



*Training Course:
Microsoft AZ-305 - Azure Solutions Architect
Expert (Exam Prep)*

*4 - 15 November 2024
Madrid (Spain)
Pestana CR7 Gran Vía*

Training Course: Microsoft AZ-305 - Azure Solutions Architect Expert (Exam Prep)

Training Course code: IT1996 From: 4 - 15 November 2024 Venue: Madrid (Spain) - Pestana CR7 Gran Vía Training
Course Fees: 9240 € Euro

Introduction:

This training program is designed to provide participants with a comprehensive understanding of Microsoft Azure and equip them with the skills required to design and implement Azure solutions. Participants will gain practical knowledge of various Azure services and learn how to architect solutions that meet specific business requirements.

Objectives:

By the end of this training program, participants will be able to:

- Understand the fundamental concepts of cloud computing and Microsoft Azure.
- Design and deploy Azure virtual machines and configure networking.
- Utilize Azure storage and data services effectively.
- Implement and manage Azure identity and access management.
- Design and implement Azure app services.
- Implement and manage Azure containers and serverless computing.
- Secure Azure resources and data.
- Monitor and troubleshoot Azure solutions.

Target Audience:

This training program is suitable for:

- IT professionals aspiring to become Azure solutions architects.
- System administrators and developers working with Azure.
- Individuals preparing for the Microsoft AZ-305 certification exam.

Outline:

Day 1:

Introduction to Azure and Cloud Computing 5 hours

- Introduction to cloud computing and its benefits
- Overview of Microsoft Azure and its key features
- Understanding Azure subscriptions and management groups
- Exploring Azure Resource Manager and Azure portal
- Introduction to Azure PowerShell and Azure CLI

Day 2:

Azure Virtual Machines and Networking 5 hours

- Creating and managing Azure virtual machines
- Understanding virtual machine sizes and types
- Configuring virtual machine availability sets and scale sets
- Introduction to virtual network concepts and components
- Exploring Azure networking services such as Virtual Network VNet, Subnet, Load Balancer, and Application Gateway

Day 3:

Azure Storage and Data Services 5 hours

- Introduction to Azure storage services Blobs, Files, Tables, Queues
- Exploring Azure Blob storage and Azure File storage
- Utilizing Azure Table storage and Azure Queue storage
- Implementing data backup and recovery strategies in Azure
- Integrating Azure storage services into Azure solutions

Day 4:

Azure Identity and Access Management 5 hours

- Understanding Azure Active Directory AD and its features
- Configuring Azure AD tenants and directories
- Managing Azure AD users, groups, and roles
- Implementing multi-factor authentication and conditional access
- Securing Azure resources using Azure RBAC

Day 5:

Azure App Services 5 hours

- Introduction to Azure App Services and its components
- Deploying and managing web apps in Azure
- Configuring app service plans and scaling options
- Implementing Azure Logic Apps and Azure Functions
- Monitoring and troubleshooting Azure app services

Day 6:

Azure Containers and Serverless Computing 5 hours

- Introduction to Azure containers and containerization concepts
- Deploying and managing containers in Azure using Azure Container Instances and Azure Kubernetes Service AKS
- Exploring serverless computing in Azure with Azure Functions and Logic Apps
- Scaling and managing serverless applications in Azure

Day 7:

Azure Security and Compliance 5 hours

- Implementing security measures in Azure
- Securing network traffic using Network Security Groups and Azure Firewall
- Configuring Azure Key Vault for secrets management
- Implementing Azure Security Center and Azure Policy
- Ensuring compliance and governance in Azure

Day 8:

Azure Monitoring and Diagnostics 5 hours

- Implementing Azure Monitor for monitoring and alerting
- Analyzing and troubleshooting Azure solutions using Azure Monitor logs and metrics
- Utilizing Azure Application Insights for application performance monitoring
- Implementing Azure Log Analytics for centralized log management
- Configuring and using Azure Monitor workbooks and dashboards

Day 9:

Azure Solutions Design and Architecture 5 hours

- Designing Azure solutions for availability, scalability, and resilience
- Planning and implementing data migration to Azure
- Integrating on-premises infrastructure with Azure
- Designing hybrid cloud solutions using Azure Arc and Azure Stack
- Evaluating and selecting the appropriate Azure services for specific scenarios

Day 10:

Review and Exam Preparation 5 hours

- Reviewing key concepts and topics covered throughout the training program
- Discussing best practices and real-world scenarios
- Exam preparation tips and strategies
- Practice questions and quizzes
- Q&A session and final review

Registration form on the Training Course: Microsoft AZ-305 - Azure Solutions Architect Expert (Exam Prep)

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3 Oudai street, Aldouki,
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