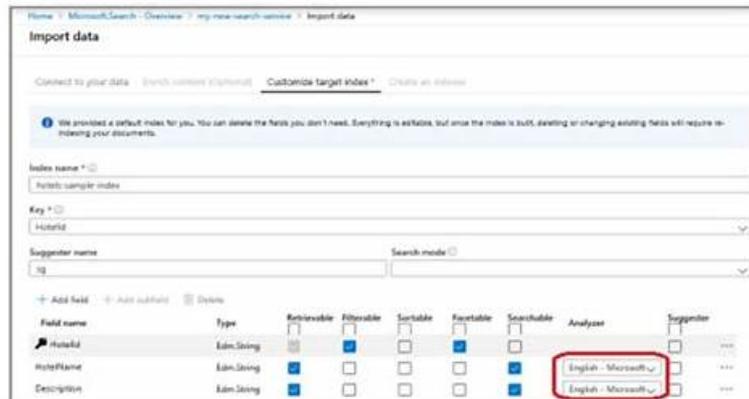


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## AI CERTs AI+ Network Examination Sample Questions (Q39-Q44):

### NEW QUESTION # 39

(How does network virtualization enhance infrastructure management?)

- A. By allocating storage dynamically across different environments.
- B. By packaging applications for use across various platforms.
- C. By enabling isolated virtual networks to operate on shared physical hardware.
- D. By allowing multiple operating systems to run on a single server.

**Answer: C**

Explanation:

Network virtualization enhances infrastructure management by enabling multiple isolated virtual networks to operate on shared physical hardware. AI+ Network documentation explains that network virtualization abstracts physical networking resources into logical networks that can be independently managed, secured, and scaled.

This approach allows organizations to deploy segmented networks for different applications, tenants, or departments without requiring separate physical infrastructure. Network virtualization improves agility, simplifies provisioning, and reduces operational costs by maximizing hardware utilization.

Options such as running multiple operating systems relate to hardware virtualization, while application packaging and storage allocation address different virtualization domains. AI+ Network materials consistently identify network virtualization as a key

enabler of scalable, flexible, and multi-tenant cloud and enterprise networks.

#### NEW QUESTION # 40

(How can SDN controllers enhance VNET management?)

- A. Simplified local configuration
- **B. Automated task provisioning**
- C. Decentralized control
- D. Limited visibility into the network

**Answer: B**

Explanation:

Software-Defined Networking (SDN) controllers enhance Virtual Network (VNET) management primarily through automated task provisioning. AI+ Network documentation explains that SDN introduces a centralized control plane that separates network intelligence from the data plane, enabling programmatic control of network behavior.

With SDN controllers, administrators can automatically provision network services such as routing, access control, segmentation, and bandwidth allocation across virtual networks. This automation reduces manual configuration errors and ensures consistency across large-scale environments. SDN controllers also enable rapid deployment of new services, dynamic policy enforcement, and real-time network optimization.

Options such as decentralized control and simplified local configuration contradict SDN's centralized, policy-driven design. Limited visibility is the opposite of SDN's advantage, as SDN provides enhanced, global visibility into network state. AI+ Network materials emphasize SDN controllers as key enablers of scalable, agile, and automated VNET management.

#### NEW QUESTION # 41

(How does Python's Netmiko library simplify network automation?)

- A. By automating application deployment on cloud platforms.
- B. By managing Kubernetes clusters for container orchestration.
- **C. By supporting multi-vendor environments for device configuration.**
- D. By integrating deep learning algorithms for anomaly detection.

**Answer: C**

Explanation:

Python's Netmiko library simplifies network automation by supporting multi-vendor environments for device configuration. AI+ Network automation documentation highlights Netmiko as a Python-based abstraction layer built on SSH that enables consistent interaction with network devices from multiple vendors, including Cisco, Juniper, Arista, and HP.

Netmiko removes the complexity of vendor-specific CLI nuances by providing standardized connection methods and command execution functions. This allows network engineers to automate repetitive configuration and validation tasks using a single script rather than maintaining separate workflows for each platform.

Unlike tools focused on AI analytics or container orchestration, Netmiko is purpose-built for network device management, making it ideal for configuration backups, bulk changes, and compliance checks. AI+ Network materials emphasize Netmiko as a foundational automation tool that bridges traditional networking and programmable infrastructure.

#### NEW QUESTION # 42

(Scenario: A multinational corporation faces an issue where employees working remotely often connect to corporate resources using unsecured devices. Despite enforcing strong password policies, they still encounter breaches due to compromised endpoints. The security team needs a strategy to ensure only compliant devices can access sensitive resources while minimizing user disruption.

Question: What approach should the corporation adopt to resolve this issue?)

- **A. Implement Zero Trust Architecture to verify user and device compliance.**
- B. Enforce stricter password policies to enhance user authentication security.
- C. Deploy network segmentation to isolate critical resources from remote access.
- D. Restrict remote access entirely to prevent breaches from unsecured devices.

**Answer: A**

Explanation:

Implementing a Zero Trust Architecture (ZTA) is the most effective approach for securing access from remote and potentially unsecured devices. AI+ Network security documentation explains that Zero Trust operates on the principle of "never trust, always verify," requiring continuous validation of both user identity and device posture before granting access.

Unlike traditional perimeter-based security, Zero Trust evaluates device compliance factors such as operating system health, patch status, and endpoint security controls. Access is granted dynamically and contextually, minimizing disruption while significantly reducing risk. Even authenticated users are restricted to least-privilege access.

Stricter passwords alone do not address compromised endpoints, and completely restricting remote access harms productivity.

Network segmentation helps limit damage but does not verify endpoint integrity. AI+ Network frameworks clearly identify Zero Trust as the preferred model for modern, distributed workforces.

#### NEW QUESTION # 43

(What is the purpose of VLANs in a network?)

- A. To replace the need for network switches and routers.
- **B. To logically divide a physical network into isolated segments.**
- C. To enhance physical connectivity between devices.
- D. To provide internet access to all connected devices.

**Answer: B**

Explanation:

Virtual Local Area Networks (VLANs) are used to logically divide a single physical network into multiple isolated broadcast domains. According to AI+ Network foundational documentation, VLANs allow network administrators to group devices based on function, department, or security requirements rather than physical location.

By segmenting a network logically, VLANs improve security by limiting broadcast traffic and reducing the scope of potential attacks. Devices in different VLANs cannot communicate directly without routing, which allows administrators to enforce access control policies. VLANs also enhance performance by reducing unnecessary broadcast traffic across the entire network.

VLANs do not enhance physical connectivity, provide internet access by themselves, or replace networking hardware. Instead, they work in conjunction with switches and routers to create scalable, secure, and efficient network architectures. AI+ Network materials consistently identify VLANs as a core technique for network segmentation and traffic management.

#### NEW QUESTION # 44

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