CLS | Learning Solutions

Why Azure Solutions Architect Expert Certifications ?

Azure solution architects have subject matter expertise in designing cloud and hybrid solutions that run on Microsoft Azure, including compute, network, storage, monitor, and security.

Design identity, governance, and monitoring solutions, Design data storage solutions, Design business continuity solutions and Design infrastructure solutions..

Audience Profile :

- This course is suitable for IT personnel who are just beginning to work with Azure. This audience wants to learn about our offerings and get hands-on experience with the product.
- Job role: Administrator, AI Engineer, Data Analyst, Data Engineer, Data Scientist, Database Administrator, Developer, Security Engineer

Prerequisites:

- Understanding of Active Directory concepts, including users, groups, and role-based access control.
- Understanding of resilience and disaster recovery, including backup and restore operations.

Course Overview:

- Azure solution architects have subject matter expertise in designing cloud and hybrid solutions that run on Microsoft Azure, including compute, network, storage, monitor, and security.
- Design identity, governance, and monitoring solutions, Design data storage solutions, Design business continuity solutions and Design infrastructure solutions.
- This Azure Solutions Architect Expert Learning Path teaches Azure Solution Architects how to design infrastructure solutions.
- Topics cover governance, compute, application architecture, storage, data integration, authentication, networks, business continuity, and migrations. The course combines lecture with case studies to demonstrate basic architect design principles.
- Responsibilities for this role include advising stakeholders and translating business requirements into designs for secure, scalable, and reliable Azure solutions.
- An Azure solutions architect partners with developers, administrators, and other roles responsible for implementing solutions on Azure.
- A candidate for this certification should have advanced experience and knowledge of IT operations, including networking, virtualization, identity, security, business continuity, disaster recovery, data platforms, and governance.

In this Learning path

1. **Microsoft Azure Fundamentals**
2. **Microsoft Azure Administrator**
3. **Designing Microsoft Azure Infrastructure Solutions**

Microsoft Azure Fundamentals Outline:

- Module 1: Cloud Concepts
- Why Cloud Services
- Types of Cloud models
- Types of Cloud services
- Module 2: Core Azure Services
- Core Azure Architectural components
- Core Azure Services and Products
- Azure Solutions
- Azure management tools
- Module 3: Security, Privacy, Compliance, and Trust
- Secure network connectivity
- Core Azure identity services
- Security tools and features
- Azure governance methodologies
- Monitoring and reporting
- Module 4: Azure Pricing, Service Level Agreements(SLAs), and Lifecycle
- Azure subscriptions
- Planning and managing costs
- Azure Service Level Agreements (SLAs)
- Service lifecycle in Azure

Microsoft Azure Administrator Outline:

- Module 1: Identity
- Azure Active Directory
- Users and Groups
- Module 2: Governance and Compliance
- Subscriptions and Accounts
- Azure Policy
- Role-based Access Control (RBAC)
- Module 3: Azure Administration
- Azure Resource Manager
- Azure Portal and Cloud Shell
- Azure PowerShell and CLI
- Module 4: Virtual Networking
- Virtual Networks
- IP Addressing
- Network Security groups
- Module 5: Intersite Connectivity
- VNet Peering
- VPN Gateway Connections
- ExpressRoute and Virtual WAN
- Module 6: Network Traffic Management
- Module 7: Azure Storage
- Module 8: Azure Virtual Machines
- Module 9: Serverless Computing
- Module 10: Data Protection
- Module 11: Monitoring

Designing Microsoft Azure Infrastructure Solutions Oultine:

- Module 1: Design governance and compute solutions
- Design a governance solution
- Design a compute solution
- Module 2: Design storage and data integration solutions
- Design a non-relational storage solution
- Design a relational storage solution
- Design a data integration solution
- Module 3: Design app architecture, access, and monitoring solutions
- Design an app architecture solution
- Design authentication and authorization solutions
- Design a logging and monitoring solution
- Module 4: Design network, continuity, and migration solutions
- Design a network infrastructure solution
- Design a business continuity solution
- Design a migration solution
- Lab : Case studies
- Design a networking infrastructure solution.
- Design a business continuity solution.
- Design a migration solution.