Performance Engineering for Critical Enterprise Systems:

Architecture, AI and Resilience

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Publisher:
Enhanced Research (ER) Publications, India

Abstract

This book presents a comprehensive exploration of performance engineering in mission-critical enterprise environments. It integrates architecture principles, AI-driven optimization, and resilience strategies to design scalable, secure, and self-healing systems for banking, utilities, and cloud platforms.

Preface

In modern enterprise ecosystems, performance engineering is a critical pillar that ensures reliability, scalability, and business continuity. This book bridges theoretical knowledge with practical implementation strategies, providing readers with insights into designing intelligent and resilient systems.

Target Audience

- Software Engineers and Performance Engineers
- Cloud Architects and DevOps Professionals
- Researchers and Academicians
- Technology Leaders and CTOs

Keywords

Performance Engineering, Distributed Systems, Cloud Computing, AI, AIOps, Scalability, Resilience, Banking Systems, Utilities

ISBN Details

ISBN (Paperback): Applied

Table of Contents

- 5.3 Indexing Strategies
- 5.4 Distributed Databases and Sharding
- 5.5 Caching Mechanisms (Redis, CDN, In-Memory Systems)

Chapter 6: Network and Infrastructure Optimization

- 6.1 Network Latency and Bandwidth Considerations
- 6.2 Load Balancing Algorithms
- 6.3 Edge Computing and Content Delivery Networks
- 6.4 Infrastructure as Code (IaC) and Automation
- 6.5 Observability in Infrastructure

Chapter 7: AI-Driven Performance Engineering

- 7.1 Role of AI and Machine Learning in Performance
- 7.2 Predictive Analytics for System Behavior
- 7.3 Anomaly Detection and Root Cause Analysis
- 7.4 Self-Optimizing Systems
- 7.5 Reinforcement Learning for Resource Allocation

Chapter 8: Resilience Engineering and Self-Healing Systems

- 8.1 Fault Tolerance and High Availability
- 8.2 Chaos Engineering Principles
- 8.3 Circuit Breakers and Retry Patterns
- 8.4 Self-Healing Architectures
- 8.5 Disaster Recovery and Business Continuity

Chapter 9: Security and Performance Trade-offs

- 9.1 Secure System Design Principles
- 9.2 Encryption Overheads and Optimization
- 9.3 Identity and Access Management (IAM)
- 9.4 Zero Trust Architecture
- 9.5 Compliance and Regulatory Considerations (Banking & Utilities)

Chapter 10: Performance Testing and Observability

- 10.1 Types of Performance Testing (Load, Stress, Spike)
- 10.2 Testing Tools and Frameworks
- 10.3 Monitoring, Logging, and Tracing
- 10.4 SLOs, SLIs, and SLAs
- 10.5 Real-Time Performance Dashboards

Chapter 11: Domain-Specific Performance Challenges

- 11.1 Banking Systems (Core Banking, Payment Gateways)
- 11.2 Utility Systems (Smart Grids, Energy Management)
- 11.3 Telecom and High-Throughput Systems
- 11.4 E-Commerce and High-Traffic Platforms
- 11.5 Government and Public Infrastructure Systems

Chapter 12: Future Trends and Emerging Technologies

- 12.1 Edge AI and Distributed Intelligence
- 12.2 Quantum Computing and Performance Implications
- 12.3 Green Computing and Energy Efficiency
- 12.4 Autonomous Systems and AIOps
- 12.5 The Future of Self-Healing Enterprise Systems
