Azure Solutions Architect Learning Pathway (1/3)

www.aka.ms/pathways

Welcome

Welcome to this learning pathway that brings together a multitude of Microsoft resources to help you learn and grow as an Azure Solutions Architect.
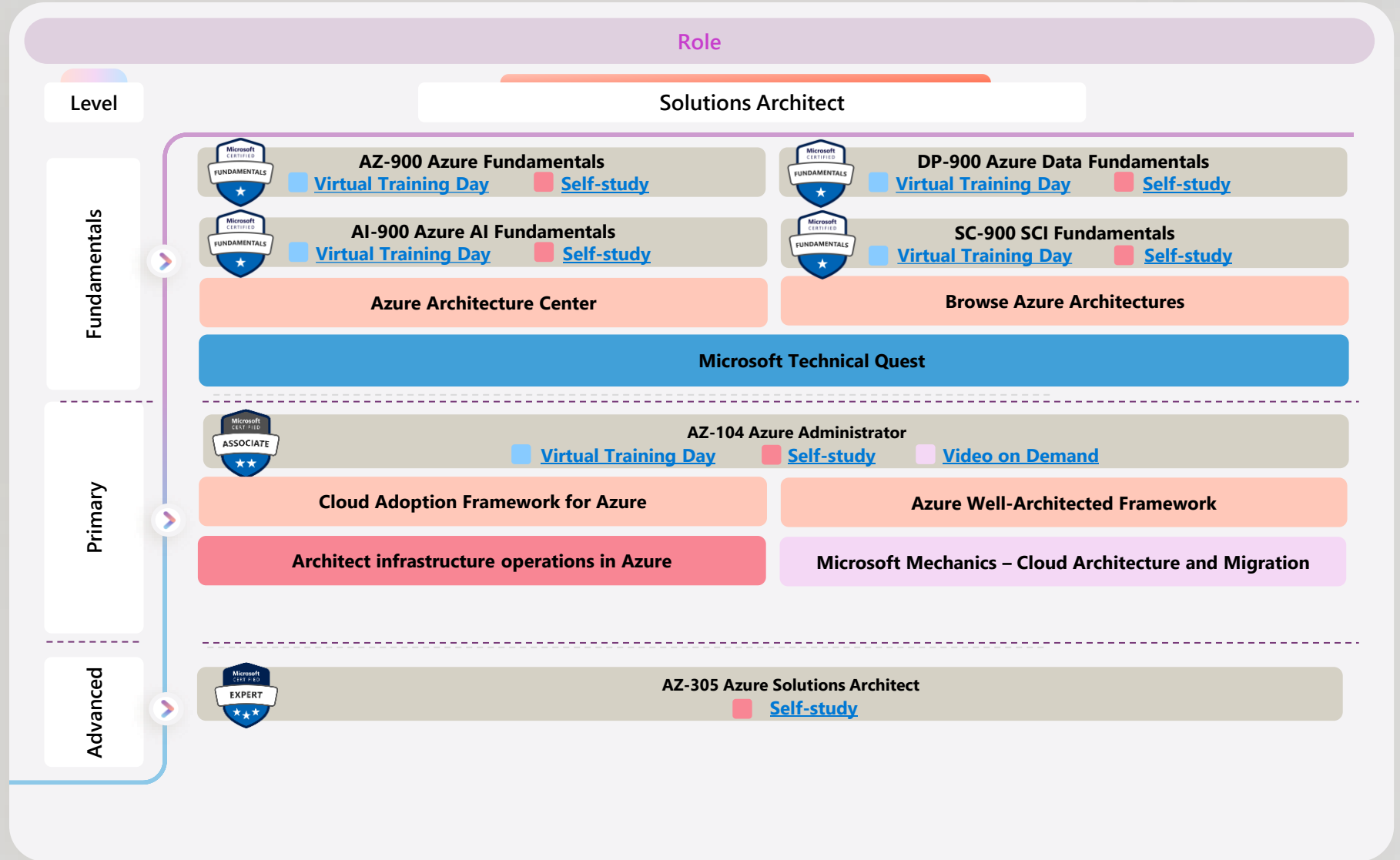
Get out of the gate quickly and easily by following the learning recommendations on this page.

Alternatively, please review the content on the next two pages for a carefully curated selection of content to support your learning journey.

Good luck!

Key

- Virtual Training Day
- Certification Content
- Video
- Self-Study
- Games
- Documentation

Role

Level — Solutions Architect

Fundamentals

AZ-900 Azure Fundamentals	DP-900 Azure Data Fundamentals
Virtual Training Day — Self-study	Virtual Training Day — Self-study

AI-900 Azure AI Fundamentals	SC-900 SCI Fundamentals
Virtual Training Day — Self-study	Virtual Training Day — Self-study

Azure Architecture Center	Browse Azure Architectures

Microsoft Technical Quest

Primary

AZ-104 Azure Administrator
Virtual Training Day — Self-study — Video on Demand

Cloud Adoption Framework for Azure	Azure Well-Architected Framework
Architect infrastructure operations in Azure	Microsoft Mechanics – Cloud Architecture and Migration

Advanced

AZ-305 Azure Solutions Architect
Self-study

Azure Solutions Architect Learning Pathway (2/3)

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Getting started

Introduction:

Learn how to design infrastructure solution with considerations including governance, compute, application architecture, storage, data integration, authentication, networks, business continuity, and migrations.

Audience Profile:
You will have experience and knowledge in IT operations, including networking, virtualization, identity, security, business continuity, disaster recovery, data platforms, and governance. You will also have experience designing and architecting solutions.

Microsoft Learn

- Azure Fundamentals
- Data Fundamentals
- AI Fundamentals
- Architecture Centre Home
- Browse Azure Architectures
- Azure application architecture fundamentals
- See what's new
- Architect secure infrastructure
- Architect network infrastructure
- Architect infrastructure operations

- Architect compute infrastructure
- Architect storage infrastructure
- Architect migration, business continuity, and disaster recovery
- Architect a data platform
- Architect modern applications
- Architect API integration
- Microsoft Azure Well-Architected Framework

Azure Architecture Documentation

Well Architected Framework

Microsoft Learn

Design identity, governance, and monitoring solutions

- Azure Monitor Logs overview
- Enable diagnostics logging for apps in Azure App Service
- Azure security logging and auditing
- Azure Monitor Overview
- Monitoring and diagnostics guidance
- 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 a single Azure resource
- What are managed identities for Azure resources?
- Tutorial: Use a Windows VM/VMSS to access Azure resources
- What are access reviews?
- hat is Microsoft Entra ID Protection?
- Enable just-in-time access
- What is Microsoft Entra 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?
- About Azure Key Vault
- Azure Key Vault keys, secrets and certificates overview
- Configure how users consent to applications

Design Data Storage Solutions

- vCore purchasing model - Azure SQL Database
- Dynamically scale database resources with minimal downtime - Azure SQL Database & Azure SQL Managed Instance
- Azure Data Encryption at rest
- Azure encryption overview
- Transparent data encryption for SQL Database, SQL Managed Instance, and Azure Synapse Analytics
- What is Azure Data Factory?
- What is Azure Databricks?
- Introduction to Azure Data Lake Storage
- What is dedicated SQL pool (formerly SQL DW) in Azure Synapse Analytics?
- Understand data store models
- What is SQL Server on Windows Azure Virtual Machines?
- What is Azure SQL Database?
- What is Azure SQL Managed Instance?
- What is Azure Database for PostgreSQL - Flexible Server?
- What is Azure Database for MariaDB?
- What is Azure Database for MySQL - Flexible Server?
- Welcome to Azure Cosmos DB
- Understand data store models
- Non-relational data and NoSQL
- What is Apache HBase in Azure HDInsight
- Azure Cache for Redis
- Table storage
- Azure Blob Storage

Microsoft Technical Quest

Microsoft Applied Skills

Targeted validation for real-world scenarios. Demonstrate proficiency in specific, scenario- based skill sets so you can make a bigger impact on every project, at your organization, and in your career

Explore Applied Skills

Azure Solutions Architect Learning Pathway (3/3)

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Microsoft Learn

Design Data Storage Solutions
- Azure Data Lake Storage
- Azure Files
- Azure AI Search
- Non-relational data and NoSQL
- Introduction to Azure Storage
- Access control model in Azure Data Lake Storage
- 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
- MABS (Azure Backup Server) V4 (and later) protection matrix
- High availability and disaster recovery overview for Azure Kubernetes Service (AKS)
- Azure Backup architecture and components
- An overview of Azure VM backup
- About SQL Server Backup in Azure VMs
- Azure Database for PostgreSQL backup
- What are availability zones?
- Azure regions with availability zone support
- Availability options for Azure Virtual Machines
- Recommendations for using availability zones and regions
- Azure Storage redundancy
- High availability (Reliability) in Azure Cosmos DB for NoSQL

- Availability through redundancy - Azure SQL Database

Design Infrastructure Solutions
- 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 Azure Container Registry
- Introduction to Azure Functions
- Caching guidance
- Azure Front Door and CDN documentation
- CDN guidance
- 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

- Quickstart: Send custom events to web endpoint with the Azure portal and Azure Event Grid
- Tutorial: Monitor virtual machine changes by using Azure Event Grid and Azure Logic Apps
- Features and terminology in Azure Event Hubs
- Quickstart: Create an event hub using Azure portal
- Stream processing with Apache Kafka and Azure Databricks

Role based Certification

Prerequisite for AZ-305: AZ-104: Microsoft Azure Administrator

Skills Measured:
- 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

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AZ-305: Azure Solutions Architect

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

- 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

Exam Page	Practice Assessment	Video on Demand
Exam Study Guide	Course Page	