

Bookmark File  
PDF Microservice  
Patterns And Best  
**Microservice  
Patterns  
And Best  
Practices:  
Explore  
Patterns  
Like CQRS  
And Event**

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PDF Microservice

# **Sourcing To Create Scalable, M aintainable, And Testable Mi croservices**

Software-- Software  
Engineering.

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Patterns And Best  
Practices: Explore  
Patterns Like  
Enterprise—just ask  
Amazon and  
Netflix—but you can  
fall into many traps if  
you don't approach  
them in the right way.  
This practical guide  
covers the entire  
microservices  
landscape, including  
the principles,

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Patterns And Best  
technologies, and  
Practices: Explore  
methodologies of this  
Patterns like  
unique, modular style  
of system building.

You ' ll learn about the  
Sourcing To  
experiences of  
Create Scalable,  
organizations around  
Maintainable, And  
the globe that have  
Testable  
successfully adopted  
Microservices. In

three parts, this book  
explains how these  
services work and  
what it means to build

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Patterns And Best  
Practices: Explore  
an application the  
Microservices Way.  
You ' ll explore a  
design-based Event  
approach to  
microservice  
architecture with  
guidance for  
implementing various  
elements. And you ' ll  
get a set of recipes  
and practices for  
meeting practical,  
organizational, and

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Practices: Explore  
cultural challenges to  
microservice  
adoption. Learn how  
microservices can  
help you drive  
business objectives  
Examine the  
principles, practices,  
and culture that define  
microservice  
architectures Explore  
a model for creating  
complex systems and  
a design process for

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Patterns And Best  
Practices: Explore  
building a  
microservice  
architecture. Learn the  
fundamental design  
concepts for individual  
microservices. Delve  
into the operational  
elements of a  
microservices  
architecture, including  
containers and  
service discovery.  
Discover how to  
handle the challenges

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Patterns And Best  
Practices: Explore  
of introducing  
microservice  
architecture in your  
organization  
Build and deploy  
scalable cloud native  
microservices using  
the Spring framework  
and Kubernetes. KEY  
FEATURES

Complete coverage  
on how to design,  
build, run, and deploy  
modern cloud native



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Patterns And Best  
microservices.  
Includes numerous  
sample code  
exercises on Event  
microservices, Spring  
and Kubernetes.  
Develop a stronghold  
on Kubernetes,  
Spring, and the  
microservices  
architecture.  
Complete guide of  
application  
containerization on

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Patterns And Best  
Kubernetes  
Practices: Explore  
containers.

Coverage on  
Patterns like  
managing modern  
applications and  
infrastructure using  
observability tools.

DESCRIPTION The  
main objective of this  
book is to give an  
overview of cloud  
native microservices,  
their architecture,  
design patterns, best

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Patterns And Best  
practices, real use  
Practices: Explore  
cases and practical  
Patterns Like  
coverage of modern  
@\_and\_Libent  
applications. This  
Sourcing To  
book covers a strong  
Create Scalable,  
understanding of the  
Maintainable, And  
fundamentals of  
Testable  
microservices, API  
Microservices  
first approach,  
Testing, observability,  
API Gateway, Service  
Mesh and Kubernetes  
alternatives of Spring  
Cloud. This book

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Patterns And Best  
Practices: Explore  
covers the  
implementation of  
various design  
patterns of developing  
cloud native  
microservices using  
Spring framework,  
docker and  
Kubernetes libraries.  
It covers  
containerization  
concepts and hands-  
on lab exercises like  
how to build, run and

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manage  
Practices: Explore  
microservices  
applications using  
Patterns like  
Kubernetes. After  
Sourcing To  
reading this book, the  
Create Scalable,  
readers will have a  
Maintainable, And  
holistic understanding  
Testable  
of building, running,  
Microservices  
and managing cloud  
applications on  
Kubernetes  
containers. WHAT  
YOU WILL LEARN

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Patterns And Best

Learn fundamentals

of microservice and

design patterns.

Learn microservices

development using

Spring Boot and

Kubernetes. Learn

to develop reactive,

event-driven, and

batch microservices.

Perform end-to-end

microservices testing

using Cucumber.

Implement API gatew

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Patterns Like  
COFO and Event  
Sourcing To  
Create Scalable,  
Maintainable, And  
Testable  
Microservices

ay, authentication &  
authorization, load  
balancing, caching,  
rate limiting. Learn  
observability and  
monitoring techniques  
of microservices.

WHO THIS BOOK IS

FOR This book is for  
the Spring

Developers,

Microservice

Developers, Cloud

Engineers, DevOps

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Patterns And Best  
Consultants,  
Practices: Explore  
Technical Architect  
and Solution  
like  
Architects, who have  
some familiarity with  
application  
development, Docker  
and Kubernetes  
containers. TABLE  
OF CONTENTS  
1. Overview of Cloud  
Native microservices  
2. Microservice  
design patterns 3. API



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## Patterns And Best

first approach 4. Build  
microservices using

## Practices: Explore

## Patterns Like

## 5. Batch And Event

microservices 6. Build  
reactive and event-  
driven microservices

## 7. The API gateway,

security, and

distributed caching

with Redis 8.

Microservices testing

and API mocking 9.

Microservices

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Run microservices on  
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Service Mesh and  
Kubernetes  
alternatives of Spring  
Cloud  
Automated testing is a  
cornerstone of agile  
development. An  
effective testing

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strategy will deliver  
Practices: Explore  
new functionality  
Patterns Like  
more aggressively,  
OOB and Event  
accelerate user  
Searching To  
feedback, and  
Create Scalable,  
improve quality.  
Maintainable, And  
However, for many  
Testable  
developers, creating  
Microservices  
effective automated  
tests is a unique and  
unfamiliar challenge.  
xUnit Test Patterns is  
the definitive guide to  
writing automated

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Practices: Explore  
Return Like  
QA And Event  
coach and test  
automation expert  
Gerard Meszaros  
describes 68 proven  
patterns for making  
tests easier to write,  
understand, and  
maintain. He then  
shows you how to  
make them more

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Patterns And Best  
robust and  
Practices: Explore  
repeatable--and far  
Patterns Like  
more cost-effective.  
Loaded with Event  
information, this book  
Searching To  
feels like three books  
Create Scalable,  
in one. The first part is  
Maintainable, And  
a detailed tutorial on  
Testable  
test automation that  
Microservices  
covers everything  
from test strategy to in-  
depth test coding. The  
second part, a catalog  
of 18 frequently

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Practices: Explore  
Patterns Like  
CQRS And Event  
Sourcing To  
Create Scalable,  
Maintainable, And  
Testable  
Microservices

encountered "test  
smells," provides  
trouble-shooting  
guidelines to help you  
determine the root  
cause of problems  
and the most  
applicable patterns.  
The third part  
contains detailed  
descriptions of each  
pattern, including  
refactoring  
instructions illustrated

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Practices: Explore  
Patterns like  
Command and Event

The Comprehensive,  
Proven Approach to  
IT

Scalability—Updated  
with New Strategies,  
Technologies, and

Case Studies In The  
Art of Scalability,  
Second Edition,  
leading scalability

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Patterns And Best  
consultants Martin L.  
Practices: Explore  
Abbott and Michael T.  
Fisher cover  
everything you need  
to know to smoothly  
scale products and  
services for any  
requirement. This  
extensively revised  
edition reflects new  
technologies,  
strategies, and  
lessons, as well as  
new case studies



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Practices: Explore  
from the authors ,  
pioneering consulting  
practice, AKF  
Partners. Writing for  
technical and  
nontechnical decision-  
makers, Abbott and  
Fisher cover  
everything that  
impacts scalability,  
including architecture,  
process, people,  
organization, and  
technology. Their

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insights and  
Practices: Explore  
recommendations  
Patterns Like  
reflect more than  
Event  
thirty years of  
experience at  
Searching To  
companies ranging  
Create Scalable,  
from eBay to Visa,  
Maintainable, And  
and Salesforce.com  
Testable  
to Apple. You ' ll find  
Microservices  
updated strategies for  
structuring  
organizations to  
maximize agility and  
scalability, as well as

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Patterns And Best  
Practices: Explore  
new insights into the  
cloud (IaaS/PaaS)  
transition, NoSQL,  
DevOps, business  
metrics, and more.  
Using this guide 's  
tools and advice, you  
can systematically  
clear away obstacles  
to scalability—and  
achieve  
unprecedented IT and  
business  
performance.

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Practices: Explore  
Coverage includes •  
Why scalability  
problems start with  
organizations and  
people, not  
technology, and what  
to do about it •  
Actionable lessons  
from real successes  
and failures • Staffing,  
structuring, and  
leading the agile,  
scalable organization  
• Scaling processes

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Practices: Explore  
for hyper-growth  
environments • Explore  
Architecting Like  
Scalability: proprietary  
models for clarifying  
needs and making  
choices—including 15  
key success  
principles • Emerging  
technologies and  
challenges: data cost,  
datacenter planning,  
cloud evolution, and  
customer-aligned

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monitoring •  
Practices: Explore  
Measuring availability,  
Patterns Like  
capacity, load, and  
OOO and Event  
performance  
Embracing  
Sourcing To  
Microservices Design  
Create Scalable,  
Refactoring Test  
Maintainable, And  
Code  
Testable  
API Design Patterns  
Microservices  
Building  
Microservices with  
Spring  
Master design  
patterns of the Spring

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framework to build  
Practices: Explore  
smart, efficient  
microservices  
Patterns like  
Aligning Principles,  
Practices, and Culture  
Sourcing To  
Web Scalability for  
Create Scalable,  
Startup Engineers  
Maintainable, And  
Microservice  
Patterns and Best  
Practices Explore  
patterns like CQRS  
and event sourcing  
to create scalable,  
maintainable, and

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testable  
Practices. Explore  
microservicesPackt  
Publishing Ltd  
Microservices is an  
architectural style  
in which large,  
complex software  
applications are  
composed of one  
or more smaller  
services. Each of  
these  
microservices  
focuses on



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Patterns And Best

Practices: Explore

Patterns Like a small

business capability.

These

microservices can

be developed in

any programming

language. They

communicate with

each other using

language-neutral

protocols, such as

Representational

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State Transfer  
(REST), or  
messaging  
applications, such  
as IBM® MQ Light.  
This IBM  
Redbooks®  
publication gives a  
broad  
understanding of  
this increasingly  
popular  
architectural style,  
and provides some

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real-life examples  
Practices: Explore  
of how you can  
Patterns Like  
develop  
applications using  
like  
the microservices  
Searching To  
approach with IBM  
Create Scalable,  
Bluemix™. The  
Maintainable, And  
source code for all  
Testable  
of these sample  
Microservices  
scenarios can be  
found on GitHub (<https://github.com/>).  
The book also  
presents some

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case studies from  
IBM products. We  
explain the  
architectural  
decisions made,  
our experiences,  
and lessons  
learned when  
redesigning these  
products using the  
microservices  
approach.  
Information  
technology (IT)

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professionals  
interested in  
learning about  
microservices and  
how to develop or  
redesign an  
application in  
Bluemix using  
microservices can  
benefit from this  
book.

Annotation Over  
the past 10 years,  
distributed systems

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Practices: Explore

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Practices: Explore

Patterns And Best

## Bookmark File

### PDF Microservice

### Patterns And Best

### Practices: Explore

### Patterns Like

### CRUD And Event

### Sourcing To

### Create Scalable,

### Maintainable, And

### Testable

### Microservices

are now seeing systems consisting of collaborating microservices. Easier to change, deploy, and if required retire, organizations which are in the right position to take advantage of them are yielding significant benefits.

This book takes an

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Patterns And Best  
Practices: Explore  
a holistic view of the  
things you need to  
be cognizant of in  
order to pull this  
off. It covers just  
enough  
understanding of  
technology,  
architecture,  
operations and  
organization to  
show you how to  
move towards finer-  
grained systems.



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### Practices: Explore

### Patterns Like

### CRUD And Event

### Sourcing To

### Create Scalable,

### Maintainable, And

### Testable

### Microservices

### Microservices

### Microservices

### Microservices

### Microservices

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Patterns And Best  
independent  
practices: Explore  
deployed in  
isolation and  
equipped with  
dedicated memory  
persistence tools,  
which interact via  
messages. The  
book is structured  
in six parts. Part 1  
“Opening”  
analyzes the new  
(and old)

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Patterns And Best  
challenges  
Practices: Explore  
including service  
design and  
Platformlike  
specification, data  
SaaS And Event  
integrity, and  
Searching To  
consistency  
Create Scalable,  
management and  
Maintainable, And  
provides the  
Testable  
introductory  
Microservices  
information needed  
to successfully  
digest the  
remaining parts.  
Part 2 “Migration”

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CQRS And Event  
Sourcing To  
Create Scalable,  
Maintainable, And  
Testable  
Microservices

discusses the issue  
of migration from  
monoliths to  
microservices and  
their loosely  
coupled  
architecture. Part 3  
“Modeling”  
introduces a  
catalog and a  
taxonomy of the  
most common  
microservices anti-  
patterns and

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Microservices

identifies common problems. It also explains the concept of RESTful conversations and presents insights from studying and developing two further modeling approaches. Next , Part 4 is dedicated to various aspects of “Development and Deployment”.

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Part 5 then covers  
“Applications” of  
microservices,  
presenting case  
studies from  
Industry 4.0,  
Netflix, and  
customized SaaS  
examples.  
Eventually, Part 6  
focuses on  
“Education” and  
reports on  
experiences made

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in special  
Practices: Explore  
programs, both at  
Bottom Like  
academic level as a  
CCRC And Event  
master program  
Sourcing To  
course and for  
Create Scalable,  
practitioners in an  
Maintainable, And  
industrial training.  
Testable  
As only a joint  
Microservices  
effort between  
academia and  
industry can lead  
to the release of  
modern paradigm-  
based

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programming  
languages, and  
subsequently to  
the deployment of  
robust and scalable  
software systems,  
the book mainly  
targets researchers  
in academia and  
industry who  
develop tools and  
applications for  
microservices.

Summary Cloud



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Patterns And Best  
Native Patterns is  
your guide to explore  
developing strong  
applications that  
thrive in the  
dynamic,  
distributed, virtual  
world of the cloud.  
This book presents  
a mental model for  
cloud-native  
applications, along  
with the patterns,  
practices, and

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tooling that set  
Practices: Explore  
them apart.  
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the Technology  
Cloud platforms  
promise the holy  
grail: near-zero  
downtime, infinite

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scalability, short  
feedback cycles,  
fault-tolerance, and  
cost control. But  
how do you get  
there? By applying  
cloudnative  
designs,  
developers can  
build resilient,  
easily adaptable,  
web-scale  
distributed  
applications that

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Data Loads. Learn  
these fundamental  
patterns and  
practices, and  
you'll be ready to  
thrive in the  
dynamic,  
distributed, virtual  
world of the cloud.  
About the Book  
With 25 years of  
experience under

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Microservices

her belt, Cornelia Davis teaches you the practices and patterns that set cloud-native applications apart. With realistic examples and expert advice for working with apps, data, services, routing, and more, she shows you how to design and build

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software that  
functions: Explore  
beautifully on  
modern cloud  
platforms. As you  
read, you will start  
to appreciate that  
cloud-native  
computing is more  
about the how and  
why rather than  
the where. What's  
inside The lifecycle  
of cloud-native

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apps Cloud-scale  
Practices: Explore  
configuration  
management Zero  
downtime And Event  
upgrades,  
versioned services,  
and parallel  
deploys Service  
discovery and  
dynamic routing  
Managing  
interactions  
between services,  
including retries

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Patterns And Best  
and circuit  
Practices: Explore  
breakers About the  
Reader Requires  
basics software  
design skills and an  
ability to read Java  
or a similar  
language. About  
the Author Cornelia  
Davis is Vice  
President of  
Technology at  
Pivotal Software. A  
teacher at heart,



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Better, While  
QRS And Event  
Sourcing To  
Create Scalable,  
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Microservices  
she's spent the last  
25 years making  
good software and  
great software  
developers. Table  
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- THE CLOUD-  
NATIVE CONTEXT  
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that word: Defining  
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in production The

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just environment

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Circuit breakers  
and API gateways  
Troubleshooting:  
Finding the needle  
in the haystack  
Cloud-native data:  
Breaking the data  
monolith  
Building  
Standardized  
Systems Across an  
Engineering  
Organization  
Implementing

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Domain-driven  
Design: Explore  
Cloud Native  
Microservices with  
Spring and  
Kubernetes  
Everyone and Their  
Dog Wants an API,  
So You Should  
Probably Learn  
How to Build Them  
Science and  
Engineering  
Hands-On RESTful

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Patterns And Best  
API Design Patterns  
Practices: Explore  
and Best Practices  
Designing Fine-  
Grained Systems  
Microservices is  
an architectural  
style in which  
large, complex  
software  
applications are  
composed of one  
or more smaller

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Patterns And Best

Practices: Explore

Patterns Like

QRS And Event

Sourcing To

Create Scalable,

Maintainable, And

Testable

Microservices

services. Each of

these

microservices

focuses on

completing one

task that

represents a

small business

capability.

These

microservices

can be

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Patterns Like  
CQRS And Event  
Sourcing To  
Create Scalable,  
Maintainable, And  
Testable  
Microservices  
Microservices

**developed in any  
programming  
language. This  
IBM®  
Redbooks®  
publication  
covers  
Microservices  
best practices  
for Java. It  
focuses on  
creating cloud**



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**native**  
**applications**  
**using the latest**  
**version of IBM**  
**WebSphere®**  
**Application**  
**Server Liberty,**  
**IBM Bluemix®**  
**and other Open**  
**Source**  
**Frameworks in**  
**the**

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Sourcing To

Create Scalable,

Maintainable, And

Testable

Microservices

**Microservices**

**ecosystem to**

**highlight**

**Microservices**

**best practices**

**for Java.**

**The way**

**developers**

**design, build,**

**and run**

**software has**

**changed**

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Patterns And Best  
**significantly**  
**with the**  
**evolution of**  
**microservices**  
**and containers.**  
**These modern**  
**architectures**  
**use new**  
**primitives that**  
**require a**  
**different set of**  
**practices than**

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Patterns And Best  
**most**  
Practices: Explore  
**developers, tech**  
Patterns Like  
**leads, and**  
CQRS And Event  
**architects are**  
Sourcing To  
**accustomed to.**  
Create Scalable,  
**With this**  
Maintainable, And  
**focused guide,**  
Testable  
**Bilgin Ibryam**  
Microservices  
**and Roland Huß**  
**from Red Hat**  
**provide common**  
**reusable**

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PDF Microservice  
Patterns And Best  
Practices: Explore  
Patterns Like  
CQRS And Event  
Sourcing To  
Create Scalable,  
Maintainable, And  
Testable  
Microservices

**elements,  
patterns,  
principles, and  
practices for  
designing and  
implementing  
cloud-native  
applications on  
Kubernetes.**

**Each pattern  
includes a  
description of**

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Patterns And Best

Practices: Explore

Patterns Like

CORS And Event

Sourcing To

Create Scalable,

Maintainable, And

Testable

Microservices

the problem and

a proposed

solution with

Kubernetes

specifics. Many

patterns are

also backed by

concrete code

examples. This

book is ideal for

developers

already familiar

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PDF Microservice  
Patterns And Best  
**with basic**  
**Kubernetes**  
**concepts who**  
**want to learn**  
**common cloud**  
**native patterns.**  
**You'll learn**  
**about the**  
**following**  
**pattern**  
**categories:**  
**Foundational**

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Patterns Like

CQRS And Event

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Create Scalable,

Maintainable, And

Testable

Microservices

Behavioral

patterns explore

finer-grained

concepts for



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Patterns And Best  
**managing**  
Practices: Explore  
**various types of**  
Patterns Like  
**container and**  
CORP And Event  
**platform**  
Sourcing To  
**interactions.**  
Create Scalable,  
**Structural**  
Maintainable And  
**patterns help**  
Testable  
**you organize**  
Microservices  
**containers**  
**within a pod,**  
**the atom of the**  
**Kubernetes**

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Patterns And Best  
**platform.**  
Practices: Explore  
**Configuration**  
Patterns Like  
**patterns provide**  
QRS And Event  
**insight into how**  
Sourcing To  
**application**  
Create Scalable,  
**configurations**  
Maintainable, And  
**can be handled**  
Testable  
**in Kubernetes.**  
Microservices  
**Advanced**  
**patterns covers**  
**more advanced**  
**topics such as**

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Patterns And Best

Practices: Explore

platform with

Patterns Like

Operators.

Explore the

concepts and

tools you need

to discover the

world of

microservices

with various

design patterns

Key Features

Key Features

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Patterns And Best

Practices: Explore

Patterns Like

CRPS And Event

Sourcing To

Create Scalable,

Maintainable, And

Testable

Microservices

Learn design

patterns and the

best practices

while building a

microservice

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Patterns And Best  
**application**  
Practices: Explore  
**Obtain hands-on**  
Patterns Like  
**techniques and**  
CQRS And Event  
**tools to create**  
Sourcing To  
**high-performing**  
Create Scalable,  
**microservices,**  
Maintainable, And  
**resilient to**  
Testable  
**possible fails**  
Microservices  
**Book**

**Description**

**Microservices  
are a hot trend**

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Patterns And Best  
**in the**  
Practices: Explore  
**development**  
Patterns Like  
**world right now.**  
QRS And Event  
**Many**  
Sourcing To  
**enterprises have**  
Create Scalable,  
**adopted this**  
Maintainable, And  
**approach to**  
Testable  
**achieve agility**  
Microservices  
**and the**  
**continuous**  
**delivery of**  
**applications to**

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Patterns And Best  
**gain a  
competitive  
advantage. This  
book will take  
you through  
different design  
patterns at  
different stages  
of the  
microservice  
application  
development**

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Practices: Explore

Patterns Like

QRS And Event

Sourcing To

Create Scalable,

Maintainable, And

Testable

Microservices

Microservices

Microservices

Microservices

Microservices

Microservices

Microservices

Microservices

Microservices

Microservices

Microservices

**along with their best practices. Microservice Patterns and Best Practices starts with the learning of microservices key concepts and showing how to make the right choices**



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Practices: Explore  
Patterns Like  
CQRS And Event  
Sourcing To  
Create Scalable,  
Maintainable, And  
Testable  
Microservices

**while designing  
microservices.  
You will then  
move onto  
internal  
microservices  
application  
patterns, such  
as caching  
strategy,  
asynchronism,  
CQRS and event**

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Patterns And Best  
**sourcing, circuit  
breaker, and  
bulkheads. As  
you progress,  
you'll learn the  
design patterns  
of  
microservices.  
The book will  
guide you on  
where to use the  
perfect design**

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Patterns And Best

Practices: Explore

Patterns Like

CQRS And Event

Sourcing To

Create Scalable,

Maintainable, And

Testable

Microservices

**pattern at the**

**application**

**development**

**stage and how**

**to break**

**monolithic**

**application into**

**microservices.**

**You will also be**

**taken through**

**the best**

**practices and**

Bookmark File  
PDF Microservice  
Patterns And Best  
**patterns**  
Practices: Explore  
**involved while**  
Patterns Like  
**testing,**  
CQRS And Event  
**securing, and**  
Sourcing To  
**deploying your**  
Create Scalable,  
**microservice**  
Maintainable, And  
**application. At**  
Testable  
Microservices  
**the end of the**  
**book, you will**  
**easily be able to**  
**create**  
**interoperable**

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Patterns And Best  
**microservices,**  
Practices: Explore  
**which are**  
Patterns Like  
**testable and**  
CQRS And Event  
**prepared for**  
Sourcing To  
**optimum**  
Create Scalable,  
**performance.**  
Maintainable And  
**What you will**  
Testable  
**learn How to**  
Microservices  
**break**  
**monolithic**  
**application into**  
**microservices**

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Practices: Explore  
Implement  
caching  
strategies,  
CQRS and event  
sourcing, and  
circuit breaker  
patterns  
Incorporate  
different  
microservice  
design patterns,  
such as shared

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**data,**  
Practices: Explore  
**aggregator,**  
Patterns Like  
**proxy, and**  
CORS And Event  
**chained Utilize**  
Sourcing To  
**consolidate**  
Create Scalable,  
**testing patterns**  
Maintainable, And  
**such as**  
Testable  
**integration,**  
Microservices  
**signature, and**  
**monkey tests**  
**Secure**  
**microservices**

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Patterns And Best  
**with JWT, API**  
Practices: Explore  
**gateway, and**  
Patterns Like  
**single sign on**  
CQRS And Event  
**Deploy**  
Sourcing To  
**microservices**  
Create Scalable,  
**with continuous**  
Maintainable, And  
**integration or**  
Testable  
**delivery, Blue-**  
Microservices  
**Green**

**deployment Who**  
**this book is for**  
**This book is for**



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Patterns And Best  
**architects and  
senior  
developers who  
would like  
implement  
microservice  
design patterns  
in their  
enterprise  
application  
development.  
The book**

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Practices: Explore  
Patterns Like  
CQRS And Event  
Sourcing To  
Create Scalable,  
Maintainable, And  
Testable  
Microservices

**assumes some  
prior  
programming  
knowledge.  
As Python  
continues to  
grow in  
popularity,  
projects are  
becoming larger  
and more  
complex. Many**

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Patterns Like  
CQRS And Event  
Sourcing To  
Create Scalable,  
Maintainable, And  
Testable  
Microservices

**Python  
developers are  
now taking an  
interest in high-  
level software  
design patterns  
such as  
hexagonal/clean  
architecture,  
event-driven  
architecture,  
and the**

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Patterns And Best  
**strategic  
patterns  
prescribed by  
domain-driven  
design (DDD).**  
But translating  
those patterns  
into Python isn't  
always  
straightforward.  
With this hands-  
on guide, Harry

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CQRS And Event  
Sourcing To  
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Maintainable, And  
Testable  
Microservices

**Percival and  
Bob Gregory  
from MADE.com  
introduce  
proven  
architectural  
design patterns  
to help Python  
developers  
manage  
application  
complexity—and**

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Practices: Explore

Patterns Like

CORS And Event

Sourcing To

Create Scalable,

Maintainable, And

Testable

Microservices

**get the most**

**value out of**

**their test suites.**

**Each pattern is**

**illustrated with**

**concrete**

**examples in**

**beautiful,**

**idiomatic**

**Python, avoiding**

**some of the**

**verbosity of Java**

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Patterns And Best  
**and C# syntax.**  
Practices: Explore  
**Patterns**  
Patterns Like  
**include:**  
CORS And Event  
**Dependency**  
Sourcing To  
**inversion and its**  
Create Scalable,  
**links to ports**  
Maintainable, And  
**and adapters**  
Testable  
**(hexagonal/clea**  
Microservices  
**n architecture)**  
**Domain-driven**  
**design's**  
**distinction**

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Patterns Like  
CQRS And Event  
Sourcing To  
Create Scalable,  
Maintainable, And  
Testable  
Microservices  
Events,  
commands, and  
the message bus  
Command-query



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**responsibility**  
Practices: Explore  
**segregation**  
Patterns Like  
**(CQRS) Event-**  
CQRS And Event  
**driven**  
Sourcing To  
**architecture and**  
Create Scalable,  
**reactive**  
Maintainable, And  
**microservices**  
Testable  
**How do you**  
Microservices  
**detangle a**  
**monolithic**  
**system and**  
**migrate it to a**

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Create Scalable,

Maintainable, And

Testable

Microservices

Building

Extremely

Popular

Building

Building

Building

**microservice  
architecture?  
How do you do it  
while  
maintaining bus  
iness-as-usual?  
As a companion  
to Sam  
Newman's  
extremely  
popular  
Building**

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Maintainable, And

Testable

Microservices

Microservices

Microservices

Microservices

Microservices

Microservices

Microservices

Microservices

Microservices

Microservices

Microservices

**Microservices,  
this new book  
details a proven  
method for  
transitioning an  
existing  
monolithic  
system to a  
microservice  
architecture.**

**With many  
illustrative**

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Patterns And Best  
**examples,**  
Practices: Explore  
**insightful**  
Patterns Like  
**migration**  
CQRS And Event  
**patterns, and a**  
Sourcing To  
**bevy of practical**  
Create Scalable,  
**advice to**  
Maintainable, And  
**transition your**  
Testable  
**monolith**  
Microservices  
**enterprise into a**  
**microservice**  
**operation, this**  
**practical guide**

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Practices: Explore

Patterns Like

QRS And Event

Sourcing To

Create Scalable,

Maintainable, And

Testable

Microservices

**covers multiple scenarios and strategies for a successful migration, from initial planning all the way through application and database decomposition.**

**You'll learn**

*Page 101/369*

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Patterns Like

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Create Scalable,

Maintainable, And

Testable

Microservices

**several tried and tested patterns and techniques that you can use as you migrate your existing architecture.**

**Ideal for organizations looking to transition to microservices,**

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CQRS And Event

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Maintainable, And

Testable

Microservices

Addresses

communication,

integration, and

the migration of

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Patterns And Best  
**legacy systems**  
Discusses  
Patterns Like  
**multiple**  
CQRS And Event  
**migration**  
Sourcing To  
**patterns and**  
Create Scalable,  
**where they**  
Maintainable, And  
**apply Provides**  
Testable  
**database**  
Microservices  
**migration**  
**examples, along**  
**with**  
**synchronization**



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Patterns And Best  
**strategies**  
Explores  
application  
**decomposition,**  
including  
several  
architectural  
refactoring  
patterns Delves  
into details of  
database  
**decomposition,**

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Patterns And Best  
**including the**  
**Practices: Explore**  
**impact of**  
**Patterns Like**  
**breaking**  
**CQRS And Event**  
**referential and**  
**Sourcing To**  
**transactional**  
**Create Scalable,**  
**integrity, new**  
**Maintainable, And**  
**failure modes,**  
**Testable**  
**and more**  
**Microservices**  
**Java EE 8**  
**Design Patterns**  
**and Best**  
**Practices**

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Patterns Like

CQRS And Event

Sourcing To

Create Scalable,

Maintainable, And

Testable

Microservices

Designing,

Developing, and

Deploying

Monolith to

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**Microservices**  
Practices: Explore  
**A**  
Patterns Like  
**comprehensive**  
CQRS And Event  
**guide to**  
Sourcing To  
**building smart**  
Create Scalable,  
**and reusable**  
Maintainable, And  
**code in Java**  
Testable  
**With examples**  
Microservices  
**in Java**  
**Microservices**  
**for the**  
**Enterprise**

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Practices: Explore

Design Patterns And Best

Practices To Build Scalable And

High Performing

Apps Key Features

Understand

Traditional GOF

Design Patterns To

Apply Generic

Solutions Shift From

OOP To FP; Covering

Reactive And

Microservices

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**concurrent patterns  
in a step-by-step  
manner Choose the  
best microservices  
architecture and  
MVC for your  
development  
environment Book  
Description Design  
patterns enable you  
as a developer to  
speed up the  
development  
process by**

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Patterns And Best

*providing you with  
proven development*

*paradigms. Reusing*

*design patterns*

*helps prevent*

*complex issues that*

*can cause major*

*problems, improves*

*your code base,*

*promotes code*

*reuse, and makes an*

*architecture more*

*robust. The mission*

*of this book is to*

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Practices: Explore  
ease the adoption of  
design patterns in  
Kotlin and provide  
good practices for  
programmers. The  
book begins by  
showing you the  
practical aspects of  
smarter coding in  
Kotlin, explaining  
the basic Kotlin  
syntax and the  
impact of design  
patterns. From



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**Patterns While**  
**Creating And Rent**  
**Sourcing To**  
**Create Scalable,**  
**Maintainable, And**  
**Testable**  
**Microservices**  
**programming. It**  
**then takes you**  
**through reactive and**  
**concurrent patterns,**

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Patterns And Best  
**teaching you about  
using streams,  
threads, and  
coroutines to write  
better code along  
the way By the end  
of the book, you will  
be able to efficiently  
address common  
problems faced  
while developing  
applications and be  
comfortable working  
on scalable and**

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**Patterns And Best**  
**maintainable**  
**projects of any size.**  
**What you will learn**  
**Get to grips with**  
**Kotlin principles,**  
**including its**  
**strengths and**  
**weaknesses**  
**Understand**  
**classical design**  
**patterns in Kotlin**  
**Explore functional**  
**programming using**  
**built-in features of**

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Practices: Explore

Reactive And  
Concurrent Design

Patterns Use

threads and

coroutines to  
simplify concurrent

code flow

Understand

antipatterns to write

clean Kotlin code,

avoiding common

pitfalls Learn about

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**Patterns And Best**  
**Practices: Explore**  
**the design**  
**considerations**  
**necessary while**  
**choosing between**  
**architectures Who**  
**this book is for This**  
**book is for**  
**developers who**  
**would like to master**  
**design patterns with**  
**Kotlin to build**  
**efficient and**  
**scalable**  
**applications. Basic**

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Patterns And Best  
Practices: Explore  
Patterns Like  
knowledge is  
assumed  
And Event  
Sourcing To  
Create Scalable,  
Maintainable, And  
Testable  
Microservices

***Java or Kotlin programming knowledge is assumed. With the immense cost savings and scalability the cloud provides, the rationale for building cloud native applications is no longer in question. The real issue is how. With***

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Patterns And Best  
*this practical guide,  
Practices: Explore  
about the most  
commonly used  
design patterns for  
building cloud  
native applications  
using APIs, data,  
events, and streams  
in both greenfield  
and brownfield  
development. You'll  
learn how to  
incrementally*

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**Practices: Explore**  
**design, develop, and**  
**deploy large and**  
**effective cloud**  
**native applications**  
**that you can**  
**manage and**  
**maintain at scale**  
**with minimal cost,**  
**time, and effort.**  
**Authors Kasun**  
**Indrasiri and**  
**Sriskandarajah**  
**Suhothayan**  
**highlight use cases**



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Patterns And Best  
*that effectively*  
Practices: Explore  
*demonstrate the*  
Patterns And Best  
*challenges you*  
Patterns And Best  
*might encounter at*  
Patterns And Best  
*each step. Learn the*  
Patterns And Best  
*fundamentals of*  
Patterns And Best  
*cloud native*  
Patterns And Best  
*applications Explore*  
Patterns And Best  
*key cloud native*  
Patterns And Best  
*communication,*  
Patterns And Best  
*connectivity, and*  
Patterns And Best  
*composition*  
Patterns And Best  
*patterns Learn*  
Patterns And Best  
*decentralized data*

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**management**  
**techniques Use**  
**event-driven**  
**architecture to build**  
**distributed and**  
**scalable cloud**  
**native applications**  
**Explore the most**  
**commonly used**  
**patterns for API**  
**management and**  
**consumption**  
**Examine some of**  
**the tools and**

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Patterns And Best  
**technologies you'll  
need for building  
cloud native  
systems**  
And Event  
**Learn and use the  
design patterns and  
best practices in  
Spring to solve  
common design  
problems and build  
user-friendly  
microservices Key  
Features Study the  
benefits of using the**

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*right design pattern  
in your toolkit*  
Manage your code  
easily with Spring's  
dependency  
injection pattern  
Explore the features  
of Docker and  
Mesos to build  
successful  
microservices Book  
Description Getting  
Started with Spring  
Microservices

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Spring Framework  
5.0, its design  
patterns, and its  
guidelines that  
enable you to  
implement  
responsive  
microservices at  
scale. You will learn  
how to use GoF  
patterns in  
application design.

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Patterns And Best

Practices: Explore

*the dependency*

*injection pattern,*

*which is the main*

*principle behind the*

*decoupling process*

*of the Spring*

*Framework and*

*makes it easier to*

*manage your code.*

*Then, you will learn*

*how to use proxy*

*patterns in aspect-*

*oriented*

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**programming and  
remoting. Moving  
on, you will  
understand the  
JDBC template  
patterns and their  
use in abstracting  
database access.  
After understanding  
the basics, you will  
move on to more  
advanced topics,  
such as reactive  
streams and**

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**concurrency.**  
**Written to the latest**  
**specifications of**  
**Spring that focuses**  
**on Reactive**  
**Programming, the**  
**Learning Path**  
**teaches you how to**  
**build modern,**  
**internet-scale Java**  
**applications in no**  
**time. Next, you will**  
**understand how**  
**Spring Boot is used**



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**Patterns And Best**  
**Practices: Explore**  
**to deploying**  
**serverless**  
**autonomous**  
**services by**  
**removing the need**  
**to have a**  
**heavyweight**  
**application server.**  
**You'll also explore**  
**ways to deploy your**  
**microservices to**  
**Docker and**  
**managing them with**  
**Mesos. By the end**

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of this Learning  
Path, you will have  
the clarity and  
confidence for  
implementing  
microservices using  
Spring Framework.  
This Learning Path  
includes content  
from the following  
Packt products:  
Spring 5  
Microservices by  
Rajesh R V Spring 5**

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**Design Patterns by  
Dinesh Rajput What  
you will learn**  
Develop  
**applications using  
dependency  
injection patterns  
Build web  
applications using  
traditional Spring  
MVC patterns Utilize  
the reactive  
programming  
pattern to build**

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**Microservices is  
ideal for Spring  
developers who  
want to use design  
patterns to solve  
common design  
problems and build  
cloud-ready, Internet-  
scale applications,  
and simple RESTful  
services.**

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progressive steps

that platform

engineers can apply

technically and

organizationally to

achieve highly

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invaluable catalog of  
sixty-five patterns,**

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*with real-world  
solutions that  
demonstrate the  
formidable of  
messaging and help  
you to design  
effective messaging  
solutions for your  
enterprise. The  
authors also include  
examples covering a  
variety of different  
integration  
technologies, such*

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**as JMS, MSMQ,  
TIBCO  
ActiveEnterprise,  
Microsoft BizTalk,  
SOAP, and XSL. A  
case study  
describing a bond  
trading system  
illustrates the  
patterns in practice,  
and the book offers  
a look at emerging  
standards, as well  
as insights into what**

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**the future of**  
**enterprise**  
**integration might**  
**hold. This book**  
**provides a**  
**consistent**  
**vocabulary and**  
**visual notation**  
**framework to**  
**describe large-scale**  
**integration solutions**  
**across many**  
**technologies. It also**  
**explores in detail**

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**authors present**  
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**and provide**  
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**you determine when**  
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**how to route it to the**  
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**and how to monitor**  
**the health of a**  
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**If you want to know**  
**how to manage,**  
**monitor, and**  
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**once it is in use, get**  
**this book.**



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***how to get the***

***best out of***

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***maintain  
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ease, and  
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this book, you'll  
learn how to***

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***book will take***

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***approaches to***

***building***

***distributed***

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organization.  
Starting with a  
set of simple  
cooperating  
microservices  
developed using  
Spring Boot,**

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***you'll learn how  
you can add  
functionalities  
such as  
persistence,  
make your  
microservices  
reactive, and  
describe their  
APIs using Swag  
ger/OpenAPI. As  
you advance,***



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***to add different***  
***services from***  
***Spring Cloud to***  
***your***  
***microservice***  
***system. The book***  
***also***  
***demonstrates***  
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**you'll be able to**  
**build**  
**microservices**  
**that are scalable**

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***and robust using***

***Spring Boot and***

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***using Spring***

***Boot Develop***

***resilient and***

***scalable***

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*using Spring  
CloudUse OAuth  
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Spring Security  
to protect public  
APIsImplement  
Docker to bridge  
the gap between  
development,  
testing, and  
productionDeplo  
y and manage*

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**traffic**  
Testable  
**management** Who  
Microservices  
**this book is for**  
**This book is for**  
**Java and Spring**  
**developers and**

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**architects who  
want to learn how  
to break up their  
existing  
monoliths into  
microservices,  
and deploy them  
either on-  
premises or in  
the cloud using  
Kubernetes as a  
container**

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***orchestrator and***

***Istio as a service***

***Mesh. No***

***familiarity with***

***microservices***

***architecture is***

***required to get***

***started with this***

***book.***

***Summary The***

***Tao of***

***Microservices***



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***guides you on  
the path to  
understanding  
how to apply  
microservice  
architectures to  
your own real-  
world projects.  
This high-level  
book offers a  
conceptual view  
of microservice***

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with core  
concepts and  
their application.  
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***About the  
Technology An  
application, even  
a complex one,  
can be designed  
as a system of  
independent  
components,  
each of which  
handles a single  
responsibility.  
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**design to build**  
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**and maintain.**  
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**Microservice**  
**applications rely**  
**on modern**  
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Optimized To Work

Well In Cloud And

Container-centric

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About the Book

*The Tao of*

*Microservices*

*guides you on*

*guides you on*

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***the path to  
understanding***

***and building  
microservices.***

***Based on the  
invaluable***

***experience of  
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***guru Richard***

***Rodger, this book  
exposes the***

***thinking behind***

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***microservice***

***designs. You'll***

***master individual***

***concepts like***

***asynchronous***

***messaging,***

***service APIs, and***

***encapsulation as***

***you learn to***

***apply***

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***architecture to***

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***real-world  
projects. Along  
the way, you'll  
dig deep into  
detailed case  
studies with  
source code and  
documentation  
and explore best  
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***planning for  
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**microservices**  
**About the Reader**  
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**Examples use**  
**JavaScript and**  
**Node.js. About**  
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***CEO of voxgig, a social network for the events industry, has many years of experience building microservice-based systems for major global companies. Table of Contents***

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**on**  
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frameworks for  
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Get the deep  
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considerations  
and solve***

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*design and*

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***developers. Java***

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***Practices helps***

***developers attain***

***better code***

***quality and***

***progress to***

***higher levels of***

***architectural***

***creativity by***

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implementation

with various code

examples. This

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you through a

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**EE, and then will**  
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**move on to**  
**implement**  
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***presentation tier,  
business tier, and  
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***Further, you will  
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***patterns involved  
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***Oriented***

***Programming***

***(AOP) and take a***

***closer look at***

***reactive patterns.***

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***Moving on, you  
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will get  
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***and operational***

***patterns involved***

***in scaling and***

***monitoring, along***

***with some***

***patterns involved***

***in deployment.***

***By the end of the***

***book, you will be***

***able to efficiently***

***address common***

***problems faced***

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***want to learn how***

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***to create robust,***

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*provides a  
comprehensive  
understanding of  
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principles and  
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**microservices  
with service  
integration and  
API management  
are presented  
and you learn  
how to eliminate  
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***service bus (ESB)***

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***Concepts in the***

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*implementing in a  
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***Java***

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***microservices***

CQRS And Event

***using Spring***

Sourcing To

***Cloud, Istio, and***

Create Scalable,

***Kubernetes***

Maintainable, And

***Production-***

Testable

***Ready***

Microservices

***Microservices***

**The standard**

**platform for**

**enterprise**

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**application**  
Practices: Explore  
**development has**  
Patterns Like  
**been EJB but the**  
QRS And Event  
**difficulties of**  
Sourcing To  
**working with it**  
Create Scalable,  
**caused it to become**  
Maintainable, And  
**unpopular. They**  
Testable  
**also gave rise to**  
Microservices  
**lightweight**  
**technologies such**  
**as Hibernate,**  
**Spring, JDO,**

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**Patterns And Best**  
**iBATIS and others,**  
**Practices: Explore**  
**all of which allow**  
**Patterns Like**  
**the developer to**  
**CQRS And Event**  
**work directly with**  
**Sourcing To**  
**the simpler POJOs.**  
**Create Scalable,**  
**Now EJB version 3**  
**Maintainable And**  
**solves the problems**  
**Testable**  
**that gave EJB 2 a**  
**Microservices**  
**black eye-it too**  
**works with POJOs.**  
**POJOs in Action**  
**describes the new,**

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**easier ways to  
develop enterprise  
Java applications.  
It describes how to  
make key design  
decisions when  
developing business  
logic using POJOs,  
including how to  
organize and  
encapsulate the  
business logic,**

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**access the database,  
manage  
transactions, and  
handle database  
concurrency. This  
book is a new-  
generation Java  
applications guide:  
it enables readers  
to successfully  
build lightweight  
applications that**

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**are easier to  
develop, test, and  
maintain.**

Practices: Explore  
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QRS And Event  
**Summary**  
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**Microservices in  
Action is a  
practical book  
about building and  
deploying  
microservice-based  
applications.**

**Written for**  
*Page 206/369*

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Microservices**

**developers and  
architects with a  
solid grasp of  
service-oriented  
development, it  
tackles the  
challenge of  
putting  
microservices into  
production.**

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Create Scalable,

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Microservices

applications

because they're

built as a system of

independent

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**components.**

**Master a few**

**important new**

**patterns and**

**processes, and**

**you'll be ready to**

**develop, deploy,**

**and run production-**

**quality**

**microservices.**

**About the Book**

**Microservices in**

**Action teaches you  
how to write and  
maintain  
microservice-based  
applications.  
Created with day-to-  
day development in  
mind, this  
informative guide  
immerses you in  
real-world use  
cases from design**

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**to deployment.**

**You'll discover how  
Patterns Like  
microservices**

**enable an efficient  
continuous delivery  
pipeline, and**

**explore examples  
using Kubernetes,  
Docker, and Google**

**Container Engine.  
What's inside An  
overview of**

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**microservice  
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**Building a delivery  
pipeline Best  
practices for  
designing multi-  
service transactions  
and queries**  
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Create Scalable,  
Maintainable, And  
Testable  
Microservices  
**Deploying with  
containers**  
**Monitoring your  
microservices**

**About the Reader**  
**Written for**  
**intermediate**  
**developers familiar**  
**with enterprise**  
**architecture and**  
**cloud platforms**  
**like AWS and**  
**GCP. About the**  
**Author Morgan**  
**Bruce and Paulo A.**  
**Pereira are**

**experienced  
engineering  
leaders. They work  
daily with  
microservices in a  
production  
environment, using  
the techniques  
detailed in this  
book. Table of  
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The lay of the land**

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SimpleBank PART

2 - Design

Architecture of a

microservice

application

Designing new

features

Transactions and



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**framework PART**  
**3 - Deployment**  
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Maintainable, And  
a monitoring  
Testable  
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and traces to  
understand  
behavior Building  
microservice teams**

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Microservices

Features Learn the

details of popular

software patterns

and how they are

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**Understand key**  
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**Serverless**

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**applications handle**

Sourcing To

**many problems**

Create Scalable,

**that developers**

Maintainable, And

**face when running**

Testable

**systems and**

Microservices

**servers. The**

**serverless pay-per-**

**invocation model**

**can also result in**

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**drastic cost  
savings,  
contributing to its  
popularity. While  
it's simple to create  
a basic serverless  
application, it's  
critical to structure  
your software  
correctly to ensure  
it continues to  
succeed as it grows.**

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serverless

Maintainable And

Testable

Microservices

**Serverless Design**

**Patterns and Best**

**Practices presents**

**patterns that can be**

**adapted to run in a**

**serverless**

**environment. You**

**will learn how to**

**develop**

**applications that**

**are scalable, fault**

**tolerant, and well-**

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Sourcing To

Create Scalable,

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Testable

Microservices

tested. The book

begins with an

introduction to the

different design

pattern categories

available for

serverless

applications. You

will learn the trade-

offs between

GraphQL and

REST and how



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they fare regarding

overall application

design in a

serverless

ecosystem. The

book will also show

you how to migrate

an existing API to a

serverless backend

using AWS API

Gateway. You will

learn how to build

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**event-driven  
applications using  
patterns like  
queuing and  
streaming systems,  
such as AWS  
Simple Queuing  
Service (SQS) and  
AWS Kinesis.  
Patterns for data-  
intensive serverless  
application are also  
explained,**

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**including the**  
**lambda**  
**architecture and**  
**MapReduce. This**  
**book will equip you**  
**with the knowledge**  
**and skills you need**  
**to develop scalable**  
**and resilient**  
**serverless**  
**applications**  
**confidently. What**

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**patterns currently**  
Sourcing To  
**being used with**  
Create Scalable,  
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Maintainable, And  
**architectures**  
Testable  
**Understand the**  
Microservices  
**various design**  
**options and**  
**corresponding**  
**implementations**

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**for serverless web  
application APIs**  
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**Learn multiple  
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intensive serverless  
Create Scalable,  
systems and  
Maintainable, And  
pipelines, including  
Testable  
MapReduce and  
Microservices  
Lambda**

**Architecture Learn  
how to leverage  
hosted databases,**

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**queues, streams,  
storage services,  
and notification  
services**  
Understand error  
handling and  
system monitoring  
in a serverless  
architecture a  
serverless  
architecture Learn  
how to set up a

**serverless  
application for  
continuous  
integration,  
continuous  
delivery, and  
continuous  
deployment Who  
this book is for If  
you're a software  
architect, engineer,  
or someone who**

**wants to build serverless applications, which are non-trivial in complexity and scope, then this book is for you. Basic knowledge of programming and serverless computing concepts are assumed.**



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JavaScript

frameworks,

iPhone

applications, and

API-centric

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**architectures. It  
might seem like  
grabbing stuff  
from a data source  
and shoving it out  
as JSON would be  
easy, but surviving  
changes in business  
logic, database  
schema updates,  
new features, or  
deprecated**

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Microservices

endpoints can be a

nightmare. After

finding many of the

existing resources

for API

development to be

lacking, Phil

learned a lot of

things the hard way

through years of

trial and error.

This book aims to

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**condense that  
experience, taking  
examples and  
explanations  
further than the  
trivial apples and  
pears nonsense  
tutorials often  
provide. By passing  
on some best  
practices and  
general good advice**

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**you can hit the  
ground running  
with API  
development,  
combined with  
some horror stories  
and how they were  
overcome/avoided/a  
verted. This book  
will discuss the  
theory of designing  
and building APIs**

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**in any language or  
Practices: Explore  
framework, with  
Patterns Like  
this theory applied  
CQRS And Event  
in PHP-based  
Sourcing To  
examples.**

**This invaluable,  
Maintainable, And  
roadmap for  
Testable  
startup engineers  
Microservices  
reveals how to  
successfully handle  
web application  
scalability**

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**challenges to meet**

**increasing product**

**and traffic**

**demands. Web**

**Scalability for**

**Startup Engineers**

**shows engineers**

**working at startups**

**and small**

**companies how to**

**plan and**

**implement a**

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**comprehensive**

**scalability strategy.**

**It presents broad**

**and holistic view of**

**infrastructure and**

**architecture of a**

**scalable web**

**application.**

**Successful startups**

**often face the**

**challenge of**

**scalability, and the**



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Patterns And Best

**core concepts**

**driving a scalable**

**architecture are**

**language and**

**platform agnostic.**

**The book covers**

**scalability of HTTP-**

**based systems**

**(websites, REST**

**APIs, SaaS, and**

**mobile application**

**backends), starting**

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Create Scalable,  
Maintainable, And  
Testable  
Microservices

**with a high-level perspective before taking a deep dive into common challenges and issues. This approach builds a holistic view of the problem, helping you see the big picture, and then introduces**

**different technologies and best practices for solving the problem at hand. The book is enriched with the author's real-world experience and expert advice, saving you precious time and effort by learning from**

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**others' mistakes**

**and successes.**

**Language-agnostic**

**approach addresses**

**universally**

**challenging**

**concepts in Web de**

**velopment/scalabili**

**ty—does not**

**require knowledge**

**of a particular**

**language Fills the**

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**gap for engineers  
in startups and  
smaller companies  
who have limited  
means for getting  
to the next level in  
terms of  
accomplishing  
scalability**  
Strategies

presented help to  
decrease time to

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**market and**  
**increase the**  
**efficiency of web**  
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**Build enterprise-**  
**ready scalable**  
**applications with**  
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Applications With  
Ease! They say  
breaking big tasks  
into small, simple and  
doable tasks is the  
secret to getting stuff  
done fast. In the tech*



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*world, nothing  
represents this  
concept of breaking  
big  
tasks/goals/projects  
into small, bit sized  
tasks (modular  
components/services)  
that can be done by  
multiple people and  
teams than  
macroservices. And*

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Microservices

shifting from

monolithic

applications to self-

contained

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*microservices.*

*However, while  
microservices are  
indeed great for  
designing, building,  
deploying,  
maintaining and  
scaling complex  
applications fast,  
these systems can be  
challenging to  
understand and put*

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*together to work as  
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efficiently as  
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expected. If you are  
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new to the whole  
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Maintainable, And  
you are probably  
Testable  
wondering.... So,  
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what are the benefits  
of using  
microservices? Why  
should you use*

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makes them so  
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special? How can you  
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use microservices  
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Testable  
develop microservices  
Microservices  
that function*

*properly? How do  
you troubleshoot  
everything? And how*

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*service*  
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*communication*  
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*problems? If you*  
*have any of these*  
*and any other related*  
*questions, this book is*

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*for you so keep  
reading, as this  
detailed yet simple  
guide will show you  
the grounding  
concepts while diving  
into current solutions  
for integrating,  
modeling, deploying,  
testing and  
monitoring your own  
autonomous services.*

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*More precisely, inside  
this book, you will*

*learn: The basics of  
microservices,*

*including what they  
are, the approach*

*behind microservices,  
the evolution of*

*microservices and the  
features of*

*microservices How*

*communication works*



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*and how to deal with*  
*them Everything you*

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*much more Even if*  
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*this is the first time*  
*coming across the*  
*term 'microservices',*  
*worry no more*

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*because this book  
takes a beginner  
friendly approach to  
ensure you  
understand  
everything you learn  
and can start putting  
it into action! Are you  
ready to take your  
application  
development skillset  
to the next level with*

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Key Features This  
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book demonstrates  
the shift from OOP to  
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programming and*



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a clear and step-by-  
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step manner All the  
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design patterns come  
Create Scalable,  
with a practical use  
Maintainable, And  
case as part of the  
Testable  
explanation, which  
Microservices  
will improve your  
productivity Tackle  
all kinds of  
performance-related*

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enables you, as a  
Maintainable, And  
developer, to improve  
Testable  
your code base,  
Microservices  
promote code reuse,  
and make the  
architecture more  
robust. As languages*

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*evolve, new features  
Practices: Explore  
take time to fully  
Patterns Like  
understand before  
CQRS And Event  
they are adopted en  
Sourcing To  
masse. The mission  
Create Scalable,  
of this book is to ease  
Maintainable, And  
the adoption of the  
Testable  
latest trends and  
Microservices  
provide good  
practices for  
programmers. We  
focus on showing you*

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Practices: Explore  
Patterns Like  
CQRS And Event  
Sourcing To  
Create Scalable,  
Maintainable And  
Testable  
Microservices

*the practical aspects  
of smarter coding in  
Java. We'll start off  
by going over object-  
oriented (OOP) and  
functional  
programming (FP)  
paradigms, moving  
on to describe the  
most frequently used  
design patterns in  
their classical format*

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*and explain how  
Java's functional  
programming  
features are changing  
them. You will learn  
to enhance  
implementations by  
mixing OOP and FP,  
and finally get to  
know about the  
reactive  
programming model,*

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Practices: Explore

*where FP and OOP*

*are used in*

*conjunction with a*

*view to writing better*

*code. Gradually, the*

*book will show you*

*the latest trends in*

*architecture, moving*

*from MVC to*

*microservices and*

*serverless*

*architecture. We will*

*Page 270/369*

*architecture. We will*

*Page 270/369*

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Patterns And Best

*finish off by*

*highlighting the new*

*Java features and*

*best practices. By the*

*end of the book, you*

*will be able to*

*efficiently address*

*common problems*

*faced while*

*developing*

*applications and be*

*comfortable working*

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*on scalable and*  
*Practices: Explore*  
*Patterns Like*  
*of any size. What*  
*CQRS And Event*  
*you will learn*  
*Sourcing To*  
*Understand the OOP*  
*Create Scalable,*  
*and FP paradigms'*  
*Maintainable, And*  
*Explore the*  
*Testable*  
*traditional Java*  
*Microservices*  
*design patterns Get to*  
*know the new*  
*functional features*  
*of Java See how*



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*design patterns are*  
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*changed and*  
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*affected by the new*  
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*what reactive*  
Create Scalable,  
*programming is and*  
Maintainable, And  
*why is it the natural*  
Testable  
*augmentation of FP*  
Microservices.  
*Work with reactive*  
*design patterns and*  
*find the best ways to*  
*solve common*

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*features Who this*  
*book is for This book*  
*is for those who are*  
*familiar with Java*

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*comes to modern*  
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*techniques. Basic*  
Maintainable, And  
*OOP Java*  
Testable  
*programming*  
Microservices  
*experience and*  
*elementary*  
*familiarity with Java*  
*is expected.*

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Maintainable, And  
Testable  
Microservices

*One of the biggest challenges for organizations that have adopted microservice architecture is the lack of architectural, operational, and organizational standardization. After splitting a monolithic*

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*application or  
building a  
microservice  
ecosystem from  
scratch, many  
engineers are left  
wondering what's  
next. In this practical  
book, author Susan  
Fowler presents a set  
of microservice  
standards in depth,*

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drawing from her  
experience  
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standardizing over a  
thousand  
CQRS And Event  
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microservices at  
Uber. You'll learn  
how to design  
Testable  
microservices that are  
Microservices  
stable, reliable,  
scalable, fault  
tolerant, performant,  
monitored,

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*documented, and  
prepared for any  
catastrophe. Explore  
production-readiness  
standards, including:  
Stability and  
Reliability: develop,  
deploy, introduce,  
and deprecate  
microservices; protect  
against dependency  
failures Scalability*

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*components for*  
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Create Scalable,  
*efficiency Fault*  
Maintainable, And  
*Tolerance and*  
Testable  
*Catastrophe*  
Microservices  
*Preparedness: ensure*  
*availability by*  
*actively pushing*  
*microservices to fail*



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*in real time*  
Monitoring: learn  
Patterns Like  
*how to monitor, log,  
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and display key  
Sourcing To  
metrics; establish  
Create Scalable  
alerting and on-call  
Maintainable, And  
procedures  
Testable  
Documentation and  
Microservices  
Understanding:  
*mitigate tradeoffs  
that come with  
microservice**

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*adoption, including  
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organizational sprawl  
Patterns Like  
and technical debt  
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Sourcing To  
Create Scalable,  
Maintainable, And  
Testable  
Microservices.*

—*Massimo Siani,*

*FinDynamic Key*

*Features Secure*

*microservices*

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access control, and m  
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communications  
Maintainable, And  
Deploy securely using  
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Kubernetes, Docker,  
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and the Istio service  
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examples and  
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*teaches you how to*  
*address microservices-*

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and address security  
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challenges at every  
level of a*

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Create Scalable,  
including throttling,  
Maintainable, And  
and monitoring,  
Testable  
access control at the  
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API gateway, and mi  
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microservice  
communication.*

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business use cases  
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ensure you can put  
Create Scalable,  
what you've learned  
Maintainable, And  
into action  
Testable  
immediately. What  
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concepts Edge  
services with an API



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*code level*  
*Create Scalable,*  
*Communications with*  
*Maintainable, And*  
*HTTP, gRPC, and*  
*Testable*  
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*experienced*  
*microservices*  
*developers with*

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*intermediate Java  
skills. About The  
Author Prabath  
Siriwardena is the  
vice president of  
security architecture  
at WSO2. Nuwan  
Dias is the director of  
API architecture at  
WSO2. They have  
designed secure  
systems for many*

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*3 Securing*  
*north/south traffic*  
*with an API gateway*

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*single-page*

*application 5*

*Engaging throttling,*

*monitoring, and*

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*COMMUNICATION*

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*Build maintainable*  
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Features Explore  
Sourcing To  
aspects of Django  
Create Scalable,  
from Models and  
Maintainable, And  
Views to testing and  
Testable  
deployment  
Microservices  
Understand the  
nuances of web  
development such as  
browser attack and*

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*data design Walk  
Practices: Explore*

*through various  
Patterns Like  
asynchronous tools*

*such as Celery and*

*Sourcing To  
Channels Book*

*Create Scalable,  
Description Building*

*Maintainable, And  
secure and*

*Testable  
maintainable web*

*Microservices  
applications requires*

*comprehensive*

*knowledge. The*

*second edition of this*



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Patterns Like  
CQRS And Event  
Sourcing To  
Create Scalable,  
Maintainable, And  
Testable  
Microservices

*book not only sheds light on Django, but also encapsulates years of experience in the form of design patterns and best practices. Rather than sticking to GoF design patterns, the book looks at higher-level patterns. Using the latest version of*

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asyncio while  
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building a solid  
Create Scalable,  
conceptual  
Maintainable, And  
background. The  
Testable  
book compares design  
Microservices  
choices to help you  
make everyday  
decisions faster in a  
rapidly changing

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*environment. You'll*

*first learn about*

*various architectural*

*patterns, many of*

*which are used to*

*build Django. You'll*

*start with building a*

*fun superhero project*

*by gathering the*

*requirements,*

*creating mockups,*

*and setting up the*

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*project. Through*  
*Practices: Explore*  
*project-guided*  
*Patterns Like*  
*examples, you'll*  
*CQRS And Event*  
*explore the Model,*  
*Sourcing To*  
*View, templates,*  
*Create Scalable,*  
*workflows, and code*  
*Maintainable, And*  
*reusability*  
*Testable*  
*techniques. In*  
*Microservices*  
*addition to this, you'll*  
*learn practical*  
*Python coding*  
*techniques in Django*

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*that'll enable you to  
tackle problems  
related to complex  
topics such as legacy  
coding, data  
modeling, and code  
reusability. You'll  
discover API design  
principles and best  
practices, and  
understand the need  
for asynchronous*

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workflows. During  
Practices: Explore  
this journey, you'll  
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study popular Python  
CQRS And Event  
code testing  
Sourcing To  
techniques in Django,  
Create Scalable,  
various web security  
Maintainable, And  
threats and their  
Testable  
countermeasures, and  
Microservices  
the monitoring and  
performance of your  
application. What  
you will learn Make

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*use of common  
design patterns to  
help you write better  
code Implement best  
practices and idioms  
in this rapidly  
evolving framework  
Deal with legacy  
code and debugging  
Use asynchronous  
tools such as Celery,  
Channels, and*

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*asyncio Use patterns  
while designing API  
Patterns Like  
interfaces with the  
Django REST  
Framework Reduce  
the maintenance,  
burden with well-  
tested, cleaner code  
Host, deploy, and  
secure your Django  
projects Who this  
book is for This book*



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Patterns And Best  
*is for you whether  
you're new to Django  
or just want to learn  
its best practices. You  
do not have to be an  
expert in Django or  
Python. No prior  
knowledge of  
patterns is expected  
for reading this book  
but it would be  
helpful.*

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traditional, reactive,  
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builds on decades  
of distributed,  
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adding new  
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patterns for  
composing  
services into  
systems that

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Microservices

scale and perform  
under real-world  
conditions. More  
than just a  
patterns catalog,  
this practical  
guide with  
worked examples  
offers industry-  
tested advice to  
help you design,  
implement, test,  
and deploy your

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management and

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developers  
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QRS And Event  
Richardson is a  
Sourcing Tools  
Java Champion, a  
Create Sample,  
JavaOne rock, And  
Maintainable, And  
Testable  
star, author of  
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in Action, and  
creator of the  
original CloudFou  
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Deploying

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Refactoring to

microservices

Microservices

As a developer,

you need to build

software in a

secure way. But



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Microservices

you can't spend  
all your time  
focusing on  
security. The  
answer is to use  
good design  
principles, tools,  
and mindsets that  
make security an  
implicit result -  
it's secure by  
design. Secure by  
Design teaches

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patterns, best  
practices, and  
mindsets that you  
can directly apply  
to your real world  
development.

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fun to read." -

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Satej Sahu,  
Honeywell API  
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lays out a set of  
design principles  
for building  
Create, Stable,  
internal and  
Maintainable, And  
public-facing APIs.  
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principles for API  
patterns

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best practices for  
building stable,  
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These design  
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developers  
building web and  
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About the author  
JJ Geewax is a  
software engineer  
at Google,  
focusing on  
Google Cloud

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**QRS And Event**  
**Streaming To**  
**Create Scalable,**  
**Maintainable, And**  
**Testable**  
**Microservices**

Microservices have been widely adopted for designing distributed enterprise apps, that are flexible, robust, and fine-grained into services that are independent of each other. There has been a



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paradigm shift  
Practices: Explore  
where  
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organizations are  
CORP And Event  
now either  
Sourcing To  
building new apps  
Centralizable,  
on microservices,  
Maintainable, And  
or transforming  
Testable  
existing  
Microservices  
monolithic apps  
into microservice  
s-based  
architecture. This  
book explores the

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importance of  
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the need to  
CQRS And Event  
address flaws in  
Sourcing To  
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Alternative, Available,  
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patterns. You'll  
Testable  
identify common  
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mistakes caused  
by a lack of  
understanding  
when

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implementing  
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microservices and  
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cover topics such  
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as organizational  
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readiness to  
**Go Scalable,**  
adopt  
**Multi-Cloud, And**  
microservices,  
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domain-driven  
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design, and  
resiliency and  
scalability of  
microservices.  
The book further

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GRPC And Event  
Sourcing To  
Greatly Simplify,  
Maintainable, And  
Testable  
Microservices

demonstrates the  
anti-patterns  
involved in re-  
platforming  
brownfield apps  
and designing  
distributed data  
architecture.

You'll also focus  
on how to avoid  
communication  
and deployment  
pitfalls and

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**Practices: Explore**  
understand cross-cutting concerns  
**Patterns Like**  
such as logging,  
**QRS And Event**  
monitoring, and  
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security. Finally,  
**Queue Queue**  
you'll explore  
**Health Checks, And**  
testing pitfalls,  
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and establish a  
**Microservices**  
framework to  
address isolation,  
autonomy, and  
standardization.  
By the end of this

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Critical mistakes  
to avoid while  
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microservices and  
the right practices  
to adopt early in  
the product life  
cycle to ensure  
the success of a  
microservices  
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of adopting  
Mainframe, And  
governance,  
Testable  
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itesting Understand  
the role of CI/CD  
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architects,  
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developers  
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designing  
microservices  
architecture and  
its development,

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Microservices

who want to gain insights into avoiding pitfalls and drawbacks in distributed applications, and save time and money that might otherwise get wasted if microservices designs fail.

Working

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Vaughn Vernon,  
presents concrete  
and realistic  
domain-driven  
design (DDD)  
techniques  
through examples  
from familiar

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domains, such as  
a Scrum-based  
Patterns Like  
project  
management  
application that  
integrates with a  
collaboration, And  
suite and security  
provider. Each  
Microservices  
principle is  
backed up by  
realistic Java  
examples, and all

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content is tied  
together by a  
single case study  
of a company  
charged with  
delivering a set of  
advanced,  
maintainable, and  
testable software systems  
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event sourcing to  
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elastic, and message-  
driven systems with



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evolving your  
monolithic  
applications into  
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Discover best  
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devops, and  
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teams to continuously  
deliver innovation with  
confidence. Begin by  
learning the core  
concepts that make  
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unique. You will

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production code with

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deployment and

testing all the way to

the left and

implementing

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Searching To  
your monolith and  
Create Scalable,  
design an evolving  
Maintainable, And  
cloud-native system.  
Testable  
By the end of the  
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book, you will have  
the ability to create  
modern cloud-native  
systems. What you  
will learn Enable

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massive scaling by  
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architectural problems  
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systems and are keen  
to learn the patterns  
involved. Basic  
knowledge of  
programming and

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