AZ-900T01: Microsoft Azure Fundamentals (1 Day) Training

Duration: 1 Day

Course Content:

AZ-900T01: Microsoft Azure Fundamentals (1 Day) Training helps professionals develop a foundational understanding of cloud concepts. This technical course teaches them about the core Azure services, including privacy, security, trust, compliance, and Azure support and pricing. AZ-900T01: Microsoft Azure Fundamentals (1 Day) Training provides comprehensive information on general cloud computing models, concepts, and services such as Private, Public, and Hybrid Cloud models. This training program is perfect for technical sales and program managers, with a general IT background and individuals preparing for AZ-900: Microsoft Azure Fundamentals exam. After finishing this course, professionals will understand core services that are available with Microsoft Azure properly and Azure governance methodologies. This course is suitable for individuals who want to enhance their skills and build credibility in the market.

This training is designed based on the objectives of the course variant AZ-900T01-A.

Note: This course does not provide an Azure pass or time for students to participate in hands-on labs. If you are interested in a more interactive hands-on lab experience, consider the AZ-900T00: Microsoft Azure Fundamentals (2 day) course, which includes trainer-directed hands-on labs.

Who should attend?

Professionals who want to start their career with Microsoft Azure should consider taking this course. The Microsoft Azure Fundamentals training is suitable for technical sales and program managers, with a general IT background. This course does not provide any hands-on activities for professionals however, candidates can get a free trial and do a complete walkthrough outside the class. Microsoft Azure Fundamentals primarily includes lectures and demonstrations.

Prerequisites for this training

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

Course Objectives

- Understanding basic cloud computing concepts
- Exploring core services available with Microsoft Azure
- Learning core Microsoft Azure services; privacy, security, trust, and compliance
- Understanding support and pricing models available with Microsoft

Detailed Course Outline

Module 1: Describe core Azure concepts

In this module, you'll take an entry level end-to-end look at Azure and its capabilities, which will provide you with a solid foundation for completing the available modules for Azure Fundamentals.

Lessons

- Introduction to Azure fundamentals
- Discuss Azure fundamental concepts
- Describe core Azure architectural components

After completing this module, students will be able:

- Understand the benefits of cloud computing in Azure and how it can save you time and money.
- Explain concepts such as high availability, scalability, elasticity, agility, and disaster recovery.
- Describe core Azure architecture components such as subscriptions, management groups, and resources.
- Summarize geographic distribution concepts such as Azure regions, region pairs, and availability zones.

Module 2: Describe core Azure services

In this module, you learn about core Azure services like Azure database, Azure compute, Azure storage, and Azure Networking.

Lessons

- Explore Azure database and analytics services
- Explore Azure compute services
- Explore Azure Storage services
- Explore Azure networking services

After completing this module, students will be able:

- Understand the services available in Azure including compute, network, storage, and databases.
- Identify virtualization services such as Azure VMs, Azure Container Instances, and Azure Kubernetes.
- Compare Azure's database services such as Azure Cosmos DB, Azure SQL, and Azure Database for MySQL.
- Examine Azure networking resources such as Virtual Networks, VPN Gateways, and Azure ExpressRoute.
- Summarize Azure storage services such Azure Blob Storage, Azure Disk Storage, and Azure File Storage.

Module 3: Describe core solutions and management tools on Azure

In this module, you'll learn about AI machine learning, Azure DevOps, monitoring fundamentals, management fundamentals, serverless computing fundamentals. and IoT fundamentals.

Lessons

- Choose the best AI service for your needs
- Choose the best tools to help organizations build better solutions
- Choose the best monitoring service for visibility, insight, and outage mitigation
- Choose the best tools for managing and configuring your Azure environment
- Choose the best Azure serverless technology for your business scenario
- Choose the best Azure IoT service for your application

After completing this module, students will be able:

- Choose the correct Azure AI service to address different kinds of business challenges.
- Choose the best software development process tools and services for a given business scenario.
- Choose the correct cloud monitoring service to address different kinds of business challenges.
- Choose the correct Azure management tool to address different kinds of technical needs.
- Choose the right serverless computing technology for your business scenario.
- Choose the best Azure IoT service for a given business scenario.

Module 4: Describe general security and network security features

In this module, you will learn how to protect yourself against security threats and secure your networks with Azure.

Lessons

- Protect against security threats on Azure
- Secure network connectivity on Azure

After completing this module, students will be able:

- Strengthen your security posture and protect against threats by using Azure Security Center.
- Collect and act on security data from many different sources by using Azure Sentinel.
- Manage dedicated physical servers to host your Azure VMs for Windows and Linux.
- Identify the layers that make up a defense in depth strategy.
- Explain how Azure Firewall enables you to control what traffic is allowed on the network.
- Configure network security groups to filter network traffic to and from Azure resources.
- Explain how Azure DDoS Protection helps protect your Azure resources from DDoS attacks.

Module 5: Describe identity, governance, privacy, and compliance features

In this module, you will learn about Azure identity services, how to build a cloud governance strategy, and privacy, compliance, and data protection standards on Azure.

Lessons

- Secure access to your applications by using Azure identity services
- Build a cloud governance strategy on Azure
- Examine privacy, compliance, and data protection standards on Azure

After completing this module, students will be able to:

- Explain the difference between authentication and authorization.
- Describe how Azure Active Directory provides identity and access management.
- Explain the role single sign-on (SSO), multifactor authentication, and Conditional Access play.
- Make organizational decisions about your cloud environment by using the CAF for Azure.
- Define who can access cloud resources by using Azure role-based access control.
- Apply a resource lock to prevent accidental deletion of your Azure resources.
- Apply tags to your Azure resources to help describe their purpose.
- Control and audit how your resources are created by using Azure Policy.
- Enable governance at scale across multiple Azure subscriptions by using Azure Blueprints.
- Explain the types of compliance offerings that are available on Azure.
- Gain insight into regulatory standards and compliance on Azure.
- Explain Azure capabilities that are specific to government agencies.

Module 6: Describe Azure cost management and service level agreements

In this module, you will learn how to plan and manage Azure costs, and how to choose the right Azure services though SLAs and service lifecycle.

Lessons

- Plan and manage your Azure costs
- Choose the right Azure services by examining SLAs and service lifecycle

After completing this module, students will be able to:

- Use the Total Cost of Ownership Calculator.
- Describe the different ways you can purchase Azure products and services.
- Use the Pricing calculator to estimate the monthly cost of running your cloud workloads.
- Define the major factors that affect total cost and apply recommended practices to minimize cost.
- Describe what a service-level agreement (SLA) is and why SLAs are important.
- Identify factors, such as the service tier you choose, that can affect an SLA.
- Combine SLAs to compute a composite SLA.
- Describe the service lifecycle in Azure.