

**Developing Solutions for
Microsoft Azure**



Online Course



Learn Remotely..!!!

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Course Modules



1. Introduction to Azure Development:

- Overview of Azure development tools and services
- Understanding Azure development environments
- Exploring Azure SDKs and APIs

2. Azure App Service:

- Building web applications with Azure App Service
- Configuring deployment slots and deployment options
- Implementing auto-scaling and load balancing

3. Azure Functions:

- Introduction to serverless computing with Azure Functions
- Creating and deploying serverless functions
- Trigger functions with Azure Event Grid and Azure Logic Apps

4. Azure Storage Development:

- Azure Blob Storage, Azure Table Storage, & Azure Queue Storage
- Implementing file storage solutions with Azure Files
- Developing applications with Azure Storage SDKs

5. Azure SQL Database Development:

- Developing applications with Azure SQL Database
- Data access & querying with Entity Framework & ADO.NET
- Managing database schema and data migrations



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6. Azure Cosmos DB:

- Introduction to Azure Cosmos DB and its key features
- Developing globally distributed applications with Cosmos DB
- Implementing data access with Cosmos DB SDKs and APIs

7. Azure Cognitive Services:

- Introduction to Azure Cognitive Services APIs
- Integrate AI and machine learning capabilities into applications
- Dvlp app for vision, speech, language, & vknowledge processing

8. Azure DevOps and CI/CD:

- Integration and continuous deployment (CI/CD) pipelines
- Automating testing and deployment processes
- Integrating Azure services with Azure DevOps pipelines

9. Azure Security and Identity:

- Implementing authentication and authorization
- Securing Azure resources and data with Azure Key Vault
- Implementing secure coding practices and data encryption



10. Monitoring and Logging:

- Implementing logging and monitoring solutions
- Config alerts and notifications for app health & performance
- Analyzing telemetry data and logs for tshoot and optimization

11. Scalability and Performance Optimization:

- Designing applications for scalability and high availability
- Implementing caching solutions with Azure Cache for Redis
- Optimizing application performance and resource utilization

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12. Microservices and Containers:

- Developing microservices-based applications
- Cntrnz app with Docker and Azure Container Instances (ACI)
- Manage containerized applications with Azure KB Service (AKS)

13. Serverless Architecture Patterns:

- Exploring serverless architecture patterns and best practices
- Designing and developing event-driven serverless applications
- Implementing durable functions and stateful workflows

14. Azure IoT Development:

- Introduction to Azure IoT services and solutions
- Developing IoT solutions with Azure IoT Hub and Azure IoT Edge
- Integrating IoT devices and sensors into applications

15. Azure API Management:

- Introduction to Azure API Management
- Create, publishing, and securing APIs with Azure API Mgmt
- Implementing API policies and rate limiting

16. Data Integration and ETL:

- Integrating data sources and systems with Azure Data Factory
- Implementing Extract, Transform, Load (ETL) processes
- Building data pipelines for analytics and reporting



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The efficiency of online learning
in terms of time management,
flexibility, and the ability
to access resources anytime,
anywhere can be compelling.



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