

CLOUD

ADVANCED

5 DAYS

Azure Cloud Essentials

Build a strong foundation in Microsoft Azure fundamentals, covering resource management, networking, security, and monitoring. Learn how to design, secure, and troubleshoot Azure environments while gaining exposure to advanced Azure services for enterprise workloads.

Why Azure Cloud Essentials?

Scalability and Flexibility

Azure allows you to scale resources up or down as needed, making it ideal for businesses with changing demands.

Security

Azure provides a highly secure cloud computing environment that adheres to industry-standard security and compliance certifications.

Cost-effective

Azure's pay-as-you-go model allows you to pay only for the services and resources that you use.

Hybrid Cloud

Azure supports hybrid cloud deployments, allowing businesses to connect on-premises infrastructure with the cloud seamlessly.

What you'll be able to do

- ✓ Gain a solid understanding of Azure Fundamentals
- ✓ Learn how to Create and Manage Azure Resources
- ✓ Learn how to Configure and manage Azure Networking
- ✓ Master about Securing Azure Resources
- ✓ Learn how to monitor and Troubleshoot Azure
- ✓ Master advanced Azure services

Who this is for

- IT Professionals Software developers System Administrators Network Engineers Security Engineers Product/Project/Marketing Managers
- Bachelor of Science Students System Architects

Curriculum

01 Introduction to cloud computing and Microsoft Azure

- Basic concepts of cloud computing and features of Microsoft Azure
- Apply concepts with guided exercises and validation checks
- Apply concepts with guided exercises and validation checks

02 Creating and managing Azure resources, including virtual machines, storage, and networking

- Learn to create
- Manage Azure resources including virtual machines
- And networking

03 Understanding Azure Active Directory and identity management

- Understand identity management using Azure Active Directory
- Apply concepts with guided exercises and validation checks
- Apply concepts with guided exercises and validation checks

04 Designing and implementing Azure-based solutions

- Design and implement Azure-based solutions
- Apply concepts with guided exercises and validation checks
- Apply concepts with guided exercises and validation checks

05 Monitoring and troubleshooting Azure solutions

- Learn to monitor and troubleshoot Azure solutions
- Apply concepts with guided exercises and validation checks
- Apply concepts with guided exercises and validation checks

06 Managing security and compliance in Azure

- Understand security and compliance in Azure and manage it
- Apply concepts with guided exercises and validation checks
- Apply concepts with guided exercises and validation checks

07 Using Azure tools and services for data management and analytics

- Learn to use Azure tools and services for data management and analytics
- Apply concepts with guided exercises and validation checks
- Apply concepts with guided exercises and validation checks

08 Understanding Azure pricing and support options

- Understand Azure pricing and support options
- Apply concepts with guided exercises and validation checks
- Apply concepts with guided exercises and validation checks

09 Best practices for deploying and managing Azure-based solutions

- Learn best practices for deploying and managing Azure-based solutions
- Apply concepts with guided exercises and validation checks
- Apply concepts with guided exercises and validation checks

10 Deploying and managing virtual machines in Azure

- Learn to deploy and manage virtual machines in Azure
- Apply concepts with guided exercises and validation checks
- Apply concepts with guided exercises and validation checks

11 Creating and managing virtual networks and subnets in Azure

- Learn to create and manage virtual networks and subnets in Azure
- Apply concepts with guided exercises and validation checks
- Apply concepts with guided exercises and validation checks

12 Understanding Azure storage options, including blobs, queues, and tables

- Learn about Azure storage options
- Including blobs
- Apply concepts with guided exercises and validation checks

13 Using Azure SQL Database for data storage and management

- Learn to use Azure SQL Database for data storage and management
- Apply concepts with guided exercises and validation checks
- Apply concepts with guided exercises and validation checks

14 Understanding the basics of Azure DevOps and continuous integration/continuous deployment (CI/CD)

- Understand the basics of Azure DevOps and continuous integration/continuous deployment (CI/CD)
- Apply concepts with guided exercises and validation checks
- Apply concepts with guided exercises and validation checks

15 Managing and monitoring Azure resources with Azure Monitor and Azure Log Analytics

- Learn to manage and monitor Azure resources using Azure Monitor and Azure Log Analytics
- Apply concepts with guided exercises and validation checks
- Apply concepts with guided exercises and validation checks

16 Using Azure Backup and Azure Site Recovery for disaster recovery and business continuity

- Learn to use Azure Backup and Azure Site Recovery for disaster recovery and business continuity
- Apply concepts with guided exercises and validation checks
- Apply concepts with guided exercises and validation checks

17 Implementing and managing Azure security features, including Azure Firewall and Network Security Groups (NSGs)

- Learn to implement
- Manage Azure security features
- Including Azure Firewall
- Network Security Groups (NSGs)

18 Creating and deploying web applications in Azure using Azure App Service

- Learn to create and deploy web applications in Azure using Azure App Service
- Apply concepts with guided exercises and validation checks
- Apply concepts with guided exercises and validation checks

19 Scaling Azure resources and implementing load balancing for high availability

- Learn to scale Azure resources and implement load balancing for high availability
- Apply concepts with guided exercises and validation checks
- Apply concepts with guided exercises and validation checks

20 Understanding the role of Azure in hybrid cloud scenarios and integrating on-premises infrastructure with Azure resources

- Understand the role of Azure in hybrid cloud scenarios and how to
- integrate on-premises infrastructure with Azure resources
- Apply concepts with guided exercises and validation checks