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## Microsoft Azure Administrator

**Duration: 4 Days    Course Code: M-AZ104    Delivery Method: Virtual Learning**

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### Overview:

This 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.

### Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

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### Target Audience:

This course is for Azure Administrators. The Azure Administrator implements, manages, and monitors identity, governance, storage, compute, and virtual networks in a cloud environment. The Azure Administrator will provision, size, monitor, and adjust resources as appropriate.

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### Objectives:

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| ■ <b>After completing this course you should be able to:</b> | ■ Choose the appropriate network traffic solution.              |
| ■ Secure and manage identities with Azure Active Directory.  | ■ Create Azure storage accounts.                                |
| ■ Implement and manage users and groups.                     | ■ Configure blob containers.                                    |
| ■ Implement and manage Azure subscriptions and accounts.     | ■ Secure Azure storage.   |
| ■ Implement Azure Policy, including custom policies.         | ■ Configure Azure files shares and file sync.                   |
| ■ Use RBAC to assign permissions.                            | ■ Manage storage with tools such as Storage Explorer            |
| ■ Leverage Azure Resource Manager to organize resources.     | ■ Plan for virtual machine implementations.                     |
| ■ Use the Azure Portal and Cloud Shell.                      | ■ Create virtual machines.                                      |
| ■ Use Azure PowerShell and CLI.                              | ■ Configure virtual machine availability, including scale sets. |
| ■ Use ARM Templates to deploy resources.                     | ■ Use virtual machine extensions.                               |
| ■ Implement virtual networks and subnets.                    | ■ Create an app service plan.                                   |
| ■ Configure public and private IP addressing.                | ■ Create a web app.   |
| ■ Configure network security groups.                         | ■ Implement Azure Container Instances.                          |
| ■ Configure Azure Firewall.                                  | ■ Implement Azure Kubernetes Service.                           |
| ■ Configure private and public DNS zones                     | ■ Backup and restore file and folders.                          |
| ■ Configure VNet Peering.                                    | ■ Backup and restore virtual machines.                          |
| ■ Configure VPN gateways.                                    | ■ Use Azure Monitor.  |
| ■ Choose the appropriate intersite connectivity solution.    | ■ Create Azure alerts.  |
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- Configure network routing including custom routes and service endpoints.
- Configure an Azure Load Balancer.
- Configure and Azure Application Gateway.
- Query using Log Analytics.
- Use Network Watcher.

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## Prerequisites:

### Attendees should meet the following prerequisites:

- Experience on operating systems, virtualization, cloud infrastructure, storage structures, and networking.
- Understanding of on-premises virtualization technologies, including: VMs, virtual networking, and virtual hard disks.
- Understanding of network configuration, including TCP/IP, Domain Name System (DNS), virtual private networks (VPNs), firewalls, and encryption technologies.
- Understanding of Active Directory concepts, including domains, forests, domain controllers, replication, Kerberos protocol, and Lightweight Directory Access Protocol (LDAP).
- Understanding of resilience and disaster recovery, including backup and restore operations.

## Testing and Certification

### Recommended as preparation for the following exams:

- **AZ-104** - Microsoft Certified: Azure Administrator Associate

## Content:

### Module 1: Identity

- Azure Active Directory
- Users and Groups
- Lab : Manage Azure Active Directory Identities

### Module 2: Governance and Compliance

- Subscriptions and Accounts
- Azure Policy
- Role-based Access Control (RBAC)
- Lab : Manage Subscriptions and RBAC
- Lab : Manage Governance via Azure Policy

### Module 3: Azure Administration

- Azure Resource Manager
- Azure Portal and Cloud Shell
- Azure PowerShell and CLI
- ARM Templates
- Lab : Manage Azure resources by Using the Azure Portal
- Lab : Manage Azure resources by Using ARM Templates
- Lab : Manage Azure resources by Using Azure PowerShell
- Lab : Manage Azure resources by Using Azure CLI

### Module 4: Virtual Networking

- Virtual Networks
- IP Addressing
- Network Security groups
- Azure Firewall
- Azure DNS
- Lab : Implement Virtual Networking

### Module 5: Intersite Connectivity

- VNet Peering
- VPN Gateway Connections
- ExpressRoute and Virtual WAN
- Lab : Implement Intersite Connectivity

### Module 6: Network Traffic Management

- Network Routing and Endpoints
- Azure Load Balancer
- Azure Application Gateway
- Traffic Manager
- Lab : Implement Traffic Management

### Module 7: Azure Storage

- Storage Accounts
- Blob Storage
- Storage Security
- Azure Files and File Sync
- Managing Storage
- Lab : Manage Azure storage

### Module 8: Azure Virtual Machines

- Virtual Machine Planning
- Creating Virtual Machines
- Virtual Machine Availability
- Virtual Machine Extensions
- Lab : Manage virtual machines

### Module 9: Serverless Computing

- Azure App Service Plans
- Azure App Service
- Container Services
- Azure Kubernetes Service
- Lab : Implement Web Apps
- Lab : Implement Azure Container Instances
- Lab : Implement Azure Kubernetes Service

### Module 10: Data Protection

- File and Folder Backups
- Virtual Machine Backups
- Lab : Implement Data Protection

### Module 11: Monitoring

- Azure Monitor
- Azure Alerts
- Log Analytics
- Network Watcher
- Lab : Implement Monitoring

## Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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