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Series

Patterns of

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Application

Architecture The

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Signature Series

**Enterprise
Application
Architecture
By Martin
Fowler**

**The eagerly
awaited Pattern
n-Oriented
Software
Architecture
(POSA)
Volume 4 is**

Page 2/274

Read Online
Patterns Of
Enterprise
Application
Architecture The
Addison Wesley
Signature Series
**about a
pattern
language for
distributed
computing.**

**The authors
will guide you
through the
best practices
and introduce
you to key
areas of**

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Patterns Of

Enterprise

Application

Architecture The

Addison Wesley

Signature Series

**building
distributed
software
systems. POA
4 connects
many stand-
alone patterns,
pattern
collections and
pattern
languages
from the**

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Application

Architecture The

Addison Wesley

Signature Series

**existing body
of literature
found in the
POSA series.
Such patterns
relate to and
are useful for
distributed
computing to a
single
language. The
panel of**

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Patterns Of

Enterprise

experts

provides you

with a

consistent and

coherent

holistic view

on the craft of

building

distributed

systems.

Includes a

foreword by

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Martin Fowler

A must read

for

practitioners

who want

practical

advice to

develop a

comprehensive

language

integrating

patterns from

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key literature.

Salary surveys

worldwide

regularly place

software

architect in

the top 10 best

jobs, yet no

real guide

exists to help

developers

become

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Enterprise

architects.

Application

Until now.

Architecture The

This book

Addison Wesley

provides the

Signature Series

first

comprehensive

overview of

software

architecture's

many aspects.

Aspiring and

existing

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**architects
alike will
examine
architectural
characteristics
, architectural
patterns,
component
determination,
diagramming
and presenting
architecture,**

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Application

Architecture The

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**evolutionary
architecture,
and many
other topics.
Mark Richards
and Neal Ford
—hands-on
practitioners
who have
taught
software
architecture**

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Enterprise

classes

Application

professionally

Architecture The

for

Addison Wesley

years—focus

Signature Series

on

architecture

principles that

apply across

all technology

stacks. You'll

explore

software

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Application

Architecture The

Addison Wesley

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**architecture in
a modern
light, taking
into account
all the**

**innovations of
the past
decade. This
book**

examines:

**Architecture
patterns: The**

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Application

Architecture The

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technical basis

for many

architectural

decisions

Components:

Identification,

coupling,

cohesion,

partitioning,

and

granularity

Soft skills:

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Enterprise

Application

Architecture The

Addison Wesley

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**Effective team
management,
meetings,
negotiation,
presentations,
and more**

**Modernity:
Engineering
practices and
operational
approaches
that have**

Read Online

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Enterprise

changed

Application

radically in the

Architecture The

past few years

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as an

engineering

discipline:

Repeatable

results,

metrics, and

concrete

valuations that

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Architecture The

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**add rigor to
software
architecture
Learn the
importance of
architectural
and design
patterns in
producing and
sustaining nex
t-generation
IT and busines**

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Application

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s-critical applications with this guide. About This Book Use patterns to tackle communication, integration, application structure, and more

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Enterprise

Application

Architecture The

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**Implement
modern design
patterns such
as
microservices
to build
resilient and
highly
available
applications
Choose
between the**

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Patterns Of

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Application

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**MVP, MVC,
and MVVM
patterns
depending on
the application
being built**

**Who This Book
Is For This
book will
empower and
enrich IT
architects**

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Enterprise

**(such as
enterprise
architects,
software
product**

**architects, and
solution and
system**

**architects),
technical
consultants,
evangelists,**

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and experts.

Application

What You Will

Architecture The

Learn

Addison Wesley

Understand

Signature Series

how several

architectural

and design

patterns work

to

systematically

develop

multitier web,

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**mobile,
embedded,
and cloud
applications**
**Learn object-
oriented and c
omponent-
based software
engineering
principles and
patterns**
Explore the

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Enterprise

frameworks

Application

corresponding

Architecture The

to various

Addison Wesley

architectural

Signature Series

patterns

Implement

domain-driven,

test-driven,

and behavior-

driven

methodologies

Deploy key

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Application

Architecture The

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Signature Series

**platforms and
tools**

**effectively to
enable EA**

design and

solutioning

Implement

various

patterns

designed for

the cloud

paradigm In

Read Online

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Enterprise

Application

Architecture The

Addison Wesley

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**Detail
Enterprise
Architecture
(EA) is
typically an
aggregate of
the business,
application,
data, and
infrastructure
architectures
of any forward-**

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Enterprise

Application

Architecture The

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Signature Series

**looking
enterprise.**

**Due to
constant
changes and
rising
complexities
in the business
and**

**technology
landscapes,
producing**

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Application

Architecture The

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**sophisticated
architectures
is on the rise.
Architectural
patterns are
gaining a lot
of attention
these days.
The book is
divided in
three modules.
You'll learn**

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Enterprise

Application

Architecture The

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Signature Series

**about the
patterns
associated
with object-
oriented, comp
onent-based,
client-server,
and cloud
architectures.**

**The second
module covers
Enterprise**

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Patterns Of

Enterprise

Application

Architecture The

Addison Wesley

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**Application
Integration
(EAI) patterns
and how they
are**

**architected
using various
tools and
patterns. You
will come
across
patterns for Se**

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Patterns Of

Enterprise

Application

Architecture The

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**Service-Oriented
Architecture
(SOA), Event-
Driven
Architecture
(EDA), Resour
ce-Oriented
Architecture
(ROA), big
data analytics
architecture,
and**

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Patterns Of

Enterprise

Application

Architecture The

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**Microservices
Architecture
(MSA). The
final module
talks about
advanced
topics such as
Docker
containers,
high
performance,
and reliable**

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Patterns Of

Enterprise

**application
architectures.**

The key

takeaways

include

understanding

what

architectures

are, why

they're used,

and how and

where

Read Online

Patterns Of

Enterprise

architecture,

design, and

integration

patterns are

being

leveraged to

build better

and bigger

systems. Style

and Approach

This book

adopts a hands-

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Enterprise

on approach

with real-

world

examples and

use cases.

for Agile

Software

Development

Enterprise

Integration

Patterns

Refactoring to

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Enterprise

Patterns

Application

Microservices

Architecture The

Patterns

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Enterprise

Application

Architecture

Advanced

Rails

*This is the eagerly-
anticipated revision
to one of the*

Page 36/274

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*seminal books in the
field of software
architecture which
clearly defines and
explains the topic.*

More and more

*Agile projects are
seeking*

architectural roots

*as they struggle with
complexity and scale*

- and they're seeking

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Application

Architecture The

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Signature Series

*lightweight ways to
do it Still seeking?*

*In this book the
authors help you to
find your own path*

*Taking cues from
Lean development,
they can help steer
your project toward
practices with
longstanding track
records Up-front*

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Patterns Of

*Enterprise
Application
Architecture The
Addison Wesley
Signature Series*
architecture? Sure.

*You can deliver an
architecture as code
that compiles and
that concretely*

*guides development
without bogging it
down in a mass of
documents and
guesses about the
implementation*

Documentation?

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Even a whiteboard diagram, or a CRC card, is documentation: the goal isn't to avoid documentation, but to document just the right things in just the right amount

Process? This all works within the frameworks of

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*Scrum, XP, and
other Agile
approaches*

*Patterns, Domain-
Driven Design*

(DDD), and Test-

Driven Development

(TDD) enable

architects and

developers to create

systems that are

powerful, robust,

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Enterprise

and maintainable.

Now, there's a comprehensive, practical guide to leveraging all these techniques primarily in Microsoft .NET environments, but the discussions are just as useful for Java developers.

Drawing on seminal

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Enterprise

work by Martin

Fowler (Patterns of

Enterprise

Application

Architecture) and

Eric Evans (Domain-

Driven Design),

Jimmy Nilsson

shows how to create

real-world

architectures for

any .NET

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Patterns Of

Enterprise Application Architecture The Addison Wesley Signature Series
application. Nilsson illuminates each principle with clear, well-annotated code examples based on C# 1.1 and 2.0. His examples and discussions will be valuable both to C# developers and those working with other .NET languages and

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Architecture The

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*any databases—even
with other
platforms, such as
J2EE. Coverage
includes · Quick
primers on patterns,
TDD, and
refactoring · Using
architectural
techniques to
improve software
quality · Using*

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Patterns Of

Enterprise

domain models to

support business

rules and validation

· Applying enterprise

patterns to provide

persistence support

via NHibernate ·

Planning effectively

for the presentation

layer and UI testing

· Designing for

Dependency

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Enterprise

Injection, Aspect

Orientation, and

other new

paradigms

A software

architect's digest of

core practices,

pragmatically

applied Designing

effective

architecture is your

best strategy for

Page 47/274

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managing project

complexity—and

improving your

results. But the

principles and

practices of

software

architecting—what

the authors call the

“science of hard

decisions”—have

been evolving for

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Enterprise

cloud, mobile, and

other shifts. Now

fully revised and

updated, this book

shares the

knowledge and real-

world perspectives

that enable you to

design for

success—and deliver

more successful

solutions. In this

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fully updated

Second Edition, you

will: Learn how only

a deep

understanding of

domain can lead to

appropriate

architecture

Examine domain-

driven design in

both theory and

implementation

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Patterns Of

*Enterprise
Application
Architecture The
Addison Wesley
Signature Series*
***Shift your approach
to code first, model
later—including
multilayer
architecture Capture
the benefits of
prioritizing software
maintainability See
how readability,
testability, and
extensibility lead to
code quality Take a***

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Enterprise

user experience

(UX) first approach,

rather than

designing for data

Review patterns for

organizing business

logic Use event

sourcing and CQRS

together to model

complex business

domains more

effectively Delve

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Application

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*inside the
persistence layer,
including patterns
and implementation.*

*Aligning Principles,
Practices, and
Culture*

*With examples in
Java*

Building

Evolutionary

Architectures

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Enterprise

Microsoft .NET -

Architecting

Applications for the

Enterprise

Architecture

Patterns with

Python

Enabling Test-

Driven

Development,

Domain-Driven

Design, and Event-

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Enterprise
Driven

Microservices

Larman covers how to investigate

requirements, create solutions and then translate designs into code, showing developers how to make practical use of the most significant recent developments. A summary of UML

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Python Way

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notation is included

As Python continues

to grow in popularity,

projects are becoming

larger and more

complex. Many

Python developers

are now taking an

interest in high-level

software design

patterns such as

hexagonal/clean

architecture, event-

driven architecture,

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and the strategic patterns prescribed by domain-driven design (DDD). But translating those patterns into Python isn't always straightforward. With this hands-on guide, Harry Percival and Bob Gregory from MADE.com introduce proven architectural design patterns to help Python

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developers manage application complexity—and 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 and C# syntax. Patterns include: Dependency inversion and its links

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Architecture: The

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to ports and adapters

(hexagonal/clean

architecture) Domain-

driven design's

distinction between

entities, value objects,

and aggregates

Repository and Unit of

Work patterns for

persistent storage

Events, commands,

and the message bus

Command-query

responsibility

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Architecture and The

Reactive microservices

Enterprise Patterns

and MDA teaches you

how to customize any

archetype

pattern—such as

Customer, Product,

and Order—to reflect

the idiosyncrasies of

your own business

environment.

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Application
Architecture
The
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Because all the patterns work harmoniously together and have clearly documented relationships to each other, you'll come away with a host of reusable solutions to common problems in business-software design. This book shows you how using a pattern or a

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Architecture

And

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fragment of a pattern
can save you months
of work and help you
avoid costly errors.
You'll also discover
how—when used in
literate
modeling—patterns
can solve the difficult
challenge of
communicating UML
models to broad
audiences. The
configurable patterns

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Application
Architecture
The
Authors draw on their
extensive experience
to show you how to
tap the significant
power of MDA and
UML for maximum
automation. Not
surprisingly, the
patterns included in
this book are highly
valuable; a blue-chip

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Artisan's Workbook

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company recently valued a similar, but less mature, set of patterns at hundreds of thousands of dollars. Use this practical guide to increase the efficiency of your designs and to create robust business applications that can be applied immediately in a business setting.

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As the digital economy changes the rules of the game for enterprises, the role of software and IT architects is also transforming. Rather than focus on technical decisions alone, architects and senior technologists need to combine organizational and technical knowledge

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to effect change in their company's structure and processes. To accomplish that, they need to connect the IT engine room to the penthouse, where the business strategy is defined. In this guide, author Gregor Hohpe shares real-world advice and hard-learned lessons from

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actual IT

transformations. His

anecdotes help

architects, senior

developers, and other

IT professionals

prepare for a more

complex but

rewarding role in the

enterprise. This book

is ideal for: Software

architects and senior

developers looking to

shape the company's

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technology direction
or assist in an
organizational
transformation
Enterprise architects
and senior
technologists
searching for practical
advice on how to
navigate technical
and organizational
topics CTOs and
senior technical
architects who are

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Application

Architecture The

Artisan's Way

Signature Series

devising an IT strategy that impacts the way the organization works IT managers who want to learn what's worked and what hasn't in large-scale transformation

Java EE 8 Design Patterns and Best Practices

Designing, Building, and Deploying

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Enterprise
Messaging Solutions
Application
Force.com Enterprise
Architecture The
The Software
Architect Elevator
Fowler

Fundamentals of
Software Architecture
**Get the deep
insights you need
to master efficient
architectural
design**

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Architecture The

Addison Wesley

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**considerations
and solve common
design problems
in your enterprise
applications. Key
Features The
benefits and
applicability of
using different
design patterns in
JAVA EE Learn
best practices to
solve common**

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Application
Architectural

challenges Choose

the right patterns

to improve the

efficiency of your

programs Book

Description

Patterns are

essential design

tools for Java

developers. Java

EE Design

Page 72/274

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Patterns and Best Practices helps developers attain better code quality and progress to higher levels of architectural creativity by examining the purpose of each available pattern and demonstrating its implementation

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with various code examples. This book will take you through a number of patterns and their Java EE-specific implementations. In the beginning, you will learn the foundation for, and importance of, design patterns in

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Java EE, and then will move on to implement various patterns on the presentation tier, business tier, and integration tier.

Further, you will explore the patterns involved in Aspect-Oriented Programming (AOP) and take a

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**closer look at
reactive patterns.
Moving on, you
will be introduced
to modern
architectural
patterns involved
in composing
microservices and
cloud-native
applications. You
will get acquainted
with security**

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**patterns 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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when developing applications and will be comfortable working on scalable and maintainable projects of any size. What you will learn Implement presentation layers, such as the front controller pattern

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**Understand the
business tier and
implement the
business delegate
pattern Master the
implementation of
AOP Get involved
with asynchronous
EJB methods and
REST services
Involve key
patterns in the
adoption of**

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microservices
Application
architecture
Architecture The
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Addison Wesley
performance and
Scalability Series
scalability for
enterprise-level
applications Who
this book is for
Java developers
who are
comfortable with
programming in
Java and now want

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**to learn how to
implement design
patterns to create
robust, reusable
and easily
maintainable apps.**

**Architect and
design highly
scalable, robust,
clean and highly
performant
applications in
.NET Core About**

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Application

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**This Book
Incorporate
architectural soft-
skills such as
DevOps and Agile
methodologies to
enhance program-
level objectives
Gain knowledge of
architectural
approaches on the
likes of SOA
architecture and**

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**microservices to
provide
traceability and
rationale for
architectural
decisions Explore
a variety of
practical use
cases and code
examples to
implement the
tools and
techniques**

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**described in the
book Who This
Book Is For This
book is for
experienced .NET
developers who
are aspiring to
become architects
of enterprise-grade
applications, as
well as software
architects who
would like to**

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Enterprise

leverage .NET to

create effective

blueprints of

applications. What

You Will Learn

Grasp the

important aspects

and best practices

of application

lifecycle

management

Leverage the

popular ALM tools,

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application

insights, and their

usage to monitor

performance,

testability, and

optimization tools

in an enterprise

Explore various

authentication

models such as

social media-

based

authentication,

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2FA and OpenID

Connect, learn

authorization

techniques

Explore Azure with

various solution

approaches for

Microservices and

Serverless

architecture along

with Docker

containers Gain

knowledge about

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the recent market trends and practices and how they can be achieved with .NET Core and Microsoft tools and technologies In Detail If you want to design and develop enterprise applications using .NET Core as the

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**development
framework and
learn about
industry-wide best
practices and
guidelines, then
this book is for
you. The book
starts with a brief
introduction to
enterprise
architecture, which
will help you to**

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**understand what
enterprise
architecture is and
what the key
components are. It
will then teach you
about the types of
patterns and the
principles of
software
development, and
explain the various
aspects of**

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distributed computing to keep your applications effective and scalable. These chapters act as a catalyst to start the practical implementation, and design and develop applications using different

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architectural approaches, such as layered architecture, service oriented architecture, microservices and cloud-specific solutions.

Gradually, you will learn about the different approaches and

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models of the
Security
framework and
explore various
authentication
models and
authorization
techniques, such
as social media-
based
authentication and
safe storage using
app secrets. By

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Signature Series

**the end of the
book, you will get
to know the
concepts and
usage of the
emerging fields,
such as DevOps,
BigData,
architectural
practices, and
Artificial
Intelligence. Style
and approach**

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Filled with examples and use cases, this guide takes a no-nonsense approach to show you the best tools and techniques required to become a successful software architect.

Master Java EE

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design pattern
implementation to
improve
your design skills
and your
application's
architecture
Professional Java
EE Design
Patterns is the
perfect companion
for anyone who
wants to work

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with JavaEE, and
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that covers both
the theory
and application of
design patterns in
solving real-world
problems.**

**The authors guide
readers through
both the
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advanced features

of Java EE 7,

presenting

patterns

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and demonstrating

how they are used

in day-to-day

problem solving.

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programming

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drivenenterprise

software, Java EE

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and runtimeenviro

nement that is a

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seeking to improve

design qualityand

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including:**

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solving with

design patterns

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between existing

Java SE design

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showing how
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real-life problems
Unlike most Java**

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EE books that simply offer descriptions or recipes, this book drives home the implementation of the pattern to real problems to ensure that the reader learns how the patterns should be used and to be

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revolutionized design
by introducing an
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improving code. With
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Patterns , Joshua
Kerievsky has
changed our
approach to design by
forever uniting
patterns with the
evolutionary process

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Kerievsky documents the thinking and steps

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patterns in the

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developers and

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Salesforce platform

from the perspective

of enterprise-level
requirements. A prior

understanding of

Apex and Visualforce

is a must. Those

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ecosystems will also

find this book ideal as

they adopt

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Will Learn Package,
install, test, and
upgrade an
application Define
architecture-aligning
data storage and
functional
requirements Develop
Apex code that is
easy to navigate, self-
documenting,
testable, robust, and
organic Leverage

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your application's
clientagnostic Service
layer backbone to
support numerous
platform areas Get
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clients Apply
querying, indexing,
and asynchronous
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requirements.

This text aims to help

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all members of the
development team

make the correct nuts-

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decisions that ensure

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Every enterprise

architect faces similar

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architecture of a

medium to large

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enterprise. Design patterns are a well-established concept in software engineering, used to define universally applicable solution schemes. By applying this approach to enterprise architectures, recurring problems in the design and implementation of

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enterprise

Application

architectures can be

solved over all layers,

from the business

layer to the

application and data

layer down to the

technology layer.

Inversini and Perroud

describe patterns at

the level of enterprise

architecture, which

they refer to as

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Architecture Patterns.

These patterns are motivated by recurring problems originating from both the business and the underlying application, or from data and technology architectures of an enterprise such as identity and access management or integration needs.

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Architecture Patterns

help in planning the

technological and

organizational

landscape of an

enterprise and its

information

technology, and are

easily embedded into

frameworks such as

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aimed at enterprise

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architects, software
architects, project
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and enterprise
architecture and
provides them with a
comprehensive
catalogue of ready-to-
use patterns as well
as an extensive
theoretical framework

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to define their own
new patterns.

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explains how to
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patterns at the
enterprise level,
allowing them to
design and
implement systems

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develop software
architectures. It
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examples in Java,
and guides students
by detailing when,
why, and how to

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use specific
patterns. This

textbook presents

42 design patterns,

including 23 GoF
patterns. Categories

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Collectional,

Structural,

Behavioral, and

Concurrency, with

multiple examples

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discussion of each pattern includes an example implemented in Java. The source code for all examples is found on a companion Web site. The author explains the content so that it is easy to understand, and each pattern discussion includes

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applied in isolation,
but collaborate
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solve complicated
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formidable of

messaging and help

you to design

effective messaging

solutions for your

enterprise. The

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different integration

technologies, such

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ActiveEnterprise,

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SOAP, and XSL. A

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describing a bond

trading system

illustrates the

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patterns in practice,
and the book offers
a look at emerging
standards, as well
as insights into
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integration might
hold. This book

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consistent

vocabulary and
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framework to

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integration

solutions across

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practical advice on

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and provide

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techniques for
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components, the

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"publish and
subscribe"

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using "adapters" to
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integrating Web
services, work-flow
management, and
he also supplies
proven code

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power the event
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proficiency and software design to get started. You'll get the most out of this software design book if you already know the basics of the cloud, but it isn't a prerequisite. Building Better Software with Archetype Patterns and UML

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development

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constantly

changing,

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constant stream

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of new tools,

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challenges
teams face
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quality microser
vices-based
applications,
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examples in

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enterprise
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Author Chris
Richardson is a
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a JavaOne rock
star, author of
Manning's POJOs
in Action, and
creator of the
original CloudFo
undry.com.

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(EA) in the
context of the
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popularity of
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also examines
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while
formulating
appropriate
mechanisms
and schemes for
sound
modernization
and migration of
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applications to
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and platforms.

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Constant

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leverage Java's
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mechanisms to design*

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applications and
considers code
modularity,
nonduplication,
network efficiency,
maintainability, and
reusability.*

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patterns and modern

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Description Building

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secure and

maintainable web

applications requires

comprehensive

knowledge. The

second edition of this

book not only sheds

light on Django, but

also encapsulates

years of experience in

the form of design

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patterns and best

practices. Rather than

sticking to GoF

design patterns, the

book looks at higher-

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Django and Python,

you'll learn about

Channels and asyncio

while building a solid

conceptual

background. The

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*book compares design
choices to help you
make everyday
decisions faster in a
rapidly changing
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*

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by gathering the requirements, creating mockups, and setting up the project. Through project-guided examples, you'll explore the Model, View, templates, workflows, and code reusability techniques. In addition to this,

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*you'll learn practical
Python coding
techniques in Django
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*

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*understand the need
for asynchronous
workflows. During
this journey, you'll
study popular Python
code testing
techniques in Django,
various web security
threats and their
countermeasures, and
the monitoring and
performance of your
application. What you*

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will learn Make 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
interfaces with the
Django REST*

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the maintenance

burden with well-

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Host, deploy, and

secure your Django

projects Who this

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is for you whether

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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. Methods for managing complex software construction

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following the

practices, principles

and patterns of

Domain-Driven

Design with code

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Design (DDD) in a

down-to-earth and

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developers building applications for complex domains. A focus is placed on the principles and practices of decomposing a complex problem space as well as the implementation patterns and best practices for shaping a maintainable

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*solution space. You
will learn how to*

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domain models

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tactical patterns and

how to retain their

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the strategic patterns

of DDD. Full end-to-

end coding examples

demonstrate

techniques for

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*integrating a
decomposed and
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space while coding
best practices and
patterns advise you
on how to architect
applications for
maintenance and
scale. Offers a
thorough
introduction to the
philosophy of DDD*

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for professional

developers Includes

masses of code and

examples of concept

in action that other

books have only

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REST, Event

Sourcing and Event-

Driven Architectures

Also ideal for Java

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developers who want

to better understand

the implementation of

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applications with
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patterns, novel
models, best
practices, The
performance
strategies, and
continuous
improvement
methodologies and
case studies. The
author shares his
years of experience
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security, enterprise
application testing,

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caching techniques,
production

operations and

maintenance, and

efficient project

management

techniques. Delivers

holistic view of

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security, caching,

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management

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and frameworks that
are illustrated with
end-to-end case
studies Offers tips
and troubleshooting
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application testing,
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production
operations and
project management
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synergies between

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techniques and
methodologies to
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scalability,
performance and
security quality
attributes
360-degree
viewpoint approach
for achieving overall
quality Practitioner
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patterns,

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Production

operations and

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Microservices can

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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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microservice
architectures

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systems and a

design process for
building a

microservice

architecture Learn

the fundamental

design concepts for
individual

microservices Delve
into the operational

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and Service
Discovery Discover
how to handle the
challenges of
introducing
microservice
architecture in your
organization
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provides CIOs,

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software architects, project managers, developers, and cloud strategy initiatives with a set of architectural patterns that offer nuggets of advice on how to achieve common cloud computing-related goals. The cloud computing patterns capture knowledge

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and experience in an abstract format that is independent of concrete vendor products. Readers are provided with a toolbox to structure cloud computing strategies and design cloud application architectures. By using this book cloud-native

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applications can be implemented and best suited cloud vendors and tooling for individual usage scenarios can be selected. The cloud computing patterns offer a unique blend of academic knowledge and practical experience due to the mix of authors. Academic

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knowledge is brought in by Christoph Fehling and Professor Dr. Frank Leymann who work on cloud research at the University of Stuttgart. Practical experience in building cloud applications, selecting cloud vendors, and

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designing enterprise

architecture as a

cloud customer is

brought in by Dr.

Ralph Retter who

works as an IT

architect at

T?Systems, Walter

Schupeck, who

works as a

Technology

Manager in the field

of Enterprise

Architecture at

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Daimler AG, and
Peter Arbitter, the

former head of T

Systems' cloud

architecture and IT

portfolio team and

now working for

Microsoft. Voices on

Cloud Computing

Patterns Cloud

computing is

especially beneficial

for large companies

such as Daimler AG.

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Prerequisite is a thorough analysis of

its impact on the

existing applications

and the IT

architectures.

During our

collaborative

research with the

University of

Stuttgart, we

identified a vendor-

neutral and

structured approach

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to describe

properties of cloud

offerings and

requirements on

cloud environments.

The resulting Cloud

Computing Patterns

have profoundly

impacted our

corporate IT

strategy regarding

the adoption of

cloud computing.

They help our

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architects, project
managers and

developers in the

refinement of

architectural

guidelines and

communicate

requirements to our

integration partners

and software

suppliers. Dr.

Michael Gorriz – CIO

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Today these cloud services cover a huge variety of corporate applications, especially enterprise resource planning, business

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voice
communication,
collaboration,
messaging and
mobility services.
The book was
written by senior
cloud pioneers
sharing their
technology foresight
combining essential
information and
practical
experiences. This

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valuable compilation helps both practitioners and clients to really understand which new types of services are readily available, how they really work and importantly how to benefit from the cloud. Dr. Marcus Hacke – Senior Vice President, T-

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This book provides

a conceptual
framework and very
timely guidance for
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building robust and
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applications and
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contributions to the

field. Each pattern

includes an

extensive

discussion of the

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important tool not just for individual practitioners and teams, but for the cloud computing community at large.

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A single dramatic
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Stability antipatterns

have grown to

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pragmatic guide to

engineering for

production systems.

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and includes
information on
chaos engineering,
the discipline of
applying
randomness and
deliberate stress to
reveal systematic

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particularly distributed systems

that stands up to

the typhoon winds

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*performance, e
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class business
solutions.*

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world*

*information
that's been
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platforms,

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such as Java

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and .NET, have

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commonplace.

These new

tools and

technologies

are capable of

building

powerful

applications,

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*but they are
not easily
implemented.
Common
failures in
enterprise
applications
often occur
because their
developers do
not understand
the*

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*architectural
lessons that
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object
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have learned.

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response to
the stiff
challenges
that face
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developers.
The author,
noted object-
oriented
designer
Martin Fowler,

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noticed that

despite

changes in tec

hnology--from

Smalltalk to

CORBA to Java

to .NET--the

same basic

design ideas

can be adapted

and applied to

solve common

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information,

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as well as

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detailed code

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book is also

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diagrams to

further

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to organize a

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for data that

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