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Time taken	18 mins 28 secs			
Grade	8.00 out of 10.00 (80%)			
Question 1				
Incorrect				
Mark 0.00 out of 1.00				

Docker and Kubernetes are examples of technologies commonly associated with which level of virtualization?

- a. Application-level virtualization
- ob. Programming-level virtualization
- o c. OS-level virtualization ×
- od. Hypervisor-level virtualization

The correct answer is: Application-level virtualization

Question 2 Correct Mark1.00 out of 1.00

Which statement accurately describes the relationship between virtualization and operating systems (OS)?

- a. Virtualization enables an OS to run on a virtual machine separate from the host OS.
- b. Virtualization limits the provision capability and increases costs for computing environments.
- oc. Virtualization allows multiple instances of the same OS to run concurrently.
- od. Virtualization restricts the execution of Windows OS on top of a Linux OS.

The correct answer is: Virtualization enables an OS to run on a virtual machine separate from the host OS.

Correct	
Mark 1.00 ou	t of 1.00
How doe	es virtual networking work in a virtualized environment?
○ a.	Each guest has its physical network interface card (NIC)
b.	Guests interact with a virtual network managed by specific software 🗸
O c.	Virtualization does not support networking capabilities
O d.	Guests interact with a physical network without any intermediary software
The corre	ect answer is: Guests interact with a virtual network managed by specific software
Question 4	
Correct	
//ark 1.00 ou	tof1.00
Which o	f the following is a benefit of virtualization?
a.	Reduced hardware costs ✓
a.b.	Reduced hardware costs ✓ Limited scalability opportunities
a.b.c.	Reduced hardware costs Limited scalability opportunities Increased network latency
a.b.	Reduced hardware costs ✓ Limited scalability opportunities
a.b.c.d.	Reduced hardware costs Limited scalability opportunities Increased network latency
a.b.c.d.	Reduced hardware costs Limited scalability opportunities Increased network latency Decreased system performance
Which o	f the following is a benefit of virtualization?
a.b.c.d.	Reduced hardware costs Limited scalability opportunities Increased network latency Decreased system performance
a.b.c.d.	Reduced hardware costs Limited scalability opportunities Increased network latency Decreased system performance
a.b.c.d. The correspond	Reduced hardware costs Limited scalability opportunities Increased network latency Decreased system performance
a.b.c.d. The correspond	Reduced hardware costs Limited scalability opportunities Increased network latency Decreased system performance
a. b. c. d.	Reduced hardware costs Limited scalability opportunities Increased network latency Decreased system performance ect answer is: Reduced hardware costs tof1.00
a. b. c. d. The correct Mark 1.00 ou	Reduced hardware costs Limited scalability opportunities Increased network latency Decreased system performance ect answer is: Reduced hardware costs tof1.00 tualization reference model, what does the term "Guest" represent?
a. b. c. d. The correct Mark 1.00 ou	Reduced hardware costs Limited scalability opportunities Increased network latency Decreased system performance ect answer is: Reduced hardware costs tof1.00 tualization reference model, what does the term "Guest" represent? The system component that interacts with the virtualization layer
a. b. c. d. The correct Mark 1.00 ou In the vii a. b.	Reduced hardware costs Limited scalability opportunities Increased network latency Decreased system performance ect answer is: Reduced hardware costs tof1.00 tualization reference model, what does the term "Guest" represent? The system component that interacts with the virtualization layer The virtual machine manager (VMM)
a. b. c. d. The correct Mark 1.00 ou	Reduced hardware costs Limited scalability opportunities Increased network latency Decreased system performance ect answer is: Reduced hardware costs tof1.00 tualization reference model, what does the term "Guest" represent? The system component that interacts with the virtualization layer

 $The \ correct \ answer \ is: The \ system \ component \ that \ interacts \ with \ the \ virtualization \ layer$

Incorrect	
Mark 0.00 оц	utof1.00
Which le	evel of virtualization offers the most lightweight and efficient solution for deploying applications?
a.	OS-level virtualization ×
O b.	Hypervisor-level virtualization
O c.	Programming-level virtualization
O d.	Application-level virtualization
The corre	ect answer is: Application-level virtualization
Question 7	
Correct	
Mark 1.00 ou	t of 1.00
What is 1	the purpose of a Virtual Machine Manager (VMM) in virtualized environments? To interact directly with physical hardware
a.b.c.d.	To interact directly with physical hardware Restrict access to guest resources To provide a transparent execution environment for the guest
a.b.c.d.	To interact directly with physical hardware Restrict access to guest resources To provide a transparent execution environment for the guest To control and manage virtual hardware for guests
a. b. c. d.	To interact directly with physical hardware Restrict access to guest resources To provide a transparent execution environment for the guest To control and manage virtual hardware for guests ect answer is: To control and manage virtual hardware for guests
a. b. c. d.	To interact directly with physical hardware Restrict access to guest resources To provide a transparent execution environment for the guest To control and manage virtual hardware for guests ect answer is: To control and manage virtual hardware for guests
a. b. c. d.	To interact directly with physical hardware Restrict access to guest resources To provide a transparent execution environment for the guest To control and manage virtual hardware for guests ect answer is: To control and manage virtual hardware for guests ttof1.00 the purpose of VPNs in virtualized environments? To reduce performance and computing capacity
a. b. c. d. The correct Mark 1.00 ou What is 1	To interact directly with physical hardware Restrict access to guest resources To provide a transparent execution environment for the guest To control and manage virtual hardware for guests ect answer is: To control and manage virtual hardware for guests tof1.00 the purpose of VPNs in virtualized environments? To reduce performance and computing capacity To limit access to guest resources
a. b. c. d. The correct Mark 1.00 ou What is 1	To interact directly with physical hardware Restrict access to guest resources To provide a transparent execution environment for the guest To control and manage virtual hardware for guests ect answer is: To control and manage virtual hardware for guests ttof1.00 the purpose of VPNs in virtualized environments? To reduce performance and computing capacity

The correct answer is: To provide a secure connection between physical and virtual networks

Mark 1.00 out of 1.00

Question	9
Correct	
Mark 1.0	0 out of 1.00
Ном	does virtualization contribute to increased security for guest operations?
11000	does virtualization contribute to increased security for guest operations:
	a. By limiting the transparency of the execution environment
	b. By granting unrestricted access to host resources
	c. By hiding or protecting the host from the guest 🗸
	d. By allowing untrusted code to execute freely
The	orrect answer is: By hiding or protecting the host from the guest
Question	10
Correct	
0011000	

What is the fundamental role of virtualization in cloud computing, especially in laas?

- \bigcirc a. Reducing the customization options for computing environments.
- Ob. Creating secure and isolated execution environments for trusted applications only.
- oc. Limiting the scalability of systems in cloud environments.
- lacktriangledown d. Allowing the creation of customizable and isolated execution environments. \checkmark

The correct answer is: Allowing the creation of customizable and isolated execution environments.