5.exam.xml Q_VIRT_NET_LP5_NAT]

▼ Question 4: Incorrect

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

☐ Reduces local virtual network traffic.

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

☒ 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

Linux Pro - 13.3 Virtual Networking

[e_virt_net_lp5.exam.xml Q_VIRT_NET_LP5_NETWORK]

▼ Question 5: Incorrect

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

Linux Pro - 13.3 Virtual Networking

[e_virt_net_lp5.exam.xml Q_VIRT_NET_LP5_OVERLAY_NET]