



KanaiyaKatarmal



Mastering .NET Core: 25 Interview Questions from Easy to Hard

25 Interview Questions

Easy to Hard



Easy

- What is .NET Core, and how does it differ from the .NET Framework?
- How do you create a new Web API project in .NET Core?
- What are middleware components in .NET Core?
- What is dependency injection, and how is it built into .NET Core?
- How do you configure appsettings.json in .NET Core?
- What is the difference between IActionResult and ActionResult<T> in controllers?
- How do you enable Swagger in a .NET Core Web API?



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● Intermediate (7)

- Explain the difference between transient, scoped, and singleton lifetimes in dependency injection.
- How do you implement logging in .NET Core applications?
- What are filters in ASP.NET Core MVC, and when would you use them?
- How do you implement global exception handling in .NET Core?
- What is the purpose of the Startup.cs (or Program.cs in .NET 6+)?
- How do you implement authentication and authorization in .NET Core APIs?
- Explain the difference between Kestrel and IIS in hosting .NET Core apps



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● Advanced (6)

- How do you configure health checks in .NET Core microservices?
- Explain the Circuit Breaker and Retry patterns in resilient APIs.
- How does the IHostedService interface work, and when would you use it?
- What is the difference between minimal APIs and traditional controllers?
- How do you implement caching (in-memory, distributed, or response caching) in .NET Core?
- Explain how EF Core handles migrations and database seeding.



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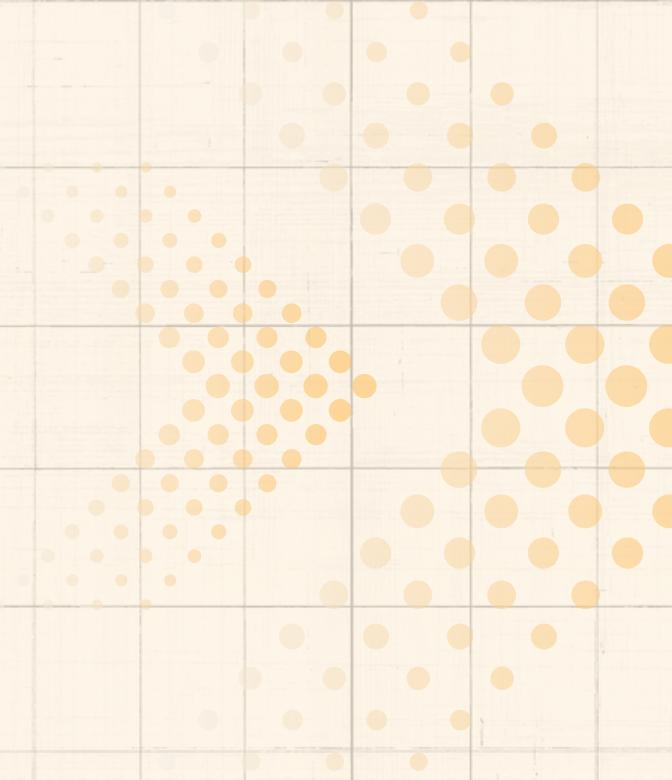
● Advanced (5)

- What are gRPC services, and how do they integrate with .NET Core?
- How do you containerize a .NET Core API with Docker?
- Explain the concept of background services using `BackgroundService` in .NET Core.
- How do you secure .NET Core APIs using JWT and IdentityServer?
- What strategies do you use for scaling and load balancing .NET Core applications in production?



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