Designing and Developing Distributed Web Services: A Comprehensive Guide

In today's interconnected digital world, distributed web services have become indispensable for building scalable, resilient, and efficient applications. This comprehensive guide will equip you with the knowledge and skills you need to design, develop, and deploy distributed web services that meet the demands of modern enterprise systems.

Chapter 1: to Distributed Web Services

This chapter provides an overview of distributed web services, including their architectural principles, benefits, and challenges. You will learn about the different types of distributed web services and their applications in various domains.
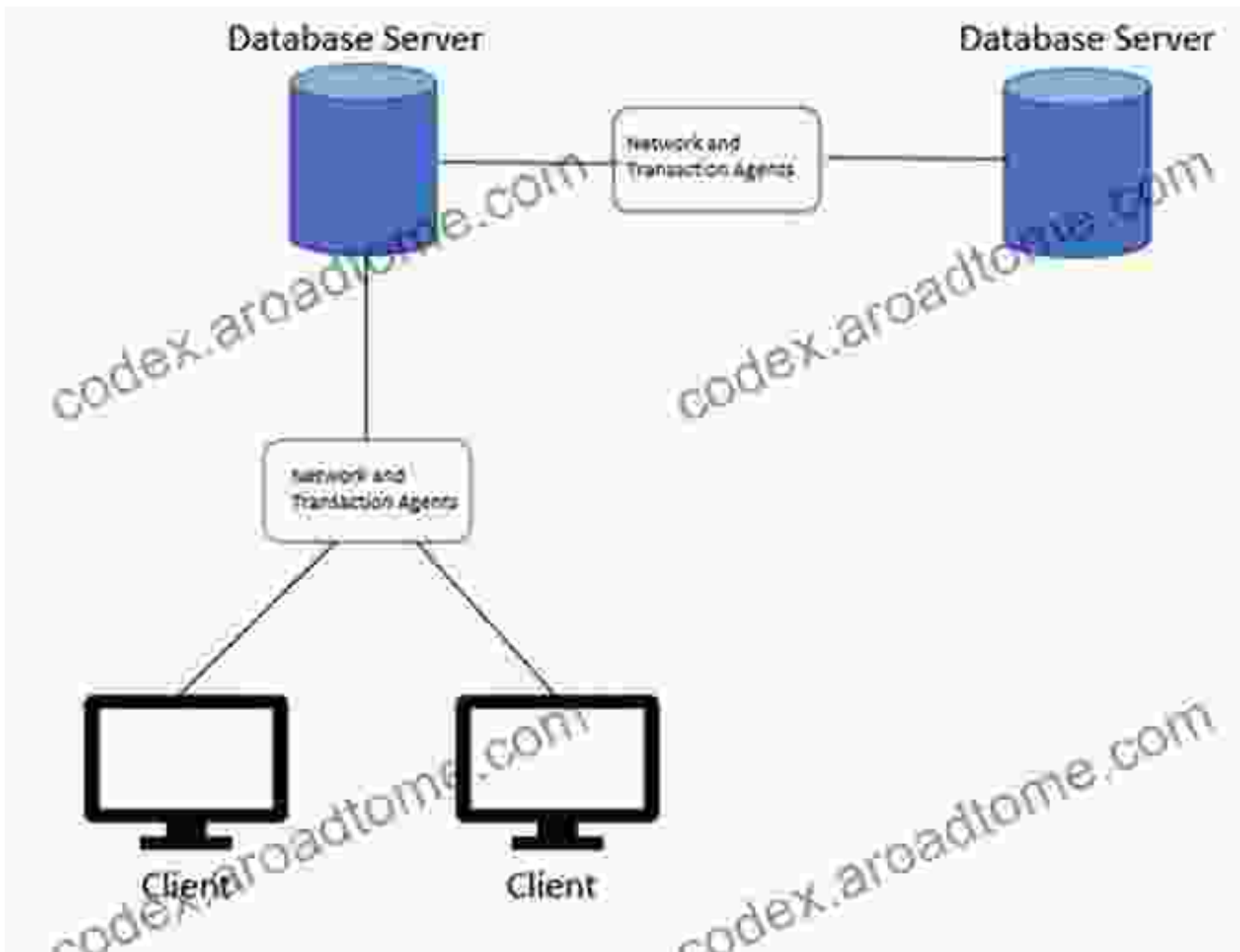
RESTful Java with JAX-RS 2.0: Designing and Developing Distributed Web Services by Bill Burke

★★★★☆ 4.4 out of 5

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Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Print length	: 537 pages

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Chapter 2: Service-Oriented Architecture (SOA)

SOA is a fundamental concept in distributed web services design. This chapter introduces SOA principles, including service contracts, service discovery, and service orchestration. You will learn how to design and implement SOA-based distributed web services.

Chapter 3: RESTful APIs

RESTful APIs are a widely used approach for building distributed web services. This chapter delves into the principles and best practices of RESTful API design. You will learn about resource representations, HTTP methods, and RESTful API security.

Chapter 4: SOAP Web Services

SOAP is another popular protocol for implementing distributed web services. This chapter covers SOAP architecture, message formats, and security considerations. You will learn how to design and implement SOAP-based web services.

Chapter 5: Microservices

Microservices are a modern approach to distributed web services design. This chapter discusses the principles and benefits of microservices architecture. You will learn how to design and implement microservices-based distributed systems.
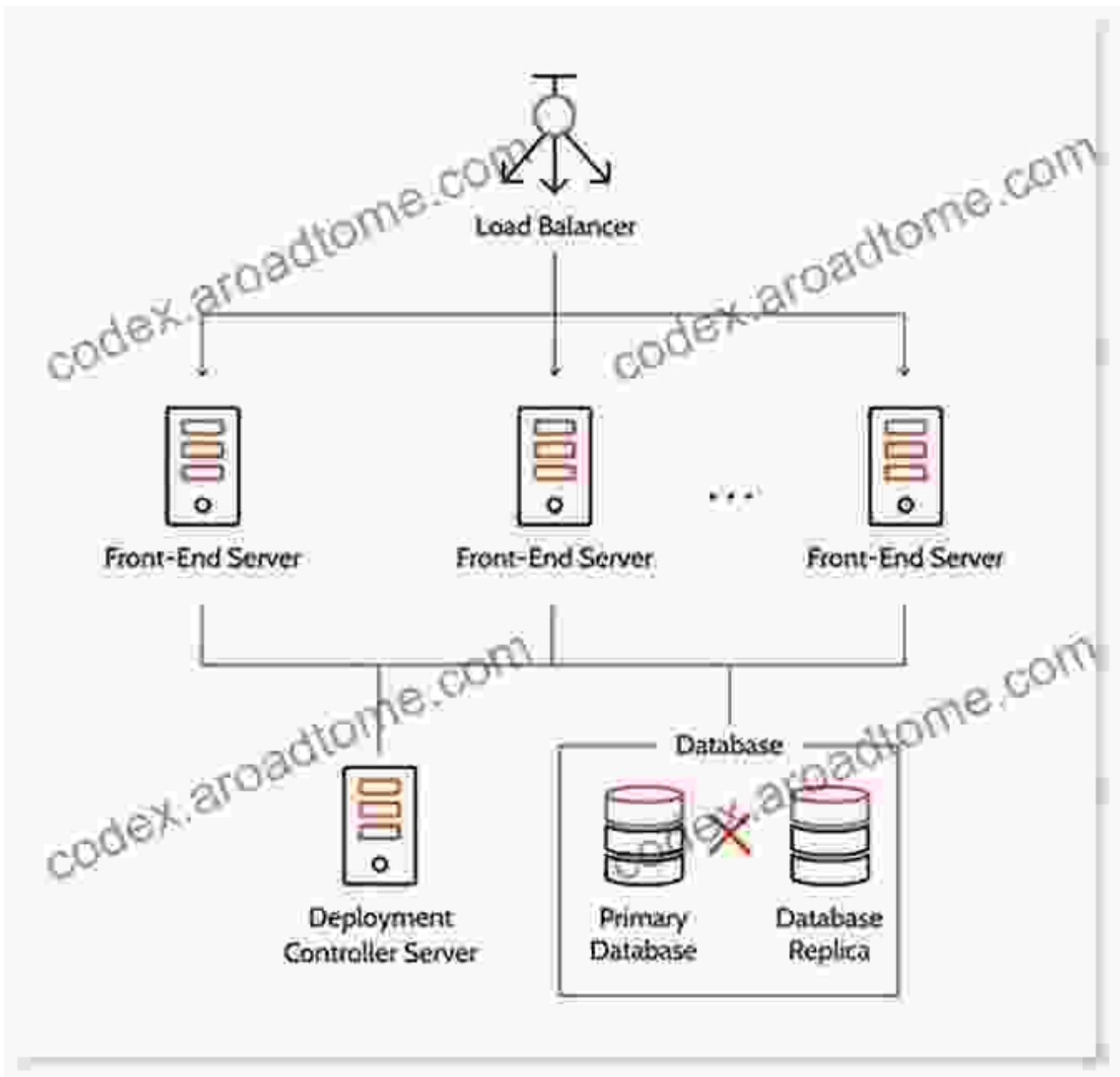
Chapter 6: Cloud Computing for Distributed Web Services

Cloud computing platforms provide cost-effective and scalable infrastructure for hosting distributed web services. This chapter explores the benefits and challenges of using cloud computing for distributed systems. You will learn about cloud service models, deployment strategies, and performance optimization.

Chapter 7: Performance and Scalability

Performance and scalability are critical considerations for distributed web services. This chapter discusses performance optimization techniques, scaling strategies, and load balancing mechanisms. You will learn how to design and implement distributed systems that can handle high traffic volumes.

Chapter 8: Security and Reliability

Security and reliability are essential for distributed web services. This chapter covers security threats, authentication and authorization mechanisms, and fault tolerance strategies. You will learn how to design and implement distributed systems that are secure and reliable.

This comprehensive guide provides a solid foundation for designing and developing distributed web services that meet the demands of modern enterprise systems. By following the principles, best practices, and real-world examples presented in this book, you can create distributed web services that are scalable, resilient, secure, and reliable.

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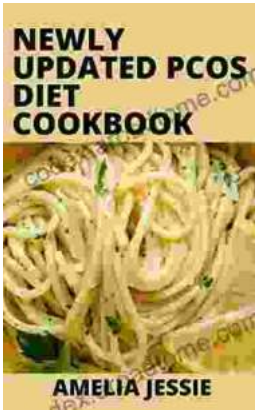
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