Azure Developer Certification Pathway

Getting Started

This Microsoft learning journey is designed for developers. This guide maps out your itinerary for deepening your knowledge, drawing on a wide array of Microsoft resources, divided into three phases:

Ramp up
Discover core skills and language fundamentals.

App development
Learn how to build cloud-native apps with various cloud architectures, frameworks for web, mobile apps, and relevant Azure services.

In production
Explore services for monitoring, logging, instrumentation, and authorization

Continue your foundational learning

- Azure Fundamentals
- Data Fundamentals
- Build your Tech resilience
- Introduction to Visual Studio Code
- Introduction to Kubernetes on Azure
- Orchestrate containers for cloud-native apps with AKS
- Cloud computing basics for developers
- Get started with Azure DevOps
- Microsoft Developer Channel YouTube
- Developer LunchBytes YouTube

Role Based Certification
Microsoft Certified: Azure Developer Associate

AZ-204: Microsoft Azure Developer

Skills Measured:

- Develop Azure compute solutions (25-30%)
- Develop for Azure storage (15-20%)
- Implement Azure security (20-25%)
- Monitor, troubleshoot/optimize Azure solutions (15-20%)
- Connect to and consume Azure services and third-party services (15-20%)

30 Days to Learn Challenge! | Course Page | GitHub Labs | Exam Page

Exam Curriculum

AZ-204 teaches developers how to create end-to-end solutions in Microsoft Azure. Students will learn how to implement Azure compute solutions, create Azure Functions, implement and manage web apps, develop solutions utilizing Azure storage, implement authentication and authorization, and secure their solutions by using KeyVault and Managed Identities.

Certification Curriculum:

- Create Azure App Service Web Apps
- Implement Azure Functions
- Develop Solutions that use Blob Storage
- Develop Solutions that use Azure Cosmos DB
- Implement Infrastructure as a service solutions
- Implement user authentication and authorisation
- Implement secure cloud solutions
- Implement API management
- Develop event-based solutions
- Develop message-based solutions
- Instrument solutions to support monitoring and logging
- Integrate caching and content delivery within solutions

Reinforce your Learning

Microsoft Learn
- Apply and monitor infrastructure standards with Azure Policy
- Work with relational data in Azure
- Choose a data storage approach in Azure
- Work with NoSQL data in Azure Cosmos DB
- Take your first steps with Python
- Build JavaScript applications with Node.js
- Distributed programming on the cloud

Azure App Service web apps
- App Service Documentation
- Azure App Service | App Service Plan
- Create a web app and deploy code from GitHub
- Web application monitoring on Azure

Azure Functions:
- Introduction to Azure Functions
- Azure Functions documentation

CLI:
- Get started with Azure CLI
- Control Azure services with the CLI
- Manage virtual machines with the Azure CLI
- Create Azure resources by using Azure CLI
- Azure Command-Line Interface (CLI) documentation

Developer for Azure Storage:
- Azure Cosmos DB | APIs
- Quickstart: Create an Azure Cosmos DB Instance
- Partitioning
- Blob Storage | Manage blobs with Python

Monitoring & Logging:
- Azure Monitor | Monitor Documentation
- Enabling Application Insights
- Alerts & Rules
- Log Queries

Content Delivery Network (CDN):
- What is a content delivery network on Azure?
- Caching Fundamentals
- What is Azure Front Door (difference from CDN)
- Azure Cache for Redis Documentation

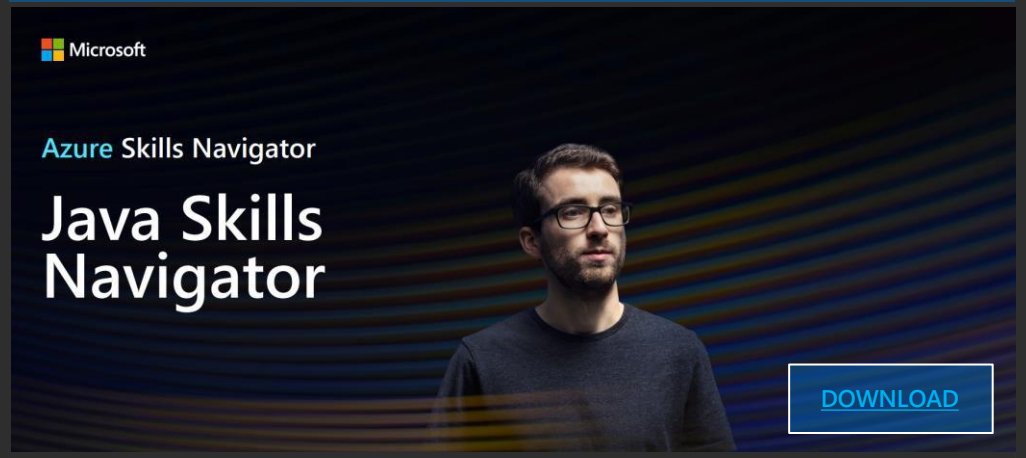
Documentation

- .NET documentation
- Azure Developer Tools

Additional Guides

Azure Developer Certification Pathway

Java



There are a host of reasons why developers prefer building Java applications in Azure, from the ability to build, debug, and deploy Java applications using their favourite development environments to quickly adding services and capabilities and integrating them with other apps and services in the Microsoft partner ecosystem. And not least of all, the productivity bonus of not having to manage infrastructure during development.

This guide helps you navigate the resources and training for choosing the right service, building, and deploying, monitoring, and expanding the capabilities of Java applications on Azure.

Continue your foundational learning

- Get started with Java on Azure
- Microsoft's Java for beginners (YouTube)
- Microsoft for Java Developers (YouTube)
- Java learning path
- Workshops and videos for Java developers
- Java on Azure Samples
- Cheat sheets for Java developers
- Java to Azure migration strategy documentation
- Microsoft for Java Developers
- Azure for Java developer documentation
- Azure SDK for Java documentation

Python (coming soon)

John Savill's Technical Training

DevOps Master Class

PowerShell Master Class