MDAI-26 - MOC AI-200T00 - DEVELOP AI CLOUD SOLUTIONS ON AZURE

Categoria: **Data & AI**

INFORMAZIONI SUL CORSO

Durata:	Categoria:	Qualifica Istruttore:	Dedicato a:	Produttore:
5 Giorni	Data & AI	Microsoft Certified Trainer	Sviluppatore	Microsoft

OBIETTIVI

This course teaches developers how to create, monitor, and troubleshoot AI solutions on Microsoft Azure. Students will learn how to implement Azure compute and containerization patterns to host applications, build serverless APIs with Azure Functions, and integrate services using event-driven and message-based architectures such as Azure Service Bus and Event Grid. The course also covers working with Azure data services that support AI workloads, including designing and querying solutions with Cosmos DB for NoSQL, Azure Database for PostgreSQL with pgvector, and Azure Managed Redis for caching, streaming, and vector search. By the end of the course, developers will be able to connect services, orchestrate AI workflows, and build secure, scalable, and observable AI-driven applications on Azure.

PREREQUISITI

-Programming experience with languages such as Python, JavaScript, or C#.
-Basic understanding of Azure services and cloud computing concepts.
-Familiarity with containerization fundamentals.

CONTENUTI

Implement container application hosting on Azure

-Store and manage containers in Azure Container Registry
-Deploy containers to Azure App Service
-Run sidecar-enabled AI applications on Azure App Service

Deploy and manage apps on Azure Container Apps

-Deploy containers to Azure Container Apps
-Manage containers in Azure Container Apps
-Scale containers in Azure Container Apps

Deploy and monitor applications on Azure Kubernetes Service

-Deploy applications to Azure Kubernetes Service
-Configure applications on Azure Kubernetes Service
-Monitor and troubleshoot applications on Azure Kubernetes Service

Develop AI solutions with Azure Cosmos DB for NoSQL

- -Build queries for Azure Cosmos DB for NoSQL
- -Implement vector search on Azure Cosmos DB for NoSQL
- -Optimize query performance for Azure Cosmos DB for NoSQL

Develop AI solutions with Azure Database for PostgreSQL

- -Build and query with Azure Database for PostgreSQL
- -Implement vector search with Azure Database for PostgreSQL
- -Optimize vector search in Azure Database for PostgreSQL

Enhance AI solutions with Azure Managed Redis

- -Implement data operations in Azure Managed Redis
- -Implement event messaging with Azure Managed Redis
- -Implement vector storage in Azure Managed Redis

Integrate backend services for AI solutions

- -Queue and process AI operations with Azure Service Bus
- -Develop event-driven AI workflows with Azure Event Grid
- -Build serverless AI backends with Azure Functions
- -Orchestrate durable AI workflows with Azure Durable Functions

Manage application secrets and configuration for AI solutions

- -Manage application secrets with Azure Key Vault
- -Manage application settings with Azure App Configuration

Observe and troubleshoot apps on Azure

- -Instrument an app with OpenTelemetry
- -Analyze app telemetry with logs and metrics

INFO

Esame: AI-200 - Developing AI Cloud Solutions on Azure
Materiale didattico: Materiale didattico ufficiale Microsoft in formato digitale
Costo materiale didattico: incluso nel prezzo del corso a Calendario
Natura del corso: Operativo (previsti lab su PC)