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## AZ-104T00 - Microsoft Azure Administrator

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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.

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### Prerequisite Comments

Successful Azure Administrators start this role with experience in virtualization, networking, identity, and storage.  
Understanding on-premises virtualization technologies, including: VMs, virtual networking, and virtual hard disks.  
Understanding network configurations, including TCP/IP, Domain Name System (DNS), virtual private networks (VPNs), firewalls, and encryption technologies.  
Understanding Active Directory concepts, including users, groups, and role-based access control.  
Understanding resilience and disaster recovery, including backup and restore operations.

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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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### Course Outline

#### 1 - Identity

Azure Active Directory  
Users and Groups

#### 2 - Governance and Compliance

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

#### 3 - Azure Administration

Azure Resource Manager  
Azure Portal and Cloud Shell  
Azure PowerShell and CLI  
ARM Templates

#### 4 - Virtual Networking

Virtual Networks  
IP Addressing  
Network Security groups  
Azure Firewall  
Azure DNS

#### 5 - Intersite Connectivity

VNet Peering  
VPN Gateway Connections  
ExpressRoute and Virtual WAN

#### 6 - Network Traffic Management

Network Routing and Endpoints  
Azure Load Balancer  
Azure Application Gateway

#### 7 - Azure Storage

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

#### 8 - Azure Virtual Machines

Virtual Machine Planning  
Creating Virtual Machines  
Virtual Machine Availability  
Virtual Machine Extensions

#### 9 - Serverless Computing

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

#### 10 - Data Protection

File and Folder Backups  
Virtual Machine Backups

## 11 - Monitoring

Azure Monitor  
Azure Alerts  
Log Analytics  
Network Watcher

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