



# Microsoft Azure training and certifications

[aka.ms/AzureTrainCertDeck](https://aka.ms/AzureTrainCertDeck)



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This guide has been created to provide training and certification options to achieve personal success.

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# Training journey for cloud IT pros

Check out the full [Azure Training Journey](#)

Grow in role

## Start here

**Implement, manage, and monitor cloud solutions**

[AZ-104](#)

Azure administrator



Choose additional paths that best fit your role and projects

**Implement and manage secure cloud solutions**

[AZ-500](#)

Azure security engineer



**Deliver virtual desktop experiences and remote apps on Azure**

[AZ-140](#)

Azure Virtual Desktop administrator



**Manage SAP solutions on Azure**

[AZ-120](#)

Azure for SAP workloads



**Implement and manage networking solutions**

[AZ-700](#)

Azure network engineer

Want to keep learning?

Explore the [Security, Compliance, and Identity Training Journey](#)

## Master the basics

**New to the cloud or new to Azure**

[AZ-900](#)

Azure fundamentals

**New to Azure administration**

Prerequisites for Azure administrators

# Training journey for hybrid cloud IT pros

Check out the full [Azure Training Journey](#)

Grow in role

## Start here

**Manage Windows Server on-premises, hybrid, and IaaS platform workloads**

[AZ-800](#)

Windows Server hybrid administrator

[AZ-801](#)



Choose additional paths that best fit your role and projects

**Implement, manage, and monitor cloud solutions**

[AZ-104](#)

Azure administrator



**Deliver virtual desktop experiences and remote apps on Azure**

[AZ-140](#)

Azure Virtual Desktop administrator

## Master the basics

**New to the cloud or new to Azure**

[AZ-900](#)

Azure fundamentals

**New to Azure administration**

Prerequisites for Azure administrators

# Training journey for cloud IT pros expert level

Check out the full [Azure Training Journey](#)

Grow in role

## Start here

**Implement, manage, and monitor cloud solutions**

[AZ-104](#)

Azure administrator



Choose additional paths that best fit your role and projects

**Deliver continuous value integrating people, processes, and technologies**

[AZ-400](#)

DevOps engineer



**Design and implement end-to-end cloud solutions**

[AZ-305](#)

Azure solutions architect

## Master the basics

**[New to Azure administration](#)**

[Prerequisites for Azure administrators](#)

**[New to Azure infrastructure architecture](#)**

[Prerequisites for Azure solution architects](#)

# Training journey for developers

Check out the full [Azure Training Journey](#)

Grow in role

## Start here

**Design, build, test, and maintain cloud apps**  
Azure developer

[AZ-204](#)



Choose additional paths that best fit your role and projects

**Build, manage, and deploy AI solutions**  
Azure AI engineer

[AI-102](#)



**Deliver continuous value integrating people, processes, and technologies**  
DevOps engineer

[AZ-400](#)



**Develop cloud-native apps that store and manage data**  
Azure Cosmos DB developer

[DP-420](#)

## 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](#)

Want to keep learning? Check out the [Power Platform Training Journey](#)

# Training journey for data & AI professionals

Check out the full [Azure Training Journey](#)

Grow in role

## Start here

**Manage relational cloud and hybrid databases**  
Azure database administrator

[DP-300](#)



Choose additional paths that best fit your role and projects

**Deliver continuous value integrating people, processes, and technologies**  
Azure data engineer

[DP-203](#)



**Build, train, and deploy machine learning models**  
Azure data scientist

[DP-100](#)

## 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](#)

# Training journey for data analysts

Check out the full [Azure Training Journey](#)

Grow in role

 Start here

Maximize the value of data assets  
with advanced analytics

Power BI data analyst

[PL-300](#)



Build enterprise-scale data  
analytics solutions

Azure Enterprise data analyst

[DP-500](#)

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 Microsoft Power Platform

Microsoft Power Platform Fundamentals

[PL-900](#)



# 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 AI Fundamentals

> Azure Data Fundamentals

> Azure Fundamentals

> Azure Virtual Desktop

> Cloud-Native Apps

> Deliver Integrated Analytics with Azure Synapse

> DevOps with GitHub

> Linux OSS Database Migration

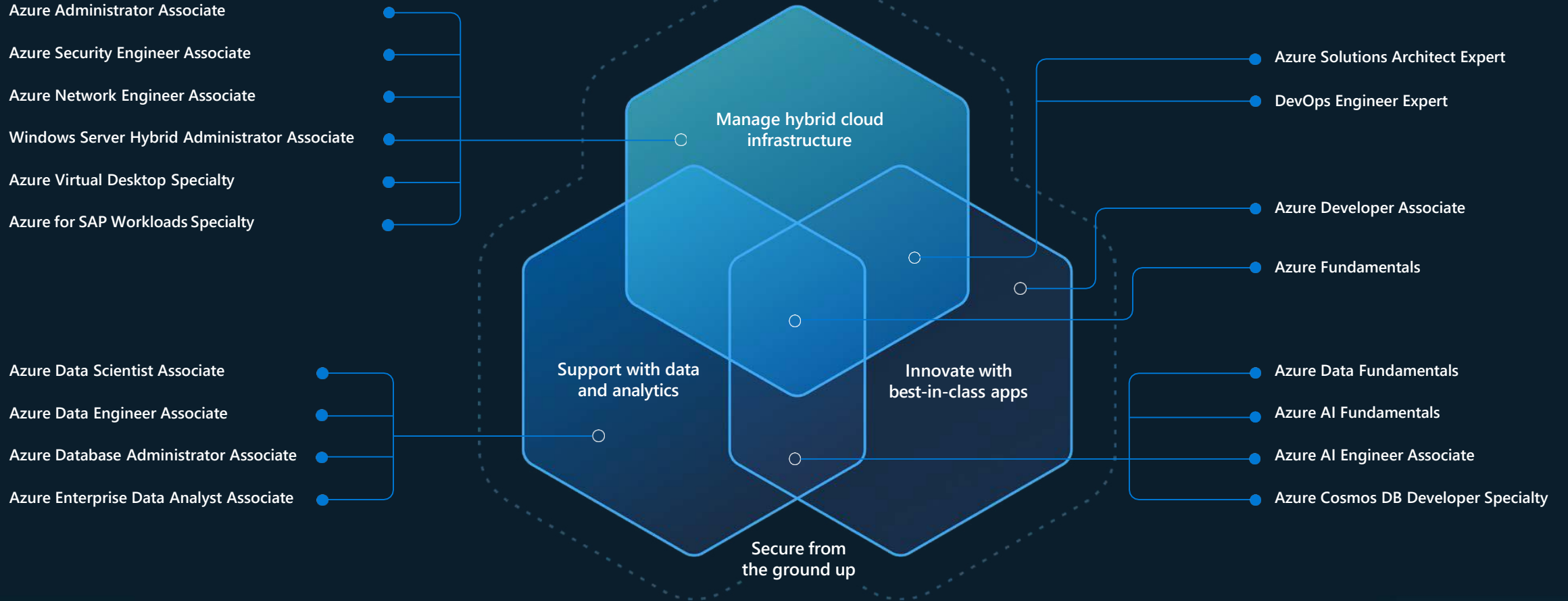
> Migrating On-Premises Infrastructure and Data

> Well-Architected

[View all Azure Virtual Training Days >](#)

# Microsoft Azure certifications

Help advance your career, earn recognition, and validate your technical knowledge and abilities in current and future industry job roles with Microsoft Azure certifications. Visit the [certifications page](#) to get started.



Azure. Invent with purpose.

# Microsoft Azure certifications for IT pros (1)

Manage hybrid cloud infrastructure

<b>Azure Administrator Associate</b> Exam AZ-104	<b>Azure Security Engineer Associate</b> Exam AZ-500	<b>Azure Network Engineer Associate</b> Exam AZ-700	<b>Windows Server Hybrid Administrator Associate</b> Exams AZ-800 + AZ-801
<p>Azure administrators implement, manage, and monitor an organization's Microsoft Azure environment.</p>	<p>Azure security engineers implement security controls that protect identity, access, data, applications, and networks in cloud and hybrid environments as part of an end-to-end infrastructure.</p>	<p>Azure network engineers plan, implement, and maintain Azure networking solutions, including hybrid networking, connectivity, routing, security, and private access to Azure services.</p>	<p>Windows Server hybrid administrators configure and manage Windows Server on-premises, hybrid, and infrastructure as a service (IaaS) platform workloads.</p>
<ul style="list-style-type: none"> <li>• Manage Azure identities and governance</li> <li>• Implement and manage storage</li> <li>• Deploy and manage Azure compute resources</li> <li>• Implement and manage virtual networking</li> <li>• Monitor and maintain Azure resources</li> </ul>	<ul style="list-style-type: none"> <li>• Manage identity and access</li> <li>• Secure networking</li> <li>• Secure compute, storage, and databases</li> <li>• Manage security operations</li> </ul>	<ul style="list-style-type: none"> <li>• Design and implement core networking infrastructure</li> <li>• Design, implement, and manage connectivity services</li> <li>• Design and implement private access to Azure services</li> <li>• Secure and monitor networks</li> </ul>	<ul style="list-style-type: none"> <li>• Deploy and manage Active Directory Domain Services (AD DS) in on-premises and cloud environments</li> <li>• Manage Windows Servers and workloads in a hybrid environment</li> <li>• Manage virtual machines and containers</li> <li>• Implement and manage an on-premises and hybrid networking infrastructure</li> <li>• Manage storage and file services</li> <li>• Secure Windows Server on-premises and hybrid infrastructures</li> <li>• Implement and manage Windows Server high availability</li> <li>• Implement disaster recovery</li> <li>• Migrate servers and workloads</li> <li>• Monitor and troubleshoot Windows Server environments</li> </ul>

# Microsoft Azure certifications for IT pros (2)

Manage hybrid cloud infrastructure

<b>DevOps Engineer Expert</b> Exam AZ-400	<b>Azure Solutions Architect Expert</b> Exam AZ-305	<b>Azure for SAP Workloads Specialty</b> Exam AZ-120	<b>Azure Virtual Desktop Specialty</b> Exam AZ-140
<p>DevOps engineers work with people, processes, and products to enable continuous delivery of value in organizations.</p>	<p>Azure solution architects design cloud and hybrid solutions that run on Microsoft Azure, including compute, network, storage, monitoring, and security.</p>	<p>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 initial migration or integration and the long-term operation of an SAP solution on Microsoft Azure.</p>	<p>Administrators for Azure Virtual Desktop design, implement, manage, and maintain Microsoft Azure Virtual Desktop experiences and remote apps for any device.</p>
<ul style="list-style-type: none"><li>• Configure processes and communications</li><li>• Design and implement source control</li><li>• Design and implement build and release pipelines</li><li>• Develop a security and compliance plan</li><li>• Implement an instrumentation strategy</li></ul>	<ul style="list-style-type: none"><li>• Design identity, governance, and monitoring solutions</li><li>• Design data storage solutions</li><li>• Design business continuity solutions</li><li>• Design infrastructure solutions</li></ul>	<ul style="list-style-type: none"><li>• Migrate SAP workloads to Azure</li><li>• Design and implement an infrastructure to support SAP workloads on Azure</li><li>• Design and implement high availability and disaster recovery (HA/DR)</li><li>• Maintain SAP workloads on Azure</li></ul>	<ul style="list-style-type: none"><li>• Plan and implement an Azure Virtual Desktop infrastructure</li><li>• Plan and implement identity and security</li><li>• Plan and implement user environments and apps</li><li>• Monitor and maintain an Azure Virtual Desktop infrastructure</li></ul>

# Microsoft Azure certifications for developers

Innovate with best-in-class apps

<b>Azure Developer Associate</b> Exam AZ-204	<b>DevOps Engineer Expert</b> Exam AZ-400	<b>Azure AI Engineer Associate</b> Exam AI-102	<b>Azure Cosmos DB Developer Specialty</b> Exam DP-420
<p>Azure developers participate in all phases of development from requirements definition and design to development, deployment, and maintenance.</p>	<p>DevOps engineers work with people, processes, and products to enable continuous delivery of value in organizations.</p>	<p>Azure AI engineers build, manage, and deploy AI solutions that leverage Azure Cognitive Services and Azure Applied AI services.</p>	<p>Azure Cosmos DB developers design, implement, and monitor cloud-native applications that store and manage data.</p>
<ul style="list-style-type: none"><li>• Develop Azure compute solutions</li><li>• Develop for Azure storage</li><li>• Implement Azure security</li><li>• Monitor, troubleshoot, and optimize Azure solutions</li><li>• Connect to and consume Azure services and third-party services</li></ul>	<ul style="list-style-type: none"><li>• Configure processes and communications</li><li>• Design and implement source control</li><li>• Design and implement build and release pipelines</li><li>• Develop a security and compliance plan</li><li>• Implement an instrumentation strategy</li></ul>	<ul style="list-style-type: none"><li>• Plan and manage an Azure Cognitive Services solution</li><li>• Implement Computer Vision solutions</li><li>• Implement natural language processing solutions</li><li>• Implement knowledge mining solutions</li><li>• Implement conversational AI solutions</li></ul>	<ul style="list-style-type: none"><li>• Design and implement data models</li><li>• Design and implement data distribution</li><li>• Integrate an Azure Cosmos DB solution</li><li>• Optimize an Azure Cosmos DB solution</li><li>• Maintain an Azure Cosmos DB solution</li></ul>

# Microsoft Azure certifications for data and AI pros (1)

Support with data and analytics

<b>Azure Database Administrator Associate</b> Exam DP-300	<b>Azure Data Engineer Associate</b> Exam DP-203	<b>Azure Data Scientist Associate</b> Exam DP-100
<p>Azure database administrators implement and manage the operational aspects of cloud-native and hybrid data platform solutions built with Microsoft SQL Server and Microsoft Azure Data Services.</p>	<p>Azure data engineers integrate, transform, and consolidate data from various structured and unstructured data systems into structures that are suitable for building analytics solutions.</p>	<p>Azure data scientists apply data science and machine learning to implement and run machine learning workloads on Azure.</p>
<ul style="list-style-type: none"><li>• Plan and implement data platform resources</li><li>• Implement a secure environment</li><li>• Monitor, configure, and optimize database resources</li><li>• Configure and manage automation of tasks</li><li>• Plan and configure a high availability and disaster recovery (HA/DR) environment</li></ul>	<ul style="list-style-type: none"><li>• Design and implement data storage</li><li>• Design and develop data processing</li><li>• Design and implement data security</li><li>• Monitor and optimize data storage and data processing</li></ul>	<ul style="list-style-type: none"><li>• Design and prepare a machine learning solution</li><li>• Explore data and train models</li><li>• Prepare a model for deployment</li><li>• Deploy and retrain a model</li></ul>

# Microsoft Azure certifications for data and AI pros (2)

Support with data and analytics

<b>Azure AI Engineer Associate</b> Exam AI-102	<b>Azure Cosmos DB Developer Specialty</b> Exam DP-420	<b>Azure Enterprise Data Analyst Associate</b> Exam DP-500
<p>Azure AI engineers build, manage, and deploy AI solutions that leverage Azure Cognitive Services and Azure Applied AI services.</p>	<p>Azure Cosmos DB developers design, implement, and monitor cloud-native applications that store and manage data.</p>	<p>Azure Enterprise data analysts design, create, and deploy enterprise-scale data analytics solutions.</p>
<ul style="list-style-type: none"><li>• Plan and manage an Azure AI solution</li><li>• Implement image and video processing solutions</li><li>• Implement natural language processing solutions</li><li>• Implement knowledge mining solutions</li><li>• Implement conversational AI solutions</li></ul>	<ul style="list-style-type: none"><li>• Design and implement data models</li><li>• Design and implement data distribution</li><li>• Integrate an Azure Cosmos DB solution</li><li>• Optimize an Azure Cosmos DB solution</li><li>• Maintain an Azure Cosmos DB solution</li></ul>	<ul style="list-style-type: none"><li>• Implement and manage a data analytics environment</li><li>• Query and transform data</li><li>• Implement and manage data models</li><li>• Explore and visualize data</li></ul>

# Get the right foundations

Master the basics

<b>Azure Fundamentals</b> Exam AZ-900	<b>Azure AI Fundamentals</b> Exam AI-900	<b>Azure Data Fundamentals</b> Exam DP-900
<p>Azure fundamentals validates foundational knowledge of cloud services and how those services are provided with Microsoft Azure.</p>	<p>Azure AI fundamentals validates foundational knowledge of machine learning and artificial intelligence concepts and related Microsoft Azure services.</p>	<p>Azure data fundamentals validates foundational knowledge of core data concepts and how they're implemented using Azure data services.</p>
<ul style="list-style-type: none"><li>• Describe cloud concepts</li><li>• Describe Azure architecture and services</li><li>• Describe Azure management and governance</li></ul>	<ul style="list-style-type: none"><li>• Describe Artificial Intelligence workloads and considerations</li><li>• Describe fundamental principles of machine learning on Azure</li><li>• Describe features of computer vision workloads on Azure</li><li>• Describe features of Natural Language Processing (NLP) workloads on Azure</li></ul>	<ul style="list-style-type: none"><li>• Describe core data concepts</li><li>• Identify considerations for relational data on Azure</li><li>• Describe considerations for working with non-relational data on Azure</li><li>• Describe an analytics workload on Azure</li></ul>



# The journey to Microsoft Certified: Azure Fundamentals

Get started at  
[aka.ms/AzureCerts Fundamentals](https://aka.ms/AzureCerts_Fundamentals)



## Start here

Decide if this is the right certification for you

## Get trained

### This certification is a good fit if:

- You are new to the cloud or new to Azure.

### Exam study guide

- > [AZ-900](#)

### Self-paced training

- > [Microsoft Learn](#)

### Instructor-led training

- > [Course AZ-900: Microsoft Azure Fundamentals](#)

### Virtual events

- > [Microsoft Azure Virtual Training Day: Fundamentals](#)

## Build confidence

### Exam preparation

- > [Exam Readiness Zone](#)

### Take a practice exam

- > [Practice Assessment on Microsoft Learn AZ-900](#)

### Skills measured:

- Describe cloud concepts
- Describe Azure architecture and services
- Describe Azure management and governance

## Get recognized

- > Pass [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 Data Fundamentals

Get started at  
[aka.ms/AzureCerts DataFundamentals](https://aka.ms/AzureCerts>DataFundamentals)



## Start here

Decide if this is the right certification for you

## Get trained

### This certification is a good fit if:

- You are beginning to work with data in the cloud.

### Exam study guide

- > [DP-900](#)

### Self-paced training

- > [Microsoft Learn](#)

### Instructor-led training

- > [Course DP-900: Microsoft Azure Data Fundamentals](#)

### Virtual events

- > [Microsoft Azure Virtual Training Day: Data Fundamentals](#)

**Brand new? First, master the basics.**

**New to the cloud or Azure?**

[Choose Azure fundamentals training.](#)

## Build confidence

### Exam preparation

- > [Exam Readiness Zone](#)

### Take a practice exam

- > [Practice Assessment on Microsoft Learn DP-900](#)

### Skills measured:

- Describe core data concepts
- Identify considerations for relational data on Azure
- Describe considerations for working with non-relational data on Azure
- Describe an analytics workload on Azure

## Get recognized

- > Pass [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're implemented using Azure data services.

### Products featured

- Microsoft Azure
- Microsoft SQL Server

# 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

## Get trained

### This certification is a good fit if:

- You are new to AI or AI on Azure.

### Exam study guide

- > [AI-900](#)

### Self-paced training

- > [Microsoft Learn](#)

### Instructor-led training

- > [Course AI-900: Microsoft Azure AI Fundamentals](#)

### Virtual events

- > [Microsoft Azure Virtual Training Day: AI Fundamentals](#)

**Brand new? First, master the basics.**

**New to the cloud or Azure?**

[Choose Azure fundamentals training.](#)

## Build confidence

### Exam preparation

- > [Exam Readiness Zone](#)

### Take a practice exam

- > [Practice Assessment on Microsoft Learn AI-900](#)

### Skills measured:

- Describe Artificial Intelligence 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

## Get recognized

- > Pass [Exam AI-900](#) to earn this certification.



Microsoft Certified:

[Azure AI Fundamentals](#)

Azure AI fundamentals validates foundational knowledge of machine learning and artificial intelligence concepts and related Microsoft Azure services.

### Products featured

- Microsoft Azure

# The journey to Microsoft Certified: Azure Administrator Associate

Get started at  
[aka.ms/AzureCerts\\_Admin](https://aka.ms/AzureCerts_Admin)



## Start here

Decide if this is the right certification for you

## Get trained

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

- Managing, and monitoring identity, governance, storage, compute, and virtual networks in a cloud environment, plus provision, size, monitor, and adjust 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

### 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 training.](#)

### Exam study guide

- > [AZ-104](#)

### Self-paced training

- > [Microsoft Learn](#)

### Instructor-led training

- > [Course AZ-104: Microsoft Azure Administrator](#)

## Build confidence

### Exam preparation

- > [Exam Readiness Zone](#)

### Take a practice exam

- > [Practice Assessment on Microsoft Learn AZ-104](#)

### Skills measured:

- Manage Azure identities and governance
- Implement and manage storage
- Deploy and manage Azure compute resources
- Implement and manage virtual networking
- Monitor and maintain Azure resources

## Get recognized

- > Pass [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

# The journey to Microsoft Certified: Azure Security Engineer Associate

Get started at  
[aka.ms/AzureCerts\\_SecurityEngineer](https://aka.ms/AzureCerts_SecurityEngineer)



## Start here

Decide if this is the right certification for you

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

- Managing the security posture, identifying and remediating vulnerabilities, performing threat modeling, implementing threat protection, and responding to security incident escalations.

First, make sure your skills are up to date.

### Need to update your skills in Azure administration?

Choose [Azure administrator training](#).

## Get trained

### Exam study guide

- > [AZ-500](#)

### Self-paced training

- > [Microsoft Learn](#)

### Instructor-led training

- > [Course AZ-500: Microsoft Azure Security Technologies](#)

## Build confidence

### Exam preparation

- > [Exam Readiness Zone](#)

### Take a practice exam

- > [Practice Assessment on Microsoft learn AZ-500](#)

### Skills measured:

- Manage identity and access
- Secure networking
- Secure compute, storage, and databases
- Manage security operations

## Get recognized

- > Pass [Exam AZ-500](#) to earn this certification.



Microsoft Certified:  
[Azure Security Engineer Associate](#)

Azure security engineers implement security controls that protect identity, access, data, applications, and networks in cloud and hybrid environments as part of an end-to-end infrastructure.

### Products featured

- Microsoft Azure

# The journey to Microsoft Certified: Azure Network Engineer Associate

Get started at  
[aka.ms/AzureCerts\\_NetworkEngineer](https://aka.ms/AzureCerts_NetworkEngineer)



## Start here

Decide if this is the right certification for you

## Get trained

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

- Recommending, planning, and implementing Azure networking solutions.
- 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).

First, make sure your skills are up to date.

### Need to update your skills in Azure administration?

[Choose Azure administrator training.](#)

### Exam study guide

- > [AZ-700](#)

### Self-paced training

- > [Microsoft Learn](#)

### Instructor-led training

- > [Course AZ-700: Designing and Implementing Microsoft Azure Networking Solutions](#)

## Build confidence

### Exam preparation

- > [Exam Readiness Zone](#)

### Take a practice exam

- > [Practice Assessment on Microsoft learn AZ-700](#)

### Skills measured:

- Design and implement core networking infrastructure
- Design, implement, and manage connectivity services
- Design and implement private access to Azure services
- Secure and monitor networks

## Get recognized

- > Pass [Exam AZ-700](#) to earn this certification.



Microsoft Certified:  
[Azure Network Engineer Associate](#)

Azure network engineers plan, implement, and maintain Azure networking solutions, including hybrid networking, connectivity, routing, security, and private access to Azure services.

### Products featured

- Microsoft Azure

# The journey to Microsoft Certified: Windows Server Hybrid Administrator Associate

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



## Start here

Decide if this is the right certification for you

## Get trained

### 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.

OR

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

- MCSE: Core Infrastructure
- MCSA: Windows Server 2012
- MCSA: Windows Server 2016

### Exam study guides

- > [AZ-800](#) and [AZ-801](#)

### Self-paced training

- > [Microsoft Learn](#)

### Instructor-led training

- > [Course AZ-800 Administering Windows Server Hybrid Core Infrastructure](#)
  - > [Course AZ-801T00 Configuring Windows Server Hybrid Advanced Services](#)
- ### Virtual events
- > [Microsoft Azure Virtual Training Day: Implementing Hybrid Infrastructure](#)

## Build confidence

### 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
- 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

### Exam preparation

- > [Exam Readiness Zone](#)
- > [Take a practice exam Practice Assessment on Microsoft learn AZ-800](#)
- > [Take a practice exam Practice Assessment on Microsoft learn AZ-801](#)

### Products featured

- Windows Server
- Microsoft Azure

## Get recognized

- > Pass [Exam AZ-800](#) and [Exam AZ-801](#) to earn this certification.



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.

# The journey to Microsoft Certified: Azure Solutions Architect Expert

Get started at  
[aka.ms/AzureCerts\\_SolutionsArchitect](https://aka.ms/AzureCerts_SolutionsArchitect)



## Start here

Decide if this is the right certification for you

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

- Advising stakeholders and translating business requirements into designs for secure, scalable, and reliable Azure solutions.

### Prerequisite: Certification

- [Azure Administrator Associate](#)

First, make sure your skills are up to date.

### Need to update your skills in Azure infrastructure architecture?

[Choose Azure architect design prerequisites training.](#)

## Get trained

### Exam study guide

- > [AZ-305](#)

### Self-paced training

- > [Microsoft Learn](#)

### Instructor-led training

- > [Course AZ-305: Designing Microsoft Azure Infrastructure Solutions](#)

### Virtual events

- > [Microsoft Azure Virtual Training Day: Well-Architected](#)

## Build confidence

### Exam preparation

- > [Exam Readiness Zone](#)

### Take a practice exam

- > [Practice Assessment on Microsoft Learn AZ-305](#)

### Skills measured:

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

## Get recognized

- > Pass [Exam AZ-305](#) to earn this certification.



Microsoft Certified:  
[Azure Solutions Architect Expert](#)

Azure solution architects design cloud and hybrid solutions that run on Microsoft Azure, including compute, network, storage, monitoring, and security.

### Products featured

- Microsoft Azure



# The journey to Microsoft Certified: Azure for SAP Workloads Specialty

Get started at  
[aka.ms/AzureCerts\\_SAPWorkloads](https://aka.ms/AzureCerts_SAPWorkloads)



## Start here

Decide if this is the right certification for you

## Get trained

### 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.

- > **Exam study guide**
  - > [AZ-120](#)
- > **Self-paced training**
  - > [Microsoft Learn](#)
- > **Instructor-led training**
  - > [Course AZ-120: Planning and Administering Microsoft 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](#).

### Need to update your skills in Azure architecture?

Choose [Azure solutions architect training](#).

## Build confidence

- > **Exam preparation**
  - > [Exam Readiness Zone](#)
- > **Take a practice exam**
  - > [Microsoft Official Practice Test AZ-120](#)
- Skills measured:**
  - Migrate SAP workloads to Azure
  - Design and implement an infrastructure to support SAP workloads on Azure
  - Design and implement high availability and disaster recovery (HA/DR)
  - Maintain SAP workloads on Azure

## Get recognized

- > Pass [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 initial migration or integration and the long-term operation of an SAP solution on Microsoft Azure.

### Products featured

- Microsoft Azure

# The journey to Microsoft Certified: Azure Virtual Desktop Specialty

Get started at  
[aka.ms/AzureCerts\\_VirtualDesktop](https://aka.ms/AzureCerts_VirtualDesktop)



## 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.

First, make sure your skills are up to date.

### Need to update your skills in Azure administration?

Choose [Azure administrator training](#).

## Get trained

### Exam study guide

- > [AZ-140](#)

### Self-paced training

- > [Microsoft Learn](#)

### Instructor-led training

- > [Course AZ-140: Configuring and Operating Microsoft Azure Virtual Desktop](#)

### Virtual events

- > [Microsoft Azure Virtual Training Day: Azure Virtual Desktop](#)

## Build confidence

### Exam preparation

- > [Exam Readiness Zone](#)

### Take a practice exam

- > [Practice Assessment on Microsoft Learn AZ-140](#)

### Skills measured:

- Plan and implement an Azure Virtual Desktop infrastructure
- Plan and implement identity and security
- Plan and implement user environments and apps
- Monitor and maintain an Azure Virtual Desktop infrastructure

## Get recognized

- > Pass [Exam AZ-140](#) to earn this certification.



Microsoft Certified:  
[Azure Virtual Desktop Specialty](#)

Administrators for Azure Virtual Desktop design, implement, manage, and maintain Microsoft Azure Virtual Desktop experiences and remote apps for any device.

### 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

## Get trained

## Build confidence

## Get recognized

### 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.](#)

### Exam study guide

- > [AZ-204](#)

### Self-paced training

- > [Microsoft Learn](#)

### Instructor-led training

- > [Course AZ-204: Developing solutions for Microsoft Azure](#)

### Exam preparation

- > [Exam Readiness Zone](#)

### Take a practice exam

- > [Practice Assessment on Microsoft Learn AZ-204](#)

### 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

- > Pass [Exam AZ-204](#) to earn this certification.



Microsoft Certified:  
[Azure Developer Associate](#)

Azure developers participate in all phases of development from requirements definition and design to development, deployment, and maintenance.

### Products featured

- Microsoft Azure

# The journey to Microsoft Certified: DevOps Engineer Expert

Get started at  
[aka.ms/AzureCerts\\_DevOpsEngineer](https://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.

### Prerequisite

#### Certification option 1

- [Azure Administrator Associate](#)

OR

#### Certification option 2

- [Azure Developer Associate](#)

## Get trained

### Exam study guide

- > [AZ-400](#)

### Self-paced training

- > [Microsoft Learn](#)

### Instructor-led training

- > [Course AZ-400: Designing and Implementing Microsoft DevOps solutions](#)

### Virtual events

- > [Microsoft Azure Virtual Training Day: DevOps with GitHub](#)

## Build confidence

### Exam preparation

- > [Exam Readiness Zone](#)

### Take a practice exam

- > [Practice Assessment on Microsoft Learn AZ-400](#)

### 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

## Get recognized

- > Pass [Exam AZ-400](#) to earn this certification.



Microsoft Certified:  
[DevOps Engineer Expert](#)

DevOps engineers work with people, processes, and products to enable continuous delivery of value in organizations.

### Products featured

- Microsoft Azure

# The journey to Microsoft Certified: Azure Database Administrator Associate

Get started at  
[aka.ms/AzureCerts\\_DatabaseAdmin](https://aka.ms/AzureCerts_DatabaseAdmin)



## Start here

Decide if this is the right certification for you

## Get trained

## Build confidence

## Get recognized

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

- Management, availability, security, and performance monitoring and optimization of database solutions.
- Evaluating and implementing migration strategies for moving databases to Azure.

### 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

### Exam study guide

- > [DP-300](#)

### Self-paced training

- > [Microsoft Learn](#)

### Instructor-led training

- > [Course DP-300: Administering Microsoft Azure SQL Solutions](#)

### Virtual events

- > [Microsoft Azure Virtual Training Day: Migrating On-Premises Infrastructure and Data](#)

### Brand new? First, master the basics.

**New to data solutions on Azure?**  
[Choose Azure data fundamentals training.](#)

### Exam preparation

- > [Exam Readiness Zone](#)

### Take a practice exam

- > [Practice Assessment on Microsoft Learn DP-300](#)

### Skills measured:

- Plan and implement data platform resources
- Implement a secure environment
- Monitor, configure, and optimize database resources
- Configure and manage automation of tasks
- Plan and configure a high availability and disaster recovery (HA/DR) environment

- > Pass [Exam DP-300](#) to earn this certification.



Microsoft Certified:  
[Azure Database Administrator Associate](#)

Azure database administrators implement and manage the operational aspects of cloud-native and hybrid data platform solutions built with Microsoft SQL Server and Microsoft Azure Data Services.

### Products featured

- Microsoft Azure
- Microsoft SQL Server

# The journey to Microsoft Certified: Azure Data Engineer Associate

Get started at  
[aka.ms/AzureCerts DataEngineer](https://aka.ms/AzureCerts>DataEngineer)



## Start here

Decide if this is the right certification for you

## Get trained

### 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.

### OR

### If you already have or were working toward this certification:

- MCSA: Data Engineering with Azure

### Brand new? First, master the basics.

**New to data solutions on Azure?**  
[Choose Azure data fundamentals training.](#)

### Exam study guide

- > [DP-203](#)

### Self-paced training

- > [Microsoft Learn](#)

### Instructor-led training

- > [Course DP-203: Data Engineering on Microsoft Azure](#)

### Virtual events

- > [Microsoft Azure Virtual Training Day: Deliver Integrated Analytics with Azure Synapse](#)

## Build confidence

### Exam preparation

- > [Exam Readiness Zone](#)

### Take a practice exam

- > [Practice Assessment on Microsoft Learn DP-203](#)

### 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

## Get recognized

- > Pass [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

## Apply skills

- > [Cloud Games on Microsoft Learn: Data Feeds](#)

# The journey to Microsoft Certified: Azure Enterprise Data Analyst Associate

Get started at  
[aka.ms/AzureCerts\\_EnterpriseDataAnalyst](https://aka.ms/AzureCerts_EnterpriseDataAnalyst)



## Start here

Decide if this is the right certification for you

## Get trained

## Build confidence

## Get recognized

## Apply skills

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

- Performing advanced data analytics at scale, such as cleaning and transforming data, designing and building enterprise data models, incorporating advanced analytics capabilities, integrating with IT infrastructure, and applying development lifecycle practices.
- Helping collect enterprise-level requirements for data analytics solutions that include Azure and Microsoft Power BI.
- Advising on data governance and configuration settings for Power BI administration, monitor data usage, and optimize performance of the data analytics solutions.

**Brand new? First, master the basics.**

**New to data solutions on Azure?**  
[Choose Azure data fundamentals training.](#)

### Exam study guide

- > [DP-500](#)

### Self-paced training

- > [Microsoft Learn](#)

### Instructor-led training

- > [Course DP-500: Designing and Implementing Enterprise-Scale Analytics Solutions Using Microsoft Azure and Microsoft Power BI](#)

### Virtual events

- > [Microsoft Azure Virtual Training Day: Deliver Integrated Analytics with Azure Synapse](#)

**Make sure your skills are up to date.**

**Need to update your skills in data analytics?**  
[Choose Microsoft Power BI data analyst training.](#)

### Exam preparation

- > [Exam Readiness Zone](#)

### Take a practice exam

- > [Microsoft Official Practice Test DP-500](#)

### Skills measured:

- Implement and manage a data analytics environment
- Query and transform data
- Implement and manage data models
- Explore and visualize data

- > Pass [Exam DP-500](#) to earn this certification.



Microsoft Certified:  
[Azure Enterprise Data Analyst Associate](#)

Azure Enterprise data analysts design, create, and deploy enterprise-scale data analytics solutions.

### Products featured

- Microsoft Power BI

# The journey to Microsoft Certified: Azure Cosmos DB Developer Specialty

Get started at  
[aka.ms/AzureCerts\\_CosmosDBDeveloper](https://aka.ms/AzureCerts_CosmosDBDeveloper)



## Start here

Decide if this is the right certification for you

### 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, and optimizing and maintaining the solution.
- Designing, implementing, and monitoring solutions that consider security, availability, resilience, and performance requirements.

**Brand new? First, master the basics.**

**New to data solutions on Azure?**

[Choose Azure data fundamentals training.](#)

## Get trained

### Exam study guide

- > [DP-420](#)

### Self-paced training

- > [Microsoft Learn](#)

### Instructor-led training

- > [Course DP-420: Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB](#)

### Virtual events

- > [Microsoft Azure Virtual Training Day: Cloud-Native Apps](#)

## Build confidence

### Exam preparation

- > [Exam Readiness Zone](#)

### Take a practice exam

- > [Microsoft Official Practice Test DP-420](#)

### 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

## Get recognized

- > Pass [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



# 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

### 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.

**Brand new? First, master the basics.**

**New to AI or AI on Azure?**

[Choose Azure AI fundamentals training.](#)

## Get trained

### Exam study guide

- > [AI-102](#)

### Self-paced training

- > [Microsoft Learn](#)

### Instructor-led training

- > [Course AI-102: Designing and Implementing a Microsoft Azure AI Solution \(4 days\)](#)

## Build confidence

### Exam preparation

- > [Exam Readiness Zone](#)

### Take a practice exam

- > [Practice Assessment on Microsoft Learn AI-102](#)

### 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

## Get recognized

- > Pass [Exam AI-102](#) to earn this certification.



Microsoft Certified:  
[Azure AI Engineer Associate](#)

Azure AI engineers build, manage, and deploy AI solutions that leverage Azure Cognitive Services and Azure Applied AI services.

### Products featured

- Microsoft Azure

# The journey to Microsoft Certified: Azure Data Scientist Associate

Get started at  
[aka.ms/AzureCerts DataScientist](https://aka.ms/AzureCerts>DataScientist)



## Start here

Decide if this is the right certification for you

### 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.

**Brand new? First, master the basics.**

**New to AI or AI on Azure?**

[Choose Azure AI fundamentals training.](#)

## Get trained

### Exam study guide

- > [DP-100](#)

### Self-paced training

- > [Microsoft Learn](#)

### Instructor-led training

- > [Course DP-100: Designing and Implementing a Data](#)
- > [Course DP-090: Implementing a Machine Learning Solution with Microsoft Azure Databricks](#)

## Build confidence

### Exam preparation

- > [Exam Readiness Zone](#)

### Take a practice exam

- > [Practice Assessment on Microsoft Learn DP-100](#)

### Skills measured:

- Design and prepare a machine learning solution
- Explore data and train models
- Prepare a model for deployment
- Deploy and retrain a model

## Get recognized

- > Pass [Exam DP-100](#) to earn this certification.



Microsoft Certified:  
[Azure Data Scientist Associate](#)

Azure data scientists apply data science and machine learning to implement and run machine learning workloads on Azure.

### Products featured

- Microsoft Azure

## Apply skills

- > [Cloud Games on Microsoft Learn: Data Feeds](#)

# Resources



› Microsoft Learn  
[Microsoft.com/Learn](https://Microsoft.com/Learn)

› Practice Assessments on  
Microsoft Learn  
<https://aka.ms/practiceassessments>

› Azure certifications poster  
[aka.ms/AzureCerts\\_Poster](https://aka.ms/AzureCerts_Poster)

› Microsoft Learning Partners  
[aka.ms/LearningPartners](https://aka.ms/LearningPartners)

› Microsoft Learn support  
[aka.ms/LearnFAQ](https://aka.ms/LearnFAQ)

› Certification support  
[aka.ms/MCPForum](https://aka.ms/MCPForum)

## Stay connected

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# Microsoft Learn

## Spark possibility