Azure Administration Essentials

Brief

This course is designed to equip IT professionals and administrators with the core skills needed to manage and operate a Microsoft Azure environment. This course covers key concepts and practical exercises that will enable participants to deploy, configure, monitor, and manage Azure resources effectively.

Audience

- IT professionals with basic knowledge of cloud computing

- System administrators looking to expand their knowledge in cloud-based environments

- Professionals responsible for managing or administering Azure-based infrastructure

Duration

- 2 Days

Delivery Mode

- Online

- In-person

Benefits

- Gain a foundational understanding of Microsoft Azure services and management

- Learn how to deploy and configure Azure resources like virtual machines, storage, and networking

- Understand Azure administration best practices, including identity management and security

- Hands-on experience through labs, preparing participants for real-world Azure environments

What to Expect

Participants will walk away with practical skills to:

- Manage Azure subscriptions and resources

- Implement and manage storage solutions

- Deploy and manage virtual machines

- Configure and manage virtual networks

- Manage identities using Azure Active Directory

Day 1: Core Azure Services and Infrastructure Management

Introduction to Azure and the Azure Portal

- Overview of Azure services and global architecture

- Introduction to Azure Portal, CLI, and PowerShell

- Lab: Navigating Azure Portal, setting up CLI, and configuring basic settings

Azure Identity and Access Management (IAM)

- Managing users, groups, and roles in Azure Active Directory (AAD)

- Role-Based Access Control (RBAC)

- Lab: Create AAD users, configure roles, and set permissions

Azure Virtual Machines (VMs) and Application Load Balancing

- Deploying and managing VMs

- Configuring load balancing with Azure Load Balancer and Traffic Manager

- Lab: Deploy a VM and set up load balancing for a web app

Azure Storage and Networking

- Introduction to Azure Storage (Blob, Files, and Disk)

- Designing and deploying Virtual Networks (VNets)

- Lab: Configure Azure Storage and set up a VNet with subnets

Day 2: Application Development, Monitoring, and Security

Web Application Services in Azure

- Deploying and managing Azure App Services for web applications

- Introduction to Azure API Management

- Lab: Deploy a web app on Azure App Services and configure APIs using API Management

Azure Functions for Serverless Applications

- Building and deploying serverless applications with Azure Functions

- Lab: Create an event-driven application using Azure Functions

Azure Monitoring and Security

- Using Azure Monitor for resource tracking

- Implementing security best practices with Azure Security Center

- Lab: Set up monitoring alerts for VMs and configure Security Center recommendations

Backup and Disaster Recovery in Azure

- Configuring backups and recovery using Azure Backup and Site Recovery

- Lab: Set up automatic backups for a VM and configure disaster recovery

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