

## Advanced Azure Cloud Course: Modern Introduction

*Amman (Jordan)*

*2 - 6 February 2025*

UK Training

# PARTNER



# Advanced Azure Cloud Course: Modern Introduction

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## Introduction

The Advanced Azure Cloud Course is designed to provide participants with an in-depth understanding of cutting-edge concepts, tools, and services within Microsoft Azure. This comprehensive program enables learners to acquire essential skills to leverage Azure cloud technologies efficiently across various scenarios, focusing on performance, security, and cost optimization.

## Course Objectives

- Develop a solid understanding of cloud computing principles and the advantages of using Microsoft Azure.
- Explore advanced Azure services and solutions and learn how they address real-world challenges.
- Gain skills to design, deploy, and manage highly available, scalable, and secure applications on Azure.
- Master Azure security, compliance, and best practices for cost management.
- Learn to implement Azure DevOps, automation, and containerization for streamlined application development.
- Enhance abilities in monitoring, troubleshooting, and optimizing Azure resources for peak efficiency.
- Understand advanced networking concepts and establish secure connections between on-premises and Azure environments.
- Implement advanced security measures and compliance standards to safeguard data and applications.

## Course Outlines

### Day 1: Introduction to Azure Cloud

- Overview of cloud computing and core Azure fundamentals.
- Subscription models and cloud management.
- Azure Resource Groups and role-based access control RBAC.
- Azure Virtual Networks and connectivity options.
- Azure Storage and data management solutions.

### Day 2: Advanced Azure Services

- App Service and serverless computing.
- Using Azure Functions and Logic Apps for event-driven architectures.
- Azure Kubernetes Service AKS for container management.
- Databases and data analytics on Azure.
- Machine learning and AI services within the Azure ecosystem.

### Day 3: Infrastructure as Code and Automation



- Introduction to Infrastructure as Code IaC with Azure Resource Manager ARM.
- Azure DevOps for continuous integration and deployment.
- Automation with Azure Automation and PowerShell scripting.
- Azure Kubernetes Service AKS and container orchestration.

#### Day 4: Monitoring, Security, and Compliance

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

#### Day 5: Advanced Networking and Hybrid Connectivity

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

#### Conclusion

By the end of this Advanced Azure Cloud Course, participants will have the skills to design, implement, and manage cloud applications aligned with industry best practices. With a focus on security, resource management, and cost efficiency, learners will also gain the knowledge to troubleshoot, monitor, and optimize Azure environments effectively. This course positions participants to attain advanced Azure certification and prepares them to handle complex, enterprise-level projects confidently.





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