



About Us

NOVATEC, is founded by experienced information technology professionals and instructors and provides professional I.T. training courses in order to prepare qualified individuals to launch their careers in this ever changing technology world.

Our courses are focused on practical and in house trainings which gives the individual the confidence and exposure of real-world scenarios and problem-solving approach.

Classroom Facility at Wakad, Pune





Azure Developer AZ-204 Training

What will Participants Learn?

This training course provides you a beginner to advanced insight into different services of Microsoft Azure such as Storage, Virtual Machines, Websites, Cloud Services, Azure Active Directory, Virtual Networks, Backup; Site Recovery through a Hands-On. Participants will be able to Configure Application Integration with Azure AD and also Plan and Design ARM templates to deploy resources.

Course Description

The training covers the complete offerings of Azure for Azure Developer, how to use them. Theoretical discussion and hands-on demo on this will be done.

System Requirements:

Hardware Requirements

- Memory – Minimum – 8GB RAM
- Processor – Intel Core i3 CPU @ 2.0 GHz or above
- Storage – 250 GB HDD/SDD or above

Software Requirements

- Operating System – Windows 10
- Open internet with no proxy blocks to connect for virtual machines.

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Module-1: Introduction to Microsoft Azure

- Overview of MS Azure
- Understanding MS Azure Global Infrastructure
- Cloud Computing Primer

Hands on Labs:

- Creating Azure Free tier Account
- Installation of Azure PowerShell Module

Module-2: Azure Virtual Machines

- Overview of Azure Virtual Machines
- Connect to VM using RDS and SSH
- Adding a Web Role to the Windows Server
- Azure VM for Developers
- Deploying resources using ARM Templates

Hands on Labs:

- Creating Azure VM using portal
- Creating Azure VM using CLI
- Creating Azure VM using ARM Template



Module-3: Introduction to Azure Virtual Network and Services

- Overview of Azure Virtual Network service
- Networking Basics Primer
- Creating Virtual Network and Subnet in Azure
- Azure Virtual Network Endpoints
- Azure Virtual Network connectivity types:
 - VNet to VNet
 - Point-to-Site
 - Site-to-Site
 - Express Route

Hands on Labs:

- Creating VNet and Subnets
- Peering VNet

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Module-4: Azure Storage Accounts

- Overview of Azure Storage Account
- Type of Azure Storage Account
- Storage Services Blob, Table, queue, File
- Storage Account Replication Techniques
- Azure Storage - Shared Access Signature (SAS) and Access Token

Hands on Labs:

- Creating an Azure Storage Account
- Creating an Azure Blob Storage + Container and upload few files
- Configure SAS for Azure Storage Account

Module-5: Azure Authentication

- Introduction to Azure Active Directory
- Exploring Azure AD features
- Azure AD - SSPR
- Azure AD - MFA
- Role Based Access Control (RBAC)
- Shared Access Signature (SAS)

Hands on Lab:

- Creating your first Azure AD
- Accessing Azure AD using code
- Build and Publish your Azure AD App
- Register an Application with Azure AD
- Create a Test user and Test the App

Module-6: Azure APP Service

- Overview of Azure App Service
- App Service Plans
- WebJobs
- Deployment Slots
- Diagnostic Logs

Hands on Labs:

- Creating a WebApp with Powershell
- Deploying a WebApp with CLI



Module-7: Azure Function App

- Introduction to Function Apps
- Triggers and Binding
- Testing Functions

Hands on Labs:

- Creating your first hello world Function App
- Creating a Function App that writes to a Blob

Module-8: Azure ARM Templates

- Understanding the concept of Infrastructure-as-Code (IaC)
- Introduction to Azure ARM Templates
- Different ways of deploying ARM Templates
- Overview of other IaC tools
- Azure ARM Templates - Use-case, Best Practices and Pricing

Hands on Labs:

- Provisioning Azure resources with the ARM templates



Module-9: Azure Container Services

- Introduction to Microservices and Containers
- Azure Container Instances
- WebApp Containers

Hands on Lab:

- Installation of Docker on Azure VM (Linux/Windows)
- Publish to Azure Container Registry

Module-10: Azure DevOps Services

- DevOps Primer
- Understanding the basics of CI/CD and DevOps practices
- Introduction to Azure DevOps Services
- Azure Pipeline, Azure Repos, Azure Artifacts and Azure Boards
- Understanding the conceptual Architecture of Azure DevOps services
- Azure DevOps services - Real-world use-cases

Hands on Labs:

- Creating an end-to-end Azure DevOps Pipeline to deploy an application to Azure VM/Storage Account



Module-11: Monitoring and Logging

- Azure Virtual Machine Logging
- Function App Logging
- Azure Monitor

Hands on Lab:

- Monitoring and Logging to help troubleshooting

Module-12: Data Security

- Data Encryption - Storage Account
- Azure Key Vault
- Hands on Labs

Module-13: Consuming Azure Services

- Azure Logic Apps
- Azure Search
- API Management
- Configure API Management
- Test the API
- Swagger / Open API
- Hands on Labs

Module-14: Application Messaging

- Azure Storage Queues
- Azure Service Bus Queue