



Chapter 2 Exercise Solutions

2.1 Provide three specific and contrasting examples of the increasing levels of heterogeneity experienced in contemporary distributed systems as defined in Section 2.2.

2.1 Ans:

Heterogeneity exists in many areas of a contemporary distributed system including in the areas of hardware, operating systems, networks and programming languages. We look at the first three as examples:

- In terms of hardware, distributed systems are increasingly heterogeneous featuring (typically Intel-based) PCs, smart phones, resource-limited sensor nodes, and resource-rich cluster computers or multi-core processors.
- In terms of operating systems, a distributed system may include computers running Windows, MAC OS, various flavours of Unix, and also more specialist operating systems for smart phones or sensor nodes.
- In terms of networks, the Internet is also increasingly heterogeneous embracing wireless technologies and ad hoc styles of networking.

2.2 What problems do you foresee in the direct coupling between communicating entities that is implicit in remote invocation approaches? Consequently, what advantages do you anticipate from a level of decoupling as offered by space and time uncoupling? Note: you might want to revisit this answer after reading Chapters 5 and 6.

2.2 Ans:

The client is intrinsically bound to the server and vice versa and this is inflexible in terms of dealing with failure, for example if the server fails and a backup server takes over managing requests. More generally, this level of coupling makes it hard to deal with change.

Clients and servers must exist at the same time and hence it is not possible to operate in more volatile environments when either party may be unavailable, for example disconnected in the case of a mobile node.

The benefits of space uncoupling is in providing more degrees of freedom in dealing with change, for example if a new server starts dealing with requests.

The benefit of time uncoupling is in allowing entities to communicate when entities may come and go.

2.3 Describe and illustrate the client-server architecture of one or more major Internet applications (for example the Web, email or networks).

Distributed Systems Concepts And Design Solution Manual

H Kauffman



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Table of Contents Distributed Systems Concepts And Design Solution Manual

1. Understanding the eBook Distributed Systems Concepts And Design Solution Manual
 - The Rise of Digital Reading Distributed Systems Concepts And Design Solution Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Distributed Systems Concepts And Design Solution Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Distributed Systems Concepts And Design Solution Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Distributed Systems Concepts And Design Solution Manual
 - Personalized Recommendations

- Distributed Systems Concepts And Design Solution Manual User Reviews and Ratings
- Distributed Systems Concepts And Design Solution Manual and Bestseller Lists
- 5. Accessing Distributed Systems Concepts And Design Solution Manual Free and Paid eBooks
 - Distributed Systems Concepts And Design Solution Manual Public Domain eBooks
 - Distributed Systems Concepts And Design Solution Manual eBook Subscription Services
 - Distributed Systems Concepts And Design Solution Manual Budget-Friendly Options
- 6. Navigating Distributed Systems Concepts And Design Solution Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Distributed Systems Concepts And Design Solution Manual Compatibility with Devices
 - Distributed Systems Concepts And Design Solution Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Distributed Systems Concepts And Design Solution Manual
 - Highlighting and Note-Taking Distributed Systems Concepts And Design Solution Manual
 - Interactive Elements Distributed Systems Concepts And Design Solution Manual
- 8. Staying Engaged with Distributed Systems Concepts And Design Solution Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Distributed Systems Concepts And Design Solution Manual
- 9. Balancing eBooks and Physical Books Distributed Systems Concepts And Design Solution Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Distributed Systems Concepts And Design Solution Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Distributed Systems Concepts And Design Solution Manual
 - Setting Reading Goals Distributed Systems Concepts And Design Solution Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Distributed Systems Concepts And Design Solution Manual
 - Fact-Checking eBook Content of Distributed Systems Concepts And Design Solution Manual

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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