Nokia

4A0-AI1

4A0-AI1 An In-Depth Guide to Advanced Artificial Intelligence Techniques

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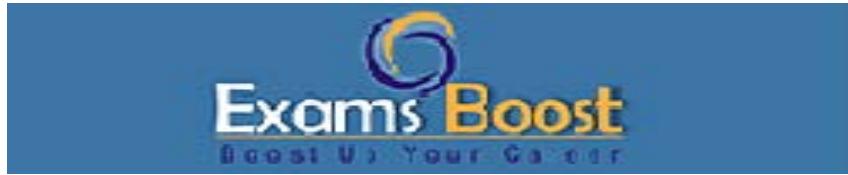
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Question: 1

Which of the following is NOT an advantage of Software-defined Networks (SDN) over traditional networks?

A. Network elements operating autonomously
B. Decoupling of control plane from data plane
C. Centralized controller operations
D. Global view of network's state

Answer: A

Explanation:
SDN does not provide any advantage in terms of having network elements operate autonomously. The other three options are all advantages of SDN over traditional networks.
Network elements operating autonomously is NOT an advantage of Software-defined Networks (SDN) over traditional networks. SDN aims to centralize control plane operations and provide a global view of the network's state, enabling more efficient and flexible network management. By decoupling the control plane from the data plane, SDN separates the management logic from the forwarding hardware, allowing for centralized and programmable network control.
some of the advantages of Software-defined Networks (SDN) over traditional networks are:
Traffic programmability
Agility
Policy-driven network supervision
Network automation
Centralized controller operations
Decoupling of control plane from data plane
Global view of network's state

Question: 2

Which of the following is NOT an advantage of Software-Defined Networks (SDN) over traditional networks?

A. Network logic is centrally integrated at the controller level
B. Applications communicate directly with the controller
C. An integrated control plane and data plane
D. Greater agility in automating, monitoring, and provisioning network infrastructure

Answer: C

Explanation:
An integrated control plane and data plane is NOT an advantage of Software-Defined Networks (SDN) over traditional networks. SDN separates the control plane from the data plane, enabling more efficient and flexible network management. By centralizing the network logic at the controller level, applications can communicate directly with the controller, allowing for greater agility in automating, monitoring, and provisioning network infrastructure.

some of the advantages of Software-Defined Networks (SDN) over traditional networks are:
Traffic programmability
Agility
Policy-driven network supervision
Network automation
Centralized controller operations
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Question: 3

Which of the following is NOT a benefit of virtualization?

A. Reduced capital and operating costs
B. Better scalability
C. Vendor agnostic
D. Software and hardware are tightly coupled

Answer: D

Explanation:
some of the benefits of virtualization are:
Reduced capital and operating costs
Better scalability
Vendor agnostic
Higher availability and resiliency
Environmentally friendly
Virtualization enables decoupling of the software and hardware components, so that software can be deployed on any hardware platform without requiring the hardware to be specifically designed for the software. The other three options are all benefits of virtualization.
Software and hardware are tightly coupled is NOT a benefit of virtualization. Virtualization allows software to run independently of the hardware, enabling greater flexibility and scalability. This leads to reduced capital and operating costs, as well as vendor agnostic solutions.

Question: 4

"The automated configuration, coordination, and management of large virtualized systems, middleware, and services" describes which of the following?

A. Hypervisor
B. Orchestrator
C. Operating system
D. Container runtime engine

| **Answer: B** |

Explanation:
orchestration is the automated configuration, coordination, and management of computer systems and software. Orchestration takes advantage of several tasks that are usually automated to create a more complex workflow.
An orchestrator is a software tool that is used to automate the configuration, coordination, and management of large virtualized systems, middleware, and services. The other three options are not related to the automated configuration, coordination, and management of large virtualized systems, middleware, and services.
Orchestrator is described as "the automated configuration, coordination, and management of large virtualized systems, middleware, and services." The orchestrator is a key component of network automation, enabling the automation and management of complex network functions across multiple devices and platforms.

Question: 5

Which of the following is NOT a characteristic of Containers?

A. Predictable
B. Repeatable
C. Ever-changing
D. Self-contained

| **Answer: C** |

Explanation:
some of the characteristics of containers are:
Resistant and strong
Designed to facilitate transport of goods
Easy for stuffing or destuffing
Fitted with facilities for easy handling
Airtight and water-resistant
Predictable and repeatable
Self-contained and isolated
Ever-changing is not a characteristic of containers. Containers are designed to be predictable, repeatable, and self-contained. They are isolated from the underlying infrastructure and provide a consistent environment for applications to run in, regardless of the host OS.

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