

## AZ-204: Microsoft Azure Developer Associate Exam Study Guide

April 6, 2022 by [manish](#)

★★★★★ 5/5 - (9 votes)

The Developing Solutions for Microsoft Azure or AZ-204 test surveys the up-and-comer's capacity to foster Azure figure arrangements, produce for Azure capacity, carry out Azure security, screen, investigate, upgrade Azure arrangements, and interface with and consume Azure and outsider administrations.

To be a Microsoft Certified Azure Developer Associate, you should accept the Microsoft AZ-204 test. Contrasted with other Microsoft job-based assessments, AZ-204 is a partner-level test with a halfway trouble.

The topics covered in this blog are:

- [What Is Azure Developer Certification?](#)
- [Who Can Do This Certification?](#)
- [Why Become an Azure Developer?](#)
- [Benefits of AZ-204 Certification](#)
- [AZ-204 Exam Details](#)
- [AZ-204 Exam Skills Measured](#)
- [How to Register for Azure AZ 204 Exam](#)
- [Pre-requisites for AZ-204 Certification](#)
- [AZ 204 Study Guide](#)
- [AZ-204 Exam Retake Policy](#)
- [AZ 204 Exam Day Tips](#)
- [Conclusion](#)

## What Is Azure Developer Certification?

This affirmation is meant for Information and Technology, and cloud experts who have 1-2 years of involvement being developing devices and cycles and wish to take their insight to a higher level by finishing the AZ-204 test.

The test, as per Microsoft, expects that you have or assemble a solid information base around:

- Azure SDKs
- Azure PowerShell
- Azure CLI
- Information capacity choices
- Information associations
- APIs
- Application verification and approval
- Register and holder organization
- Troubleshooting
- Execution tuning
- Checking





Azure Developer Associate

Are you new to the Azure cloud? Do check out our blog post on the [Azure Certification Path 2022](#) and choose the best certification for you.

## Who Can Do This Certification?

The certification is meant for these people:

- Applicants filling in as Azure Engineers.
- The individuals who have topic skill planning, building, testing, and keeping up with cloud applications.
- Individuals who are cloud DBAs and cloud executives.
- Individuals who have an essential comprehension of systems administration and virtualization.
- The individuals who are great at the execution of cloud arrangements

## Why Become an Azure Developer?

The reasons why one should become an Azure Developer are:

- By getting your certification in this field, you will likely see career growth which in turn increases your earnings.

- If flexibility is what you are looking for when it comes to your career, a [Microsoft Azure](#) certification can offer you just that.
- You learn how theoretical concepts can be used to solve business problems.

## Benefits of AZ-204 Certification

The benefits of AZ-204 certification are:

- Cloud Technology previously, present, and future.
- As talked before the changes of the businesses lead to the interest for Cloud Computing experts will keep on developing.
- Better possibilities of getting shortlisted for a meeting with the testament.
- It gives security to your work.
- This confirmation is essential for the DevOps test.

**Check Out:** [Azure Data Factory Interview Questions and Answers](#)

## AZ-204 Exam Details

<b>Exam Name</b> Microsoft Azure AZ-204: Developing Solutions for Microsoft Azure	<b>Exam Duration</b> 150 Minutes
<b>Exam Type</b> Multiple Choice Examination	<b>Number of Questions</b> 40 - 60 Questions
<b>Exam Fee</b> \$165	<b>Eligibility/Pre-Requisite</b> None
<b>Exam validity</b> 2 years	<b>Exam Languages</b> English, Japanese, Korean, and Simplified Chinese

## AZ-204 Exam Skills Measured

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

## How to Register for Azure AZ 204 Exam

You can register for the Microsoft Azure Developer Associate (AZ-204) Exam by going to the [official Microsoft page](#).


### Exam AZ-204: Developing Solutions for Microsoft Azure

**Languages:** English, Japanese, Chinese (Simplified), Korean, French, German, Spanish, Portuguese (Brazil), Russian, Chinese (Traditional), Italian, Indonesian (Indonesia), Arabic (Saudi Arabia)

**Retirement date:** none

This exam measures your ability to accomplish the following technical tasks: develop Azure compute solutions; develop for Azure storage; implement Azure security; monitor, troubleshoot, and optimize Azure solutions; and connect to and consume Azure services and third-party services. You will be able to select the code language (C# or Python) that's included in the questions when you launch the exam.

[Schedule exam >](#)

United States 

**\$165 USD\***

Price based on the country in which the exam is proctored.

## Pre-requisites for AZ-204 Certification

Microsoft recommends the following prerequisites for the AZ-204 Exam:

1. Candidates should have one to two years of professional expertise in cloud solution development and Microsoft Azure.
2. Candidates should have potential competence in programming in a

high-level programming language supported by [Azure](#).

## AZ 204 Study Guide

### Develop Azure Compute Solutions (25-30%)

#### Implement IaaS solutions

- provision virtual machines (VMs)
  - [Create a Windows virtual machine in Azure with PowerShell](#)
- configure, validate, and deploy ARM templates
  - [Create and deploy ARM templates by using the Azure portal](#)
  - [Validating Azure ARM Template Never Been Easier](#)
  - [Use ARM template test toolkit](#)
- configure container images for solutions
  - [Create a container image for deployment to Azure Container Instances](#)
- publish an image to the Azure Container Registry
  - [Push image to Azure Container Registry](#)
- run containers by using Azure Container Instance
  - [Deploy a container application to Azure Container Instances](#)

#### Create Azure App Service Web Apps

- create an Azure App Service Web App
  - [Deploy an ASP.NET web app](#)
- enable diagnostics logging
  - [Enable diagnostics logging for apps in Azure App Service](#)
- deploy code to a web app
  - [Deploy files to App Service](#)
- configure web app settings including SSL, API settings, and connection strings
  - [Configuring web app settings with SSL](#)

- [Configure connection strings](#)
- [Host a RESTful API with CORS in Azure App Service](#)
- implement autoscaling rules including scheduled autoscaling and autoscaling by operational or system metrics
  - [Get started with Autoscale in Azure](#)
  - [Scheduled Autoscaling & scaling by operational or system metrics](#)
  - [Overview of common autoscale patterns](#)

## **Implement Azure functions**

- create and deploy Azure Functions apps
  - [Create a function app](#)
  - [Deploy a function app to Azure Functions](#)
- implement input and output bindings for a function
  - [Azure Functions triggers and bindings concepts](#)
- implement function triggers by using data operations, timers, and webhooks
  - [Timer trigger for Azure Functions](#)
  - [Create an Azure function triggered by a webhook](#)
- implement Azure Durable Functions
  - [Create Durable Functions using the Azure portal](#)
- implement custom handlers
  - [Azure Functions custom handlers](#)

## **Develop for Azure Storage (15-20%)**

### **Develop solutions that use Cosmos DB storage**

- select the appropriate API and SDK for a solution
  - [Choose the appropriate API for Azure Cosmos DB](#)
- implement partitioning schemes and partition keys
  - [How to model and partition data on Azure Cosmos DB using a real-world example](#)

- [Partitioning and horizontal scaling in Azure Cosmos DB](#)
- [Deep Dive into Azure Cosmos PartitionKey and Partitions](#)
- perform operations on data and Cosmos DB containers
  - [Insert and query data in your Azure Cosmos DB database](#)
- set the appropriate consistency level for operations
  - [Consistency levels in Azure Cosmos DB](#)
- manage change feed notifications
  - [Change feed-in Azure Cosmos DB](#)
  - [Change Feed – Unsung Hero of Azure Cosmos DB](#)

## **Develop solutions that use blob storage**

- move items in Blob storage between storage accounts or containers
  - [Move Azure storage blobs from the command line with the Azure CLI](#)
- set and retrieve properties and metadata
  - [Setting properties and metadata during the import process](#)
- perform operations on data by using the appropriate SDK
  - [Azure Blob Storage client library v12 for .NET](#)
- implement storage policies, and data archiving and retention
  - [Configure immutability policies for blob versions](#)
  - [Optimize costs by automatically managing the data lifecycle](#)
  - [Archive access tier](#)
  - [Configure immutability policies for blob versions](#)

## **Implement Azure Security (20-25%)**

### **Implement user authentication and authorization**

- authenticate and authorize users by using the Microsoft Identity platform
  - [Authentication with OAuth](#)
  - [Authentication flow support in MSAL](#)



- [Microsoft identity platform and OAuth 2.0 authorization code flow](#)
- authenticate and authorize users and apps by using Azure Active Directory
  - Authentication
    - [Get started with certificate-based authentication in Azure AD](#)
    - [Authentication methods in Azure AD](#)
  - Authorization
    - [Authorize with Azure Active Directory](#)
    - [Acquire a token from Azure AD for authorizing requests](#)
  - create and implement shared access signatures
    - [Grant limited access to Azure Storage resources using SAS](#)

## **Implement secure cloud solutions**

- secure app configuration data by using App Configuration Azure Key Vault
  - [Use Key Vault references in an ASP.NET Core app](#)
  - [Centralized app configuration and security](#)
- develop code that uses keys, secrets, and certificates stored in Azure Key Vault
  - Keys
    - [Set and retrieve a key from Azure Key Vault using Azure PowerShell](#)
    - [Azure Key Vault key client library for .NET \(SDK v4\)](#)
  - Secrets
    - [Set and retrieve a secret from Azure Key Vault using PowerShell](#)
    - [Azure Key Vault secret client library for .NET \(SDK v4\)](#)
  - Certificates
    - [Set and retrieve a certificate from Azure Key Vault using Azure PowerShell](#)
    - [Azure Key Vault certificate client library for .NET \(SDK v4\)](#)
- implement solutions that interact with Microsoft Graph
  - [Microsoft Graph Quick Start](#)

- [Use the Microsoft Graph API](#)

## Monitor, Troubleshoot, and Optimize Azure Solutions (15-20%)

### Integrate caching and content delivery within solutions

- Configure cache and expiration policies
  - [Control Azure CDN caching behavior with caching rules](#)
- Configure cache and expiration policies for Azure Redis Cache
  - [Setting an expiration value on keys](#)
    - [EXPIRE key seconds](#)
    - [EXPIREAT key Unix-time-seconds](#)
  - [How to configure Azure Cache for Redis](#)
- Implement secure and optimized application cache patterns including data sizing, connections, encryption, and expiration
  - [Common cache patterns with Azure Redis Cache](#)
    - [Cache-Aside pattern](#)
    - [Sharding pattern](#)
  - [Caching guidance](#)

### Troubleshoot solutions using metrics and log data

- configure an app or service to use Application Insights
    - [Application Insights for ASP.NET Core applications](#)
    - [Configure Application Insights for your ASP.NET website](#)
    - [Application Insights for .NET console applications](#)
  - Review and analyze metrics and log data
    - [Troubleshooting no data – Application Insights for .NET/.NET Core](#)
    - [Troubleshoot an App Service app with Azure Monitor](#)
  - implement Application Insights web tests and alerts
    - [Creating an Application Insights Web Test and Alert Programmatically](#)
-

## Connect to and Consume Azure Services and third-party services (15- 20%)

### Implement API Management

- Create an APIM instance
  - [Create a new Azure API Management service instance by using the Azure portal](#)
- Configure authentication for APIs
  - [Secure APIs using client certificates in APIM](#)
- Define policies for APIs
  - [How to set or edit Azure API Management policies](#)

### Develop event-based solutions

- implement solutions that use Azure Event Grid
  - [Automate resizing uploaded images using Event Grid](#)
- Implement solutions that use Azure Notification Hubs
  - [Send notifications to Universal Windows Platform apps using Azure Notification Hubs](#)
- implement solutions that use Azure Event Hub
  - [Visualize data anomalies in real-time events sent to Azure Event Hubs](#)
- Import OpenAPI definitions
  - [Import an OpenAPI specification](#)
  - [Import and publish your first API](#)
  - [API import restrictions and known issues](#)

### Develop message-based solutions

- implement solutions that use Azure Service Bus
  - [Use Azure PowerShell to create a Service Bus namespace and a queue](#)
- implement solutions that use Azure Queue Storage queues

- [Work with Azure Queue Storage queues in .NET](#)

## Exam Retake Policy

1. As a matter of first importance, assuming that an applicant fizzles on the primary endeavor, he/she needs to stand by 24 hours before retaking the test.
2. Furthermore, if he/she falls flat on the second endeavor, they should wait for 14 days to retake the test.
3. And lastly, the candidate can take a limit of 5 retakes in a year.

## AZ-204 Exam Day Tips

It is smarter to check in something like 30 minutes before the assessment. Using time productively is one of the urgent boundaries in this test. Every one of the members is given a commencement clock in the Azure Fundamentals certificate test. Besides, certain queries in the AZ-204 test won't permit the member to return and expect to be addressed immediately.

The competitor should painstakingly peruse the directions before beginning the Microsoft AZ-204 assessment. It is smarter to unwind before the beginning of the test.

## Conclusion

AZ 204 Azure Developer Associate test was an extreme one. Since this Microsoft Certification is planned and planned for Software designers or cloud engineers, you can expect that it is more specialized and isn't generally so natural as any essentials test.

The base breezing through the score for this test is 700. Assuming you have finished AZ-204, you can finish the AZ-400 to get the Azure DevOps Expert

certificate, which tests your start to finish cloud information.

## Related/References

- [SC-900: Azure Security Fundamentals Certification Study Guide](#)
- [AZ-900: Azure Fundamentals Certification Study Guide](#)
- [AI-900: Azure AI Fundamentals Certification Study Guide](#)
- [DP-900: Azure Data Fundamentals Certification Study Guide](#)
- [Azure Durable Functions](#)
- [What is Microsoft Azure Recovery Services Vault?](#)



## Leave a Comment

Name \*

Email \*

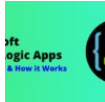
Save my name, email, and website in this browser for the next time I comment.



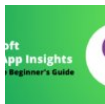
## Recent Posts



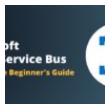
Azure Storage Explorer: Download, Install, and Setup Overview



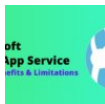
What are Azure Logic Apps: Components, Advantages and How it Works



Microsoft Azure Application Insights: A Complete Beginners Guide



Microsoft Azure Service Bus: A Complete Beginners Guide



Azure App Service: Types, Benefits and Limitations