

This Azure learning journey is designed for two different types of explorers:

- Systems administrators just beginning their careers in the cloud. These IT professionals manage the configuration, performance, and security of Windows Server environments on-premises or operate, protect, and monitor cloud workloads. This includes IT Managers looking to enhance their existing on-premises systems with the hybrid benefits of cloud capabilities.
- Students who are just getting started learning about Azure.

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 cloud computing and Azure core infrastructure services, then move on to management, monitoring, security, and compliance. 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 ranging from blog updates, videos, and events to connect with technical communities. Take the first step toward your Azure destination today.

Learning topics

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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.



Azure fundamentals	In this free six-part series, you'll explore basic cloud concepts, gain	9 HRS.	SELF-LEARNING
Azare fandamentais	an overview of many Azure services, and participate in hands-on		
	exercises to deploy your very first services.		

Within this learning path, the self-learning modules that are most important for the **System Administrator** role include:

Fundamental Azure concepts	Explore the advantages of using cloud computing services and the different types of cloud computing.	25 MINS.	SELF-PACED LEARNING
Core Azure architectural components	Discover the core concepts, resources, and terminology that 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 service level agreements can influence your design decisions.	70 MINS.	INTERACTIVE LEARNING
Privacy, compliance, and data protection standards	Find out more about 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



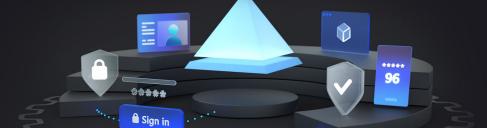
Explore Azure core infrastructure services

Azure offers a variety of services, but most organizations use those related to identity, compute, networking, storage, and data. In this section, you'll learn more about each of these core infrastructure services.



Identity in Azure	Expand your knowledge of why identity is important, and study examples of common identity scenarios.	20 MINS.	SELF-PACED LEARNING
Azure identity services	Learn how Azure Active Directory helps you manage identities and the benefits of features such as single sign-on, multifactor authentication, and Conditional Access.	20 MINS.	SELF-PACED LEARNING
Azure Active Directory	Gain an overview of Azure Active Directory, which manages access to Microsoft 365, Azure, and more.	10 MINS.	ARTICLE
Azure compute services	Find out about the most popular virtualization services in Azure, including Virtual Machines, Containers, and Azure Functions.	55 MINS.	SELF-PACED LEARNING
Windows virtual machines in Azure	Learn about design considerations for running Windows virtual machines in Azure, including availability, sizing, and data residency.	5 MINS.	ARTICLE
Create a Windows virtual machine in Azure	Create, manage, and connect to a Windows virtual machine in Azure with our interactive training environment.	50 MINS.	INTERACTIVE TRAINING
Linux virtual machines in Azure	Gain insight on what you need to consider for running Linux virtual machines in Azure, including managed disks, distributions, and cloud-init.	5 MINS.	ARTICLE
Azure networking services	Explore core networking services in Azure, including secure connectivity with Azure VPN Gateway and Azure ExpressRoute.	40 MINS.	SELF-PACED LEARNING
Azure Storage services	Become familiar with some of the storage options available in Azure and when to use them.	30 MINS.	SELF-PACED LEARNING
Azure database and analytics services	Learn about Azure's database services, and explore big data and analytics.	45 MINS.	SELF-PACED LEARNING
Azure SQL fundamentals	Study deployment options and services for SQL Server on Azure.	45 MINS.	SELF-PACED LEARNING





Manage and monitor your Azure environment

After deploying your new Azure resources, you need to be able to effectively manage and monitor them as well as analyze and control their costs. In this section, you'll learn about cost management principles, systems management and monitoring tools, and how you can use automation to streamline your operations.



Cost management best practices	Follow this methodical approach to cost management with tools and principles to optimize your Azure investment.	10 MINS.	ARTICLE
How to track your costs in Azure	See demonstrations of Azure's cost management and billing tools, including budgets and alert notifications, cost detail analysis and export, and Power BI for custom reports.	1 HOUR	VIDEO
Cost savings and business benefits with Azure Cost Management and Billing	Explore Forrester's Total Economic Impact™ study examining the potential return on investment (ROI) from Azure Cost Management and Billing.	30 MINS.	REPORT
Manage and configure your Azure environment	Become familiar with Azure management, administration, and reporting tools.	30 MINS.	SELF-PACED LEARNING
Get started with Azure PowerShell	Study the core PowerShell commands for Azure and try them in your own Azure environment.	5 MINS.	INTERACTIVE LEARNING
Fundamentals of Bicep	Learn Azure's Bicep language for deploying infrastructure-as-code, and practice in our free learning environment.	3 HRS.	INTERACTIVE LEARNING
Monitoring services	Find out more about Azure's tools for insights into the health and performance of your cloud resources and applications.	25 MINS.	SELF-PACED LEARNING
Azure Monitor	Explore Azure's comprehensive solution for collecting, analyzing, and acting on systems telemetry.	10 MINS.	ARTICLE
Azure Automation	Discover Azure's capabilities for process automation, configuration management, update management, and more.	10 MINS.	ARTICLE





Manage security and compliance

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In this section, you'll learn about the security features and tools available in Azure, from dedicated host servers to secrets storage, security operational monitoring and response, and networking services security. You'll also explore Azure's tools for meeting governance and compliance requirements.



Protect against security threats	Increase your knowledge about how Azure can help you protect systems that you run both in the cloud and in your on-premises datacenter.	25 MINS.	INTERACTIVE LEARNING
Secure network connectivity on Azure	Explore defense in depth and the Azure services that help ensure your network is safe, secure, and trusted.	35 MINS.	INTERACTIVE LEARNING
Build a cloud governance strategy on Azure	Learn how to make organizational decisions about your cloud environment's configuration and enforce them with Azure's governance features and services.	50 MINS.	INTERACTIVE LEARNING
Azure Security Benchmark	Become familiar with our Security Benchmark recommendations for quickly reducing your organization's security risks.	5 MINS.	ARTICLE
Security best practices for Azure solutions	Get to know security best practices for designing, deploying, and managing your Azure cloud resources.	50 MINS.	WHITE PAPER





Plan and deploy your Azure cloud environment

Now that you understand the core concepts of Azure, this section offers an overview of available migration tools as well as frameworks and templates to help you plan and deploy your own cloud environment.



Azure Cloud Adoption	Get guidance to help you plan and implement business and	5 MINS.	ARTICLE
Framework	technology strategies in the cloud.		
Azure Well-Architected Framework	Explore how to architect high quality, stable, and efficient cloud workloads.	40 MINS.	ARTICLE
Azure landing zones	Learn about Azure landing zone best practices and implementation options.	5 MINS.	ARTICLE
Azure Quickstart Templates	Deploy Azure resources quickly with community contributed templates.	5 MINS.	TEMPLATES
Azure Migrate	Learn about a centralized hub for assessing and migrating on- premises servers, infrastructure, applications, and data to Azure.	5 MINS.	ARTICLE





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infrastructure and applications using Microsoft Azure cloud services. Get documentation, example code, tutorials,

ARTICLES

ITOps Talk blog

Processes and solutions for operating your workloads efficiently in the cloud and on-premises, from Microsoft's Modern Infrastructure team.

The latest news and announcements direct from Azure product teams.

BLOG

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