



# Azure Start Learning Checklist by Lacialec

## [Welcome to the Azure Start Learning Checklist version 0.1 by Lacialec!](#)

Embarking on a journey into the cloud can be both exciting and overwhelming. Azure, Microsoft's comprehensive cloud platform, offers a vast array of services and capabilities that cater to every possible computing need. Whether you're an IT professional, developer, or someone curious about cloud technology, getting started with Azure is a step towards mastering the future of technology.

This checklist is designed to guide you through the initial stages of learning Azure, providing a structured path from understanding the basics of cloud computing to exploring Azure's core services and beyond. We've curated a selection of essential topics, resources, and hands-on activities to not only enrich your learning experience but also to empower you with practical skills.

As you progress through this checklist, you'll discover the fundamentals of Azure, including virtual machines, storage options, networking, and security. Each section includes links to specific topics, offering you direct access to the knowledge you need to advance your skills. Whether your goal is to gain a solid foundation in cloud computing, prepare for Azure certifications, or deploy your first cloud project, this checklist is your gateway to success.

Let's embark on this learning journey together, unlocking the potential of Azure and transforming the way we think about technology. Welcome aboard!

- 1. Understand Cloud Computing Basics**
- 2. Get to Know Azure Fundamentals**
- 3. Azure Core Services and Features**
- 4. Security, Privacy, Compliance, and Trust**
- 5. Hands-On Experience**
- 6. Monitor and Manage Azure Resources**
- 7. Developer Tools and DevOps in Azure**
- 8. Prepare for Azure Certifications**

## **1. Understand Cloud Computing Basics**

**Introduction to Cloud Computing:** Begin your Azure journey by exploring the foundational concepts of cloud computing. Understanding these basics is crucial for anyone looking to navigate the cloud landscape efficiently.

- **What Is Cloud Computing?:** Learn about the delivery of computing services—including servers, storage, databases, networking, software, analytics, and intelligence—over the Internet ("the cloud") to offer faster innovation, flexible resources, and economies of scale.
- **Types of Cloud Services (IaaS, PaaS, SaaS):** Understand the differences between Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS), and how each service model provides different levels of control, flexibility, and management.
- **Cloud Deployment Models (Public, Private, Hybrid, Community):** Explore the various cloud deployment models to determine which best suits your learning or organizational needs.

**Objective:** Familiarize yourself with the core principles of cloud computing to build a strong foundation for your Azure learning journey.

- Describe Cloud Computing
- Describe the benefits of using cloud services

[Describe cloud service types](#)

**Microsoft Azure Fundamentals: Describe cloud concepts**

## 2. Get to Know Azure Fundamentals

**Exploring Azure:** Delve into the world of Azure to understand how it stands out as a cloud service provider. This section aims to introduce you to the breadth of services and features that Azure offers.

- **Overview of Azure Services:** Gain insight into the expansive range of services Azure offers, including computing, networking, storage, and databases.
- **Azure Regions and Datacenters:** Learn about Azure's global infrastructure, including how regions and datacenters are organized.
- **Managing Azure Resources and Subscriptions:** Discover how to manage resources, organize them logically, and understand Azure pricing and support plans.

**Objective:** Equip yourself with an understanding of Azure's infrastructure, services, and management tools to navigate the platform confidently.

[What is Azure?](#)

[Explore Azure Products](#)

[Microsoft Datacenters](#)

[Explore Azure Fundamentals](#)

**Get to Know Azure Fundamentals**

## 3. Azure Core Services and Features

**Exploring Azure's Core Services:** Gain a deeper understanding of Azure's essential services. This exploration is crucial for leveraging Azure to its fullest potential in developing scalable and robust applications.

- **Azure Compute Services:** Learn about Azure Virtual Machines, Azure Functions, and Azure Kubernetes Service (AKS) to understand the computing power Azure offers.
- **Azure Storage Solutions:** Discover the options for storing data on Azure, including Blob Storage, Disk Storage, and Azure File Storage.
- **Azure Networking Capabilities:** Get to know Virtual Networks, VPNs, and Load Balancers to design and manage your network architecture.

**Objective:** Understand how to utilize Azure's computing, storage, and networking services to build efficient applications.

- [Explore Azure Compute Services](#)
- [Explore Azure Storage Solutions](#)
- [Explore Azure Networking Capabilities](#)
  
- Azure Core Services and Features**

#### 4. Security, Privacy, Compliance, and Trust

**Securing Azure Resources:** Azure provides a suite of security tools and features that ensure your resources are protected and compliant with global standards.

- **Microsoft Defender for Cloud:** Learn how to enhance the security of your Azure resources.
- **Privacy and Compliance:** Understand Azure's compliance documentation and privacy standards.
- **Azure Identity Services:** Secure access to your applications with Azure Active Directory and other identity services.

**Objective:** Master the best practices for securing your Azure resources, ensuring privacy, and meeting compliance standards.

- [Explore Microsoft Defender for Cloud](#)
- [Privacy and Compliance on Azure](#)

[Explore Azure Identity Services](#)

**Security, Privacy, Compliance, and Trust**

## 5. Hands-On Experience

**Getting Started with Azure:** Practical experience is key to understanding how Azure services work together.

- **Create Your Azure Free Account:** Begin by setting up your account to start experimenting.
- **Navigate the Azure Portal:** Familiarize yourself with the interface and functionalities of the Azure portal.
- **Deploy Your First Resource:** Apply your knowledge by deploying a resource, such as a virtual machine.

**Objective:** Apply theoretical knowledge through hands-on practice, reinforcing your understanding of Azure services.

[Create a Free Azure Account](#)

[Tour the Azure Portal](#)

[Deploy Azure Virtual Machine](#)

**Hands-On Experience**

## 6. Monitor and Manage Azure Resources

**Optimizing Resource Management:** Learn the tools and practices for effectively monitoring and managing your Azure environment.

- **Azure Monitor and Insights:** Track performance and health metrics across Azure services.
- **Azure Advisor:** Utilize personalized recommendations to optimize your Azure deployments.

**Objective:** Utilize Azure's management tools to maintain optimal performance and cost efficiency of your resources.

- [Explore Azure Monitor](#)
- [Get Started with Azure Advisor](#)
  
- Monitor and Manage Azure Resources**

## 7. Developer Tools and DevOps in Azure

**Streamlining Development with Azure:** Discover the tools and practices that support agile development and operations.

- **Azure DevOps Services:** Explore how to automate CI/CD pipelines and manage code repositories.
- **Infrastructure as Code (IaC):** Implement consistent and repeatable environments with ARM templates and Terraform.

**Objective:** Leverage Azure's developer tools and DevOps practices for efficient application development and deployment.

- [Learn about Azure DevOps](#)
- [Automate Infrastructure Deployments](#)

Tip : Install Visual Studio Code 🖱️ [Visual Studio Code](#)

- Developer Tools and DevOps in Azure**

## 8. Prepare for Azure Certifications

**Validating Your Azure Knowledge:** Certifications are a great way to demonstrate your Azure expertise to employers and peers.

- **Explore Azure Certifications:** Identify the certification that aligns with your goals, such as the Azure Fundamentals (AZ-900) exam.

- **Certification Prep Resources:** Utilize study guides, practice tests, and Microsoft Learn paths to prepare for your exam.

**Objective:** Prepare for and achieve Azure certifications to validate your cloud computing skills and advance your career.

[Azure Certifications Overview](#)

[Prepare for the AZ-900 Exam](#)

**Prepare for Azure Certifications**



I am still learning. (at age 87)

~ Michelangelo



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