

V1.0

Training Program for
Azure fundamentals

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Azure fundamentals Training

Azure fundamentals training, is a course designed to introduce individuals to the foundational concepts of cloud computing and the Azure platform. The training is intended for individuals who are new to Azure and want to develop an understanding of its core features and services.

What is Azure?

Azure is a cloud computing platform and a collection of integrated cloud services offered by Microsoft. It provides a wide range of services and tools for building, deploying, and managing applications and services through a global network of data centers.

Azure allows users to develop, deploy, and manage applications using a variety of programming languages, frameworks, and tools. It offers services such as virtual machines, storage, networking, databases, analytics, machine learning, and more, allowing businesses to quickly and easily scale up or down as needed.

With Azure, users can build, deploy, and manage applications and services anywhere with tools and services that integrate with other Microsoft products and services.

Advantages of Azure:

- **Scalability:** Azure enables businesses to scale up or down their infrastructure and services as needed, allowing them to easily accommodate changes in demand or usage patterns.
- **Flexibility:** Azure supports a wide range of programming languages, operating systems, and platforms, making it easy for businesses to develop and deploy applications that work with their existing technology stack.
- **Reliability:** Azure has a highly available and reliable infrastructure, with multiple data centers located around the world that ensure redundancy and failover capabilities, minimizing downtime and ensuring business continuity.
- **Security:** Azure provides advanced security features and compliance certifications that ensure data protection, including role-based access control, encryption, threat detection, and compliance with industry-specific regulations.
- **Cost-effectiveness:** Azure offers a pay-as-you-go pricing model that allows businesses to only pay for the resources they use, without requiring any upfront investment in hardware or infrastructure.
- **Integration with other Microsoft products:** Azure integrates seamlessly with other Microsoft products and services, such as Office 365, Dynamics 365, and Power BI, allowing businesses to easily leverage their existing investments in Microsoft technology.

Audience

The Azure training is a 2-days course designed for:

- **Business decision-makers:** Individuals who are responsible for making decisions about cloud services within their organization, such as executives, managers, or financial personnel.
- **Technical personnel:** Individuals who are responsible for managing or implementing cloud services within their organization, such as IT professionals, developers, or architects.
- **Sales and marketing professionals:** Individuals who are responsible for promoting or selling cloud services, such as salespeople, marketing personnel, or technical account managers.
- **Students and educators:** Individuals who are pursuing a career in cloud computing or IT, or who are interested in learning about cloud services.

Learning Objectives:

- Describe the benefits and considerations of cloud computing and Azure services
- Identify and describe the different types of cloud services and deployment models
- Understand the core Azure services and how they work together
- Identify and describe different security features and services in Azure
- Understand pricing models and support options for Azure services
- Describe how to manage costs in Azure and understand Azure service-level agreements (SLAs) and availability

Training Outline:

Day 1:

- Introduction to Azure and cloud computing concepts
- Overview of Azure services and solutions
- Understanding Azure pricing and support
- Azure service-level agreements (SLAs) and availability
- Introduction to the Azure portal and management tools
- Azure compute services, including virtual machines, Azure App Service, and Azure Functions
- Azure storage services, including Blob storage, File storage, and Azure Disk Storage

Day 2:

- Azure networking services, including Virtual Network, Load Balancer, and Azure Traffic Manager
- Azure databases, including Azure SQL Database and Azure Cosmos DB
- Introduction to Azure security and compliance, including Azure Security Center and Azure Sentinel
- Azure identity services, including Azure Active Directory and Azure AD B2B/B2C
- Introduction to Azure IoT, AI, and machine learning services
- Best practices for Azure management and monitoring