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Learning Style: On Demand

Provider: Microsoft

Difficulty: Advanced

Course Duration: 25 Hours

Architecting Microsoft Azure Solutions



About this Course:

This advanced-level course is designed for IT Professionals & Experts striving to master the art of designing and implementing complex Microsoft Azure Solutions. This course will help professionals develop the advanced skill set required to design public and hybrid cloud solutions. This is a perfect course for professionals with the

basic knowledge of Microsoft Azure Solutions and wants to master the designing & implementation skills. On average, an Azure Solution Architect earns \$118,500 annually.

This course also encompasses a final practice exam requiring Azure Subscription. Candidates can use their existing Microsoft Azure account or sign up for Azure Trial Subscription. The final assessment is not mandatory for all and the candidates can complete this course and earn the certification without the completion of the final assessment.

Course Objectives:

The core objective of this course is to help professionals develop a better understanding and sound knowledge of the following key concepts:

- Fundamentals and Essentials of Cloud Infrastructure Development
- Networking and Infrastructure in Microsoft Azure
- Web Apps and Application Services Design and Azure SQL Database
- Azure Resource Manager (ARM) Templates
- Designing Advanced Applications and Securing Resources & Storages
- Data Access and Application Storage Design
- Azure Networking and Virtual Machines Design Principles
- Designing Monitoring and Management Strategy
- Business Continuity Strategy Design and Azure Backup & Restoration Options

Audience:

- Cloud Architects & IT Professionals
- Solution Architects

Prerequisites:

Professionals planning to enroll in the Architecting Microsoft Azure Solutions course must comply with the following prerequisites:

- Understanding Infrastructure Management and Web Apps Implementation
- Knowing the Best Practices for the Development of Scalable & Resilient Applications
- Familiarity with Data and Storage Services Implementation
- Know-how of Mobile and Cloud Services Management & Implementation
- Media and CDNs Services Implementation Knowledge
- Understanding Azure Active Directory Implementation for Application Security
- Knowledge of Azure Resources Integration and Automation through PowerShell

Course Outline:

Module 1: Design Principles for Cloud Infrastructure and Development

- Cloud Application Common Patterns
- Design for Performance
- Design for Resiliency
- Design for Scalability
- Practice
- Module Assessment

Module 2: Designing App Service Web Apps

- Introducing Web Apps
- Web App Features
- Designing for Business Continuity
- Advanced App Service Scenarios
- Azure SQL Database
- Web Apps & SQL Case Study
- Module Assessment

Module 3: Introduction to Azure Resource Manager

- Introducing Azure Resource Manager (ARM)
- ARM Templates
- Practice
- Module Assessment

Module 4: Designing Application Storage & Data Access

- Azure Storage
- Mobile Apps
- DocumentDB
- Other Storage Options
- Service Bus
- Mobile Apps Case Study
- Practice
- Module Assessment

Module 5: Securing Resources

- Identities
- Compute Security
- Subscription Security
- Securing Storage
- Module Assessment

Module 6: Design Microsoft Azure Infrastructure and Networking

- Azure Networking Options
- Hosting Azure Compute Services in Network Infrastructure
- Advanced Networking Considerations

- Advanced Virtual Machine Considerations
- Networking Case Study
- Module Assessment

Module 7: Designing an Advanced Application

- Compute-Intensive Applications
- Long-Running Applications
- Deploying a Web API to Azure Web Apps
- Extending Solutions with Azure Services
- Managing Identity
- Practice
- Module Assessment

Module 8: Designing a Management, Monitoring Strategy

- Monitoring Existing Applications
- Updating Existing Applications
- Configuration Management Automation
- Practice
- Module Assessment

Module 9: Designing a Business Continuity Strategy

- Windows Server Backup Options
- Azure Backup Options
- Business Continuity Case Study
- Module Assessment

Final Assignments

- App Service Case Study
- App Service Deployment Lab
- Final Assessment
- Course Wrap-up?

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