Microsoft Azure training and certifications

aka.ms/AzureTrainCertDeck
How to use this deck

Training Journeys

- Azure training journey for IT pros
- Azure training journey for developers
- Azure training journey for data & AI pros

Certifications

- Microsoft Azure certifications
- Azure Fundamentals
- Azure Data Fundamentals
- Azure AI Fundamentals
- Azure Administrator Associate
- Azure Security Engineer Associate
- Azure Stack Hub Operator Associate
- Azure Network Engineer Associate
- Windows Server Hybrid Administrator Associate
- Azure Solutions Architect Expert
- Azure for SAP Workloads Specialty

- Continue your Azure training journey
- Microsoft Azure Virtual Training Days
- Azure Virtual Desktop Specialty
- Azure Developer Associate
- DevOps Engineer Expert
- Azure IoT Developer Specialty
- Azure Database Administrator Associate
- Azure Data Engineer Associate
- Data Analyst Associate
- Azure Cosmos DB Developer Specialty
- Azure AI Engineer Associate
- Azure Data Scientist Associate
Welcome to Microsoft Azure training and certifications

Our approach to learning is to develop an inclusive environment for every stage in an individual’s career.

How to use this deck
The following resources will prepare you for the learning experience.

- **Training journey**
  Recommended tracks to help you identify where to start your training and where to go based on your role or projects.

- **Certification portfolio**
  Available certifications and associated exams in portfolio.

- **Certification overview**
  Identify the right candidate profile with the recommended skills, knowledge, and experience.

- **Certification journey**
  Recommended steps to earn a certification, including preparation resources and opportunities for continue learning.

- **Certification learning path**
  Recommended training content to prepare for certification exams, including self-paced training and Microsoft Official Courseware (MOC) delivered by Learning Partners.
**Master the basics**

- **New to the cloud or new to Azure**
  - Azure Fundamentals
  - AZ-900

- **Prerequisites for Azure administrators**
  - Azure Administrator Associate
  - AZ-104
  - Azure Network Engineer Associate
  - AZ-700
  - Azure for SAP Workloads Specialty
  - AZ-120

**Grow in role**

- **Start here**
  - Implement, manage, and monitor cloud solutions
  - Azure Administrator Associate
  - AZ-104
  - Implement and manage networking solutions
  - Azure Network Engineer Associate
  - AZ-700

- **Deliver continuous value integrating people, processes, and technologies**
  - DevOps Engineer Expert
  - AZ-400
  - Design and implement end-to-end cloud solutions
  - Azure Solutions Architect Expert
  - AZ-305 (or AZ-303 + AZ-304)
  - Deliver virtual desktop experiences and remote apps on Azure
  - Azure Virtual Desktop Specialty
  - AZ-140

- **Implement and manage secure cloud solutions**
  - Azure Security Engineer Associate
  - AZ-500

- **Manage on-premises hyper-converged environments with Azure Stack HCI**
  - Bring cloud agility on-premises
  - Azure Stack Hub Operator Associate
  - AZ-600

**Want to keep learning?**

- Check out the Security, Compliance, and Identity Training Journey

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**See the complete Azure Training Journey**
Microsoft Azure Training Journey for IT Pros (2)

Master the basics

New to the cloud or new to Azure
- Azure Fundamentals AZ-900

Prerequisites for Azure administrators

Grow in role

Start here

Manage Windows Server on-premises, hybrid, and IaaS platform workloads
- Windows Server Hybrid Administrator Associate AZ-800 + AZ-801

Implement, manage, and monitor cloud solutions
- Azure Administrator Associate AZ-104

Deliver virtual desktop experiences and remove apps on Azure
- Azure Virtual Desktop Specialty AZ-140

Manage on-premises hyper-converged environments with Azure Stack HCI

See the complete Azure Training Journey
Azure training journey for developers

Master the basics

New to the cloud or new to Azure
- Azure Fundamentals
  - AZ-900

New to data solutions on Azure
- Azure Data Fundamentals
  - DP-900

New to AI or new to AI on Azure
- Azure AI Engineer Associate
  - AI-900

Grow in role

Start here

Design, build, test, and maintain cloud apps
- Azure Developer
  - AZ-204

 Develop cloud and edge IoT solutions
- Azure IoT Developer Specialty
  - AZ-220

Build, manage, and deploy AI solutions
- Azure AI Engineer Associate
  - AI-102

Deliver cloud-native apps that store and manage data
- Azure Cosmos DB Developer Specialty
  - DP-420

Migrate data to the cloud

Deliver continuous value integrating people, processes, and technologies
- DevOps Engineer Expert
  - AZ-400

Design and implement end-to-end cloud solutions
- Azure Solutions Architect Expert
  - AZ-305 [or AZ-303 + AZ-304]

See the complete Azure Training Journey
Azure training journey for data & AI pros

**Master the basics**

**New to the cloud or new to Azure**
- Azure Fundamentals AZ-900

**New to data solutions on Azure**
- Azure Data Fundamentals DP-900

**New to AI or new to AI on Azure**
- Azure AI Fundamentals AI-900

**Grow in role**

**Start here**

- **Manage relational cloud and hybrid databases**
  - Azure Database Administrator Associate DP-300

**Start here**

- **Deliver continuous value integrating people, processes, and technologies**
  - Azure Data Engineer Associate DP-203

**Start here**

- **Migrate data to the cloud**

**Start here**

- **Build, train, and deploy machine learning models**
  - Azure Data Science Associate DP-100

**Start here**

- **Get insights from data assets**
  - Data Analyst Associate DA-100

See the complete Azure Training Journey
Continue your **Azure** training journey

### IT Pros

- **Migrate apps and infrastructure to the cloud**
  - Migrating Application Workloads to Azure – Course WS-050T00
  - Manage Windows Server and hybrid cloud solutions
    - Windows Server 2019 Administration – Course WS-011T00
    - Windows Server 2019 Hybrid and Azure IaaS – Course WS-012T00
    - Azure Stack HCI – Course WS-013T00

- **Manage Linux on Azure**
  - Microsoft Learn learning paths

### Developers and Data & AI Pros

- **Migrate data to the cloud**
  - Migrate SQL workloads to Azure – Course DP-050T00
  - Migrate NoSQL workloads to Azure Cosmos DB – Course DP-060T00
  - Migrate Open Source Data Workloads to Azure – Course DP-070T00

Microsoft Learn learning paths
Microsoft Azure Virtual Training Days

Grow your skills in just days
Take advantage of free, in-depth, virtual training events, and start boosting your career potential right away. Grow your technical skills through weekly events for every skill level.

- Azure Fundamentals
- Azure Data Fundamentals
- Migrating On-Premises Infrastructure and Data
- Linux OSS Database Migration
- Deliver Integrated Analytics with Azure Synapse
- Azure AI Fundamentals
- DevOps with GitHub
- Modernize .NET Apps
- Implementing Hybrid Infrastructure

See the complete Azure Training Journey
Microsoft Azure certifications

### Role-based
Expand your technical skill set

<table>
<thead>
<tr>
<th>Associate</th>
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<tbody>
<tr>
<td>- Azure Administrator (AZ-104)</td>
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<tr>
<td>- Azure Security Engineer (AZ-500)</td>
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<tr>
<td>- Azure Stack Hub Operator (AZ-600)</td>
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<tr>
<td>- Azure Developer (AZ-204)</td>
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<tr>
<td>- Azure Database Administrator (DP-300)</td>
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<tr>
<td>- Azure Data Engineer (DP-203)</td>
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<tr>
<td>- Data Analyst (DA-100)</td>
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<td>- Azure AI Engineer (AI-102)</td>
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<tr>
<td>- Azure Data Scientist (DP-100)</td>
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<tr>
<td>- Azure Network Engineer (AZ-700)</td>
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<tr>
<td>- Windows Server Hybrid Administrator (AZ-800 + AZ-801)</td>
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<th>Expert</th>
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<tr>
<td>- Azure Solutions Architect (AZ-305)</td>
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<td>- DevOps Engineer (AZ-400)</td>
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### Specialty
Deepen your technical skills and manage industry solutions

<table>
<thead>
<tr>
<th>Specialty</th>
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<tr>
<td>- Azure for SAP Workloads (AZ-120)</td>
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<tr>
<td>- Azure Virtual Desktop (AZ-140)</td>
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<td>- Azure IoT Developer (AZ-220)</td>
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### Fundamentals
Master the basics

<table>
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<tr>
<td>- Azure Fundamentals (AZ-900)</td>
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<td>- Azure Data Fundamentals (DP-900)</td>
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<tr>
<td>- Azure AI Fundamentals (AI-900)</td>
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</table>
Who is this certification for?
Candidates for this certification should have foundational knowledge of cloud services and how those services are provided with Microsoft Azure.

Exam details

**AZ-900:** Microsoft Azure Fundamentals

**Skills measured:**
- Describe cloud concepts
- Describe core Azure services
- Describe security, privacy, compliance, and trust
- Describe Azure pricing Service Level Agreements and Lifecycles

**Knowledge and experience:**
A candidate for this exam should be able to demonstrate a fundamental knowledge of cloud concepts, as well as Azure services, workloads, security, privacy, pricing, and support. In addition, a candidate should be familiar with concepts of networking, storage, compute, application support, and application development.

Certification

Pass certification exam *AZ-900* to earn this certification

Microsoft Certified: Azure Fundamentals

Azure Fundamentals validates foundational knowledge of cloud services and how those services are provided with Microsoft Azure.

Products featured
- Microsoft Azure
The journey to Microsoft Certified: Azure Fundamentals

Get started at aka.ms/AzureCerts_Fundamentals

Start here
Decide if this is the right certification for you

Upskill with recommended training and experience

This certification is a good fit if:
• You are new to the cloud or new to Azure.
• You want to demonstrate a fundamental knowledge of cloud concepts, as well as Azure services, workloads, security, privacy, pricing, and support.

AND

Skills outline guides
• AZ-900

Self-paced online learning
Microsoft Learn

Instructor-led training
Course AZ-900T01: Microsoft Azure Fundamentals (1 Day)

OR

Course AZ-900T00: Microsoft Azure Fundamentals (2 Day)

Additional resources
• Microsoft Docs

Take a practice exam

Microsoft Official Practice Test AZ-900

Pass required exam to earn your certification

Exam AZ-900
Microsoft Azure Fundamentals

Microsoft Certified: Azure Fundamentals

Azure Fundamentals validates foundational knowledge of cloud services and how those services are provided with Microsoft Azure.

Watch the Azure certifications overview video
Learning path for Microsoft Certified: Azure Fundamentals

Azure Fundamentals validates foundational knowledge of cloud services and how those services are provided with Microsoft Azure. Explore recommended training resources that will help you prepare for required exams.

Get started at aka.ms/AzureCerts_Fundamentals

Instructor-led training

- **Microsoft Azure Fundamentals**
  - AZ-900T01 | 1 day
  - OR
  - AZ-900T00 | 2 days

Self-paced online training on Microsoft Learn

- **Describe core Azure concepts**
  - 3 modules
- **Describe core Azure services**
  - 5 modules
- **Describe core solutions and management tools on Azure**
  - 7 modules
- **Describe general security and network security features**
  - 3 modules
- **Describe identity, governance, privacy, and compliance features**
  - 4 modules
- **Describe Azure cost management and service level agreements**
  - 3 modules

Exam AZ-900

Microsoft Azure Fundamentals

Pass certification exam AZ-900 to earn this certification

Microsoft Certified: Azure Fundamentals

Find a Learning Partner

Watch the Azure certifications overview video
Who is this certification for?

Candidates for this certification should have foundational knowledge of core data concepts and how they are implemented using Microsoft Azure data services.

Exam details

**DP-900:**
Microsoft Azure Data Fundamentals

**Skills measured:**
- Describe core data concepts
- Describe how to work with relational data on Azure
- Describe how to work with non-relational data on Azure
- Describe an analytics workload on Azure

**Knowledge and experience:**
A candidate for this exam should be familiar with the concepts of relational and non-relational data, and different types of data workloads, such as transactional or analytical.

Certification

Pass certification exam DP-900 to earn this certification

Microsoft Certified:
**Azure Data Fundamentals**

Azure Data Fundamentals validates foundational knowledge of core data concepts and how they are implemented using Microsoft Azure data services.

Products featured
- Microsoft Azure
- Microsoft SQL Server

Get started at aka.ms/AzureCerts_DataFundamentals
The journey to Microsoft Certified:

**Azure Data Fundamentals**

Start here
Decide if this is the right certification for you

Upskill with recommended training and experience

Pass required exam to earn your certification

This certification is a good fit if:
- You are beginning to work with data in the cloud.
- You want to demonstrate your knowledge of core data concepts like relational and non-relational data, types of data workloads, like transactional or analytical, and how they are implemented using Azure data services.

Skills outline guides
- DP-900
- Self-paced online learning
  - Microsoft Learn
- Instructor-led training
  - Course DP-900T00: Microsoft Azure Data Fundamentals

Exam DP-900
Microsoft Azure Data Fundamentals

Take a practice exam
Microsoft Official Practice Test DP-900

Additional resources
- Microsoft Docs

Brand new? First, master the basics.

New to the cloud or Azure?
Choose Azure Fundamentals training.

Get started at
aka.ms/AzureCerts_DataFundamentals

Microsoft Certified: Azure Data Fundamentals

Azure Data Fundamentals validates foundational knowledge of core data concepts and how they are implemented using Microsoft Azure data services.

Watch the Azure certifications overview video
Learning path for Microsoft Certified: Azure Data Fundamentals

Azure Data Fundamentals validates foundational knowledge of core data concepts and how they are implemented using Microsoft Azure data services. Explore recommended training resources that will help you prepare for required exams.

Instructor-led training

**Microsoft Azure Data Fundamentals**
DP-900T00 | 1 day

- **Explore core data concepts**
  - 5 modules

- **Explore relational data in Azure**
  - 3 modules

- **Explore non-relational data in Azure**
  - 3 modules

- **Explore modern data warehouse analytics in Azure**
  - 4 modules

Self-paced online training on Microsoft Learn

**Exam DP-900**
Microsoft Azure Data Fundamentals

Pass certification exam DP-900 to earn this certification

Microsoft Certified: Azure Data Fundamentals

Get started at aka.ms/AzureCerts_DataFundamentals

Find a Learning Partner
Watch the Azure certifications overview video
Overview of Microsoft Certified: Azure AI Fundamentals

Who is this certification for?
Candidates for this certification should have foundational knowledge of machine learning and AI concepts and related Microsoft Azure services. This certification is intended for candidates with both technical and non-technical backgrounds. Data science and software engineering experience are not required; however, some general programming knowledge or experience would be beneficial.

Exam details

AI-900: Microsoft Azure AI Fundamentals

Skills measured:
• Describe AI workloads and considerations
• Describe fundamental principles of machine learning on Azure
• Describe features of computer vision workloads on Azure
• Describe features of natural language processing (NLP) workloads on Azure
• Describe features of conversational AI workloads on Azure

Knowledge and experience:
A candidate for this exam should have knowledge of common machine learning and AI workloads and how to implement them on Azure.

Certification

Pass certification exam AI-900 to earn this certification

Microsoft Certified: Azure AI Fundamentals
Azures AI Fundamentals validates foundational knowledge of machine learning and AI concepts and related Microsoft Azure services.

Products featured
• Microsoft Azure

Get started at aka.ms/AzureCerts_AIFundamentals

Watch the Azure certifications overview video
The journey to Microsoft Certified:

**Azure AI Fundamentals**

Get started at [aka.ms/AzureCerts_AIFundamentals](https://aka.ms/AzureCerts_AIFundamentals)

Start here
Decide if this is the right certification for you

This certification is a good fit if:

- You are new to AI or AI on Azure.
- You want to demonstrate your knowledge of common machine learning and AI workloads and how to implement them on Azure.

Upskill with recommended training and experience

Skills outline guide

- AI-900

- [Self-paced online learning](https://learn.microsoft.com/en-us/training/courses/microsoft-azure-ai-fundamentals)

- [Instructor-led training](https://learn.microsoft.com/en-us/training/courses/microsoft-azure-ai-fundamentals)

Additional resources

- [Microsoft Docs](https://docs.microsoft.com)

Pass required exam to earn your certification

Exam AI-900
Microsoft Azure AI Fundamentals

Take a practice exam
Microsoft Official Practice Test AI-900

Microsoft Certified: Azure AI Fundamentals

Azure AI Fundamentals validates foundational knowledge of machine learning and AI concepts and related Microsoft Azure services.

Brand new? First, master the basics.

New to the cloud or Azure?
Choose Azure Fundamentals training.

Watch the Azure certifications overview video

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Learning path for Microsoft Certified:

**Azure AI Fundamentals**

Azure AI Fundamentals validates foundational knowledge of machine learning and AI concepts and related Microsoft Azure services. Explore recommended training resources that will help you prepare for required exams.

**Instructor-led training**

- **Azure AI Fundamentals**
  - AI-900T00 | 1 day

**Self-paced online training on Microsoft Learn**

- **Get started with artificial intelligence on Azure**
  - 1 module

- **Create no-code predictive models with Azure Machine Learning**
  - 4 modules

- **Explore computer vision in Microsoft Azure**
  - 6 modules

- **Explore conversational AI**
  - 1 module

- **Explore natural language processing**
  - 4 modules

**Exam AI-900**
- Microsoft Azure AI Fundamentals
- Pass certification exam AI-900 to earn this certification
- Microsoft Certified: Azure AI Fundamentals

Get started at [aka.ms/AzureCerts_AIFundamentals](aka.ms/AzureCerts_AIFundamentals)
Overview of Microsoft Certified: Azure Administrator Associate

Get started at aka.ms/AzureCerts_Admin

Who is this certification for?

Candidates for this certification should have subject matter expertise implementing, managing, and monitoring an organization’s Microsoft Azure environment.

Responsibilities for this role include implementing, managing, and monitoring identity, governance, storage, compute, and virtual networks in a cloud environment, plus provision, size, monitor, and adjust resources, when needed.

Exam details

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

Knowledge and experience:
A candidate for this exam should have at least six months of hands-on experience administering Azure, along with a strong understanding of core Azure services, Azure workloads, security, and governance. In addition, this role should have experience using PowerShell, Azure CLI, Azure portal, and Azure Resource Manager templates.

Certification

Pass certification exam AZ-104 to earn this certification

Microsoft Certified: Azure Administrator Associate

Azure Administrators implement, manage, and monitor an organization’s Microsoft Azure environment.

Products featured
- Microsoft Azure

Watch the Azure certifications overview video
The journey to Microsoft Certified: Azure Administrator Associate

Start here
Decide if this is the right certification for you

This certification is a good fit if your responsibilities include:
- Implementing, managing, and monitoring identity, governance, storage, compute, and virtual networks in a cloud environment.
- Provisioning, sizing, monitoring, and adjusting resources when needed.

OR
If you already have or were working toward any of these certifications:
- MCSE: Core Infrastructure
- MCSA: Windows Server 2012
- MCSA: Windows Server 2016

Upskill with recommended training and experience

Brand new? First, master the basics.
New to the cloud or Azure?
Choose Azure Fundamentals training.

New to administering Azure?
Choose Prerequisites for Azure administrators.

Self-paced online learning
Microsoft Learn

Instructor-led training
Course AZ-104T00: Microsoft Azure Administrator

Additional resources
- Microsoft Docs
- Azure Architecture Center
- Microsoft Azure Well-Architected Framework

Take a practice exam

Skills outline guide
- AZ-104

• Microsoft Official Practice Test AZ-104

Exam AZ-104
Microsoft Azure Administrator

Pass required exam to earn your certification

Microsoft Certified: Azure Administrator Associate

Azure Administrators implement, manage, and monitor an organization’s Microsoft Azure environment.

Explore these resources next

Self-paced online learning
- Migrate application workloads and data to Azure
- Automate your deployments with Azure DevOps

Instructor-led training
- Course WS-050T00: Migrating Application Workloads to Azure
- Course WS-011T00: Windows Server 2019 Administration
- Course WS-012T00: Windows Server 2019 Hybrid and Azure IaaS
- Course WS-013T00: Azure Stack HCI

Continue to grow

Watch the Azure certifications overview video
Learning path for Microsoft Certified: Azure Administrator Associate

Azure Administrators implement, manage, and monitor an organization’s Microsoft Azure environment. Explore recommended training resources that will help you prepare for required exams.

### Instructor-led training
- **Microsoft Azure Administrator**
  - AZ-104T00 | 4 days
  - OR
  - Azure Administration for AWS SysOps
  - AZ-010T00 | 2 days

### Self-paced online training on Microsoft Learn
- **Prerequisites for Azure administrators**
  - 9 modules
- **Implement and manage storage for Azure administrators**
  - 10 modules
- **Implement and manage virtual networks for Azure administrators**
  - 16 modules
- **Deploy and manage compute resources for Azure administrators**
  - 14 modules
- **Manage identities and governance for Azure administrators**
  - 14 modules
- **Monitor and back up resources for Azure administrators**
  - 9 modules

**Exam AZ-104**
- Microsoft Azure Administrator
- Pass certification exam AZ-104 to earn this certification
  - Microsoft Certified: Azure Administrator Associate

Get started at aka.ms/AzureCerts_Admin
Who is this certification for?

Candidates for this certification should have subject matter expertise implementing security controls and threat protection, managing identity and access, and protecting data, applications, and networks in cloud and hybrid environments as part of an end-to-end infrastructure.

Responsibilities for this role include maintaining the security posture, identifying and remediating vulnerabilities by using a variety of security tools, implementing threat protection, and responding to security incident escalations.

Exam details

**AZ-500:**
Microsoft Azure Security Technologies

**Skills measured:**
- Manage identity and access
- Implement platform protection
- Manage security operations
- Secure data and applications

**Knowledge and experience:**

A candidate for this exam should have strong skills in scripting and automation; a deep understanding of networking, virtualization, and cloud N-tier architecture; and a strong familiarity with cloud capabilities and products and services for Azure, plus other Microsoft products and services.

Certification

Pass certification exam **AZ-500** to earn this certification

Products featured

- Microsoft Azure

Microsoft Certified: Azure Security Engineer Associate

Azure Security Engineers implement security controls and threat protection, manage identity and access, and protect data, applications, and networks in cloud and hybrid environments as part of an end-to-end infrastructure.

Watch the Azure certifications overview video
The journey to Microsoft Certified:

**Azure Security Engineer Associate**

Get started at
[aka.ms/AzureCerts_SecurityEngineer](aka.ms/AzureCerts_SecurityEngineer)

**Start here**

Decide if this is the right certification for you

**Upskill with recommended training and experience**

Pass required exam to earn your certification

**Take a practice exam**

**Pass required exam to earn your certification**

**Exam AZ-500**

Microsoft Azure Security Technologies

**Skills outline guide**

- **AZ-500**

**Self-paced online learning**

Microsoft Learn

**Instructor-led training**

Course AZ-500T00: Microsoft Azure Security Technologies

**Additional resources**

- Microsoft Docs
- Azure Architecture Center

**First, make sure your skills are up to date.**

Need to update your skills in Azure administration?

Azure Administrator training on Microsoft Learn.

Microsoft Certified: Azure Security Engineer Associate

Azure Security Engineers implement security controls and threat protection, manage identity and access, and protect data, applications, and networks in cloud and hybrid environments as part of an end-to-end infrastructure.

**Explore this resource next**

- Microsoft Azure Well-Architected Framework

**Watch the Azure certifications overview video**

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Learning path for Microsoft Certified: Azure Security Engineer Associate

Get started at aka.ms/AzureCerts_SecurityEngineer

Azure Security Engineers implement security controls and threat protection, manage identity and access, and protect data, applications, and networks in cloud and hybrid environments as part of an end-to-end infrastructure. Explore recommended training resources that will help you prepare for required exams.

Instructor-led training

**Microsoft Azure Security Technologies**
AZ-500T00 | 5 days

Self-paced online training on Microsoft Learn

**Manage Identity and Access**
5 modules

**Implement platform protection**
4 modules

**Secure your data and applications**
4 modules

Exam AZ-500
Microsoft Azure Security Technologies

Pass certification exam AZ-500 to earn this certification

Microsoft Certified: Azure Security Engineer Associate

Find a Learning Partner
Watch the Azure certifications overview video
Who is this certification for?

Candidates for this certification are Azure administrators or Azure Stack Hub operators who provide cloud services to end users or customers from within their own datacenter using Azure Stack Hub. Responsibilities include planning, deploying, packaging, updating, and maintaining the Azure Stack Hub infrastructure. They also offer hybrid cloud resources and requested services and manage infrastructure as a service (IaaS) and platform as a service (PaaS).

Exam details

**AZ-600:**
Configuring and Operating a Hybrid Cloud with Microsoft Azure Stack Hub

Skills measured:
- Provide services
- Implement data center integration
- Manage identity and access
- Manage infrastructure

Knowledge and experience:
A candidate for this exam should have significant experience managing and operating Azure Stack Hub environments. They should have a strong understanding of Azure, in addition to some knowledge of virtualization, networking, and identity management. They need to understand how Azure Stack Hub enables DevOps processes and the hybrid development model.

Certification

Pass certification exam **AZ-600** to earn this certification

Microsoft Certified: Azure Stack Hub Operator Associate

Azure Stack Hub operators provide cloud services to their end users or customers from within their own datacenter using Azure Stack Hub.

Products featured
- Microsoft Azure

Get started at aka.ms/AzureCerts_StackHubOperator
The journey to Microsoft Certified:

**Azure Stack Hub Operator Associate**

**Start here**
Decide if this is the right certification for you

**Upskill with recommended training and experience**

This certification is a good fit if your responsibilities include:

- Plan, deploy, package, update, and maintain the Azure Stack Hub infrastructure.
- Offer hybrid cloud resources and requested services and manage infrastructure as a service (IaaS) and platform as a service (PaaS).

**Skills outline guide**

- **Exam AZ-600**
  - **Self-paced online learning**
    Microsoft Learn
  - **Instructor-led training**
    Course AZ-600T00: Configuring and Operating a Hybrid Cloud with Microsoft Azure Stack Hub

**Additional resources**

- Microsoft Docs

**Pass required exam to earn your certification**

Exam **AZ-600**
Configuring and Operating a Hybrid Cloud with Microsoft Azure Stack Hub

**Microsoft Certified: Azure Stack Hub Operator Associate**
Azure Stack Hub operators provide cloud services to their end users or customers from within their own datacenter using Azure Stack Hub.

First, make sure your skills are up to date.

Need to update your skills in Azure administration?
Azure Administrator training on Microsoft Learn.

Get started at
[aka.ms/AzureCerts_StackHubOperator](aka.ms/AzureCerts_StackHubOperator)
Learning path for Microsoft Certified: Azure Stack Hub Operator Associate

Get started at aka.ms/AzureCerts_StackHubOperator

Azure Stack Hub operators provide cloud services to their end users or customers from within their own datacenter using Azure Stack Hub.

### Instructor-led Training
- **Configuring and Operating a Hybrid Cloud with Microsoft Azure Stack Hub**
  - AZ-600T00 | 4 days

### Self-paced online training on Microsoft Learn
- **Overview of Azure Stack Hub**
  - 3 modules

- **Provide services for Azure Stack Hub**
  - 5 modules

- **Implement Data Center Integration for Azure Stack Hub**
  - 3 modules

- **Manage Identity and Access for Azure Stack Hub**
  - 2 modules

- **Manage Infrastructure for Azure Stack Hub**
  - 6 modules

**Exam AZ-600**
- Configuring and Operating a Hybrid Cloud with Microsoft Azure Stack Hub

Pass certification exam AZ-600 to earn this certification

Microsoft Certified: Azure Stack Hub Operator Associate

Find a Learning Partner

Watch the Azure certifications overview video
Overview of Microsoft Certified: Azure Network Engineer Associate

Who is this certification for?

Candidates for this certification plan, implement, and maintain Azure networking solutions, including hybrid networking, connectivity, routing, security, and private access to Azure services.

Responsibilities for this role include managing networking solutions for performance, resiliency, scale, and security. They deploy networking solutions by using the Azure Portal and other methods, including PowerShell, Azure Command-Line Interface (CLI), and Azure Resource Manager templates (ARM templates).

Exam details

AZ-700: Designing and Implementing Microsoft Azure Networking Solutions

Skills measured:
- Design, implement, and manage hybrid networking
- Design and implement core networking infrastructure
- Design and implement routing
- Secure and monitor networks
- Design and implement private access to Azure services

Knowledge and experience:
Candidates for this exam should have expert Azure administration skills, in addition to extensive experience and knowledge of networking, hybrid connections, and network security.

Certification

Pass certification exam AZ-700 to earn this certification

Microsoft Certified: Azure Network Engineer Associate

Azure Network Engineers plan, implement, and maintain Azure networking solutions.

Products featured
- Microsoft Azure

Watch the Azure certifications overview video
The journey to Microsoft Certified:

**Azure Network Engineer Associate**

**Start here**
Decide if this is the right certification for you

**Upskill with recommended training and experience**

**This certification is a good fit if your responsibilities include:**
- Managing networking solutions for performance, resiliency, scale, and security.
- Deploying networking solutions by using the Azure Portal and other methods, including PowerShell, Azure Command-Line Interface (CLI), and Azure Resource Manager templates (ARM templates).

**Skills outline guide**

- **AZ-700**

**Self-paced online learning**
Microsoft Learn

**Instructor-led training**
Course AZ-700T00: Designing and Implementing Microsoft Azure Networking Solutions

**Additional resources**
- Microsoft Docs
- Azure Architecture Center

**Pass required exam to earn your certification**

**Exam AZ-700**
Designing and Implementing Microsoft Azure Networking Solutions

**Pass required exam to earn your certification**

**Exam AZ-700**
Designing and Implementing Microsoft Azure Networking Solutions

**Microsoft Certified: Azure Network Engineer Associate**

Azure Network Engineers plan, implement, and maintain Azure networking solutions.

**Continue to grow**

**Explore this resource next**
- Microsoft Azure Well-Architected Framework

**First, make sure your skills are up to date.**

Need to update your skills in Azure administration?

Azure Administrator training on Microsoft Learn.
Learning path for Microsoft Certified:
Azure Network Engineer Associate

Azure Network Engineers plan, implement, and maintain Azure networking solutions. Explore recommended training resources that will help you prepare for required exams.

Instructor-led training
Designing and Implementing Microsoft Azure Networking Solutions
AZ-700T00 | 3 days

Self-paced online training on Microsoft Learn
Designing and Implementing Microsoft Azure Networking Solutions
8 modules

Exam AZ-700
Designing and Implementing Microsoft Azure Networking Solutions

Pass certification Exam AZ-700 to earn this certification
Microsoft Certified: Azure Network Engineer Associate

Get started at aka.ms/AzureCerts_NetworkEngineer

Find a Learning Partner
Watch the Azure certifications overview video
Overview of Microsoft Certified: Windows Server Hybrid Administrator Associate

Get started at aka.ms/AzureCerts_WindowsServer

Who is this certification for?
Candidates for this certification should have subject matter expertise in configuring and managing Windows Server on-premises, hybrid, and infrastructure as a service (IaaS) platform workloads. They should have extensive experience working with Windows Server operating systems. Responsibilities include integrating Windows Server environments with Azure services and managing Windows Server in on-premises networks.

Exam details

AZ-800: Administering Windows Server Hybrid Core Infrastructure
Skills measured:
- Deploy and manage Active Directory Domain Services (AD DS) in on-premises and cloud environments
- Manage Windows Servers and workloads in a hybrid environment
- Manage virtual machines and containers
- Implement and manage an on-premises and hybrid networking infrastructure
- Manage storage and file services

Knowledge and experience:
A candidate for this exam administers core Windows Server workloads using on-premises, hybrid, and cloud technologies. They should have expertise in implementing and managing on-premises and hybrid solutions, such as identity, management, compute, networking, and storage.

AZ-801: Configuring Windows Server Hybrid Advanced Services
Skills measured:
- Secure Windows Server on-premises and hybrid infrastructures
- Implement and manage Windows Server high availability
- Implement disaster recovery
- Migrate servers and workloads
- Monitor and troubleshoot Windows Server environments

Knowledge and experience:
A candidate for this exam configures advanced Windows Server services using on-premises, hybrid, and cloud technologies. They should have expertise in performing tasks related to security, migration, monitoring, high availability, troubleshooting, and disaster recovery.

Certification
Pass certification exams AZ-800 and AZ-801 to earn this certification

Products featured
- Windows Server
- Microsoft Azure

Microsoft Certified: Windows Server Hybrid Administrator Associate
Windows Server Hybrid Administrators configure and manage Windows Server on-premises, hybrid, and infrastructure as a service (IaaS) platform workloads.

Watch the Azure certifications overview video
The journey to Microsoft Certified:
Windows Server Hybrid Administrator Associate

Start here
Decide if this is the right certification for you

Upskill with recommended training and experience

Pass required exams to earn your certification

This certification is a good fit if your responsibilities include:
- Integrating Windows Server environments with Azure services and managing Windows Server in on-premises networks.
- Managing and maintaining Windows Server IaaS workloads in Azure, in addition to migrating and deploying workloads to Azure.
- Administering core and advanced Windows Server workloads and services using on-premises, hybrid, and cloud technologies.

If you already have or were working toward any of these certifications:
- MCSE: Core Infrastructure
- MCSA: Windows Server 2012
- MCSA: Windows Server 2016

Skills outline guide
- AZ-800
- AZ-801

Self-paced online learning
Microsoft Learn

Instructor-led training
Course AZ-800T00 Administering Windows Server Hybrid Core Infrastructure
Course AZ-801T00 Configuring Windows Server Hybrid Advanced Services

Additional resources
- Microsoft Docs

AZ-800: Administering Windows Server Hybrid Core Infrastructure
AZ-801: Configuring Windows Server Hybrid Advanced Services

Microsoft Certified: Windows Server Hybrid Administrator Associate

Windows Server Hybrid Administrators configure and manage Windows Server on-premises, hybrid, and infrastructure as a service (IaaS) platform workloads.

Get started at aka.ms/AzureCerts_WindowsServer

Watch the Azure certifications overview video
Windows Server Hybrid Administrators configure and manage Windows Server on-premises, hybrid, and infrastructure as a service (IaaS) platform workloads.

**Instructor-led Training**
- Administering Windows Server Hybrid Core Infrastructure
  - Exam AZ-800
  - Deploy and manage identity infrastructure: 6 modules
  - Manage Windows Servers and workloads in a hybrid environment: 6 modules
  - Manage virtualization and containers in a hybrid environment: 8 modules
  - Implement and operate an on-premises and hybrid networking infrastructure: 7 modules
  - Configure storage and file services: 6 modules
- Secure Windows Server on-premises and hybrid infrastructures: 10 modules
- Implement Windows Server high availability: 5 modules
- Implement disaster recovery in Windows Server on-premises and hybrid environments: 5 modules
- Migrate servers and workloads in on-premises and hybrid environments: 6 modules
- Monitor and troubleshoot Windows Server environments: 9 modules

**Self-paced online training on Microsoft Learn**
- Secure Windows Server on-premises and hybrid infrastructures: 10 modules
- Implement Windows Server high availability: 5 modules
- Implement disaster recovery in Windows Server on-premises and hybrid environments: 5 modules
- Migrate servers and workloads in on-premises and hybrid environments: 6 modules
- Monitor and troubleshoot Windows Server environments: 9 modules

**Exam AZ-800**
- Administering Windows Server Hybrid Core Infrastructure

**Exam AZ-801**
- Configuring Windows Server Hybrid Advanced Services

Pass certification exams AZ-800 and AZ-801 to earn this certification:
- Microsoft Certified: Windows Server Hybrid Administrator Associate

Get started at [aka.ms/AzureCerts_WindowsServer]
Who is this certification for?

Candidates for this certification should have subject matter expertise in designing and implementing solutions that run on Microsoft Azure, including aspects like compute, network, storage, and security.

Responsibilities for this role include advising stakeholders and translating business requirements into secure, scalable, and reliable cloud solutions.

Prerequisite

Certification
• Azure Administrator Associate

Exam details

AZ-305: Designing Microsoft Azure Infrastructure Solutions (beta)

Skills measured:
• Design identity, governance, and monitoring solutions
• Design data storage solutions
• Design business continuity solutions
• Design infrastructure solutions

Knowledge and experience:

A candidate for this exam should have expertise implementing strategies for collaboration, code, infrastructure, source control, security, compliance, continuous integration, testing, delivery, monitoring, and feedback. Additionally, a candidate must be familiar with both Azure administration and development and must be expert in at least one of these areas.

Certification

Pass certification exam AZ-305 to earn this certification

Products featured
• Microsoft Azure

Microsoft Certified: Azure Solutions Architect Expert

Azure Solutions Architects design and implement solutions that run on Microsoft Azure, including aspects like compute, network, storage, and security.

Watch the Azure certifications overview video
The journey to Microsoft Certified:

**Azure Solutions Architect Expert**

Get started at [aka.ms/AzureCerts_SolutionsArchitect]

### Start here

Decide if this is the right certification for you

### Earn one prerequisite certification

**Azure Administrator Associate**

This certification is a good fit if your responsibilities include:

- Advising stakeholders and translating business requirements into secure, scalable, and reliable cloud solutions.

### Upskill with recommended training and experience

**Skills outline guide**

- **AZ-305**

**Exam AZ-305**

- Designing Microsoft Azure Infrastructure Solutions (beta)

**Self-paced online learning**

Microsoft Learn

**Instructor-led training**

Course AZ-305T00 Designing Microsoft Azure Infrastructure Solutions

### Pass required exams to earn your certification

### Continue to grow

### Explore these resources next

- Microsoft Azure Well-Architected Framework
- Microsoft Cloud Adoption Framework for Azure

- **Microsoft Certified: Azure Solutions Architect Expert**

Azure Solutions Architects design and implement solutions that run on Microsoft Azure, including aspects like compute, network, storage, and security.

### Additional resources

- Microsoft Docs
- Azure Architecture Center

Watch the Azure certifications overview video
Learning path for Microsoft Certified: Azure Solutions Architect Expert

Azure Solutions Architects design and implement solutions that run on Microsoft Azure, including aspects like compute, network, storage, and security. Explore recommended training resources that will help you prepare for required exams.

Instructor-led training

Designing Microsoft Azure Infrastructure Solutions

Exam AZ-305
Designing Microsoft Azure Infrastructure Solutions (beta)

Self-paced online training on Microsoft Learn

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

*As a prerequisite for this certification, earn the Azure Administrator Associate certification

Get started at aka.ms/AzureCerts_SolutionsArchitect

Pass certification exams AZ-305 to earn this certification*

Microsoft Certified: Azure Solutions Architect Expert
Who is this certification for?

Candidates for this certification should be architects or engineers with extensive experience and knowledge of the SAP system landscape and industry standards that are specific to the initial migration or integration and the long-term operation of an SAP solution on Microsoft Azure.

Responsibilities for this role include making recommendations on services and adjusting resources as appropriate for optimal resiliency, performance, scale, provision, size, and monitoring.

Exam details

**AZ-120:** Planning and Administering Microsoft Azure for SAP Workloads

Skills measured:
- Migrate SAP Workloads to Azure
- Design an Azure Solution to Support SAP Workloads
- Build and Deploy Azure for SAP Workloads
- Validate Azure Infrastructure for SAP Workloads
- Operationalize Azure SAP Architecture

Knowledge and experience:
A candidate for this exam should have extensive experience and knowledge of SAP applications: SAP HANA, S/4HANA, SAP NetWeaver, SAP BW/4HANA, OS servers for SAP applications and databases, Azure portal, Azure Resource Manager templates, operating systems, virtualization, cloud infrastructure, storage structures, high availability design, disaster recovery design, data protection concepts, and networking.

Certification

Pass certification exam **AZ-120** to earn this certification

Microsoft Certified: Azure for SAP Workloads Specialty

Architects or engineers for Azure for SAP Workloads have extensive experience and knowledge of the SAP system landscape and industry standards that are specific to the long-term operation of an SAP solution on Microsoft Azure.

Products featured

- Microsoft Azure

Watch the Azure certifications overview video
The journey to Microsoft Certified:
Azure for SAP Workloads Specialty

Get started at aka.ms/AzureCerts_SAPWorkloads

Skills outline guide
- AZ-120

- Self-paced online learning
  Microsoft Learn

- Instructor-led training
  Course AZ-120T00: Planning and Administering Microsoft Azure for SAP Workloads

Additional resources
- Microsoft Docs
- Azure Architecture Center

Pass required exam to earn your certification

Exam AZ-120
Planning and Administering Microsoft Azure for SAP Workloads

This certification is a good fit if your responsibilities include:
- Making recommendations on services and adjusting resources as appropriate for optimal resiliency, performance, scale, provision, size, and monitoring of Azure for SAP Workloads.

First, make sure your skills are up to date.

Need to update your skills in Azure administration?
Choose Azure Administrator training on Microsoft Learn.

Need to update your skills in Azure architecture?
Choose Azure Solutions Architect training on Microsoft Learn.

Microsoft Certified: Azure for SAP Workloads Specialty
Architects or engineers for Azure for SAP Workloads have extensive experience and knowledge of the SAP system landscape and industry standards that are specific to the long-term operation of an SAP solution on Microsoft Azure.

Watch the Azure certifications overview video
Learning path for Microsoft Certified:

**Azure for SAP Workloads Specialty**

Architects or engineers for Azure for SAP Workloads have extensive experience and knowledge of the SAP system landscape and industry standards that are specific to the long-term operation of an SAP solution on Microsoft Azure. Explore recommended training resources that will help you prepare for required exams.

**Instructor-led training**

- **Planning and Administering Microsoft Azure for SAP Workloads**
  - AZ-120T00 | 4 days

**Self-paced online training on Microsoft Learn**

- Explore Azure for SAP workloads
  - 5 modules
- Explore the foundations of identity and governance for SAP on Azure
  - 3 modules
- Ensure business continuity and implement disaster recovery for SAP solutions on Azure
  - 3 modules
- Monitor and troubleshoot Azure for SAP workloads
  - 3 modules
- Deploy SAP on Azure
  - 2 modules
- Migrate SAP workloads to Azure
  - 3 modules
- Explore SAP HANA on Azure (Large Instances)
  - 9 modules

**Exam AZ-120**

Planning and Administering Microsoft Azure for SAP Workloads

- Pass certification exam AZ-120 to earn this certification
- Microsoft Certified: Azure for SAP Workloads Specialty

Get started at [aka.ms/AzureCerts_SAPWorkloads](aka.ms/AzureCerts_SAPWorkloads)

Find a Learning Partner

Watch the Azure certifications overview video
Who is this certification for?

Candidates for the Azure Virtual Desktop Specialty certification are administrators with subject matter expertise in planning, delivering, and managing virtual desktop experiences and remote apps, for any device, on Azure.

Responsibilities for this role include deploying virtual desktop experiences and apps to Azure. These professionals deliver applications on Azure Virtual Desktop and optimize them to run in multi-session virtual environments. To deliver these experiences, they work closely with Azure administrators and architects, along with Microsoft 365 administrators.

Exam details

AZ-140: Configuring and Operating Microsoft Azure Virtual Desktop

Skills measured:
- Plan an Azure Virtual Desktop architecture
- Implement an Azure Virtual Desktop infrastructure
- Manage access and security
- Manage user environments and apps
- Monitor and maintain an Azure Virtual Desktop infrastructure

Knowledge and experience:
Candidates for this certification should have experience in Azure technologies, including virtualization, networking, identity, storage, backups, resilience, and disaster recovery. They should understand on-premises virtual desktop infrastructure technologies as they relate to migrating to Azure Virtual Desktop. These professionals use the Azure portal and Azure Resource Manager templates to accomplish many of their tasks. They might use PowerShell and Azure CLI for more efficient automation.

Certification

Pass certification exam AZ-140 to earn this certification

Microsoft Certified: Azure Virtual Desktop Specialty

Administrators for Azure Virtual Desktop plan, deliver, and manage virtual desktop experiences and remote apps, for any device, on Azure.

Products featured
- Microsoft Azure

Watch the Azure certifications overview video
The journey to Microsoft Certified: 

Azure Virtual Desktop Specialty

Start here
Decide if this is the right certification for you

This certification is a good fit if your responsibilities include:
• Deploying virtual desktop experiences and apps to Azure.
• Delivering applications on Azure Virtual Desktop and optimizing them to run in multi-session virtual environments.

Upskill with recommended training and experience

Skills outline guide
• AZ-140

Exam AZ-140
Configuring and Operating Microsoft Azure Virtual Desktop

Pass required exam to earn your certification

First, make sure your skills are up to date.

Need to update your skills in Azure administration?
Azure Administrator training on Microsoft Learn.

Additional resources
• Microsoft Docs
Professionals in this role plan, deliver, and manage virtual desktop experiences and remote apps, for any device, on Azure. Explore recommended training resources that will help you prepare for required exams.

Instructor-led training
- **Configuring and Operating Microsoft Azure Virtual Desktop**
  - AZ-140T00 | 4 days

Self-paced online training on Microsoft Learn:
- Plan an Azure Virtual Desktop implementation: 3 modules
- Implement an Azure Virtual Desktop infrastructure: 4 modules
- Manage access and security for Azure Virtual Desktop: 2 modules
- Manage user environments and apps for Azure Virtual Desktop: 3 modules
- Monitor and maintain an Azure Virtual Desktop infrastructure: 3 modules

**Exam AZ-140**
- Configuring and Operating Microsoft Azure Virtual Desktop
- Pass certification Exam AZ-140 to earn this certification
  - Microsoft Certified: Azure Virtual Desktop Specialty

Get started at [aka.ms/AzureCerts_VirtualDesktop]
Who is this certification for?

Candidates for this certification should have subject matter expertise designing, building, testing, and maintaining cloud applications and services on Microsoft Azure.

Responsibilities for this role include participating in all phases of cloud development, from requirements definition and design to development, deployment, maintenance, performance tuning, and monitoring.

Exam details

**AZ-204:**
Developing Solutions for Microsoft Azure

**Skills measured:**
• Develop Azure compute solutions
• Develop for Azure storage
• Implement Azure security
• Monitor, troubleshoot, and optimize Azure solutions
• Connect to and consume Azure services and third-party services

**Knowledge and experience:**
A candidate for this exam should have one to two years of professional development experience and experience with Microsoft Azure. In addition, they should have the ability to program in a language supported by Azure, plus proficiency in Azure SDKs, Azure PowerShell, and Azure CLI. They should also be proficient in data storage options, data connections, APIs, app authentication and authorization, compute and container deployment, debugging, performance tuning, and monitoring.

Certification

Pass certification exam **AZ-204** to earn this certification

Microsoft Certified: **Azure Developer Associate**

Azure Developers design, build, test, and maintain cloud applications and services.

Products featured

• Microsoft Azure
The journey to Microsoft Certified:

**Azure Developer Associate**

Get started at [aka.ms/AzureCerts_Developer](https://aka.ms/AzureCerts_Developer)

Start here

- Decide if this is the right certification for you

Upskill with recommended training and experience

- Take a practice exam

Pass required exam to earn your certification

- Exam AZ-204
  - Developing Solutions for Microsoft Azure

Continue to grow

- Explore these resources next
  - Build intelligent apps
  - Build Azure IoT solutions
  - Build applications with Azure DevOps

This certification is a good fit if your responsibilities include:

- Participating in all phases of cloud development: requirements definition and design, development, deployment, maintenance, performance tuning, and monitoring.

OR

If you already have or are working toward any of these certifications:

- MCSD: App Builder
- MCSA: Web Applications
- MCSA: Universal Windows Platform

Brand new? First, master the basics.

**New to the cloud or Azure?**

Choose Azure Fundamentals training.

Skills outline guide

- AZ-204

Self-paced online learning

- Microsoft Learn

Instructor-led training

- Course AZ-204T00: Developing Solutions for Microsoft Azure

OR

- Course AZ-020T00: Microsoft Azure Solutions for AWS Developers

Additional resources

- Microsoft Docs
- Azure Developer Guide
- Azure Architecture Center

Microsoft Certified: Azure Developer Associate

Azure Developers design, build, test, and maintain cloud applications and services.

Watch the Azure certifications overview video
Learning path for Microsoft Certified:

Azure Developer Associate

Azure Developers design, build, test, and maintain cloud applications and services. Explore recommended training resources that will help you prepare for required exams.

Get started at aka.ms/AzureCerts_Developer

Instructor-led training

- Developing solutions for Microsoft Azure
  - AZ-204T00 | 5 days

- OR

- Microsoft Azure solutions for AWS Developers
  - AZ-020T00 | 3 days

Self-paced online training on Microsoft Learn

- Create serverless applications
  - 10 modules

- Store data in Azure
  - 5 modules

- Manage resources in Azure
  - 6 modules

- Secure your cloud data in Azure
  - 7 modules

Connect your services together
- 4 modules

Deploy a website with Azure virtual machines
- 4 modules

Deploy a website to Azure with Azure App Service
- 6 modules

Exam AZ-204
- Developing Solutions for Microsoft Azure

Pass certification exam AZ-204 to earn this certification

Microsoft Certified: Azure Developer Associate

Find a Learning Partner

Watch the Azure certifications overview video
Who is this certification for?
Candidates for this certification should have subject matter expertise working with people, processes, and technologies to continuously deliver business value. Candidates must be familiar with both Azure administration and development and must be expert in at least one of these areas.

Certification options:
- **Certification option 1**
  - Azure Administrator Associate
- **Certification option 2**
  - Azure Developer Associate

Prerequisite Certification options:
- **Certification option 1**
  - Azure Administrator Associate
- **Certification option 2**
  - Azure Developer Associate

Exam details:
- **Exam AZ-400**
  - Designing and Implementing Microsoft DevOps Solutions

Skills measured:
- Develop an instrumentation strategy
- Develop a Site Reliability Engineering (SRE) strategy
- Develop a security and compliance plan
- Manage source control
- Facilitate communication and collaboration
- Define and implement continuous integration
- Define and implement a continuous delivery and release management strategy

Knowledge and experience:
A candidate for this exam should have expertise implementing strategies for collaboration, code, infrastructure, source control, security, compliance, continuous integration, testing, delivery, monitoring, and feedback. Additionally, a candidate must be familiar with both Azure administration and development and must be expert in at least one of these areas.

Certification:
Pass certification exam AZ-400 to earn this certification

Microsoft Certified: DevOps Engineer Expert
DevOps Engineers work with people, processes, and technologies to continuously deliver business value.

Products featured:
- Microsoft Azure

Watch the Azure certifications overview video
The journey to Microsoft Certified: DevOps Engineer Expert

Get started at aka.ms/AzureCerts_DevOpsEngineer

Start here
Decide if this is the right certification for you

This certification is a good fit if your responsibilities include:
- Designing and implementing strategies for collaboration, code, infrastructure, source control, security, compliance, continuous integration, testing, delivery, monitoring, and feedback.

Earn one prerequisite certification

Azure Administrator Associate

OR

Azure Developer Associate

Upskill with recommended training and experience

Skills outline guide

- AZ-400

Self-paced online learning
Microsoft Learn

Instructor-led training
Course AZ-400T00-A: Designing and Implementing Microsoft DevOps solutions

Additional resources

- Microsoft Docs
- Azure Architecture Center

Take a practice exam

Exam AZ-400
Designing and Implementing Microsoft DevOps solutions

Pass required exam to earn your certification

Exam AZ-400
Designing and Implementing Microsoft DevOps solutions

Continue to grow

Explore these resources next

- Microsoft Cloud Adoption Framework for Azure
- Microsoft Azure Well-Architected Framework

Microsoft Certified: DevOps Engineer Expert
DevOps Engineers work with people, processes, and technologies to continuously deliver business value.

Hang onto the Azure certification overview video
DevOps Engineers work with people, processes, and technologies to continuously deliver business value.
Explore recommended training resources that will help you prepare for required exams.

Instructor-led training

- Designing and Implementing Microsoft DevOps solutions
  - AZ-400T00 | 5 days

Self-paced online training on Microsoft Learn

- Get started on a DevOps transformation journey
  - 7 modules
- Implement CI with Azure Pipelines and GitHub Actions
  - 8 modules
- Implement a secure continuous deployment using Azure Pipelines
  - 8 modules
- Design and implement a dependency management strategy
  - 4 modules
- Implement continuous feedback
  - 8 modules

Exam AZ-400
- Designing and Implementing Microsoft DevOps Solutions
- Pass certification exam AZ-400 to earn this certification*

Microsoft Certified: DevOps Engineer Expert

*As a prerequisite for this certification, earn either the Azure Administrator Associate or the Azure Developer Associate certification

Find a Learning Partner
Watch the Azure certifications overview video
Overview of Microsoft Certified: Azure IoT Developer Specialty

Who is this certification for?

Candidates for this certification should have subject matter expertise creating and maintaining the cloud and edge portions of an Azure IoT solution.

Responsibilities for this role include managing the device lifecycle setup, configuration, and maintenance—using cloud services and other tools, implementing designs for Azure IoT solutions, including device topology, connectivity, debugging, and security, implementing solutions to manage, monitor, and transform IoT-related data pipelines, deploying Azure IoT Edge components, and configuring device networking on the edge.

Exam details

**AZ-220**: Microsoft Azure IoT Developer

**Skills measured:**
- Set up the IoT solution infrastructure
- Provision and manage devices
- Implement Edge
- Implement Business Integration
- Process and manage data
- Monitor, troubleshoot, and optimize IoT solutions
- Implement security

**Knowledge and experience:**

A candidate for this exam should have general understanding of devices types and Azure services, including data storage options, data analysis, data processing, AI, and other platform as a service (PaaS) options. IoT developers must be able to program in at least one Azure IoT SDK-supported language.

Certification

Pass certification exam **AZ-220** to earn this certification

Microsoft Certified: **Azure IoT Developer Specialty**

Azure IoT Developers create and maintain the cloud and edge portions of an IoT solution.

Products featured

- Microsoft Azure

Watch the Azure certifications overview video
The journey to Microsoft Certified:

**Azure IoT Developer Specialty**

Start here

Decide if this is the right certification for you

Explore this resource next

Learn about the Azure IoT Developer Specialty and its requirements.

Pass required exam to earn your certification

Exam AZ-220

Microsoft Certified: Azure IoT Developer

Continue to grow

Explore this resource next

Build on your skills with additional resources and learning paths.

Brand new? First, master the basics.

New to the cloud or Azure?

Choose Azure Fundamentals training.

Skills outline guide

- AZ-220

**Self-paced online learning**

Microsoft Learn

**Instructor-led training**

Course AZ-220T00: Microsoft Azure IoT Developer

Additional resources

- Channel 9 Internet of Things Show
- Microsoft Docs
- Azure Developer Guide
- Azure Architecture Center

Take a practice exam

Microsoft Official Practice Test AZ-220

**Microsoft Certified:**

Azure IoT Developers create and maintain the cloud and edge portions of an IoT solution.

Watch the Azure certifications overview video
Learning path for Microsoft Certified: Azure IoT Developer Specialty

Azure IoT Developers create and maintain the cloud and edge portions of an IoT solution. Explore recommended training resources that will help you prepare for required exams.

Instructor-led training

Microsoft Azure IoT Developer
AZ-220T00 | 4 days

- Create Azure IoT services in the Azure portal
  4 modules
- Provision IoT devices at scale by using the Device Provisioning Service
  5 modules
- Develop data insights and business integrations
  4 modules
- Develop and deploy custom IoT Edge modules
  4 modules
- Monitor and troubleshoot an IoT solution by using Azure Monitor
  3 modules
- Provision IoT devices at scale by using the Device Provisioning Service
  5 modules
- Implement device message processing and data analytics
  5 modules
- Deploy Azure IoT Edge devices and modules
  5 modules
- Manage IoT devices by using IoT Hub and apps
  5 modules
- Enhance IoT solution security by using Azure Defender for IoT
  4 modules
- Develop data insights and business integrations
  4 modules
- Implement device message processing and data analytics
  5 modules
- Deploy Azure IoT Edge devices and modules
  5 modules
- Manage IoT devices by using IoT Hub and apps
  5 modules
- Enhance IoT solution security by using Azure Defender for IoT
  4 modules
- Build low touch IoT solutions by using Azure IoT Central
  4 modules

Self-paced online training on Microsoft Learn

- Implement IoT device communication by using the Azure IoT SDKs
  4 modules
- Implement device message processing and data analytics
  5 modules
- Deploy Azure IoT Edge devices and modules
  5 modules
- Manage IoT devices by using IoT Hub and apps
  5 modules
- Enhance IoT solution security by using Azure Defender for IoT
  4 modules
- Build low touch IoT solutions by using Azure IoT Central
  4 modules

Get started at aka.ms/AzureCerts_IoTDev

Exam AZ-220
Microsoft Azure IoT Developer
Pass certification exam AZ-220 to earn this certification
Microsoft Certified: Azure IoT Developer Specialty

Find a Learning Partner
Watch the Azure certifications overview video
Who is this certification for?

Candidates for this certification should be data management specialists with subject matter expertise implementing and managing cloud and on-premises relational databases built on top of Microsoft SQL Server and Azure data services.

Responsibilities for this role include database management, availability, and security, plus performance monitoring and optimization of modern relational database solutions.

Exam details

**DP-300:** Administering Relational Databases on Microsoft Azure (beta)

**Skills measured:**
- Plan and implement data platform resources
- Implement a secure environment
- Monitor and optimize operational resources
- Optimize query performance
- Perform automation of tasks
- Plan and implement a high availability disaster recovery (HADR) environment
- Perform administration by using T-SQL

**Knowledge and experience:**
A candidate for this exam should have experience using a variety of methods and tools to perform day-to-day operations, including applying knowledge of using T-SQL.

Certification

Pass certification exam DP-300 to earn this certification

Microsoft Certified: Azure Database Administrator Associate

Azure Database Administrators implement and manage cloud and on-premises relational databases built on top of Microsoft SQL Server and Azure data services.

Products featured

- Microsoft Azure
- Microsoft SQL Server

Watch the Azure certifications overview video
The journey to Microsoft Certified: Azure Database Administrator Associate

Start here
Decide if this is the right certification for you

Get started at aka.ms/AzureCerts_DatabaseAdmin

Upskill with recommended training and experience

This certification is a good fit if your responsibilities include:

• Database management, availability, and security.
• Performance monitoring and optimization of modern relational database solutions.

OR

If you already have or are working toward any of these certifications:
• MCSA: SQL Server 2012/2014
• MCSA: SQL 2016 Database Development
• MCSA: SQL 2016 Database Administration

Pass required exam to earn your certification

Exam DP-300
Administering Relational Databases on Microsoft Azure

Take a practice exam
Microsoft Official Practice Test DP-300

Skills outline guide
• DP-300

Self-paced online learning
Microsoft Learn

Instructor-led training
Course DP-300T00
Administering Relational Databases on Microsoft Azure

Additional resources
• Microsoft Docs
• Azure Architecture Center

Brand new? First, master the basics.
New to the cloud or Azure?
Choose Azure Fundamentals training.

New to data solutions on Azure?
Choose Azure Data Fundamentals training

Continue to grow

Explore these resources next
Self-paced online learning
• Migrate SQL workloads to Azure

Instructor-led training
• Course DP-050T00: Migrate SQL workloads to Azure

Microsoft Certified: Azure Database Administrator Associate
Azure Database Administrators implement and manage cloud and on-premises relational databases built on top of Microsoft SQL Server and Azure data services.

Watch the Azure certifications overview video
Learning path for Microsoft Certified: Azure Database Administrator Associate

Azure Database Administrators implement and manage cloud and on-premises relational databases built on top of Microsoft SQL Server and Azure data services. Explore recommended training resources that will help you prepare for required exams.

Get started at aka.ms/AzureCerts_DatabaseAdmin

Instructor-led training

Administering Relational Databases on Microsoft Azure
DP-300T00 | 4 days

Self-paced online training on Microsoft Learn

Azure SQL fundamentals
6 modules

Implement a secure environment for a database service
3 modules

Optimize query performance in SQL Server
3 modules

Plan and implement data platform resources
3 modules

Monitor and Optimize Operational Resources in SQL Server
5 modules

Automate tasks in SQL Server
3 modules

Plan and implement an HA-DR environment
3 modules

Exam DP-300
Administering Relational Databases on Microsoft Azure

Pass certification exam DP-300 to earn this certification

Microsoft Certified: Azure Database Administrator Associate

Find a Learning Partner
Watch the Azure certifications overview video
Overview of Microsoft Certified: Azure Data Engineer Associate

Get started at aka.ms/AzureCerts_DataEngineer

Who is this certification for?
Candidates for this certification have subject matter expertise integrating, transforming, and consolidating data from various structured and unstructured data systems into structures that are suitable for building analytics solutions.
Responsibilities for this role include helping stakeholders understand the data through exploration, building, and maintaining secure and compliant data processing pipelines by using different tools and techniques. These professionals use various Azure data services and languages to store and produce cleansed and enhanced datasets for analysis.

Exam details

**DP-203: Data Engineering on Microsoft Azure**

Skills measured:
- Design and implement data storage
- Design and develop data processing
- Design and implement data security
- Monitor and optimize data storage and data processing

Knowledge and experience:
Candidates for this exam must have solid knowledge of data processing languages, such as SQL, Python, or Scala, and they need to understand parallel processing and data architecture patterns.

Certification

Pass certification exam DP-203 to earn this certification

Microsoft Certified: Azure Data Engineer Associate

Azure Data Engineers integrate, transform, and consolidate data from various structured and unstructured data systems into structures that are suitable for building analytics solutions.

Products featured
- Microsoft Azure

Watch the Azure certifications overview video
The journey to Microsoft Certified:

**Azure Data Engineer Associate**

Get started at [aka.ms/AzureCerts_DataEngineer](aka.ms/AzureCerts_DataEngineer)

Start here

Decide if this is the right certification for you

If you already have or were working toward this certification:

- MCSA: Data Engineering with Azure

OR

This certification is a good fit if your responsibilities include:

- Building and maintaining secure and compliant data processing pipelines by using different tools and techniques.
- Using various Azure data services and languages to store and produce cleansed and enhanced datasets for analysis.

Skills outline guides

- DP-203

**Self-paced online learning**

Microsoft Learn

**Instructor-led training**

Course DP-203T00: Data Engineering on Microsoft Azure

Additional resources

- Microsoft Docs
- Azure Architecture Center

Take a practice exam

- Microsoft Official Practice Test DP-203

Pass required exams to earn your certification

- Exam DP-203
  Data Engineering on Microsoft Azure

Continue to grow

Explore these resources next

- Migrate data to Azure

Self-paced online learning

Instructor-led training

- Course DP-050T00: Migrate SQL workloads to Azure
- Course DP-060T00: Migrate NoSQL workloads to Azure Cosmos DB
- Course DP-070T00: Migrate Open Source Data Workloads to Azure

Brand new? First, master the basics.

New to the cloud or Azure?
Choose Azure Fundamentals training.

New to data solutions on Azure?
Choose Azure Data Fundamentals training.

Microsoft Certified: Azure Data Engineer Associate

Azure Data Engineers integrate, transform, and consolidate data from various structured and unstructured data systems into structures that are suitable for building analytics solutions.

Watch the Azure certifications overview video
Learning path for Microsoft Certified:

Azure Data Engineer Associate

Get started at aka.ms/AzureCerts_DataEngineer

Azure Data Engineers integrate, transform, and consolidate data from various structured and unstructured data systems into structures that are suitable for building analytics solutions.

Instructor-led Training

Designing and Implementing a Microsoft Azure AI Solution (coming soon)
DP-203T00 | 4 days

Self-paced online training on Microsoft Learn

Store data in Azure
5 modules

Integrated Analytical Solutions with Azure Synapse Analytics
4 modules

Build data analytics solutions using Azure Synapse serverless SQL pools
6 modules

Work with Hybrid Transactional and Analytical Processing Solutions
4 modules

Large-Scale Data Processing with Azure Data Lake Storage Gen2
3 modules

Data engineering with Azure Databricks
15 modules

Perform data engineering with Azure Synapse Apache Spark Pools
5 modules

Work with Data Warehouses using Azure Synapse Analytics
7 modules

Data integration at scale with Azure Data Factory or Azure Synapse Pipeline
7 modules

Implement a Data Streaming Solution with Azure Streaming Analytics
2 modules

Pass certification exam DP-203 to earn this certification

Microsoft Certified:
Azure Data Engineer Associate

Find a Learning Partner
Watch the Azure certifications overview video
Overview of Microsoft Certified: Data Analyst Associate

Who is this certification for?
Candidates for this certification should have subject matter expertise helping businesses to maximize the value of their data assets using Microsoft Power BI.

Responsibilities for this role include designing and building scalable data models, cleaning and transforming data, and enabling advanced analytics capabilities that provide meaningful business value through easy-to-understand data visualizations.

Exam details

**DA-100:**
Analyzing Data with Microsoft Power BI (beta)

**Skills measured:**
- Prepare the data
- Model the data
- Visualize the data
- Analyze the data
- Deploy and maintain deliverables

**Knowledge and experience:**
A candidate for this exam should have a fundamental understanding of data repositories and data processing in the cloud and in on-premises settings. In addition, the role should have knowledge and experience with Power BI.

Certification

Pass certification exam DA-100 to earn this certification

Microsoft Certified:
Data Analyst Associate

Data Analysts help businesses to maximize the value of their data assets using Microsoft Power BI.

Products featured
- Microsoft Power BI

Watch the Azure certifications overview video
The journey to Microsoft Certified:
Data Analyst Associate

Start here
Decide if this is the right certification for you

Upskill with recommended training and experience

This certification is a good fit if your responsibilities include:
- Designing and building scalable data models.
- Cleaning and transforming data.
- Enabling advanced analytics capabilities that provide meaningful business value through easy-to-understand data visualizations.

OR

If you already have or are working toward any of these certifications:
- MCSA: BI Reporting
- MCSA: SQL 2016 BI Development

First, make sure your skills are up to date.
New to the cloud or Azure?
Choose Azure Fundamentals training.

New to data solutions on Azure?
Choose Azure Data Fundamentals training.

Need to update your skills on Microsoft Power Platform?
Choose Power Platform Fundamentals training.

Pass required exam to earn your certification

Exam DA-100
Analyzing Data with Microsoft Power BI

Take a practice exam
Microsoft Official Practice Test DA-100

Skills outline guides
- DA-100

Self-paced online learning
Microsoft Learn

Instructor-led training
Course DA-100T00: Analyzing Data with Microsoft Power BI

Additional resources
- Microsoft Docs

Microsoft Certified: Data Analyst Associate
Data Analysts help businesses to maximize the value of their data assets using Microsoft Power BI.

Get started at
aka.ms/AzureCerts_DataAnalyst

Watch the Azure certifications overview video
Learning path for Microsoft Certified: Data Analyst Associate

Data Analysts help businesses to maximize the value of their data assets using Microsoft Power BI. Explore recommended training resources that will help you prepare for required exams.

Instructor-led training

**Analyzing Data with Microsoft Power BI**
DA-100T00 | 4 days

Self-paced online training on Microsoft Learn

- Get started with Microsoft data analytics | 2 modules
- Prepare data for analysis | 2 modules
- Model data in Power BI | 3 modules
- Visualize data in Power BI | 4 modules
- Data analysis in Power BI | 2 modules
- Manage workspaces and datasets in Power BI | 3 modules

Exam DA-100
Analyzing Data with Microsoft Power BI

Pass certification exam DA-100 to earn this certification

Microsoft Certified: Data Analyst Associate

Get started at aka.ms/AzureCerts_DataAnalyst
Overview of Microsoft Certified:

Azure Cosmos DB Developer Specialty

Get started at aka.ms/AzureCerts_CosmosDBDeveloper

Who is this certification for?
Candidates for this certification should have subject matter expertise in designing, implementing, and monitoring cloud-native applications that store and manage data.

Responsibilities include designing and implementing data models and data distribution, loading data into an Azure Cosmos DB database, and optimizing and maintaining the solution. These professionals integrate the solution with other Azure services. They also design, implement, and monitor solutions that consider security, availability, resilience, and performance requirements.

Exam details

Exam DP-420:
Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB

Skills measured:
• Design and implement data models
• Design and implement data distribution
• Integrate an Azure Cosmos DB solution
• Optimize an Azure Cosmos DB solution
• Maintain an Azure Cosmos DB solution

Knowledge and experience:
A candidate for this exam must have solid knowledge and experience developing apps for Azure and working with Azure Cosmos DB database technologies. They should be proficient at developing applications by using the Core (SQL) API and SDKs, writing efficient queries and creating appropriate index policies, provisioning and managing resources in Azure, and creating server-side objects with JavaScript. They should be able to interpret JSON, read C# or Java code, and use PowerShell.

Certification

Pass certification exam DP-420 to earn this certification

Microsoft Certified: Azure Cosmos DB Developer Specialty

Azure Cosmos DB Developers design, implement, and monitor cloud-native applications that store and manage data.

Products featured
• Microsoft Azure

Watch the Azure certifications overview video
The journey to Microsoft Certified:

**Azure Cosmos DB Developer Specialty**

**Start here**

Decide if this is the right certification for you

**Upskill with recommended training and experience**

- **Skills outline guide**
  - DP-420
    - Self-paced online learning
      - Microsoft Learn

- **Additional resources**
  - Microsoft Docs

**Pass required exam to earn your certification**

- **Exam DP-420**
  - Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB (beta)

**This certification is a good fit if your responsibilities include:**

- Designing and implementing data models and data distribution.
- Loading data into an Azure Cosmos DB database.
- Optimizing and maintaining the solution.
- Integrating the solution with other Azure services.
- Designing, implementing, and monitoring solutions that consider security, availability, resilience, and performance requirements.

First, make sure your skills are up to date.

**Need to update your skills in Azure administration?**
Azure Administrator training on Microsoft Learn.

Microsoft Certified: Azure Cosmos DB Developer Specialty

Azure Cosmos DB Developers design, implement, and monitor cloud-native applications that store and manage data.

Get started at [aka.ms/AzureCerts_CosmosDBDeveloper](aka.ms/AzureCerts_CosmosDBDeveloper)
Learning path for Microsoft Certified: Azure Cosmos DB Developer Specialty

Azure Cosmos DB developers design, implement, and monitor cloud-native applications that store and manage data.

Instructor-led Training

- **Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB**
  - **DP-420T00 | 4 days**

Self-paced online training on Microsoft Learn

- Get started with Azure Cosmos DB SQL API
  - 2 modules
- Connect to Azure Cosmos DB with the SDK
  - 2 modules
- Execute queries in Azure Cosmos DB SQL API
  - 2 modules
- Integrate Azure Cosmos DB SQL API with Azure services
  - 3 modules
- Design and implement a replication strategy for Azure Cosmos DB SQL API
  - 3 modules
- Monitor and troubleshoot an Azure Cosmos DB SQL API solution
  - 4 modules
- Create server-side programming constructs in Azure Cosmos DB SQL API
  - 2 modules
- Plan and implement Azure Cosmos DB SQL API
  - 3 modules
- Access and manage data with the Azure Cosmos DB SQL API SDKs
  - 3 modules
- Define and implement an indexing strategy for Azure Cosmos DB SQL API
  - 2 modules
- Implement a data modeling and partitioning strategy for Azure Cosmos DB SQL API
  - 2 modules
- Optimize query and operation performance in Azure Cosmos DB SQL API
  - 3 modules
- Manage an Azure Cosmos DB SQL API solution using DevOps practices
  - 2 modules

Exam DP-420

- **Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB (beta)**
- Pass certification exam DP-420 to earn this certification

Microsoft Certified: Azure Cosmos DB Developer Specialty
Who is this certification for?

Candidates for this certification should have subject matter expertise building, managing, and deploying AI solutions that leverage Azure Cognitive Services, Azure Cognitive Search, and Microsoft Bot Framework.

Responsibilities for this role include participating in all phases of AI solutions development—from requirements definition and design, to development, deployment, maintenance, performance tuning, and monitoring.

Exam details

**AI-102: Designing and Implementing a Microsoft Azure AI Solution**

Skills measured:
- Plan and manage an Azure cognitive services solution
- Implement computer vision solutions
- Implement natural language processing solutions
- Implement knowledge mining solutions
- Implement conversational AI solutions

Knowledge and experience:
A candidate for this exam should be proficient in C#, Python, or JavaScript and should be able to use REST-based APIs and SDKs to build computer vision, natural language processing, knowledge mining, and conversational AI solutions on Azure. In addition, a candidate should understand the components that make up the Azure AI portfolio and the available data storage options. A candidate also needs to understand and be able to apply responsible AI principles.

Certification

Pass certification exam AI-102 to earn this certification

Microsoft Certified: Azure AI Engineer Associate


Products featured

- Microsoft Azure

Watch the Azure certifications overview video
The journey to Microsoft Certified:

**Azure AI Engineer Associate**

Get started at [aka.ms/AzureCerts_AIEngineer](https://aka.ms/AzureCerts_AIEngineer)

**Start here**
Decide if this is the right certification for you

**Upskill with recommended training and experience**

**Pass required exam to earn your certification**

**This certification is a good fit if your responsibilities include:**
- Participating in all phases of AI solutions development—from requirements definition and design to development, deployment, maintenance, performance tuning, and monitoring.

**Skills outline guide**
- AI-102

  **Self-paced online learning**
  - Microsoft Learn

  **Instructor-led training**
  - Course AI-102T00: Designing and Implementing a Microsoft Azure AI Solution (4 days)

**Additional resources**
- Microsoft Docs
- Azure Developer Guide
- Azure Architecture Center

**Exam AI-102**
- Designing and Implementing a Microsoft Azure AI Solution

**Pass required exam to earn your certification**

**Take a practice exam**
- Microsoft Official Practice Test AI-102

**Explore these resources next**
- Create machine learning models
- AI Business School

**Microsoft Certified: Azure AI Engineer Associate**

**Brand new? First, master the basics.**
New to the cloud or Azure?
Choose Azure Fundamentals training.

New to AI on Azure?
Choose Azure AI Fundamentals training.

Watch the Azure certifications overview video
Learning path for Microsoft Certified: Azure AI Engineer Associate

Get started at aka.ms/AzureCerts.AIEngineer


Instructor-led training

Designing and Implementing a Microsoft Azure AI Solution
AI-102T00 | 4 days

Prepare for AI engineering
1 module

Process and translate text with Azure Cognitive Services
2 modules

Create a Language Understanding solution
3 modules

Create conversational AI solutions
2 modules

Extract text from images and documents
2 modules

Self-paced online training on Microsoft Learn

Provision and manage Azure Cognitive Services
4 modules

Process and Translate Speech with Azure Cognitive Speech Services
2 modules

Build a QnA solution
1 module

Create computer vision solutions with Azure Cognitive Services
5 modules

Implement knowledge mining with Azure Cognitive Search
3 modules

Exam AI-102
Designing and Implementing a Microsoft Azure AI Solution

Pass certification exam AI-102 to earn this certification

Microsoft Certified: Azure AI Engineer Associate

Find a Learning Partner
Watch the Azure certifications overview video
Who is this certification for?
Candidates for this certification should have subject matter expertise implementing and running machine learning workloads on Microsoft Azure.
Responsibilities for this role include planning and creating a suitable working environment for data science workloads on Azure, running data experiments and training predictive models, and managing, optimizing, and deploying machine learning models into production.

Exam details

**DP-100:**
Designing and Implementing a Data Science Solution on Azure

**Skills measured:**
• Set up an Azure Machine Learning workspace
• Run experiments and train models
• Optimize and manage models
• Deploy and consume models

**Knowledge and experience:**
A candidate for this exam should have knowledge and experience in data science and using Azure Machine Learning.

Certification

Pass certification exam DP-100 to earn this certification

Microsoft Certified: Azure Data Scientist Associate

Microsoft certified: Azure Data Scientist Associate.

Azure Data Scientists implement and run machine learning workloads on Microsoft Azure Machine Learning.

Products featured
• Microsoft Azure

Watch the Azure certifications overview video
The journey to Microsoft Certified: Azure Data Scientist Associate

Get started at aka.ms/AzureCerts_DataScientist

This certification is a good fit if your responsibilities include:
- Planning and creating a suitable working environment for data science workloads on Azure.
- Running data experiments and training predictive models.
- Managing, optimizing, and deploying machine learning models into production.

Upskill with recommended training and experience

Skills outline guide
- DP-100

- Self-paced online learning
  Microsoft Learn

- Instructor-led training
  Course DP-100T01: Designing and Implementing a Data Science Solution on Azure

Additional resources
- Microsoft Docs

Pass required exam to earn your certification

- Microsoft Official Practice Test DP-100

Exam DP-100
Designing and Implementing a Data Science Solution on Azure

Continue to grow

Explore these resources next
- AI Business School

Microsoft Certified: Azure Data Scientist Associate

Azure Data Scientists implement and run machine learning workloads on Microsoft Azure Machine Learning.

Brand new? First, master the basics.

New to the cloud or Azure?
Choose Azure Fundamentals training.

New to Artificial Intelligence (AI) or AI on Azure?
Choose Azure AI Fundamentals training.

Watch the Azure certifications overview video
Learning path for Microsoft Certified: Azure Data Scientist Associate

Azure Data Scientists implement and run machine learning workloads on Microsoft Azure Machine Learning.
Explore recommended training resources that will help you prepare for required exams.

Instructor-led training
- Designing and Implementing a Data Science Solution on Azure
  DP-100T01 | 3 days
- Implementing a Machine Learning Solution with Microsoft Azure Databricks
  DP-090T00 | 1 day

Self-paced online training on Microsoft Learn
- Create machine learning models
  5 modules
- Microsoft Azure AI Fundamentals: Explore visual tools for machine learning
  4 modules
- Build and operate machine learning solutions with Azure Machine Learning
  15 modules
- Build and operate machine learning solutions with Azure Databricks
  10 modules

Exam DP-100
Designing and Implementing a Data Science Solution on Azure
Pass certification exam DP-100 to earn this certification
Microsoft Certified: Azure Data Scientist Associate

Find a Learning Partner
Watch the Azure certifications overview video