BlackBird
FOR TRAINING

Advanced Azure Cloud Course: Modern Introduction

London (UK)

21 April 2025 - 2025 April 25

UK Traininig
PARTNER

Advanced Azure Cloud Course: Modern Introduction

Code: IT28 From: 21 April 2025 - 2025 April 25 City: London (UK) Fees: 5200 Pound

Introduction

The Advanced Azure Cloud course is a comprehensive program designed to provide participants with a deep understanding of the most modern and advanced concepts, tools, and services available in Microsoft Azure. This course aims to equip learners with the necessary skills to leverage Azure cloud technologies effectively and efficiently in a variety of scenarios.

Course Objectives

- Gain a solid understanding of the fundamental concepts of cloud computing and the benefits of Microsoft Azure.
- Explore advanced Azure services and solutions and how they can be used to solve real-world challenges.
- Master the skills required to design, deploy, and manage highly available, scalable, and secure applications and infrastructure on Azure.
- Learn best practices for optimizing performance, cost, and security in Azure deployments.
- Understand how to leverage Azure DevOps, automation, and containerization to streamline application development and deployment processes.
- Develop expertise in monitoring, troubleshooting, and optimizing Azure resources for maximum efficiency.
- Explore advanced networking concepts and implement secure connectivity between on-premises and Azure environments.
- Learn how to implement advanced security measures and compliance standards in Azure.

Course Outline

Day 1

Introduction to Azure Cloud

- Overview of cloud computing and Azure fundamentals
- Azure subscription models and management
- Azure resource groups and role-based access control RBAC
- Azure Virtual Networks and connectivity options
- Azure Storage and data management

Day 2

Advanced Azure Services

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- Azure App Service and serverless computing
- Azure Functions and Logic Apps for event-driven architectures
- Azure Kubernetes Service AKS and containerization
- Azure Databases and data analytics
- Azure AI and machine learning services

Day 3

Infrastructure as Code and Automation

- Introduction to Infrastructure as Code IaC with Azure Resource Manager ARM templates
- Azure DevOps for CI/CD pipelines and release management
- Automation and configuration management with Azure Automation and PowerShell
- Azure Container Instances and Azure Kubernetes Service AKS for container orchestration

Day 4

Monitoring, Security, and Compliance

- Azure Monitor for logging, metrics, and alerting
- Azure Security Center for threat protection and vulnerability management
- Azure Identity and Access Management IAM
- Azure Policy and Compliance Center
- Azure Backup and Disaster Recovery

Day 5

Advanced Networking and Hybrid Connectivity

- Azure Virtual Network VNet peering and virtual network gateways
- Site-to-Site and Point-to-Site VPN connections
- Azure ExpressRoute for secure and private connectivity
- Azure Load Balancer and Traffic Manager for high availability
- Azure Front Door for global load balancing and web application firewall WAF

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