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**Q11: What do you understand
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Development*?**

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**Q14: What is Domain Driven
Design?**

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**Q15: Why is it a good idea for
“lower” application layers not to
be aware of “higher”
ones?**

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Q17: What is Domain in DDD? Related To: DDD

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Q18: In OOP, what is the difference between the Repository Pattern and a Service Layer? Related To: ASP.NET, ASP.NET MVC, Design Patterns, ASP.NET Web API

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Q19: Is Unit Of Work equals Transaction? Or it is more than that? Related To: Design Patterns

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Q20: Explain the Single Responsibility Principle (SRP)?

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Q21: What is difference between Fault Tolerance and Fault Resilience?

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Q22: What is the difference between Concurrency and Parallelism? Related To: Concurrency

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Q23: What does program to interfaces, not implementations mean? Related To: Design Patterns

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Q24: What is the difference between DTOs and ViewModels in DDD? Related To: DDD

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Q25: What Is Load Balancing Fail Over? Related To: Load Balancing

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Q26: What are the DRY and DIE

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Q28: Is it better to return NULL or empty values from functions/methods where the return value is not present?

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Q29: Name some Performance Testing metrics to measure Related To: Software Testing

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Q30: "People who like this also like... ". How would you implement this feature in an e-commerce shop?

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Q31: How can you keep one copy of your utility code and let multiple consumer components use and deploy it?

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Q32: Name some Performance Testing best practices Related To: Software Testing

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Q33: Name some benefits of CQRS Pattern Related To: DDD, Design Patterns

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Q34: Describe what is the Event Sourcing Pattern Related To: DDD, Design Patterns

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Q35: Explain what is Interface Segregation Principle (ISP) in Clean Architecture and what are some of its benefits? Related To: Clean Architecture

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Q38: What Is Session Replication?

Q39: What Is Middle Tier Clustering? Related To: Layering & Middleware

Q40: How Do you update a live heavy traffic site with minimum or Zero Down Time? Related To: Availability & Reliability, DevOps

Q41: What Is ACID Property Of A System? Related To: Databases

Q42: What Is Sticky Session Load Balancing? What Do You Mean By "Session Affinity"? Related To: Load Balancing

Q43: Explain the purpose of Clean Architecture *Inner* and *Outer* layers Related To: Clean Architecture, Layering & Middleware

Q44: What is Back-Pressure? Related To: Availability & Reliability

Q45: What is Elasticity (in

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Q46: What Do You Mean By High Availability (HA)? Related To: Availability & Reliability

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Q47: What is the Command and Query Responsibility Segregation (CQRS) Pattern? Related To: DDD, Design Patterns

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Q48: What is the difference between the Clean and the N-Tier Architectures? Related To: Clean Architecture

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Q49: What is the difference between Behavior-Driven Development (BDD) vs Domain-Driven Design (DDD)? Related To: DDD

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Q50: What does it mean "System Shall Be Resilient"? Related To: Availability & Reliability

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Q51: What is Bad Design?

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Q52: Compare Onion vs Clean vs Hexagonal Architectures Related To: Clean Architecture

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Senior

Q53: What is relationship between Repository and Unit of Work? Related To: Design Patterns, Entity Framework

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Q54: What is Unit test, Integration Test, Smoke test,



Testing

Q55: How do you off load work from the Database? Related To: Databases

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Q56: Explain what is Cache Stampede Related To: Caching

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Q57: Compare "Fail Fast" vs "Robust" approaches of building software Related To: Availability & Reliability

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Q58: What will you choose: Repository Pattern or "smart" business objects? Related To:

Design Patterns

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Q59: Is Repository Pattern as same as Active Record Pattern? Related To: Design Patterns

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Q60: How should I be grouping my Repositories when using Repository Pattern? Related To: Design Patterns

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Q61: What is the Dependency Inversion Principle (DIP) and why is it important? Related To: Dependency Injection

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Q62: What is GOD class and why should we avoid it?

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Q63: Two customers add a product to the basket in the



Q64: Explain Failure in contrast to Error Related To:

Availability & Reliability

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Q65: Provide Definition Of Location Transparency

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Q66: What Is Sharding? Related To: Databases

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Q67: Why layering your application is important? Provide some bad layering example. Related To: Layering &

Middleware

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Q68: What's the difference between principles YAGNI and KISS?

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Q69: Why should you structure your solution by components? Related To: Layering & Middleware

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Q70: What is BASE property of a system? Related To: Databases, NoSQL

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Q71: Defend the monolithic architecture.

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Q72: How to handle exceptions in a layered application? Related To: Layering & Middleware

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Q73: Why should I isolate my



Q74: What is actor model in context of a programming language?

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Q75: What Is IP Address Affinity Technique For Load Balancing? Related To: Load

Balancing

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Q78: What does Amdahl's Law mean? Related To: Reactive

Systems

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Q80: Can we use the CQRS without the Event Sourcing? Related To: DDD, Design Patterns

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Q81: What is the difference between Cohesion and Coupling? Related To: Microservices

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Q82: What Is Shared Nothing Architecture? How Does It Scale?

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Q84: Where DTO should be implemented, in a *Domain Layer* or in an *Application Service Layer*? Explain. Related

To: DDD, Layering & Middleware



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Q85: What are heuristic exceptions?



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Q86: What are best practices for caching paginated results whose ordering/properties can change? Related To: Caching



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Q87: Cache miss-storm: Dealing with concurrency when caching invalidates for high-traffic sites Related To:

Caching



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Q88: How do I test a `private` function or a class that has `private` methods, fields or inner classes? Related To: Unit Testing

Testing



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Q89: What Does Eventually Consistent Mean? Related To: Databases



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Code Challenges

Q1: Could you provide an example of the *Single Responsibility Principle*?



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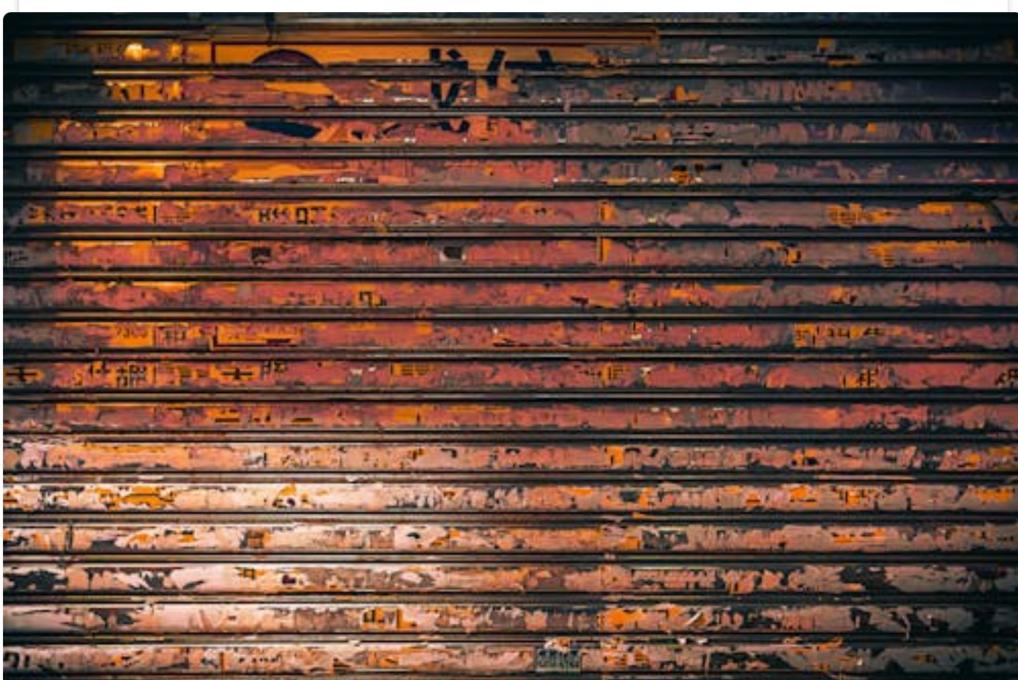


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Top 27 Rust Interview Questions (ANSWERED) For Backend and System Developers

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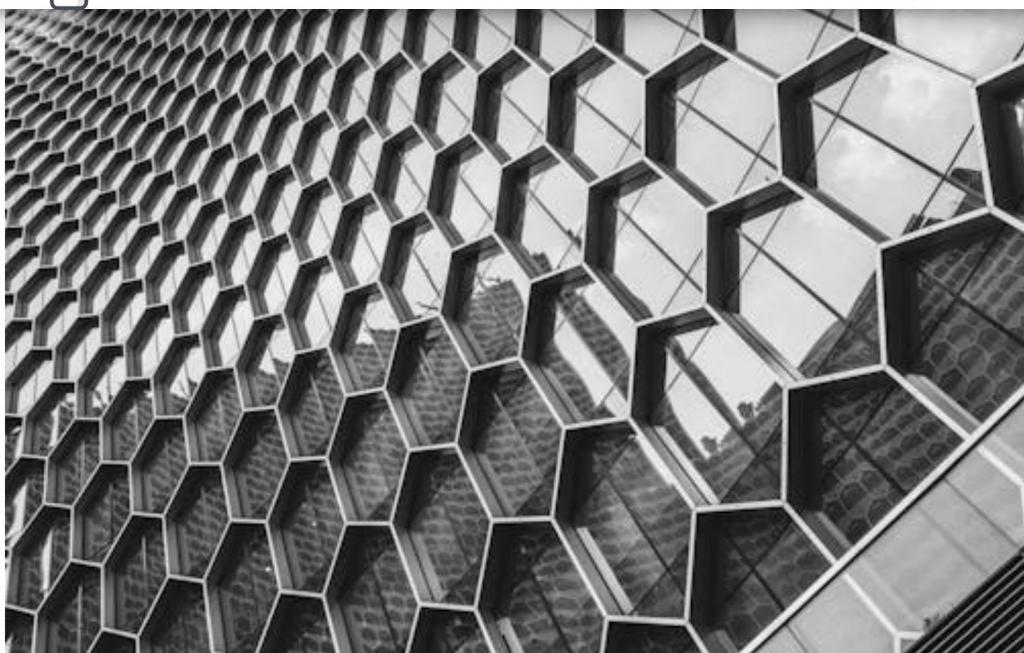


15 Common Clean Architecture Interview Questions (ANSWERED) For Software Architects and Devs

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Clean Architecture provides a clear and modular structure for building software systems, separating business rules from implementation details. It promotes maintainability by allowing for easier updates and changes to specific components without affe...



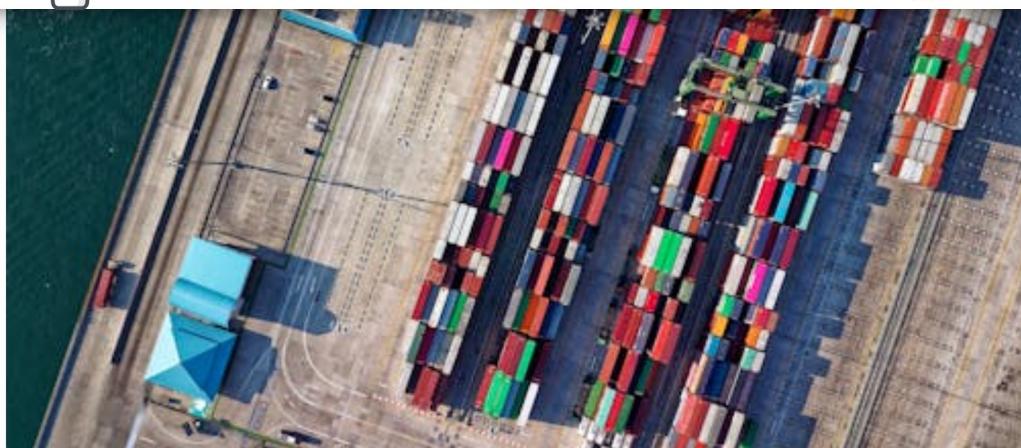
21 Azure Service Bus Interview Questions (SOLVED) For Azure Cloud Developers

✉️ Azure Service Bus 25

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Azure Service Bus is a crucial component for Azure cloud developers as it provides reliable and scalable messaging capabilities. It enables decoupled communication between different components of a distributed system, promoting flexibility and resili...



24 Cosmos DB Interview Questions (EXPLAINED) For Azure Developers

Cosmos DB has gained popularity among developers and organizations across various industries, including finance, e-commerce, gaming, IoT, and more. Follow along and learn the 24 most common and advanced Azure Cosmos DB interview questions and answers...

0 Cosmos DB 46



27 Advanced MongoDB Interview Questions (ANSWERED) For Experienced Developers



model makes it exceptionally easy to add or change fields, among other things. It unlocks Iteration on the project. Iteration f...

MongoDB 77



24 Unit Testing Interview Questions (ANSWERED) For Software Developers

Unit Tests and Test Driven Development (TDD) help you really understand the design of the code you are working on. Instead of writing code to do something, you are starting by outlining all the conditions you are subjecting the code to and what output...

Software Testing 29

Unit Testing 24



35 Domain-Driven Design Interview Questions (ANSWERED) for Software Devs and Architects

Domain-Driven Design is nothing magical but it is crucial to understand the importance of Ubiquitous Language, Domain Modeling, Context Mapping, extracting the Bounded Contexts correctly, designing efficient Aggregates and etc. before your next DDD p...

DDD 38

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Questions ANSWERED, 10

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Azure 59



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Dependency Injection is most useful when you're aiming for code reuse, versatility and robustness to changes in your problem domain. DI is also useful for decoupling your system. DI also allows easier unit testing without having to hit a database and...

Dependency Injection 17

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