PURPLE GRIFFON
The IT Service Management Training & Consultancy Specialists

Course Title: Microsoft Azure Administrator	**Course Duration**: 4.0 Days
Exam: Not Included	**Exam Type**: Proctored Exam
Qualification: Microsoft Azure Administrator Certificate	

Course Syllabus

Our Microsoft Azure Administrator training course will cover the following Modules:

Module 1: Identity

Lessons

- Azure Active Directory
- Users and Groups

Lab: Manage Azure Active Directory Identities

- Secure and manage identities with Azure Active Directory.
- Implement and manage users and groups.

Module 2: Governance and Compliance

In this module, you will learn about managing your subscriptions and accounts, implementing Azure policies, and using Role-Based Access Control.

Lessons

- Subscriptions and Accounts
- Azure Policy
- Role-based Access Control (RBAC)

Lab: Manage Subscriptions and RBAC

Lab: Manage Governance via Azure Policy

After completing this module, students will be able to:

- Implement and manage Azure subscriptions and accounts.
- Implement Azure Policy, including custom policies.
- Use RBAC to assign permissions.

Module 3: Azure Administrator

In this module, you will learn about the Azure Administrator's tools to manage their infrastructure. This includes the Azure Portal, Cloud Shell, Azure PowerShell, CLI, and Resource Manager Templates. This module includes:

Lessons

- Azure Administrator Tools
- ARM Templates

Lab: Manage Azure resources by Using ARM Templates

Lab: Manage Azure resources by Using Azure PowerShell (optional)

Lab: Manage Azure resources by Using Azure CLI (optional)

Lab: Manage Azure resources by Using the Azure Portal

After completing this module, students will be able to:

- Use the Azure Portal and Cloud Shell.
- Use Azure PowerShell and CLI.
- Use ARM Templates to deploy resources.

Module 4: Virtual Networking

In this module, you will learn about basic virtual networking concepts like virtual networks and subnetting, IP addressing, network security groups, Azure Firewall, and Azure DNS.

Lessons

- Virtual Networks
- Network Security groups
- Azure Firewall
- Azure DNS

Lab: Implement Virtual Networking

After completing this module, students will be able to:

- Implement virtual networks and subnets.
- Configure network security groups.
- Configure Azure Firewall.
- Configure private and public DNS zones.

Module 5: Intersite Connectivity

In this module, you will learn about intersite connectivity features, including VNet Peering, Virtual Network Gateways, and Site-to-Site Connections.

Lessons

- VNet Peering
- VPN Gateway Connections
- ExpressRoute and Virtual WAN

Lab: Implement Intersite Connectivity

After completing this module, students will be able to:

- Configure VNet Peering.
- Configure VPN gateways.
- Choose the appropriate intersite connectivity solution.

Module 6: Network Traffic Management

In this module, you will learn about network traffic strategies, including network routing and service endpoints, Azure Load Balancer, and Azure Application Gateway.

Lessons

- Network Routing and Endpoints
- Azure Load Balancer
- Azure Application Gateway
- Network Watcher

Lab: Implement Traffic Management

After completing this module, students will be able to:

- Configure network routing, including custom routes and service endpoints.
- Configure an Azure Load Balancer.
- Configure an Azure Application Gateway.
- Configure Network Watcher.

Module 7: Azure Storage

In this module, you will learn about basic storage features, including storage accounts, blob storage, Azure files and File Sync, storage security, and storage tools.

Lessons

- Storage Accounts
- Blob Storage
- Storage Security
- Azure Files and File Sync
- Managing Storage

Lab: Manage Azure storage

After completing this module, students will be able to:

- Create Azure storage accounts.
- Configure blob containers.
- Secure Azure storage.
- Configure Azure file shares and file sync.
- Manage storage with tools such as Storage Explorer.

Module 8: Azure Virtual Machines

In this module, you will learn about Azure virtual machines, including planning, creating, availability and extensions.

Lessons

- Creating Virtual Machines
- Virtual Machine Availability
- Virtual Machine Extensions

Lab: Manage virtual machines

After completing this module, students will be able to:

- Plan for virtual machine implementations.
- Create virtual machines.
- Configure virtual machine availability, including scale sets.
- Use virtual machine extensions.

Module 9: PaaS Compute Options

In this module, you will learn how to administer serverless computing features like Azure App Service, Azure Container Instances, and Kubernetes.

Lessons

- Azure App Service Plans
- Azure App Service
- Container Services
- Azure Kubernetes Service

Lab: Implement Web Apps

Lab: Implement Azure Kubernetes Service

Lab: Implement Azure Container Instances

After completing this module, students will be able to:

- Create an app service plan.
- Create a web app.
- Implement Azure Container Instances.
- Implement Azure Kubernetes Service.

Module 10: Data Protection

This module will teach you about backing up files and folders and virtual machine backups.

Lessons

- File and Folder Backups
- Virtual Machine Backups

Lab: Implement Data Protection

After completing this module, students will be able to:

- Backup and restore files and folders.
- Backup and restore virtual machines.

Module 11: Monitoring

In this module, you will learn about monitoring your Azure infrastructure, including Azure Monitor, alerting, and log analytics.

Lessons

- Azure Monitor

- Azure Alerts
- Log Analytics

Lab: Implement Monitoring

After completing this module, students will be able to:

- Use Azure Monitor.
- Create Azure alerts.
- Query using Log Analytics.

Course Overview

Our four-day Microsoft Azure Administrator training course teaches IT Professionals how to manage their Azure subscriptions, secure identities, administer the infrastructure, configure virtual networking, connect Azure and on-premises sites, manage network traffic, implement storage solutions, create and scale virtual machines, implement web apps and containers, back up and share data, and monitor your solution.

Course Learning Outcomes

Our Microsoft Azure Administrator training course will teach you to become proficient in the following:

- How to manage Azure Active Directory identities
- Administer subscriptions and Azure resources with Azure Portal, ARM Templates, Azure PowerShell and Azure CLI
- Follow a curriculum based on Microsoft Official Courseware
- Implement virtual networking, intersite connectivity, traffic management, data protection, and more
- Continue learning and face new challenges with after-course one-on-one instructor coaching

Audience

Our Microsoft Azure Administrator training course will benefit several individuals and organisations, including but not limited to:

- IT Professionals
- Cloud Architects
- DevOps Engineers
- Solutions Architects
- IT Managers
- Cloud Consultants
- System Integrators
- Aspiring Cloud Professionals
- IT Support Staff
- Anyone Interested in Cloud Computing: Individuals with a general interest in cloud computing and Azure can benefit from Azure Administrator training to gain a comprehensive understanding of Azure services and their administration.

Entry-Level Requirements

Our Microsoft Azure Administrator training course requires attendees to have experience and hands-on knowledge at the level of Microsoft Azure Fundamentals.

Recommended Reading

There is no recommended reading for our Microsoft Azure Administrator training course

What's Included

Our Microsoft Azure Administrator training course contains the following:

- 4-day instructor-led training course
- Microsoft Official Courseware (MOC)
- After-course coaching available
- Pre-reading
- Course Manual
- Quizzes
- Exercises

Exam Information

Microsoft Azure Administrator Exam:

- Format: Multiple Choice
- Questions: 40
- Pass Mark: 70%

What's Next

You may enjoy our one-day Microsoft 365 Fundamentals training course.

Our one-day Microsoft 365 Fundamentals training course provides foundational knowledge on the considerations and benefits of adopting cloud services and the Software as a Service (SaaS) cloud model, explicitly focusing on Microsoft 365 cloud service offerings. You will begin by learning about cloud fundamentals, including an overview of cloud computing, specifically Microsoft cloud services. Next, you will be introduced to Microsoft Azure and examine the differences between Microsoft 365 and Office 365. You will then perform an in-depth review of Microsoft 365, including a comparison of Microsoft on-premises services versus Microsoft 365 cloud services, a review of enterprise mobility in Microsoft 365, and an analysis of how Microsoft 365 services provide collaboration. The course then analyses how security, compliance, privacy, and trust are handled in Microsoft 365, and it concludes with a review of Microsoft 365 subscriptions, licenses, billing, and support.

Additional Information

Our Microsoft Azure Administrator training course offers several benefits to individuals and organisations, including but not limited to:

- **Enhanced Career Opportunities**: Azure is one of the leading cloud platforms globally, and acquiring Azure Administrator skills can open up numerous job opportunities in cloud computing, infrastructure management, and related fields.
- **Comprehensive Understanding of Azure**: The training covers various aspects of Azure administration, including virtual machines, storage, networking, security, identity management, and more.
- **Hands-on Experience**: Azure Administrator Training often includes practical exercises, labs, and real-world scenarios, giving you hands-on experience in managing Azure resources.

- **Efficient Resource Management**: The training equips you with the skills to effectively manage Azure resources, including virtual machines, storage accounts, networks, and more.
- **Automation and Efficiency**: Azure Administrator Training introduces you to automation tools like Azure PowerShell, Azure CLI, and Azure Automation.
- **Collaboration and Integration**: Azure Administrator Training provides insights into integrating Azure with on-premises environments, utilizing hybrid cloud capabilities, and collaborating with other Azure services like Azure Active Directory, Azure Monitor, and Azure Security Center.
- **Cost Optimization**: The training includes topics on managing Azure costs, monitoring usage, implementing budget controls, and optimizing resource allocation.