AZ-900 Microsoft Azure Fundamentals:

2-Days Workshop

Audience Profile

This course is suitable for IT personnel who are just beginning to work with Azure. This audience wants to learn about our offerings and get hands-on experience with the product. This course primarily uses the Azure portal to create services and does not require scripting skills. Students in this course will gain the confidence to take other role-based courses and certifications, such as Azure Administrator. This course provides an Azure pass and optional lab environment. This course combines lectures, demonstrations, and hands-on labs. This course will also help prepare someone for the AZ-900 exam.

Prerequisites

There are no pre-requisites for taking this course. Technical IT experience is not required however some general IT knowledge or experience would be beneficial.

Course Duration: 2 Days

At Course Completion

After completing this course, you will:

- Understand general cloud computing concepts
- Understand core services available with Microsoft Azure
- Understand security, privacy, compliance, and trust with Microsoft Azure
- Understand pricing and support models available with Microsoft

Course Outline

Module 1: Cloud Concepts

In this module, you will learn basic cloud concepts.

Lessons

- Why Cloud Services?
- Types of Cloud models
- Types of Cloud services

After completing this module, students will be able:

- Define cloud computing and its key advantages
- Explain public, private, and hybrid cloud models.
- Explain IaaS, PaaS, and SaaS cloud services.

Module 2: Core Azure Services

In this module, you will learn the basics of core services available with Microsoft Azure.

Lessons

- Core Azure architectural components
- Core Azure Services and Products
- Azure Solutions
- Azure management tools

Hands-on Exercises

- Create a virtual machine
- Deploy Azure container instances
- Create a virtual network
- Create blob storage
- Create a SQL database
- Implement an Azure IoT Hub
- Implement Azure Functions Create a web app
- Create a VM with a Template
- Create a VM with PowerShell
- Create a VM with CLI

After completing this module, students will be able:

- Identify core Azure architectural components, such as regions, geographies, and resource groups.
- Identify usage cases for Azure core services and products, such as virtual machines and storage.
- Identify usage cases for Azure solutions, such as the Internet of Things and Machine Learning.
- Identify what Azure management tools are available such as Azure PowerShell and the CLI.

Module 3: Security, Privacy, Compliance, and Trust

In this module, you learn about security, privacy, compliance, and trust with Microsoft Azure.

Lessons

- Securing network connectivity in Azure
- Core Azure Identity services
- Security tools and features
- Azure governance methodologies
- Monitoring and Reporting in Azure
- Privacy, Compliance, and Data Protection standards in Azure

Hands-on Exercises

- Secure network traffic
- Implement Azure key vault Create an Azure Policy
- Manage access with RBAC
- Manage resource locks
- Implement resource tagging
- Exploring the Trust Center

After completing this module, you will:

- Describe virtual network security connectivity options such as Network Security Groups.
- Describe Azure identity authentication and authorization options.
- Describe usage cases for the Security Center, Key vault, threat, and information protection options.
- Describe Azure policies and role-based access control.
- Describe usage cases for Azure Monitor and Azure Service Health.
- Describe privacy, compliance, and data protection standards.

Module 4: Azure Pricing and Support

In this module, you will learn Azure pricing and support models available with Microsoft.

Lessons

- Azure subscriptions
- Planning and managing costs
- Support options available with Azure
- Service lifecycle in Azure

Hands-on Exercises

- Use the Azure Pricing Calculator
- Use the Azure TCO Calculator
- Calculate composite SLAs
- Access Azure Preview features

After completing this module, you will:

- Use an Azure subscription.
- Plan and manage costs.
- Describe Azure SLAs.
- Explain Azure service lifecycles.