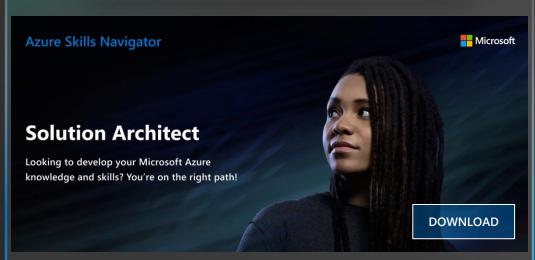
Azure Solutions Architect Learning Pathway (1/2)

www.aka.ms/pathways

Getting started



This Azure learning journey is designed for Solution Architects defining the design and implementation of technology solutions in Microsoft Azure. Using the understanding of an organization's business requirements and developer capabilities, these IT professionals use building blocks of different technology components to create robust, optimized architectures.

Continue your foundational learning

- Architecture Centre Home
- Browse Azure Architectures
- **Explore Cloud Best Practices**
- Assess, optimise and review your workload
- See what's new
- Best Practices and patterns for building applications on Azure
- Explore Architectures and guides for different technologies

Azure Architecture Documentation

Well Architected Framework

- Azure Fundamentals
- Data Fundamentals
- Al Fundamentals
- Architect secure infrastructure in Azure
- Architect network infrastructure in Azure
- Architect infrastructure operations in Azure
- Architect compute infrastructure in Azure
- Architect storage infrastructure in Azure
- Architect migration, business continuity, and disaster recovery in Azure
- Architect a data platform in Azure
- Architect modern applications in Azure
- Architect API integration in Azure
- Microsoft Azure Well-Architected Framework

- Azure Monitor Logs overview
- Azure Diagnostic Logs
- Enable diagnostics logging for apps in Azure App Service
- Create diagnostic setting to collect platform logs and metrics in Azure
- Azure security logging and auditing
- **Azure Monitor Overview**
- Best practices for monitoring cloud applications
- What is Microsoft Sentinel?
- Assign Azure roles using the Azure portal
- What is Azure role-based access control (Azure RBAC)?
- Quickstart: Check access for a user to Azure resources
- What are managed identities for Azure resources?
- Use a Windows VM system-assigned managed identity to access Resource Manager
- What are Azure AD access reviews?
- What is Identity Protection?
- Secure your management ports with just-intime access
- What is Azure AD Privileged Identity Management?
- What are the Azure Management areas?
- What are Azure management groups?
- What is Azure Policy?
- Tutorial: Create and manage policies to enforce compliance
- What are managed identities for Azure resources?
- Use a Windows VM system-assigned managed identity to access Resource Manager
- About Azure Key Vault
- Azure Key Vault keys, secrets and certificates
- Configure how users consent to applications

- Azure SQL Database service tiers
- General purpose service tier Azure SQL Database

Continue your learning

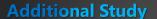
- Scalability
- Azure Data Encryption at rest
- Azure encryption overview
- Transparent data encryption for SQL Database and Azure Synapse
- What is Azure Data Factory?
- What is Azure Databricks?
- What is Azure Data Lake Storage Gen1
- Introduction to Azure Data Lake Storage
- What is dedicated SQL pool (formerly SQL DW) in Azure Synapse Analytics?
- Understand data store models
- What is SOL Server on Windows Azure Virtual Machines?
- What is Azure SQL Database?
- What is Azure SQL Managed Instance?
- What is Azure Database for PostgreSQL?
- What is Azure Database for MariaDB?
- What is Azure Database for MvSOL?
- Welcome to Azure Cosmos DB
- Understand data store models
- Non-relational data and NoSOL
- What is Apache HBase in Azure HDInsight
- Azure Cache for Redis
- Table storage
- Azure Time Series Insights
- Azure Blob Storage
- Azure Data Lake Storage
- Azure Files
- Azure Cognitive Search
- Non-relational data and NoSOL
- Core Azure Storage services
- Access control model in Azure Data Lake Storage Gen2
- Data protection overview

Design business continuity solutions

- Site Recovery | General questions
- VMware to Azure replication
- Hyper-V to Azure disaster recovery
- What is the Azure Backup service?
- Azure Backup architecture and
- components
- Azure Backup server protection
- Best practices for business continuity and disaster recovery in Azure **Kubernetes Service (AKS)**
- Azure Backup architecture and components
- An overview of Azure VM backup
- About SQL Server Backup in Azure
- Azure Database for PostgreSQL backup
- Regions and availability zones
- Azure services that support availability zones
- Availability options for Azure Virtual Machines
- Build solutions for high availability using availability zones
- Azure Storage redundancy
- Achieve high availability with Cosmos
- Build solutions for high availability using availability zones
- High availability for Azure SQL Database and SQL Managed Instance

Azure Solutions Architect Learning Pathway (2/2)

www.aka.ms/pathways



- Virtual machines in Azure
- What is Azure Virtual Desktop?
- Choose an Azure compute service
- App Service documentation
- Azure Kubernetes Service
- What is Azure Container Instances?
- Introduction to private Docker container registries in Azure
- Introduction to Azure Functions
- Caching guidance
- Azure CDN Documentation
- CDN quidance
- Create an Azure CDN endpoint
- What is Azure Front Door?
- About Azure Cache for Redis
- Choose between Azure messaging services - Event Grid, Event Hubs, and Service Bus
- What is Azure Service Bus?
- Use Azure portal to create a Service Bus namespace and a queue
- Get started with Azure Service Bus queues (.NET)
- What is Azure Event Grid?
- Event-Driven Architecture in the Cloud with Azure Event Grid
- Route custom events to web endpoint with the Azure portal and **Event Grid**
- Tutorial: Monitor virtual machine changes by using Azure Event Grid and Logic Apps
- Features and terminology in Azure **Event Hubs**
- Quickstart: Create an event hub using Azure portal
- Tutorial: Stream data into Azure Databricks using Event Hubs

Role based Certification

Azure Administrator

AZ-104: Microsoft Azure Administrator (prerequisite for AZ-305)

- Manage Azure identities and governance
- Implement and manage storage
- Deploy and manage Azure compute resources Configure and manage virtual networking
- Monitor and back up Azure resources

Please see the Azure Administrator Learning Pathway for more details.

Role based Certification

Solutions Architect

AZ-305: Designing Microsoft Azure Infrastructure Solutions

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

Exam Skills Outline

Course Page

Exam Page

Practice Assessment

- Microsoft Azure Architect Design Prerequisites
- Design identity, governance and monitor solutions
- Design business continuity solutions
- Design data storage solutions
- Design infrastructure solutions
- Build great solutions with Microsoft Azure Well-Architected Framework
- Accelerate cloud adoption with the Microsoft Cloud Adoption Framework for Azure

Well-Architected Framework

The Azure Well-Architected Framework is a set of guiding tenets that can be used to improve the quality of a workload. The framework consists of five pillars of architectural excellence. Start with the

| Pillar | Description |
|------------------------|--|
| Reliability | The ability of a system to recover from failures and continue to function. |
| Security | Protecting applications and data from threats. |
| Cost Optimization | Managing costs to maximize the value delivered. |
| Operational Excellence | Operations processes that keep a system running in production. |
| Performance Efficiency | The ability of a system to adapt to changes in load. |

Microsoft Learn Collections

Azure VMware Solution

Azure Virtual Desktop

Azure Compute

Azure Arc

Azure Storage

Azure Monitor

BCDR

Automanage

Azure Networking Security

Modernise your

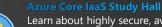
Infrastructure

Azure Infrastructure Official Collection

Azure Networking

Microsoft Cloud Adoption Framework for Azure





Learn about highly secure, available, and scalable cloud services. Modernize your IT with an enterprisegrade cloud infrastructure and migrate your apps with

On demand library: Watch all previous shows on demand HERE

confidence. Running through to June 2023.



Designing Infrastructure Solutions In about 21 hours, you'll learn about advising stakeholders and translating business requirements into designs for secure, scalable, and reliable Azure solutions.

Azure Connected Learning Experience

Microsoft Azure Connected Learning Experience (CLX) is an experiential training program that sets a trajectory for aspiring learners and working professionals to be Azure experts. The CLX program offers a personalized journey that aims to optimize learning experience while maximizing return on time invested.





Microsoft Virtual Training Days

Build the technical skills you need with free Virtual Training Days.

Click Here



Here