

**Azure for Managers**

**Course Number:** AZR-144  
**Duration:** 1 day

**Overview**

This Azure Training for Managers course gives attendees a thorough overview of Microsoft Azure, covering the different cloud services, the benefits of moving to the cloud, and various ways to deploy and manage applications and data in Azure. Participants also learn about Azure's security and compliance features and how to optimize cloud costs.

**Prerequisites**

No prior experience is presumed.

**Materials**

All Azure training students receive comprehensive courseware.

**Software Needed on Each Student PC**

Attendees will not need to install any software on their computer for this class. The class will be conducted in a remote environment that Accelebrate will provide; students will only need a local computer with a web browser and a stable Internet connection. Any recent version of Microsoft Edge, Mozilla Firefox, or Google Chrome will be fine.

**Objectives**

* Describe the benefits of cloud computing and how it can help organizations
* Identify the different types of cloud services and how to choose the right ones
* Design and deploy a cloud solution in Azure
* Manage and monitor Azure resources
* Secure the Azure environment
* Optimize cloud costs

**Outline**

* Introduction to Microsoft Azure and Cloud Computing
  + What is Cloud Computing?
  + What is Microsoft Azure
  + Cloud Multi-Tenancy Model
  + The NIST Perspective
  + Five Characteristics (NIST)
  + Cloud Service (Delivery) Models: IaaS, PaaS, and SaaS
  + IaaS
  + PaaS
  + SaaS
  + Cloud Service Type Comparison
  + Shared Responsibility Model
  + The Four Cloud Deployment Models (NIST)
  + Microsoft Azure Delivery Model
  + The NIST Cloud Definition Framework
  + Advantages of Cloud Computing
  + Coping with Computing Demand the Traditional Way
  + Coping with Computing Demand the Cloud Way
  + Disadvantages of Cloud Computing
  + Overview of Azure IaaS Services
  + Overview of Azure PaaS Services
  + Overview of Azure Storage Services
  + Overview of Azure Cognitive Services
* Operational Transformation
  + Beginning the Cloud Transition
  + Virtualization
  + Automation
  + Application Performance
  + Request Management
  + Incident Management
  + Change Management
  + IT Asset Management
  + Service Desk Function
  + Service-Level Management
  + Microsoft Azure SLA
  + Microsoft Azure Regions
  + IT Service Continuity
  + Financial Management
  + Security Management
  + Technical Support
  + Microsoft Azure Technical Support
  + Using Existing Operational Staff
  + Operational Staff - Teams/Roles
  + Best Practices
* Deploying your Cloud
  + Consume or Build
  + Deciding to Consume or Build
  + Cloud Deployment Models
  + Microsoft Azure DevOps
  + Cloud Infrastructure
  + Azure Resource Manager (ARM) Templates
  + Microsoft Azure Stack
  + Datacenters
  + Network Infrastructure
  + Internet Services
  + Compute Infrastructure
  + Storage Systems
  + Backup and Recovery Systems
  + Software Systems
  + Cloud Management System
  + Redundancy, Availability, Continuity, and Disaster Recovery
  + Managing Scope, Releases, and Customer Expectations
  + Best Practices
* Moving your Application to the Cloud
  + Application Transformation
  + Evolving Your Applications for the Cloud
  + Application Categories
  + Application Characteristics
  + Application Development and Delivery
  + Application Transformation Methodology
  + Application Modernization Strategies
  + Operational Considerations for Applications
  + Assess Legacy Applications
  + Cloud Architectures for New Applications
  + Replace Components and Legacy Licensing Agreements
  + Deployment using Microsoft Azure DevOps
  + Microsoft Azure DevOps Demo
* Billing and Procurement
  + Billing and Procurement
  + Capital Versus Operational Expenses
  + Billing and Procurement - Planning
  + Online Ordering and Approval Workflow
  + Financial Tracking and Billing
  + Metered versus Allocated Resources
  + Billing Reports
  + Draw-Down Accounts
  + Implementing Grace Periods and Service Shutdowns
  + Cloud Billing versus Accounting and Invoicing Systems
  + Legal and Contract Agreements
  + Licensing
  + Microsoft Azure Pricing Calculator
  + Demo: Azure Pricing Calculator
  + Best Practices
  + Optional: Hands-On
* Securing the Cloud
  + Cloud Security Planning and Design
  + Cloud Security Planning
  + Consider Cloud Model(s)
  + Governance
  + Multitenant Security
  + Multitenant Security (Contd.)
  + Microsoft Azure AD
  + Demo: Azure AD
  + On-Premises vs Cloud Security
  + Security in an Automated Cloud Environment
  + Identity Management and Federation - SSO
  + Identity Management and Federation - Federation
  + Data Sovereignty and On-Shore Support Operations
  + Continuous Monitoring
  + Cloud Security Best Practices
  + Azure Security Center
* Cloud Best Practices
  + How are Enterprises using Cloud?
  + The Cloud Journey
  + Impact of Cloud on Careers
  + The Dos and Don’ts of Cloud
* Conclusion