

WILEY

Service-Oriented Architecture & Microservices Architecture, 3ed: For Enterprise, Cloud, Big Data and Mobile

By Shankar Kambhampaty

Paperback

ISBN: 9788126564064

Publication: [NOT PROVIDED] *publication_date*

Page Count: 328 pages

₹1,019.00

• Description

This book is a humble attempt from my side to share what I know about software architecture in general, and SOA/MSA in particular. I have structured this book keeping in mind the insights I have gathered over the past 26 years as a practicing IT professional. Although there are several good books and documents available on software architecture, SOA and MSA, I too wanted to do my bit in sharing knowledge.

• About the Author

Shankar Kambhampaty

Shankar Kambhampaty is Chief Technology Officer for major financial services account at DXC.technology. Shankar has been involved for 26 years in architecture, design, development and management for a number of software projects executed globally. He has also played a key role in development of software products that have been exhibited in AIIM and COMDEX shows. Shankar has written several papers for International Conferences in the areas of Service-Oriented Architecture and software engineering. He has a Master's degree in Electrical Engineering with specialization in Digital Systems from Indian Institute of Technology

• Table of Contents

Foreword

Preface to the Third Edition

Acknowledgments

Part 1 Software Architecture

Chapter 1 Software Engineering Principles

1.1 Software Engineering Practice

1.2 Software Development Life Cycle (SDLC)

1.3 Software Engineering Methodologies

1.4 Project Management Practice

1.5 Software Engineering Project

1.6 Software Project - Loan Management System (LMS)

1.7 Critical Success Factors for Software Projects

1.8 Summary

Chapter 2 Agile with DevOps

2.1 Agile Development Methodologies

2.2 Emergence of DevOps

2.3 DevOps Application Delivery

2.4 Continuous Integration 20

2.5 Continuous Delivery

2.6 Continuous Deployment

2.7 DevOps – Putting It All Together

2.8 Summary

Chapter 3 Software Architecture

3.1 Need for Software Architecture

3.2 Objectives of Software Architecture

3.3 Types of Information Technology (IT) Architecture

3.4 Architectural Patterns and Styles

3.5 Summary

Chapter 4 Architecting Process for Software Applications

4.1 Architectural Considerations

4.2 Architecting Process for Software Applications

4.3 Level 0: High-Level Architecture

4.4 Level 1: Solution Architecture

4.5 Detailed Design

4.6 Summary

Chapter 5 Software Platforms

5.1 Software Applications in an Enterprise

5.2 Packaged Applications

5.3 Custom Software Applications

5.4 Software Platforms

5.5 Java Platform Enterprise Edition

5.6 .NET Microsoft Application Platform

5.7 Summary

Chapter 6 Cloud Computing Concepts

6.1 Cloud Computing Paradigm

6.2 Types of Cloud Platforms

6.3 Technologies That Enable Cloud Computing

6.4 Opportunities in Cloud Computing

6.5 Summary

Chapter 7 Cloud Computing Platforms

7.1 Amazon Web Services

7.2 Google App Engine and Google Compute Engine

7.3 IBM Softlayer

7.4 Microsoft Azure

7.5 Summary

Chapter 8 SOA and MSA Basics

8.1 Service Orientation in Daily Life

8.2 Evolution of SOA and MSA

8.3 Service-oriented Architecture and Microservices architecture -

8.4 Drivers for SOA

8.5 Dimensions of SOA

8.6 Conceptual Model of SOA

8.7 Standards And Guidelines for SOA

8.8 Emergence of MSA

8.9 Summary

Part 2 Service-Oriented Architecture

Chapter 9 Enterprise-Wide SOA

9.1 Considerations for Enterprise-wide SOA

9.2 Strawman Architecture for Enterprise-wide SOA

9.3 Enterprise SOA Reference Architecture

9.4 Object-oriented Analysis and Design (OOAD) Process

9.5 Service-oriented Analysis and Design (SOAD) Process

9.6 SOA Methodology for Enterprise

9.7 Summary

Chapter 10 Service-Oriented Applications

10.1 Considerations for Service-oriented Applications

10.2 Patterns for SOA

10.3 Pattern-based Architecture for Service-oriented Applications

10.4 Composite Applications

10.5 Composite Application Programming Model

10.6 Summary

Chapter 11 Service-Oriented Analysis and Design

11.1 Need for Models

11.2 Principles of Service Design

11.3 Non-functional Properties for Services

11.4 Design of Activity Services (or Business Services)

11.5 Design of Data Services

11.6 Design of Client Services

11.7 Design of Business Process Services

11.8 Summary

Chapter 12 Technologies for SOA

12.1 Technologies for Service Enablement

12.2 Technologies for Service Integration

12.3 Technologies for Service Orchestration

12.4 Summary

Chapter 13 SOA Governance and Implementation

13.1 Strategic Architecture Governance

13.2 Service Design-time Governance

13.3 Service Run-time Governance

13.4 Approach for Enterprise-wide SOA Implementation

13.5 Summary

Chapter 14 Big Data and SOA

14.1 Data Concepts

14.2 Big Data and its characteristics

14.3 Technologies for Big Data

14.4 Service-orientation for Big Data Solutions

14.5 Summary

Chapter 15 Business Case for SOA

15.1 Stakeholder Objectives

15.2 Benefits of Soa

15.3 Cost Savings

15.4 Return on Investment (ROI)

15.5 Build a Case for SOA

15.6 Summary

Chapter 16 SOA Best Practices

16.1 SOA Strategy - Best Practices

16.2 SOA Development - Best Practices

16.3 SOA Governance - Best Practices

16.4 Summary

Chapter 17 EA and SOA for Business and IT Alignment

17.1 Enterprise Architecture

17.2 Need for Business and It Alignment

17.3 EA and SOA for Business and It Alignment

17.4 Summary

Part 3 Microservices Architecture

Chapter 18 Trend in SOA - Microservices Architecture (MSA)

18.1 Services Model for Cloud and Mobile Solutions

18.2 API Adoption on the Rise

18.3 Challenges and Takeways from SOA Implementations

18.4 Architecture Trend – Microservices Architecture

18.5 Microservices Architecture in Action

18.6 Summary

Chapter 19 Cloud and MSA

19.1 Cloud Services

19.2 Hybrid Cloud Services

19.3 Considerations for Hybrid Cloud Services

19.4 Cloud Services and MSA

19.5 MSA for SMAC Solutions

19.6 Summary

Chapter 20 Mobile and MSA

20.1 Mobile Technologies

20.2 Types of Mobile Applications

20.3 MSA for mobile solutions

20.4 Summary

Appendix A SOA – Loan Management System (LMS) PoC

Appendix B MSA – APIary PoC

Index

To purchase this product, please visit:

<https://wiley.indiafn.com/service-oriented-architecture-microservices-architecture-3ed-for-enterprise-cloud-big-data-and-mobile.html>



Scan to buy