

This Azure learning journey is designed for **Solution Architects** defining the design and implementation of technology solutions in Microsoft Azure. Using the understanding of an organization's business requirements and developer capabilities, these IT professionals use building blocks of different technology components to create robust, optimized architectures.

This guide maps out your itinerary for deepening your Azure knowledge, drawing on a wide array of Microsoft resources. You'll begin by diving into the fundamental concepts of Microsoft Azure, explore core solutions, then move on to solution design principles,

including security and compliance. Finally, you'll discover deployment tools and methods to help bring your solution architectures to life. These modules are designed to be completed in order, step by step, as outlined in this guide.

Travel at your own pace—and then continue your Azure exploration with ongoing learning opportunities, including further training, blog updates, videos, events, and connecting with technical communities. Take the first step toward your Azure destination today.

## **Learning topics**

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- 9 Deploy your Azure solution
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# Start with the fundamentals of Microsoft Azure

In this section, you'll learn about the foundational concepts of cloud computing and gain an overview of Azure services.



Microsoft Azure fundamentals	In this free six-part series, you'll explore basic cloud concepts, gain an overview of many Azure services, and participate in hands-on exercises to deploy your very first services.	9 HRS.	SELF-PACED LEARNING
Within this learning path, the self-learn most important for the <b>Solution Archi</b>			
Fundamental Azure concepts	Explore the different types of cloud computing and the advantages of using cloud computing services.	25 MINS.	SELF-PACED LEARNING
Core Azure architectural components	Discover the core concepts, resources, and terminology you need to work with Azure services.	30 MINS.	SELF-PACED LEARNING
Azure cost management and service level agreements (SLAs)	Learn about the factors that influence cost, tools for estimating and managing your cloud spend, and how Azure's SLAs can influence your design decisions.	1 HOUR 10 MINS.	SELF-PACED LEARNING
Privacy, compliance and data protection standards	Explore Microsoft's commitment to privacy and how Azure adheres to common regulatory and compliance standards.	30 MINS.	SELF-PACED LEARNING
Microsoft Certified: Azure Fundamentals	Demonstrate your knowledge of cloud concepts and Azure services, workloads, security, privacy, pricing, and support.		CERTIFICATION



## **Explore Azure solutions**

Azure offers a wide variety of services, but most organizations will start with those related to identity, compute, networking, storage, and data. Learn about these foundational services, as well as process automation, containers, Al, and Internet of Things (IoT).



Azure Active Directory	Gain an overview of the Azure Active Directory identity service, which manages access to Microsoft 365, Azure, and more.	10 MINS.	ARTICLE
Design authentication and authorization solutions	Explore the services available for internal and external identity and access management, including identity protection capabilities.	40 MINS.	SELF-PACED LEARNING
Implement Microsoft identity	Find out how to utilize Microsoft identity in your custom applications, including the OAuth 2.0 protocol and custom APIs.	6 HOURS	SELF-PACED LEARNING
Virtual machines in Azure	Explore the available sizes and options for Windows and Linux virtual machines in Azure.	10 MINS.	ARTICLE
Azure networking services overview	Increase your knowledge about the key capabilities of Azure networking services.	10 MINS.	ARTICLE
Azure networking	Dive deeper into technical demonstrations of specific Azure networking capabilities, including Virtual WAN, load balancing, and hybrid connectivity.		VIDEOS
Design infrastructure solutions	Learn how to design and recommend compute solutions, application architecture, network solutions, and migrations to Azure.	2 HOURS	SELF-PACED LEARNING





Design data storage solutions	Discover data storage solutions for relational data, non-relational data, and data integration.	1.5 HOURS	SELF-PACED LEARNING
Azure Stack HCI foundations	Learn about the Azure Stack portfolio and the basic architecture, core capabilities, and primary use cases.	3 HOURS	SELF-PACED LEARNING
Automate your business processes	Learn how to choose the right Azure service for integration and process automation.	45 MINS.	SELF-PACED LEARNING
Administer containers in Azure	Learn about Azure's container solutions, including Azure Container Instances, Azure Container Registry, Azure Kubernetes Service, and support for Docker containers.	5 HOURS	SELF-PACED LEARNING
Al strategy and solutions	Understand Azure's tools and services for Al and machine learning.	1 HOUR	SELF-PACED LEARNING
Azure IoT	Explore Azure's solutions for IoT devices.	3 MINS.	ARTICLE



# Discover solution design principles

Now that you know more about Azure services, increase your knowledge of relevant solution design principles. In this section, you'll find case studies, architecture frameworks, design approaches, and more.



Azure case studies	Get inspired by real customer examples of Azure capabilities in action.		CASE STUDIES
Azure Cloud Adoption Framework	Learn how to plan and implement business and technology strategies in the cloud.	30 MINS.	ARTICLE
Azure Well-Architected Framework	Discover principles for architecting high-quality, stable, and efficient cloud workloads.	40 MINS.	ARTICLE
Well-Architected: The Backstage Tour	Go behind the scenes of Azure to learn how we power reliability, security, cost optimization, operational excellence, and performance efficiency.	1.5 HOURS	VIDEOS
Azure Architecture Center	Explore best practices and patterns for building applications on Microsoft Azure and across Microsoft cloud platforms.		RESOURCES
Azure application architecture undamentals	Study a structured approach for designing applications on Azure that are scalable, secure, resilient, and highly available.	5 MINS.	ARTICLE
Cloud design patterns	Discover design patterns useful for building reliable, secure applications in the cloud.	5 MINS.	ARTICLE
Design principles for Azure applications	Explore the 10 design principles to make your Azure applications scalable, resilient, and manageable.	2 MINS.	ARTICLE
Design an application architecture	Learn more about designing and recommending application architectures, including messaging and event-driven scenarios.	30 MINS.	SELF-PACED LEAR







Design for high availability and business continuity	Explore solutions for high availability, backup, and disaster recovery.	1 HOUR	SELF-PACED LEARNING
Availability options for Azure VMs	Find out how to design solutions using replicated VMs in zones to protect your apps and data from the loss of a datacenter.	5 MINS.	ARTICLE
Azure reference architectures	Browse architecture diagrams and technology descriptions for reference architectures, real-world examples of cloud architectures, and solution ideas for common workloads on Azure.		DIAGRAMS
Cost management best practices	Explore this methodical approach to cost management, with tools and principles to optimize your investment in Azure.	10 MINS.	ARTICLE
Azure pricing calculator	Calculate estimated costs for your Azure solutions.		TOOL
Azure Total Cost of Ownership (TCO) calculator	Estimate the cost savings of migrating workloads to Azure.		TOOL
Microsoft Certified: Azure Solutions Architect Expert	Demonstrate your knowledge of designing cloud and hybrid solutions that run on Microsoft Azure, including compute, network, storage, monitoring, and security.		CERTIFICATION







Describe the capabilities of Microsoft's security solutions	Find out about Security, Identity, and Compliance fundamentals of Azure, as well as security tools in Azure and Microsoft 365.	1 HOUR 40 MINS.	SELF-PACED LEARNING
Microsoft Cybersecurity Reference Architecture	Browse reference architecture diagrams that describe how Microsoft security capabilities integrate with both Microsoft platforms and third-party platforms and apps.	5 MINS.	ARTICLE
Security best practices for Azure solutions	Explore security best practices to use when you're designing, deploying, and managing your Azure cloud resources.	50 MINS.	WHITE PAPER
Azure Security Benchmark introduction	Discover recommendations for quickly reducing your organization's security risks.	10 MINS.	ARTICLE
Build a cloud governance strategy	Learn how to make organizational decisions about your cloud environment's configuration and enforce them with Azure's governance features and services.	50 MINS.	SELF-PACED LEARNING
Microsoft Trust Center	Find comprehensive resources explaining Microsoft's approach to privacy and compliance.		RESOURCES
Managing compliance in the cloud	Explore resources for compliance practitioners, including regional and industry regulations.		RESOURCES
Microsoft Security resources	Learn how to build Zero Trust security principles into your solutions across devices, identities, applications, and data.		RESOURCES
Microsoft Security	Explore technical demonstrations of Microsoft's security, compliance, and identity and access management capabilities.		VIDEOS





## **Deploy your Azure solution**

Consider how your solution will be deployed and maintained with Azure tools, processes, and templates.



Get started with Azure PowerShell	Learn the core PowerShell commands for Azure and try them in your own Azure environment.	5 MINS.	INTERACTIVE LEARNING
Fundamentals of Bicep	Try out Azure's Bicep language for deploying infrastructure-as-code.	3 HRS	SELF-PACED LEARNING
All around Azure: DevOps with GitHub	Learn about DevOps principles such as source control, continuous integration, and continuous delivery with Azure DevOps and GitHub.	1.5 HOURS	VIDEOS
Get started with Azure DevOps	Discover how you can build, test, and deploy any application, either to the cloud or on premises, with Azure DevOps.	2 HRS	SELF-PACED LEARNING
Azure landing zones	Find out how to deploy conceptual Azure architectures as code.	5 MINS.	ARTICLE
Azure Quickstart templates	Browse community-contributed templates to help you quickly deploy Azure resources	5 MINS.	TEMPLATES
Azure Migrate	Gain an overview of Azure's centralized hub for assessing and migrating on-premises servers, infrastructure, applications, and data to Azure.	5 MINS.	ARTICLE





#### **Trial**

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### **Training**



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## **Blogs**



#### Microsoft Azure blog

The latest news and announcements direct from Azure product teams.

**BLOG** 

#### Azure DevOps blog

DevOps, Git, and Agile updates from the team building Azure DevOps.

**BLOG** 

#### **Documentation**



#### **Azure documentation**

Learn how to build and manage powerful infrastructure and applications using Microsoft Azure cloud services. Get documentation, example code, tutorials, and more.

**RESOURCES** 

#### **Azure updates**

Stay informed on the latest product features.

**RESOURCES** 

## Stay connected



#### Microsoft events

Special events and virtual training days to help you expand your expertise, learn new skills, and build community.

**EVENTS** 

#### **Azure community**

Your community for best practices and the latest news on Azure.

**FORUMS** 

