ABOUT AZ-204 AZURE DEVELOPER ASSOCIATE:

The AZ-204 Azure Developer Associate for developers or software engineers. This course is for software developers who build applications and services using Azure technologies. It majorly involves Azure PAAS Services, developing Azure compute solutions, developing for Azure storage, and implementing Azure security.

COURSE OBJECTIVES:

At the end of this training, you will be able to

- Provisioning and Deploying Web Based applications to Azure Service.
- Understand when to perform horizontal and vertical scaling.
- Monitoring application performance and other metrics.
- Able to use Storage account for uploading and downloading files to and from an application.
- Basic understanding of NoSQL Storage using Table API.
- Executing background tasks using Serverless Azure Function App.
- Exploring the features of API Management for exposing RESTFull API's
- Developing Asynchronous communicating applications using Service Bus Queue and Topics.
- Storing and accessing secrets securely.
- Building workflows using Logic App without writing any code.
- Building secure web-based applications using Entra AD.

PRE-REQUISITE

While there are no strict prerequisites, Individuals with expertise in one or more programming languages would benefit the most.

WHO CAN DO THIS COURSE

Software Developer involved building modern application using various cloud-based services.
Solution Architects responsible in making decisions about which services are appropriate to a given requirement based on features, cost, and maintenance.

TRAINING AT DECCANSOFT:

- This course is delivered by Mr. Sandeep Soni who has 27+ years of experience.

- We teach every topic conceptually and then demonstrate the same practically with real-time use cases so that you can directly implement the gained knowledge in your on-job role.

- You will get the courseware which is of very high standard and will be very helpful in preparation for interviews.

- You can practice all exercises with the Azure Subscription we provide.

- You can access videos and live sessions under the same subscription. Videos can be used for learning the subject and practicing. Live sessions can be used for directly interacting with trainer and clarifying doubts then and there.

- Every week we schedule a Q&A session for clarifying any questions you may have.

- If you follow the journey laid out by Mr. Sandeep Soni, we assure you 100% guaranteed Azure Certification.

OUR TRAINING METHODOLOGY:

In this course, we will start with the basics about Cloud Computing and covering many Azure PaaS and IaaS services while understanding, how to build, manage and deploy various services step by step in the Azure cloud. The teaching methodology of Mr. Sandeep Soni is very simple yet comprehensive. He **creates a journey** for the student who starts with basics and builds the subject step-by-step before moving towards an advanced topic. Every topic is dealt with **conceptually** and is followed by a **practical demonstration** of the same with some use-cases. This will give you the experience of working with a live project in real-time scenarios. The same is reflected in our syllabus for your detailed reference.

WHAT WILL YOU GET FROM DECCANSOFT IN THIS TRAINING?

- You will get 6 months of pre-recorded video access.

- One year of live training access (For revision, you can attend all the live batches for your course multiple times in one year)

- Detailed and Complete Azure Tutorial/ Azure Course Syllabus prepared by Mr. Sandeep Soni himself and the same can be used for practice and reference.

- You will get 2-month portal access for practice (shared subscription with Deccansoft) – This is supposed to be used while practicing when live sessions are going on. You can extend this by paying additional nominal fees on need basis.

AZ-204 AZURE DEVELOPER ASSOCIATE CERTIFICATION:

The AZ-204 Azure Developer Certification is a game-changer for developers. It's a key to a stable and rewarding career, providing a solid grasp of Microsoft Azure and how code works effectively in the Azure landscape. With this certification, you not only enhance your skills but also gain practical experience in handling Azure Functions, paving the way for exciting career prospects.

Certification Skills Measured:

- Develop Azure compute solutions (25-30%)
- Develop for Azure storage (15-20%)
- Implement Azure security (20-25%)
- Monitor, troubleshoot, and optimize Azure solutions (15-20%)
- Connect to and consume Azure services and third-party services (15-20%)

AZURE SUITE PACKAGE

This program comes as part of the Microsoft Azure Suite package. We recommend subscribing to this bundle as it offers a comprehensive understanding of all significant Azure Services, covering both Infrastructure as a Service (IaaS) and Platform as a Service (PaaS). It also enhances your comprehension of how those deploying applications manage the underlying infrastructure. Additionally, this package includes the opportunity to pursue a career path as an Azure Solution Architect.

You can find more information and benefits of this package from

https://www.bestdotnettraining.com/packages/complete-microsoft-azure-training

COURSE OUTLINE:

Cloud Computing Introduction

- What is Cloud Computing
- Cloud Characteristics
- Cloud Computing Service Models
- Deployment Models in Cloud Computing
- Advantages and Disadvantages of Cloud Computing
- Cloud Computing Job Roles.
- Cloud Computing Platforms and Certifications.

Getting Starting with Azure

- Introduction to Azure
- Why, What and Benefits of Azure
- Azure Hosting Models

- Azure Services
- Subscribing to Microsoft Azure
- Azure Portals
- Azure Key Concepts
- Azure Resource Group
- Installing Microsoft Azure SDK

App Services – Web App

- Introduction
- App Service - Application Types
- Deploy Web Apps
- App Service plans
- Configuring Web Apps
- Manage App Services
- Configure Web Apps for scale and resilience
- Monitoring, Debugging and Diagnosis
- Azure Traffic Manager to Scale out Globally

Azure Monitoring

- Azure Monitor Overview
- Application Insight
- Monitoring Metrics
- Monitoring Logs
- Azure Activity Logs
- Azure Diagnostics Logs

Azure Storage Service

- About Storage Service and Account
- Creating a Storage Account
- Working with Blob Storage
- Manage Access / Securing Storage
    - Create and Manage Shared Access Signature
    - Account SAS vs Service SAS
    - Using Stored Access Policies
    - Regenerating Keys
- Programming BLOB Storage
- Working with Table Storage
- Programming Table Storage
- Azure Queues Storage

Azure Functions Apps

- About Azure Functions.
- Create and Configure an Azure Function
- Create an event processing function
    - o Timer Triggered Function
    - o Blog Storage Triggered Function
- Implement an Azure-connected functions
    - o Adding message to Storage Queue
    - o Connecting to SQL Database
- Implement input and output bindings
- Creating Azure Functions through Visual Studio

Azure App Service - Logic Apps

- Introduction
- Triggers and Actions
- Creating a Simple Logic App
- Handling array of Items using for-each and condition
- Logic App with Variables
- Add Custom Function with Azure Function
- Using Custom API App in Logic App
- Azure Functions vs Logic Apps

API Management Gateway

- Overview of API Management
- Components of API Management System.
- API Apps vs API Management.
- Create and Document API using Development Portal
- Configure API management policies.
- Protect APIs with rate limits.
- Add caching to improve performance.

Azure CosmosDB Service

- What is CosmosDB
- Global Replication and Consistency Levels
- Understanding SQL Model database Schema
- Adding / Editing / Deleting and Reading Containers

Azure Service Bus

- Service Bus Basics
- Relayed Messaging

- Service Bus Queues
- Topics and Subscriptions
- Handling Transactions
- Handling Sessions

Azure Event Grid

- Introduction
- How it works?
- Key Features of Event Grid.
- Event Source and Event Handlers.
- Route storage events to Azure Functions.
- Monitor VM changes using Event Grid and Logic Apps.

Event Hub

- Overview
- Key Architecture Components
- Sample Event Producer and Consumer in C#
- Comparing with Service Bus Queues and Topics.

Azure Key Vault

- Secrets vs Keys
- Accessing Keys and Secrets
- Use cases for Key Vault
- System and User Assigned Identity

Azure Redis Caching

- Caching Overview
- What is Redis Cache
- Creating a Redis Cache
- Developing Redis Cache Client
- Controlling Expiration

Azure Container Registry

- Azure Container Registry
- Azure Container Instance
- Deploying Images to App Services

Secure Applications using Microsoft Entra ID

- Application Types Scenarios
- Multi-Tenant vs Single-Tenant

- Application and Service Principal
- Confidential Client vs Public Client
- About Microsoft Authentication Library (MSAL)
- Authentication flows
- Programming Authentication using MSAL.NET
- Microsoft Graph API

Check out our Upcoming batches here.

Link: https://www.bestdotnettraining.com/courses-and-webinars

Enrol now for the live batch and get an interactive and immersive learning experience today.

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