

Cloud Engineer (DevOps)
Summer Camp
Accelerator Program

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Microsoft Azure Cloud Technology

Microsoft Azure is a leading cloud platform that offers a wide range of services to help organizations build, deploy, and manage applications and services. With its scalability, reliability, and comprehensive set of features, Microsoft Azure is a popular choice for businesses of all sizes.

Cloud Engineer – Associate Level

Microsoft Azure Administrator Associate

The Azure Administrator Associate certification is designed for IT professionals responsible for implementing, managing, and monitoring Microsoft Azure environments. This certification validates expertise in various aspects of Azure administration, including virtual networks, storage, compute, identity, security, and governance.

Key Competencies Overview

- Manage Azure identities and governance
- Implement and manage storage
- Deploy and manage Azure compute resources
- Implement and manage virtual networking
- Monitor & maintain Azure resources

Module 1: Managing Azure Identities and Governance

- Introduction to Azure Active Directory (AD) Users and Groups
- Managing User and Group Properties
- License Management in Azure AD
- Managing External Users and Guest Access
- Configuring Self-Service Password Reset (SSPR)
- Access Management to Azure Resources
- Implementing and Managing Azure Roles
- Assigning Roles at Different Scopes
- Azure Subscriptions and Governance
- Implementing and Managing Azure Policy
- Resource Locks and Tagging
- Managing Resource Groups and Subscriptions
- Cost Management and Optimization Strategies
- Configuring Management Groups

Module 2: Implementing and Managing Storage

- Configuring Access to Azure Storage
- Azure Storage Firewalls and Virtual Networks
- Shared Access Signature (SAS) Tokens
- Stored Access Policies and Access Keys

- Identity-Based Access for Azure Files
- Configuring and Managing Storage Accounts
- Azure Storage Redundancy and Object Replication
- Storage Account Encryption
- Data Management with Azure Storage Explorer and AzCopy
- Azure Files and Azure Blob Storage Configuration
- Storage Tiers and Lifecycle Management
- Blob Versioning and Snapshots

Module 3: Deploying and Managing Azure Compute Resources

- Automating Deployment with Azure Resource Manager (ARM) Templates and Bicep Files
- Virtual Machine Management
- Azure Disk Encryption
- Virtual Machine Deployment and Migration
- Managing Virtual Machine Sizes and Disks
- Availability Zones and Sets
- Azure Virtual Machine Scale Sets
- Container Provisioning and Management
- Azure Container Registry
- Azure Container Instances and Container Apps
- Azure App Service Configuration
- App Service Scaling and Networking
- Deployment Slots and Backup Configuration

Module 4: Implementing and Managing Virtual Networking

- Virtual Networks and Subnets Configuration
- Virtual Network Peering
- Public IP Addresses and User-Defined Routes
- Network Connectivity Troubleshooting
- Secure Access to Virtual Networks
- Network Security Groups (NSGs) and Application Security Groups
- Azure Bastion Implementation
- Service Endpoints and Private Endpoints
- Name Resolution and Load Balancing
- Azure DNS Configuration
- Internal and Public Load Balancers
- Load Balancer Troubleshooting

Module 5: Monitoring and Maintaining Azure Resources

- Monitoring with Azure Monitor
- Azure Metrics and Logs
- Alert Configuration and Management
- Monitoring Virtual Machines, Storage Accounts, and Networks
- Azure Network Watcher and Connection Monitor

- Backup and Recovery Implementation
- Recovery Services and Azure Backup Vaults
- Backup Policy Configuration
- Azure Site Recovery Setup and Failover
- Backup Reports and Alerts Interpretation

Cloud Engineer – Consultant Level

Microsoft Azure Developer Associate

Developing Solutions for Microsoft Azure certification exam offered by Microsoft. Candidate's proficiency in various aspects of Azure development, including implementing Azure services, integrating Azure services with other third-party services and platforms, securing Azure solutions, monitoring and optimizing Azure solutions, and deploying solutions using Azure DevOps.

Key Competencies Overview

- Develop Azure compute solutions
- Develop for Azure storage
- Implement Azure security
- Monitor, troubleshoot, and optimize Azure solutions
- Connect to and consume Azure services and third-party services

Module 1: Develop Azure compute solutions

- Implement containerized solutions
- Implement Azure App Service Web Apps
- Implement Azure Functions

Module 2: Develop for Azure storage

- Develop solutions that use Azure Cosmos DB
- Develop solutions that use Azure Blob Storage

Module 3: Implement Azure security

- Implement user authentication and authorization
- Implement secure Azure solutions

Module 4: Monitor, troubleshoot, and optimize Azure solutions

- Implement caching for solutions
- Troubleshoot solutions by using Application Insights

Module 5: Connect to and consume Azure services and third-party services

- Implement API Management
- Develop event-based solutions
- Develop message-based solutions

Get Career Ready

Prepare For Soft Skills

- LinkedIn Profile Building
- Resume Writing
- Communication skills as per industry needs
- Analytics skills
- Time management

Job Roles

- Cloud Engineer
- Presales Cloud Engineer
- Cloud Infrastructure Engineer
- DevOps Engineer