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Exam : AI-200

**Title : Developing AI Cloud
Solutions on Azure (beta)**

Version : DEMO

1.An AI application needs to access a SQL database. To improve security, you want to eliminate the use of passwords entirely in the application's connection string.

What should you implement?

- A. Shared Access Signatures
- B. IP Whitelisting
- C. Azure Key Vault Secrets
- D. Microsoft Entra ID (Azure AD) Authentication with Managed Identity

Answer: D

Explanation:

Using Managed Identity with Entra ID authentication allows the application to connect to Azure SQL without any credentials in the code or configuration files.

2.An AI workload on AKS is failing to pull an image from Azure Container Registry (ACR). You verify the Managed Identity has 'AcrPull' permissions.

What is the most likely networking issue?

- A. The ACR has its firewall enabled and doesn't allow the AKS VNet
- B. The AKS cluster is in the wrong region
- C. The Dockerfile is missing an ENTRYPOINT
- D. The pod needs more CPU

Answer: A

Explanation:

If the ACR firewall is enabled, you must either allow the AKS VNet/Subnet or use a Private Endpoint to allow the cluster to reach the registry securely.

3.An AI application on AKS needs to store a client secret for a 3rd party API. You want to use 'Azure Key Vault' but you want the secret to appear as a 'File' inside the pod's filesystem.

Which component do you need?

- A. Helm Chart
- B. Istio Service Mesh
- C. Azure Disk Driver
- D. Secrets Store CSI Driver

Answer: D

Explanation:

The Secrets Store CSI Driver allows you to mount secrets from Key Vault into a Kubernetes pod as a local volume (file), providing a secure and familiar developer experience.

4.An AI agent on AKS is running out of memory during peak processing. You want to automatically move the pod to a node with more RAM.

Which Kubernetes feature handles this?

- A. ReplicaSet
- B. Service Account
- C. Horizontal Pod Autoscaler (HPA)
- D. Vertical Pod Autoscaler (VPA)

Answer: D

Explanation:

Vertical Pod Autoscaler (VPA) automatically adjusts the CPU and memory 'requests' for your pods, allowing them to scale up in size (vertically) on larger nodes as needed.

5. An AI agent needs to store the 'Context' of a conversation (the last 10 messages). You want to use a NoSQL database that offers sub-10ms latency for global users.

Which service should you choose?

- A. Azure Cosmos DB
- B. Azure SQL
- C. Azure Data Lake
- D. Azure Archive Storage

Answer: A

Explanation:

Azure Cosmos DB is designed for high-performance, globally distributed applications, providing the low-latency document storage required for maintaining AI agent state.