

Technical Skills for Business

Azure Fundamentals (AZ-900)



Module 00 – Course Introduction

- [L01 – About this Course](#)
 - About this Course (level, audience, prerequisites, learning objectives)
 - Course syllabus
 - [AZ-900 certification](#)

Module 01 – Cloud Concepts

- **L01 – Learning Objectives**
 - [Learning objectives](#)
- **L02 – Why Cloud Services**
 - [Cloud benefits](#)
 - [Economies of scale](#)
 - [CapEx vs OpEx](#)
 - [Consumption-based model](#)
- **L02 – Types of Cloud models**
 - [Cloud computing](#)
 - [Public cloud](#)
 - [Private cloud](#)
 - [Hybrid cloud](#)
 - [Cloud model comparison](#)
- **L04 – Types of Cloud Services**
 - [Shared responsibility model](#)
 - [Infrastructure as a Service \(IaaS\)](#)
 - [Platform as a Service \(PaaS\)](#)
 - [Software as a Service \(SaaS\)](#)
 - [Cloud service comparison](#)

Module 02 – Core Workloads

- **L01 – Learning Objectives**
 - Learning objectives
- **L02 – Core Azure Architectural Components**
 - Regions
 - Region pairs
 - Geographies
 - Availability options
 - Availability sets
 - Availability zones
 - Resource groups
 - Azure resource manager
- **L03 – Core Azure Services and Products**
 - Azure compute
 - Azure virtual machines
 - Walkthrough – Create a virtual machine
 - Container services
 - Walkthrough – Deploy Azure container instances
 - Azure network services
 - Walkthrough – Create a virtual network
 - Azure data categories
 - Azure storage services
 - Walkthrough – Create blob storage
 - Azure database services
 - Walkthrough – Create a SQL database
 - Azure marketplace
- **L04 – Azure Solutions**
 - Internet of Things
 - Walkthrough – Implement the Azure IoT hub
 - Big data and analytics
 - Artificial intelligence
 - Serverless computing
 - Walkthrough – Implement Azure functions
 - DevOps
 - Azure app services
 - Walkthrough – Create a web app
- **L05 – Azure Management Tools**
 - Azure management tools
 - Azure advisor
 - Walkthrough – Create a VM with ARM template
 - Walkthrough – Create a VM with PowerShell
 - Walkthrough – Create a VM with CLI

Module 03 – Security, Privacy, Compliance, and Trust

- **L01 – Learning Objectives**
 - Learning objectives
- **L02 – Secure network connectivity**
 - Defense in depth
 - Shared security
 - Azure firewall
 - Azure DDoS protection
 - Network security groups
 - Application security groups
 - Choosing Azure network security solutions
 - Walkthrough – Secure network traffic
- **L03 – Core Azure Identity Services**
 - Authentication and authorization
 - Azure active directory
 - Azure multi-factor authentication
- **L04 – Security Tools and Features**
 - Azure security center
 - Azure security center usage scenarios
 - Azure key vault
 - Walkthrough – Implement key vault
 - Azure information protection
 - Azure advanced threat protection
- **L05 – Azure Governance Methodologies**
 - Azure policy
 - Implementing Azure policy
 - Policy initiatives
 - Walkthrough – Create an Azure policy
 - Role-Based access control
 - Walkthrough – Manage access with RBAC
 - Resource locks
 - Walkthrough – Manage resource locks
 - Azure blueprints
 - Subscription governance
- **L06 – Monitoring and Reporting in Azure**
 - Tags
 - Walkthrough – Implement resource tagging
 - Azure monitor
 - Azure service health
 - Monitoring applications and services
- **L07 – Privacy, Compliance and Data Protection**
 - Compliance terms and requirements
 - Microsoft privacy statement
 - Trust center
 - Service trust portal
 - Compliance manager
 - Walkthrough – Exploring the trust center
 - Azure government services
 - Azure China 21Vianet

M04 – Azure Pricing and Support

- **L01 – Learning Objectives**
 - Learning objectives
- **L02 – Azure Subscriptions**
 - Subscriptions
 - Subscription offers
 - Azure free account
 - Management groups
- **L03 – Planning and Managing Costs**
 - Purchasing Azure products and services
 - Factors affecting costs
 - Zones for billing purposes
 - Pricing calculator
 - Walkthrough – Use the pricing calculator
 - Total cost of ownership (TCO) calculator
 - Walkthrough – TCO calculator
 - Minimizing costs
 - Azure cost management
- **L04 – Azure Support Plans**
 - Support plan options
 - Alternative support channels
 - Knowledge center
 - Walkthrough – Open a support ticket
- **L05 – Azure Service Level Agreements (SLAs)**
 - Service level agreements
 - SLAs for products and services
 - Composite SLAs
 - Application SLAs
 - Walkthrough – Calculate a composite SLA
- **L06 – Service Lifecycle in Azure**
 - Public and private preview features
 - Azure preview features
 - Accessing Azure portal preview
 - General availability
 - Monitoring service and feature updates
 - Walkthrough – Access Azure preview features