In the name of God





Distributed systems

2025

Dr. Lotfi



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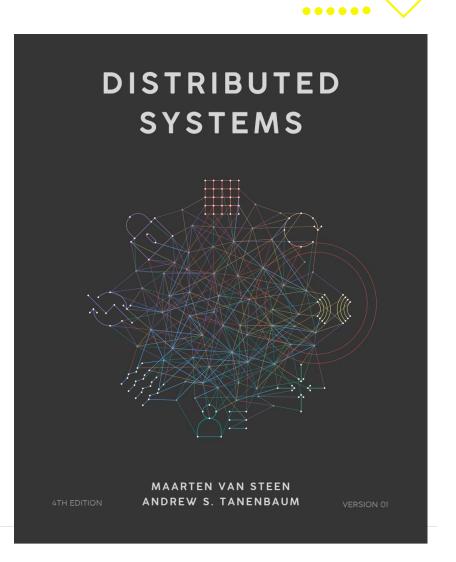
Main reference

DISTRIBUTED SYSTEMS

Maarten van Steen and Andrew S. Tanenbaum Fourth edition January 2023





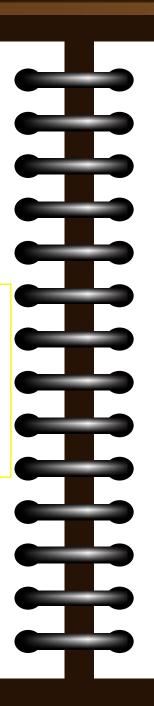


Auxiliary reference1

Designing Data-Intensive Applications

Martin Kleppmann First Edition March 2017







Designing Data-Intensive Applications

THE BIG IDEAS BEHIND RELIABLE, SCALABLE, AND MAINTAINABLE SYSTEMS



Martin Kleppmann

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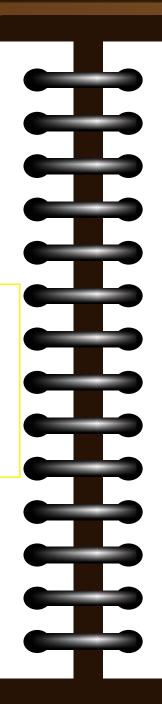
www.EBooksWorld.ir

Auxiliary reference2

Building Microservices
Designing Fine-Grained Systems

Sam Newman
Second edition
August 2021



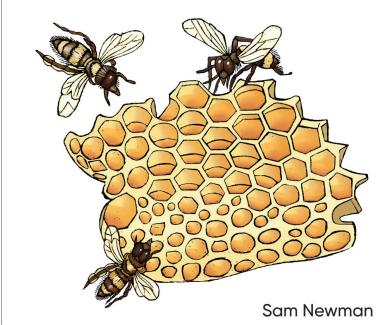


O'REILLY®

Edition of

Building Microservices

Designing Fine-Grained Systems





Assessment



50%

Assessed coursework and project

Home works, Research, ...



50%

Examination

20% Midterm 30% Final





Assessment



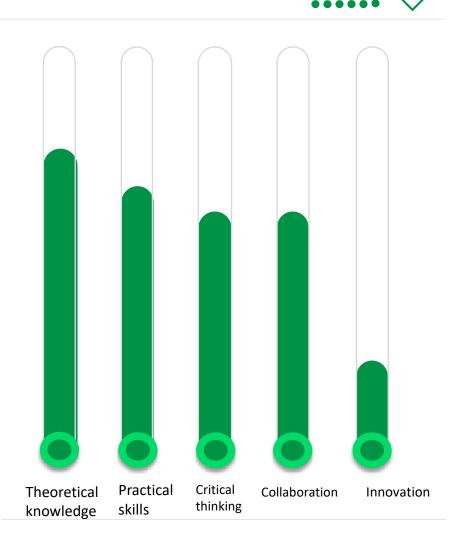
The Vision

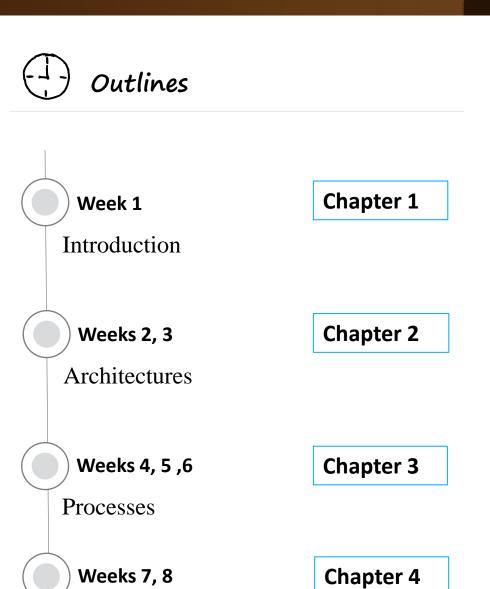
The goal of this course is to:

- ✓ Equip students with both theoretical knowledge and practical skills to design and implement robust, efficient, and secure distributed software solutions.
- ✓ Preparing for advanced roles in software engineering and related fields.



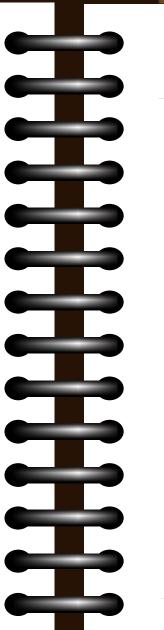






Communication

Outlines



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Weeks 9, 10, 11

Chapter 5

Coordination

Weeks 12, 13

Review of several top world papers

Weeks 14, 15

Review of several top world papers



THANKS