

.NET Core Full Roadmap 2025

Welcome to the .NET Core Full Roadmap 2025!

This roadmap will guide you from beginner to advanced level, including Azure topics, Git, GitHub, CI/CD Pipelines, and real-world project ideas.

Let's get started!

1. .NET Core Basics

- What is .NET Core?
- Architecture
- Dependency Injection
- Middleware
- AppSettings & Configuration

2. ASP.NET Core MVC / API

- Routing
- Model Binding
- Validation
- Exception Handling
- Swagger API Documentation

3. Entity Framework Core

- Code First Approach
- Migrations
- Repository Pattern
- LINQ Queries
- Lazy & Eager Loading

4. Authentication & Authorization

- JWT Authentication
- Role-Based Authorization
- Policy-Based Authorization
- ASP.NET Identity

5. Azure Integration

- Azure App Services
- Azure Blob Storage
- Azure Functions
- Azure Key Vault
- CI/CD Pipeline with Azure DevOps

6. Git + GitHub

- Version Control Basics
- Push, Pull, Merge
- Branching Strategy
- Pull Requests
- GitHub Actions

7. Real-World Projects

- E-Commerce API
- Blog Management System
- Real-Time Chat App (SignalR)
- Azure File Upload Service
- JWT Auth API

8. Best Practices

- Clean Architecture

- SOLID Principles
- Global Exception Handling
- Caching with Redis
- Unit Testing

9. Interview Preparation

- Top 50 .NET Core Questions
- Azure Fundamentals
- Git + DevOps Questions

10. Learning Resources

- Microsoft Docs
- YouTube Channels
- Udemy Courses
- GitHub Projects

Keep Learning, Keep Growing!

Best of Luck for your AZ-204 journey!