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Maghule 1 Մի Path: Deep Dive into System Design Interview

Distributed Systems

Module Overview

This module talks about establishing the basic principles of distributed systems. It explains the scope of their functionality by discussing what distributed systems can and can't achieve. It also covers the basic algorithms and protocols of distributed systems through easy-to-follow examples and diagrams, which illustrate the thinking behind design decisions and expand on how they can be practiced.

Module Objectives

Learn some of the complexities inherent in distributed systems.

Learn the key design problems in distributed systems.

Learn the basic concepts and theorems of distributed systems.

Start Learning

28 Lessons

2 Quizzes

108 Illustrations

Contents (Module 1)

Module 2

1. Introduction to Distributed Systems

Getting Started	
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Fallacies of Distributed Computing	
Difficulties Designing Distributed Systems	
Measures of Correctness in Distributed Systems	
System Models	
Types of Failures	
The Tale of Exactly-Once Semantics	
Fail on in the World of Biotelle (ad 0 of a co	
Failure in the World of Distributed Systems	
Statalogo and Stataful Systems	
Stateless and Stateful Systems	
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Quiz	

2. Basic Concepts and Theorems

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Partitioning	
Algorithms for Horizontal Partitioning	
A significant of the state of t	
Replication	
Порновного	
Cinale Master Deplication Algorithms	
Single-Master Replication Algorithm	
Multi-Master Replication Algorithm	
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Safety Guarantees in Distributed Systems	
ACID Transactions	
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Distributed Systems - Learn Interactively	
The CAP Theorem Consistency Models CAP Theorem's Consistency Model Isolation Levels and Anomalies Prevention of Anomalies in Isolation Levels Consistency and Isolation Hierarchy of Models Why All the Formalities? Quiz	
3. Conclusion O Final Remarks	
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Distributed Systems - Learn Interactively	
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