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Delivery Reliable
Software Releases
Through Build
Reliable
Test And
Deployment
Automation Jez
Humble
Through
Build Test
And Deploy

Where To

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ment

Automation

Jez Humble

The overwhelming majority of a software system's lifespan is spent in use, not in design or implementation.

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So, why does conventional wisdom insist that software engineers focus primarily on the design and development of large-scale computing systems? In this collection of essays and articles, key

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*members of
Google's Site
Reliability Team
explain how and
why their
commitment to
the entire
lifecycle has
enabled the
company to
successfully
build, deploy,
monitor, and
maintain some of*

Where To Download

*the largest
software systems
in the world.
You'll learn the
principles and
practices that
enable Google
engineers to
make systems
more scalable,
reliable, and ef-
ficient—lessons
directly
applicable to*

Where To
Download
Continuous
your
organization.
This book is
divided into
four sections: I
ntroduction–Lear
n what site
reliability
engineering is
and why it
differs from
conventional IT
industry
practices Princi

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ples—Examine the patterns, behaviors, and areas of concern that influence the work of a site reliability engineer (SRE) Practices—Understand the theory and practice of an SRE's day-to-day work: building and

Where To Download

*operating large
distributed
computing
systems Manage
nt—Explore
Google's best
practices for
training,
communication,
and meetings
that your
organization can
use*

Follow this step-

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*Continuous
Delivery, Reliable
Software Releases
Through Build
Test And
Deployment
Automation Jez
Humble*

*by-step guide
for creating a
continuous
delivery
pipeline using
all of the new
features in
Jenkins 2.0 such
as Pipeline as a
Code, multi-
branch pipeline,
and more. You
will learn three
crucial elements*

Where To Download

*for achieving a
faster software
delivery Releases
pipeline: a
fungible
build/test
environment,
manageable and
reproducible
pipelines, and a
scalable
build/test
infrastructure.*

Pro Continuous

Where To
Download
Continuous
Delivery
demonstrates how
to create a
highly
available,
active/passive
Jenkins server
using some niche
technologies.

What You'll
Learn Create a
highly
available,
active/passive

Where To Download

*Jenkins server
using CoreOS and
Docker, and*

*using Pacemaker
and Corosync Use
a Jenkins multi-
branch pipeline
to automatically
perform*

*continuous
integration
whenever there
is a new branch
in your source*

Where To

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continuous

Describe your

continuous

delivery

pipeline with

Jenkinsfile Host

Jenkins server

on a cloud

solution Run

Jenkins inside a

container using

Docker Discover

how the

distributed

Where To Download

*nature of Git
and the “merge
before build”*

*feature of
Jenkins can be
used to
implement gated
check-in*

*Implement a
scalable build
farm using
Docker and
Kubernetes Who
This Book Is For*

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Continuous

You have

experience

implementing

continuous

integration and

continuous

delivery using

Jenkins

freestyle Jobs

and wish to use

the new Pipeline

as a Code

feature

introduced in

Where To Download

Jenkins 2.0 Your source code is on a Git-like version control system (Git, GitHub, GitLab, etc.) and you wish to leverage the advantages of a multi-branch pipeline in Jenkins Your infrastructure is on a Unix-

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*like platform
and you wish to
create a Releases
scalable,
distributed
build/test farm
using Docker or
Kubernetes You
are in need of a
highly available
system for your
Jenkins Server
using open
source tools and*

Where To Download

*technologies
Web services
have been used
for many years.
In this time,
developers and
architects have
encountered a
number of
recurring design
challenges
related to their
usage, and have
learned that*

Where To Download

*certain service
design*

approaches work

better than

others to solve

certain

problems. In

Service Design

Patterns, Rob

Daigneau

codifies proven

design solutions

for web services

that follow the

Where To
Download
Continuous
REST
architectural
style or Releases
leverage the
SOAP/WSDL
specifications.
This catalogue
identifies the
fundamental
topics in web
service design
and lists the
common design
patterns for

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each topic. All patterns identify the context in which they may be used, explain the constituent design elements, and explore the relative strengths and trade-offs. Code examples are provided to help

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you better understand how the patterns work but are kept general so that you can see how the solutions may be applied to disparate technologies that will inevitably change in the

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years to come.
This book will
help readers
answer the
following
questions: How
do you create a
web service API,
what are the
common API
styles, and when
should a
particular style
be used? How can

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clients and web services communicate, and what are the foundations for creating complex conversations in which multiple parties exchange data over extended periods of time? What are the options for implementing

Where To
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Continuous
web service
Delivery Reliable
logic, and when
Software Releases
should a
particular
Through Build
approach be
Test And
used? How can
Deployment
clients become
Automation Jez
less coupled to
Humble
the underlying
systems used by
a service? How
can information
about a web
service be

Where To Download

*discovered? How
can generic
functions like
authentication,
validation,
caching, and
logging be
supported on the
client or
service? What
changes to a
service cause
clients to
break? What are*

Where To Download

*the common ways
to version a
service? How can
web services be
designed to
support the
continuing
evolution of
business logic
without forcing
clients to
constantly
upgrade? This
book is an*

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Software Releases

Through Build

solution

architects, and

developers who

use web services

to create

enterprise IT

applications,

commercial or

open source

products, and

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Continuous
Delivery (Reliable
Software Releases
Through Build
emerging Cloud
platforms.
Test and
Deployment
Automation Jez
Humble

Software as a
Service (SaaS)
products that
leverage
emerging Cloud
platforms.
Start thinking
about your
development
pipeline as a
mission-critical
application.

Discover
techniques for

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*implementing
code-driven
infrastructure
and CI/CD*

*workflows using
Jenkins, Docker,
Terraform, and
cloud-native
services. In
Pipeline as*

*Code, you will
master: Building
and deploying a
Jenkins cluster*

Where To

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from scratch

Writing pipeline

as code for releases

cloud-native

applications

Automating the

deployment of

Dockerized and

Serverless

applications

Containerizing

applications

with Docker and

Kubernetes

Where To
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Deploying
Delivery Reliable
Jenkins on AWS,
GCP and Azure
Software Releases
Managing, Build
Through, securing and
Test And
monitoring a
Deployment
Jenkins cluster
Automation, Jez
in production
Humble
Key principles
for a successful
DevOps culture
Pipeline as Code
is a practical
guide to

Where To Download

*automating your
development
pipeline in a
cloud-native,
service-driven
world. You'll
use the latest i
nfrastructure-as-
code tools like
Packer and
Terraform to
develop reliable
CI/CD pipelines
for numerous*

Where To Download

*cloud-native
applications.*

Follow this

book's

insightful best

practices, and

you'll soon be

delivering

software that's

quicker to

market, faster

to deploy, and

with less last-

minute

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production bugs.

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print book

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Kindle, and ePub

formats from

Manning

Publications.

About the

technology Treat

your CI/CD

pipeline like

the real

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application it is. With the Pipeline as Code approach, you create a collection of scripts that replace the tedious web UI wrapped around most CI/CD systems. Code-driven pipelines are easy to use,

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modify, and maintain, and your entire CI pipeline becomes more efficient because you directly interact with core components like Jenkins, Terraform, and Docker. About the book In Pipeline as Code

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*you'll learn to
build reliable
CI/CD pipelines
for cloud-native
applications.*

*With Jenkins as
the backbone,
you'll*

*programmatically
control all the
pieces of your
pipeline via
modern APIs.*

Hands-on

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examples include building CI/CD workflows for distributed Kubernetes applications, and serverless functions. By the time you're finished, you'll be able to swap manual UI-based adjustments with a fully

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automated
Delivery Reliable
approach! What's
inside Build and
Software Releases
Through Jenkins
cluster on scale
Test And
Write pipeline
Deployment
as code for
Automation Jez
cloud-native
Humble
applications
Automate the
deployment of
Dockerized and
serverless
applications

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*Deploy Jenkins
on AWS, GCP, and*

*Azure Grasp key
principles of a
successful*

*DevOps culture
About the reader*

*For developers
familiar with
Jenkins and*

*Docker. Examples
in Go. About the
author Mohamed*

Labouardy is the

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CTO and co-founder of Crew.work, a Jenkins contributor, and a DevSecOps evangelist.
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Engineering

Automation Jez

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Web Operations

The Science of

Lean Software

and DevOps:

Building and

Scaling High

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Performing
Delivery Reliable
Technology
Organizations
Release It!
Through Build
Service Design
Test And
Patterns
Deployment
What is DevOps?
Automation Jez
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Humble
Software
Releases Through
Build, Test, and
Deployment
Automation
Continuous delivery

Where To Download

Continuous Delivery adds enormous value to the business and the entire software delivery lifecycle, but adopting this practice means mastering new skills typically outside of a developer's comfort zone. In this practical book, Daniel Bryant and Abraham Marín-Pérez provide guidance to help experienced Java

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Continuous Delivery Reliable Software Releases Through Build Test And Deployment Automation Jez Humble

developers master skills such as architectural design, automated quality assurance, and application packaging and deployment on a variety of platforms.

Not only will you learn how to create a comprehensive build pipeline for continually delivering effective software, but you'll

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also explore how Java
application

architecture and

deployment platforms

have affected the way

we rapidly and safely

deliver new software

to production

environments. Get

advice for beginning

or completing your

migration to

continuous delivery

Design architecture to

Where To Download

enable the continuous delivery of Java applications Build application artifacts including fat JARs, virtual machine images, and operating system container (Docker) images Use continuous integration tooling like Jenkins, PMD, and find-secbugs to automate code quality checks

Where To Download

Create a comprehensive build pipeline and design software to separate the deploy and release processes

Explore why functional and system quality attribute testing is vital from development to delivery

Learn how to effectively build and test applications

Where To Download

locally and observe
your system while it
runs in production

Today, even the
largest development
organizations are
turning to agile
methodologies,
seeking major
productivity and
quality improvements.
However, large-scale
agile development is
difficult, and publicly

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available case studies
have been scarce.

Now, three agile
pioneers at Hewlett-
Packard present a
candid, start-to-finish
insider's look at how
they've succeeded
with agile in one of
the company's most
mission-critical
software
environments:
firmware for HP

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LaserJet printers. This book tells the story of an extraordinary experiment and journey. Could agile principles be applied to re-architect an enormous legacy code base? Could agile enable both timely delivery and ongoing innovation? Could it really be applied to 400+

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Delivery, Reliable
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Automation, Jez
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developers distributed
across four states,
three continents, and
four business units?

Could it go beyond
delivering incremental
gains, to meet the
stretch goal of 10x
developer productivity
improvements? It
could, and it did—but
getting there was not
easy. Writing for both
managers and

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technologists, the authors candidly discuss both their successes and failures, presenting actionable lessons for other development organizations, as well as approaches that have proven themselves repeatedly in HP's challenging environment. They

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not only illuminate the potential benefits of agile in large-scale development, they also systematically show how these benefits can actually be achieved.

- Coverage includes:
- Tightly linking agile methods and enterprise architecture with business objectives •

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Focusing agile practices on your worst development pain points to get the most bang for your buck • Abandoning classic agile methods that don't work at the largest scale • Employing agile methods to establish a new architecture • Using metrics as a “conversation starter”

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around agile process
improvements •

Leveraging Releases

continuous integration
and quality systems to
reduce costs,
accelerate schedules,
and automate the
delivery pipeline •

Taming the planning
beast with “light-
touch” agile planning
and lightweight long-
range forecasting •

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Implementing
effective project

management and

Ensuring Build

accountability in large
agile projects •

Managing tradeoffs
associated with key

decisions about

organizational

structure •

Overcoming

U.S./India cultural

differences that can

Where To Download

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Delivery Reliable
development •

Selecting tools to
Software Releases

support quantum
Thought Build

leaps in productivity in
Test And
your organization •

Using change
Deployment
management Jez

disciplines to support
Humble
greater enterprise
agility

How well does your
organization respond
to changing market

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conditions, customer needs, and emerging technologies when building software-based products? This practical guide presents Lean and Agile principles and patterns to help you move fast at scale—and demonstrates why and how to apply these paradigms

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throughout your organization, rather than with just one department or team.

Through case studies, you'll learn how successful enterprises have rethought everything from governance and financial management to systems architecture and organizational culture

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Continuous
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in the pursuit of
radically improved
performance.

Discover how Lean
Through Built
Test And
Deployment
Automation, Jez
Humble
focuses on people
and teamwork at
every level, in
contrast to traditional
management

practices Approach
problem-solving
experimentally by
exploring solutions,
testing assumptions,

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and getting feedback from real users Lead and manage large-scale programs in a way that empowers employees, increases the speed and quality of delivery, and lowers costs Learn how to implement ideas from the DevOps and Lean Startup movements even in complex,

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regulated
Delivery, Reliable
environments
The step-by-step
Software Releases
guide to going live
Through Build
with new software
Test And
releases faster -
Deployment
reducing risk and
Automation, Jez
delivering more value
Humble!
sooner! * *Fast,
simple, repeatable
techniques for
deploying working
code to production in
hours or days, not

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months! *Crafting
custom processes
that get developers
from idea to value
faster than ever. *Best
practices for
everything from
source code control to
dependency
management and in-
production tracing.
*Common obstacles
to rapid release - and
pragmatic solutions.

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In too many organizations, build, testing, and

deployment processes can take six months or more.

That's simply far too long for today's businesses. But it doesn't have to be that way. It's possible to deploy working code to production in hours or days after

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development work is complete - and Go Live presents comprehensive processes and techniques for doing so. Written by two of the world's most experienced software project leaders, this book demonstrates how to dramatically increase speed while reducing risk and

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improving code
quality at the same
time. The authors
cover all facets of
build, testing, and
deployment,
including:
configuration
management, source
code control, release
planning, auditing,
compliance,
integration, build
automation, and

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more. They introduce a wide range of advanced techniques, including in production monitoring and tracing, dependency management, and the effective use of virtualization. For each area, they explain the issues, show how to mitigate the risks, and present best practices.

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Throughout, *Go Live* focuses on powerful opportunities for individual improvement, clearly and simply explaining skills and techniques so they can be used every day on real projects. With this book's help, any development organization can move from idea to

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release faster -- and
deliver far more value,
far more rapidly.

Azure DevOps Server
2019 Cookbook

Scaling Web
Resources

Faster, Safer

Software Delivery

Effective DevOps

Infrastructure as Code

Continuous Delivery
with Docker and

Jenkins

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Continuous
Unraveling Software
Delivery, Reliable
Maintenance and
Evolution Releases

Continuous Build

Integration

**A web
application
involves many
specialists, but
it takes people
in web ops to
ensure that
everything**

Where To
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works together throughout an application's lifetime. It's the expertise you need when your start-up gets an unexpected spike in web traffic, or when a new feature causes your mature

Where To
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Delivery, Reliable
Software Releases
Through Build
Test And
Deploy*

**application to
fail. In this
collection of
essays and
interviews, web
veterans such
as Theo Jez
Schlossnagle,
Baron
Schwartz, and
Alistair Croll
offer insights
into this**

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evolving field.

You'll learn

stories from the

trenches--from

builders of

some of the

biggest sites on

the Web--on

what's

necessary to

help a site

thrive. Learn

the skills

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*needed in web
operations, and
why they're
gained through
experience
rather than
schooling*

*Understand
why it's
important to
gather metrics
from both your
application and*

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infrastructure
Delivery Reliable
Consider
Software Releases
common
approaches to
database
architectures
and the pitfalls
that come with
increasing scale
Learn how to
handle the
human side of
outages and

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degradations
Find out how
one company
avoided
disaster after a
huge traffic
deluge **Discover**
what went
wrong after a
problem occurs,
and how to
prevent it from
happening

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again
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Matt Massie
Brian Moon
Anoop Nagwani
Sean Power **Eric**
Ries **Theo** **Jez**
Schlossnagle
Baron Schwartz
Andrew Shafer
As
programmers,
we've all seen

Where To
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**Continuous
Delivery Reliable
Software Releases
Through Build
Test And
Deploy**
**source code
that's so ugly
and buggy it
makes our
brain ache.**

**Over the past
five years, Jez
authors Dustin
Boswell and
Trevor Foucher
have analyzed
hundreds of
examples of**

Where To

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Continuous

"bad code"

(much of it

their own) to

determine why

they're bad and

how they could

be improved.

Their

conclusion? You

need to write

code that

minimizes the

time it would

take to be

fixed.

Humble

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take someone

else to

Delivery Reliable

understand

Software Releases

it—even if that

Through Build

someone else is

Test And

you. This book

Deployment

focuses on

Automation Jez

basic principles

Warrior

and practical

techniques you

can apply every

time you write

code. Using

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**easy-to-digest
code examples
from different
languages,
each chapter
dives into a
different aspect
of coding, and
demonstrates
how you can
make your code
easy to
understand.**

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Tools
***Simplify
naming,
commenting,
and formatting
with tips that
apply to every
line of code***

***Refine your
program's
loops, logic,
and variables to
reduce
complexity and***

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confusion
Delivery Reliable
Attack
Software Releases
problems at the
Through Build
function level,
Test And
such as
Reorganizing
reorganizing
Blocks of code
blocks of code
to do one task
to do one task
at a time Write
at a time Write
effective test
effective test
code that is
code that is
thorough and
thorough and
concise—as well
concise—as well

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Download

as readable

**"Being aware of
how the code
you create**

affects those

**who look at it
later is an**

important part

**of developing
software. The**

**authors did a
great job in**

taking you

Where To
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Through Build
Test And
Deploy Jez
Warrior

**through the
different
aspects of this
challenge,
explaining the
details with
instructive
examples."**

**—Michael
Hunger,
passionate
Software
Developer**

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e Software
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omation Addiso
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Shingo
Publication**

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Accelerate your
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organization to
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win in the
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marketplace.
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How can we
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apply
Hardware
technology to
drive business
value? For
years, we've
been told that
the

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**performance of
software
delivery teams
doesn't
matter—that it
can't provide a
competitive
advantage to
our companies.
Through four
years of
groundbreaking
research to**

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**Continuous
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**include data
collected from
the State of
DevOps reports
conducted with
Puppet, Dr.
Nicole Jez
Forsgren, Jez
Humble, and
Gene Kim set
out to find a
way to measure
software**

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**delivery perfor
mance—and
what drives
it—using
rigorous
statistical
methods. This
book presents
both the
findings and
the science
behind that
research,**

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**making the
information
accessible for
readers to
apply in their
own
organizations.
Readers will
discover how to
measure the
performance of
their teams,
and what**

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capabilities
Delivery, Reliable
they should
Software Releases
invest in to
Through Build
drive higher
Test And
performance.
Deployment
This book is
Introduction Jez
ideal for
Warrior
management at
every level.
DevOps for
Digital Leaders
Design, User
Experience, and

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**Usability:
Theory,
Methodology,
and
Management
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Delivery
A Practical
Guide to
Continuous
Delivery
Reliable
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Delivery, Reliable
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Quality and
Reducing Risk

Understand the
principles of
software
architecture with
coverage on SOA,

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distributed and

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messaging

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systems, and

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database modeling

Test And

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architectural

Humble

approaches on

SOA and

microservices for

architectural

decisions Explore

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Continuous

different

Delivery Reliable

architectural

Software Releases

patterns for

Through Build

building distributed

Test And

applications Migrat

Deployment

e applications

Automation Jez

written in Java or

Humble

Python to the Go

language Book

Description

Description

Description

Building software

requires careful

requires careful

requires careful

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Deployment
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planning and
architectural
considerations;
Golang was
developed with a
fresh perspective
on building next-
generation
applications on the
cloud with
distributed and
concurrent

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Continuous
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concerns. Hands-
Software Releases
On Software
Through Build
Architecture with
Test And
Golang starts with
Deployment
a brief introduction
Automation Jez
to architectural
Humble
elements, Go, and
a case study to
demonstrate
architectural
principles. You'll

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then move on to look at code-level aspects such as modularity, class design, and constructs specific to Golang and implementation of design patterns.

As you make your way through the chapters, you'll

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Test And
Deployment
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explore the core objectives of architecture such as effectively managing complexity, scalability, and reliability of software systems. You'll also work through creating distributed

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Test And
Deployment
Automation Jez
Humble

systems and their communication before moving on to modeling and scaling of data. In the concluding chapters, you'll learn to deploy architectures and plan the migration of applications from other

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languages. By the end of this book, you will have gained insight into various design and architectural patterns, which will enable you to create robust, scalable architecture using Golang. What you

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will
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learn Understand
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architectural
Through Build
paradigms and
Test And
deep dive into Micr
Deployment
oservices Design p
Automation Jez
parallelism/concurre
Humble
ncy patterns and
learn object-
oriented design
patterns in
GoExplore API-

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driven systems
architecture with
introduction to
REST and
GraphQL
standards
event-driven
architectures and
make your
architectures anti-
fragile
scalability and

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learn how to
migrate to Go from
other
languages
Get to
grips with
deployment
considerations with
CI/CD pipeline,
cloud
deployments, and
so on
Build an end-
to-end e-

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commerce (travel)

Delivery Reliable

application

Software Releases

backend in

Through Build

GoWho this book

is for Hands-On

Deployment

Software

Automation Jez

Architecture with

Humble

Golang is for

software

developers,

architects, and

CTOs looking to

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use Go in their
software
architecture to
build enterprise-
grade applications.
Programming
knowledge of
Golang is
assumed.

Six years ago,
Infrastructure as
Code was a new

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concept. Today, as
even banks and
other conservative
organizations plan
moves to the
cloud,
development
teams for
companies
worldwide are
attempting to build
large infrastructure

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codebases. With this practical book, Kief Morris of ThoughtWorks shows you how to effectively use principles, practices, and patterns pioneered by DevOps teams to manage cloud-age infrastructure.

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Ideal for system administrators, infrastructure engineers, software developers, team leads, and architects, this updated edition demonstrates how you can exploit cloud and

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Continuous

automation

Delivery Reliable

technology to

Software Releases

make changes

Through Build

easily, safely,

Test And

quickly, and

Deployment

responsibly. You'll

Automation Jez

learn how to define

Humble

everything as code

and apply software

design and

engineering

practices to build

practices to build

Where To Download

your system from
small, loosely
coupled pieces.

This book covers:

Foundations: Use

Infrastructure as

Code to drive

continuous change

and raise the bar

of operational

quality, using tools

and technologies

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Continuous
Delivery Reliable
Software Releases
Working with
Through Build
infrastructure
Test And
stacks: Learn how
Deployment
to define,
Automation Jez
Humble
provision, test, and
continuously
deliver changes to
infrastructure
resources Working
with servers and

Where To Download

other platforms:
Use patterns to
design
provisioning and
configuration of
servers and
clusters Working
with large systems
and teams: Learn
workflows,
governance, and
architectural

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Delivery Reliable
Software Releases
Infrastructure
Through Build
elements
Test And
Software
Deployment
maintenance work
Automation Jez
Humble
is often considered
a dauntingly rigid
activity - this book
proves the
opposite: it
demands high

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levels of creativity
and thinking
outside the box.

Highlighting the
creative aspects of
software
maintenance and
combining

analytical and
systems thinking in
a holistic manner,
the book motivates

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Continuous Delivery Reliable Software Releases Through Build Test And Deployment Automation Jez Humble

readers not to blithely follow the beaten tracks of “technical rationality”. It delivers the content in a pragmatic fashion using case studies which are woven into long running story lines. The

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book is organized in four parts, which can be read in any order, except for the first chapter, which introduces software maintenance and evolution and presents a number of case studies of software failures.

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The “Introduction to Key Concepts” briefly introduces the major elements of software maintenance by highlighting various core concepts that are vital in order to see the forest for the trees. Each such

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concept is
illustrated with a
worked example.

Next, the “Forward
Engineering” part
debunks the myth
that being fast and
successful during
initial development
is all that matters.

To this end, two
categories of

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forward
Delivery Reliable
engineering are
Software Releases
considered: an
Through Build
inept initial project
Test And
with a multitude of
Deployment
hard evolutionary
Automation Jez
phases and an
Humble
effective initial
project with
multiple
straightforward
future increments.

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“Reengineering and Reverse Engineering” shows the difficulties of dealing with a typical legacy system, and tackles tasks such as retrofitting tests, documenting a system,

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restructuring a
system to make it
amenable for
further
improvements, etc.

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Lastly, the
“DevOps” section
focuses on the
importance and
benefits of
crossing the
development

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versus operation

Delivery Reliable

chasm and

Software Releases

demonstrates how

Through Build

the DevOps

Test And

paradigm can turn

Deployment

a loosely coupled

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design into a

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loosely deployable

solution. The book

is a valuable

resource for

readers familiar

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with the Java
programming
language, and with
a basic
understanding
and/or experience
of software
construction and
testing. Packed
with examples for
every elaborated
concept, it offers

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complementary
material for
existing courses
and is useful for
students and
professionals alike.
Competent system
administrators
know their success
hinges upon being
able to perform
often tedious tasks

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with rigor and punctuality. Such metrics are often achieved only by instituting a considerable degree of automation, something that has become even more crucial as IT environments

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continue to scale
both in terms of
size and
complexity. One of
the most powerful
system
administration
tools to be
released is
Puppet, a solution
capable of
automating nearly

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every aspect of a
system
administrator's job,
from user
management, to
software
installation, to
even configuring
server services
such as FTP and
LDAP. Pulling
Strings with

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Puppet:
Configuration
Management
Made Easy is the
first book to
introduce the
powerful Puppet
system

administration tool.

Author James

Turnbull will guide

you through

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Puppet's key features, showing you how to install and configure the software, create automated Puppet tasks, known as recipes, and even create reporting solutions and extend Puppet further to your own

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needs. A bonus chapter is included covering the Facter library, which makes it a breeze to automate the retrieval of server configuration details such as IP and MAC addresses.

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Reignite Business
with a Modern
DevOps-Enabled
Software Factory
Reliable and faster
software releases
with automating
builds, tests, and
deployment
Thinking Outside
the Box
Modern Software

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Over Time

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Transformed

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Firmware

Writing for

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Farley
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students at
all levels of
experience,
Farley
illuminates
durable
principles at
the heart of
effective
software
development.

He distills

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the discipline
into two core
exercises:

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first,
learning and
exploration,
and second,
managing
complexity.

For each, he
defines
principles

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that can help
students
improve
everything
from their
mindset to the
quality of
their code,
and describes
approaches
proven to
promote

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success.

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and
foundational
approach to
solving
practical
software

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problems
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within
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realistic
Test And
economic
Deployment
constraints.
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This general,
durable, and
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approach to
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engineering

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can help
students solve
problems they
haven't
encountered
yet, using
today's
technologies
and
tomorrow's. It
offers
students

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deeper insight
into what they
do every day,
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create better
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addressing

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and young
users; DUXU
for art,
culture,
tourism and
environment;

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DUXU practice
and case
studies.

Through Build
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Learn to
design,
implement,
measure, and
improve DevOps
programs that
are tailored
to your
organization.

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This concise guide assists leaders who are accountable for the rapid development of high-quality software applications. In DevOps for Digital

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Leaders, deep
collective
experience on
both sides of
the dev-ops
divide informs
the global
thought

leadership and
penetrating
insights of
the authors,

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all three of
whom are cross-
portfolio
DevOps leaders
at CA
Technologies.
Aruna
Ravichandran,
Kieran Taylor,
and Peter
Waterhouse
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benefits,
costs,
freedoms, and
constraints of
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strategy of
organizational
change,
metrics, lean

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that an

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enterprise

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must undertake

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to realize the

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full potential

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of DevOps and

reach the

sweet spot

where

accelerating

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code
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deployments
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increasing
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customer
Deployment
satisfaction,
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revenue, and
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profitability.

Digital
leaders are
charged to
bridge the

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dev-ops

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disconnect if

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their

Through Build

organizations

Test And

are to survive

Deployment

and flourish

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in a business

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world

increasingly

differentiated

by the degree

to which

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dynamic
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application
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harmonizes
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resilience and
reliability.

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book applies
the DevOps

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perspective to
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challenge,
faced by every
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today, of
integrating
and automating
open source,

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across the
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development
life cycle
from
requirements
to release.

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What You Will
Learn: Remove
dependencies
and
constraints so
that parallel
practices can
accelerate the
development of
defect-free
software
Automate

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software releases
across the
software life
cycle to
eliminate
release
bottlenecks,
manual labor
waste, and
technical debt
accumulation

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analytics
Adopt agile
practices so
operations

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spot and

resolve

operations

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issues before
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production,
and improve
customer
experience
Identify the
DevOps metrics
appropriate to
your
organization
and integrate

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your existing
best practices
and investment
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large

companies and
government
agencies who
have any level

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for the rapid
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development of
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The secondary
readership is
members of
development
and operations

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best practices
and implement
Agile, Git, CI-

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branch
policies,
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deployment of
high quality
software by
automating
build and
releases using
CI-CD Pipeline
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and tested

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techniques to
automate
database
deployments,
App Service &
Function
Deployments in
Azure.Book

Description
Azure DevOps
Server,
previously

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known as Team Foundation Server (TFS), is a comprehensive on-premise DevOps toolset with a rich ecosystem of open source plugins. This book is your

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one stop guide
to learn how
to effectively
use all of
these Azure
DevOps
services to go
from zero to
DevOps. You
will start by
building high-
quality

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targeting
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Test And
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applications.
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You will learn
techniques
that will help
you to set up
end-to-end

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traceability
of your code
changes from
design through
to release.

Whether you
are deploying
software on-
premise or in
the cloud in
App Service,
Functions, or

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Azure VMs,
this book will
help you learn
release
management
techniques to
reduce release
failures.

Next, you will
be able to
secure
application

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configuration
by using Azure
KeyVault. You
will also
learn how to
create and
release
extensions to
the Azure
DevOps
marketplace
and reach

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million
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developer
Software Releases
ecosystem for
Through Build
feedback. The
Test And
working
Deployment
extension
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samples will
allow you to
iterate
changes in
your
extensions

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easily and
release
updates to the
marketplace
quickly. By
the end of
this book,
techniques
provided in
the book will
help you break
down the

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invisible
silos between
your software
development
teams. This
will transform
you from being
a good
software
development
team to an
elite modern

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functional
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will learnSet
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project for an
Agile delivery
team,
importing
requirements

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from ExcelPlan
, track, and
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progress using
self updating
boards, Sprint
and Kanban
boardsUnlock
the features
of Git by
using branch
policies, Git

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core, SQL and
Node.js
applications
using Azure Pi
pipelineAutomate
testing by
integrating
Microsoft and

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Azure DevOps
Test And
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Automation Jez
Humble
ecosystem Who
this book is
for This book
is for anyone
looking to

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succeed with
DevOps. The
techniques in
this book
apply to all
roles of the
software
development
lifecycle
including
developers,
testers,

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architects,
configuration
analysts, site
reliability
engineers and
release
managers. If
you are a new
user you'll
learn how to
get started;
if you are an

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user you'll
learn how to
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project into a
modern and
mature DevOps
enabled
software
development
team.

Unit Testing

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Software

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Deployment

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A Practical

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Industry

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Pro Continuous
Automation Jez
Delivery
Humble
Proven recipes
to accelerate
your DevOps
journey with
Azure DevOps

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Server 2019

(formerly
TFS), 2nd

Edition

Continuous

Delivery in

Java

Winner of the

2011 Jolt

Excellence

Award! Getting

software

released to

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*users is often a
painful, risky,
and time-
consuming
process. This
groundbreaking
new book sets
out the
principles and
technical
practices that
enable rapid,
incremental
delivery of high*

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quality,
Delivery, Reliable
valuable new
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functionality to
Users. Through
Through Built
automation of
Test And
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Deployment
deployment, and
Automation Jez
testing process,
Humble
and improved
collaboration
between
developers,
testers, and
operations,

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Deployment

Automation Jez

Humble

project or the

complexity of

its code base.

Jez Humble and

David Farley

begin by

Where To Download

presenting the foundations of a rapid, reliable, low-risk delivery process. Next, they introduce the "deployment pipeline," an automated process for managing all changes, from check-in to

Where To
Download
Continuous
release.
Delivery, Reliable
Software Releases
“ecosystem”
needed to
support
continuous
Automation, Jez
Humble
delivery, from
infrastructure,
data and
configuration
management to
governance. The
authors

Where To

Download

Continuous

introduce state-of-the-art

techniques,

including

automated

infrastructure

management and

data migration,

and the use of

virtualization.

For each, they

review key

issues, identify

best practices,

Where To Download

*Continuous
Delivery, Reliable
Software Releases*
and demonstrate
how to mitigate
risks. Coverage

*Through Build
Test And
Deployment
Automation, Jez
Humble,*
includes •
Automating all
facets of
building,
integrating,
testing, and
deploying
software •

*Implementing
deployment
pipelines at*

Where To
Download
Continuous
team and
Delivery Reliable
organizational
levels • Releases
Improving Build
collaboration
Test And
between
Deployment
developers,
Automation Jez
testers, and
Humble
operations •
Developing
features
incrementally on
large and
distributed

Where To

Download

Continuous

teams •

Implementing an

effective

configuration

management

strategy •

Automating

acceptance

testing, from

analysis to

implementation •

Testing capacity

and other non-

functional

Where To

Download

Continuous

requirements •

Delivery, Reliable

Implementing

Software Releases

Through Build

zero-downtime

Test And

releases •

Deployment

Managing

Automation, Jez

infrastructure,

Humble

data, components

and dependencies

• Navigating

risk management,

compliance, and

auditing Whether

Where To
Download
Continuous
you're a
Delivery Reliable
developer,
systems Releases
administrator,
tester, or
manager, this
book will help
your
organization
move from idea
to release
faster than
ever—so you can
deliver value to

Where To
Download
Continuous
your business
Delivery Reliable
rapidly and
Software Releases
reliably.
Through Build
Test And
Deployment
Automation Jez
Humble
This book
provides
essential
insights on the
adoption of
modern software
engineering
practices at
large companies
producing softwa
re-intensive

Where To

Download

Continuous

systems, where

Delivery Reliable

hundreds or even

Software Releases

thousands of

Through Build

engineers

Test And

collaborate to

Deployment

deliver on new

Automation Jez

systems and new

Humble

versions of

already deployed

ones. It is

based on the

findings

collected and

lessons learned

collected and

lessons learned

lessons learned

lessons learned

lessons learned

lessons learned

Where To
Download
Continuous
Delivery Reliable
Software Releases
collaboration
through build
between research
and industry,
with Chalmers
University of
Technology,
Gothenburg
University and
Malmö University
as academic
partners and

Where To Download

*Ericsson, AB
Volvo, Volvo Car
Corporation,
Saab Electronic
Defense Systems,
Grundfos, Axis
Communications,
Jeppesen
(Boeing) and
Sony Mobile as
industrial
partners. The 17
chapters present
the "Stairway to*

Where To Download

*Heaven” model,
which represents
the typical
evolution path
companies move
through as they
develop and
mature their
software
engineering
capabilities.
The chapters
describe
theoretical*

Where To
Download
Continuous
frameworks,
Delivery Reliable
conceptual
Software Releases
models and, most
Thought Build, the
importantly, the
Industrial
industrial
Test And
experiences
Deployment
gained by the
Automation Jez
partner
Humble
companies in
applying novel
software
engineering
techniques. The
book's structure

Where To Download

consists of six parts. Part I describes the model in detail and presents an overview of lessons learned in the collaboration between industry and academia. Part II deals with the first step of the

Where To Download

*Stairway to
Heaven, in which
R&D adopts agile
work practices.
Part III of the
book combines
the next two
phases, i.e.,
continuous
integration (CI)
and continuous
delivery (CD),
as they are
closely*

Where To Download

interwined.
Part IV is
concerned with
the highest
level, referred
to as "R&D as an
innovation
system," while
Part V addresses
a topic that is
separate from
the Stairway to
Heaven and yet
critically

Where To

Download

Continuous

important in

Delivery Reliable

large

Software Releases

Through Build

performance

metrics that

capture data,

and

visualizations

of the status of

software assets,

defects and

teams. Lastly,

Part VI presents

Where To Download

*the perspectives
of two of the SC
partner*

*companies. The
book is intended
for
practitioners
and*

*professionals in
the software-
intensive
systems
industry,
providing*

Where To

Download

Continuous

concrete models,

Delivery, Reliable

frameworks and

Software Releases

case studies

Through Build

that show the

Test And

specific

Deployment

challenges that

Automation Jez

the partner

Humble

companies

encountered,

encountered,

their approaches

their approaches

to overcoming

to overcoming

them, and the

them, and the

results.

results.

Researchers will

Where To Download

*gain valuable
insights on the
problems faced
by large
software
companies, and
on how to
effectively
tackle them in
the context of
successful
cooperation
projects.*

Getting started

Where To
Download
Continuous
with the
Delivery Reliable
processes and
Software Releases
the tools to
Through Build
continuously
Test And
deliver high-
Deployment
quality software
Automation Jez
About This Book
Humble
Incorporate
popular
development
practices to
prevent messy
code Automate
your build,

Where To
Download
Continuous
integration,
Delivery, Reliable
release, and
Software Releases
deployment
Processes with
Through Build
Jenkins, Git,
Test And
and Gulp?and
Deployment
learn how
Automation Jez
continuous
Humble
integration (CI)
can save you
time and money
Gain an end-to-
end overview of
Continuous

Where To

Download

Continuous

Integration

using different

languages

(JavaScript and

C#) and tools

(Gulp and

Jenkins) Who

This Book Is For

This book is for

developers who

want to

understand and

implement

Continuous

Where To Download

*Integration and
Delivery in
their daily
work. A basic
knowledge of at
least JavaScript
and HTML/CSS is
required.*

*Knowing C# and
SQL will come in
handy. Most
programmers who
have programmed
in a (compiled)*

Where To Download

*C-like language
will be able to
follow along.*

What You Will

*Learn Get to
know all the
aspects of
Continuous*

*Integration,
Deployment, and
Delivery Find
out how Git can
be used in a CI
environment Set*

Where To

Download

Continuous

up browser tests

Delivery Reliable

using Karma and

Software Releases

Selenium and

Unit tests Build using

Jasmine Use

Test And

Node.js, npm,

Deployment

and Gulp to

Automation Jez

automate tasks

Humble

such as linting,

testing, and

minification

testing, and

minification

minification

minification

Explore

different

different

different

Jenkins jobs to

Jenkins jobs to

Where To

Download

Continuous

integrate with

Node.js and C#

projects Perform

Continuous

Build

Delivery and

Deployment using

Jenkins Test and

deliver a web

API In Detail

The challenge

faced by many

teams while

implementing

Continuous

Where To Download

*Deployment is
that it requires
the use of many
tools and
processes that
all work
together.*

*Learning and
implementing all
these tools
(correctly)
takes a lot of
time and effort,
leading people*

Where To

Download

Continuous

to wonder

Delivery Reliable

whether it's

Software Releases

really worth it.

Through Build

This book sets

Test And

up a project to

Deployment

show you the

Automation Jez

different steps,

Humble

processes, and

tools in

Continuous

Deployment and

the actual

problems they

solve. We start

Where To

Download

Continuous

by introducing

Delivery Reliable

Continuous

Software Releases

Integration

(CI),

through Build

deployment, and

delivery as well

as providing an

overview of the

tools used in

CI. You'll then

create a web app

and see how Git

can be used in a

CI environment.

Where To

Download

Continuous

Moving on,

you'll explore

unit testing

using Jasmine

and browser

testing using

Karma and

Selenium for

your app. You'll

also find out

how to automate

tasks using Gulp

and Jenkins.

Next, you'll get

Where To Download

acquainted with
database

integration for

different

platforms, such

as MongoDB and
PostgreSQL.

Finally, you'll
set up different

Jenkins jobs to
integrate with

Node.js and C#
projects, and

Jenkins

Where To

Download

Continuous

pipelines to

make branching

easier. By the

end of the book,

you'll have

implemented

Continuous

Delivery and

deployment from

scratch. Style

and approach

This practical

book takes a

step-by-step

Where To

Download

Continuous

approach to

Delivery, Reliable

explaining all

Software Releases

the concepts of

Continuous

Build

Integration and

Test And

delivery, and

Deployment

how it can help

Automation, Jez

you deliver a

Humble

high-quality

product.

product.

When carefully

selected and

used, Domain-

Specific

Where To
Download
Continuous
Languages (DSLs)
Delivery Reliable
may simplify
Software Releases
complex code,
Through Build
promote
effective
Test And
communication
Deployment
with customers,
Automation Jez
improve
Humble
productivity,
and unclog
development
bottlenecks. In
Domain-Specific
Languages ,

Where To Download

*noted software
development
expert Martin
Fowler first
provides the
information
software
professionals
need to decide
if and when to
utilize DSLs.
Then, where DSLs
prove suitable,
Fowler presents*

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Download
Continuous
effective
Delivery Reliable
techniques for
Software Releases
building them,
Through Build
and guides
Test And
software
Deployment
engineers in
Automation Jez
choosing the
Humble
right approaches
for their
applications.
This book's
techniques may
be utilized with
most modern

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object-oriented languages; the author provides numerous examples in Java and C#, as well as selected examples in Ruby. Wherever possible, chapters are organized to be self-standing, and most

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*reference topics
are presented in
a familiar
patterns format.
Armed with this
wide-ranging
book, developers
will have the
knowledge they
need to make
important
decisions about
DSLs—and, where
appropriate,*

Where To
Download
Continuous
gain the
Delivery Reliable
significant
Software Releases
technical and
business
Through Build
benefits they
offer. The
Deployment
topics covered
Automation Jez
include: How
Humble
DSLs compare to
frameworks and
libraries, and
when those
alternatives are
sufficient Using

Where To
Download
Continuous
*parsers and
parser
generators, and
parsing external
DSLs*
Test And
Deployment
Automation, Jez
Humble,
*Understanding,
comparing, and
choosing DSL
language
constructs*
Determining
*whether to use
code generation,
and comparing*

Where To
Download
Continuous
code generation
Delivery Reliable
strategies
Previewing new
Software Releases
language
Through Build
workbench tools
Test And
for creating
Deployment
DSLs
Automation Jez
The Art of
Humble
Readable Code
Effective
Teamwork,
Practical
Integration
Hands-On

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Continuous
Software
Delivery Reliable
Architecture
with Golang Releases
Continuous
Build
Software
Test And
Engineering
Deployment
Continuous
Automation Jez
Delivery with
Humble,
Jenkins,
Kubernetes, and
Terraform
DevOps in Amazon
Web Services
The Art of

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Continuous
Capacity
Planning
How Google Runs
Production Build
Systems
Test And
**Using Continuous
Delivery, you can
bring software
into production
more rapidly,
with greater
reliability. A
Practical Guide to**

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Delivery is a

100% practical

guide to building

Continuous

Delivery pipelines

that automate

rollouts, improve

reproducibility,

and dramatically

reduce risk.

Eberhard Wolff

introduces a

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Continuous
proven
Continuous
Delivery
technology stack,
including Docker,
Chef, Vagrant,
Jenkins, Graphite,
the ELK stack,
JBehave, and
Gatling. He
guides you
through applying
these

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**technologies
throughout build,
continuous
integration, load
testing,
acceptance
testing, and
monitoring.**

**Wolff's start-to-
finish example
projects offer the
basis for your
own**

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**experimentation,
pilot programs,
and full-fledged
deployments. A**

Practical Guide to

Continuous

**Delivery is for
everyone who**

**wants to
introduce**

Continuous

**Delivery, with or
without DevOps.**

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For managers, it introduces core processes, requirements, benefits, and technical consequences.

Developers, administrators, and architects will gain essential skills for implementing

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Continuous

and managing

pipelines, and for

integrating

Continuous

Delivery

smoothly into

software

architectures and

IT organizations.

Understand the

problems that

Continuous

Delivery solves,

Where To

Download

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Delivery Reliable

Software Releases

Through Build

Test And

Deployment

Leverage Jez

virtualization and

Platform as a

Service (PAAS)

cloud solutions

Implement build

automation and

Where To
Download
Continuous
continuous
Delivery, Reliable
integration with
Software Releases
Gradle, Maven,
Through Build
and Jenkins
Test And
Perform static
Deployment
code reviews
Automated
with SonarQube
Number
and repositories
to store build
artifacts
Establish
automated GUI
and textual

Where To
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Continuous
acceptance
Delivery Reliable
testing with
Software Releases
behavior-driven
design Ensure
Test Appropriate
performance via
Capacity testing
Handle
Check new
features and
problems with
exploratory
testing Minimize
risk throughout

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Continuous
automated
Delivery, Reliable
production
Software Releases
software rollouts
Through Build
Gather and
Test And
analyze metrics
and logs with
Elasticsearch,
Logstash, Kibana
(ELK), and
Graphite Manage
the introduction
of Continuous
Delivery into your

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enterprise
Delivery Reliable
Architect
Software Releases
software to
Through Build
facilitate
Test and
Continuous
Delivery of new
capabilities Jez
Continuous
Testing for
DevOps
Professionals is
the definitive
guide for DevOps

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Download
Continuous
Delivery, Reliable
Software Releases
Through Build
Test, and
Deploy
Patterns

**teams and covers
the best
practices
required to excel
at Continuous
Testing (CT) at
each step of the
DevOps pipeline.
It was developed
in collaboration
with top industry
experts from
across the**

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**DevOps domain
from leading
companies such
as CloudBees,
Tricentis,
Testim.io, Test.ai,
Perfecto, and
many more. The
book is aimed at
all DevOps
practitioners,
including
software**

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Download
Continuous
developers,
Delivery Reliable
testers,
Software Releases
operations
Through Build
managers, and
Test And
IT/business
Deployment
executives. It
Automation
consists of 4
Patterns
sections: 1.
Fundamentals of
Continuous
Testing 2.
Continuous
Testing for Web

Where To
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Continuous
Apps 3.
Delivery Reliable
Continuous
Software Releases
Testing for
Mobile Apps 4.
Test Automation
Advancing
Continuous
Testing All profits
from Continuous
Testing for
DevOps
Professionals will
be donated to
code.org, which

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is a nonprofit

dedicated to

expanding access

to computer

science in schools

and increasing

participation by

women and

underrepresente

d minorities.

What's the best

way to get code

from your laptop

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***into a production
environment?***

***With this highly
actionable guide,***

architects,

developers,

engineers, and

others in the IT

space will learn

everything from

local

development

builds to

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Continuous
continuous
Delivery, Reliable
integration and
Software Releases
continuous
Through Build
delivery, and
Test And
from mobile, IOT,
Platform
and container-
based
Information Jez
deployments to
Platform
infrastructure
automation and
testing. Author
Sam Newman
(Building

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**Microservices)
provides real-
world examples
to depict the end-
to-end journey
through today's
state-of-the art
build and
deployment
process. Much
has changed in
just a few years:
the cloud has**

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**grown, mobile
development has
proliferated,
DevOps is finding
wider**

**acceptance, and
the IoT is very
much in play.**

**You'll start with
the big picture
and then dive
into individual
topics that**

Where To
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Continuous
**govern modern
software
production. This
book explores:
Automated
builds, version
control,
repeatable
builds, and
artifact storage**
What continuous
integration
includes--and

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Continuous

what it doesn't

Delivery Reliable

Version control

Software Releases

basics, cherry

Through Build

picking, release

Test And

branching,

Deployment

gitflow, and pull

Requests Core

requests Core

Patterns

tenets of

Continuous

continuous

Delivery and the

delivery and the

Technology

technology

Behind it

behind it

Application

Application

Where To
Download

**deployment
topics, including
artifact types and
deployment**

**platforms Why
you should treat
testing and monit
oring/alerting as
an inseparable
whole How
modules, static
linking, and
microservices**

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***enable you to
deploy software
quickly***

***As the study of
travel writing has
grown in recent
years, scholars
have largely
ignored the
literature of
modernist
writers.***

Modernist Travel

Page 273/366

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**Writing:
Intellectuals
Abroad, by David
Farley, addresses
this gap by
examining the
ways in which a
number of writers
employed the
techniques and
stylistic
innovations of
modernism in**

Where To
Download

***their travel
narratives to
variously engage
the political,
social, and
cultural milieu of
the years
between the
world wars.***

***Modernist Travel
Writing argues
that the travel
book is a crucial***

Where To
Download
Continuous
**genre for
understanding
the development
of modernism in
the years
between the
wars, despite the
established view
that travel
writing during
the interwar
period was
largely an**

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Download

**escapist
genre—one in
which writers
hearkened back
to the realism of
nineteenth-
century literature
in order to avoid
interwar anxiety.
Farley analyzes
works that exist
on the margins of
modernism,**

Where To
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generically and geographically, works that have yet to receive the critical attention they deserve, partly due to their classification as travel narratives and partly because of their complex

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**modernist styles.
The book begins
by examining the
ways that travel
and the emergent
travel regulations
in the wake of
the First World
War helped
shape Ezra
Pound's Cantos.
From there, it
goes on to**

Where To

Download

Continuous

examine E. E.

Delivery Reliable

Cummings's

Software Releases

frustrated

Through Build

attempts to

Test And

navigate the

Development

"unworld" of

Download the

Soviet Russia in

his book

Number

Eimi, Wyndham

Lewis's satiric

journey through

colonial Morocco

in **Filibusters in**

in Filibusters in

in Filibusters in

Page 280/366

Where To
Download

**Barbary, and
Rebecca West's
urgent efforts to
make sense of
the fractious**

**Balkan states in
Black Lamb and
Grey Falcon.**

**These modernist
writers traveled
to countries that
experienced most
directly the**

Where To
Download

**tumult of
revolution, the
effects of empire,
and the upheaval
of war during the
years between
World War I and
World War II.**

**Farley's study
focuses on the
question of what
constitutes
"evidence" for**

Where To
Download

***Pound, Lewis,
Cummings, and
West as they
establish their
authority as
eyewitnesses,
translate what
they see for an
audience back
home, and
attempt to make
sense of a
transformed and***

Where To
Download

***transforming
modern world.***

***Modernist Travel
Writing makes an
original***

***contribution to
the study of
literary***

***modernism while
taking a
distinctive look at
a unique subset
within the***

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Download

**growing field of
travel writing
studies. David
Farley's work will
be of interest to
students and
teachers in both
of these fields as
well as to early-t
wentieth-century
literary historians
and general
enthusiasts of**

Where To
Download
Continuous
**modernist
studies.**
Delivery Reliable
Software Releases
**Essential Tools
and Best
Practices for
Deploying Code
to Production**
Continuous
Architecture
Doing What
Works to Build
Better Software
Faster

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**Design, Build,
Ship**

Delivery Reliable

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Test And Cloud-

Centric World

How to Create

World-Class

Agility,

Reliability, and

Security in

Technology

Organizations

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***Keeping the Data
On Time***

A Practical

Approach to

Large-Scale Agile

Development

For thousands of
companies, the
Amazon Web
Services (AWS)
cloud is today's
software
development

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environment of
choice. Now
there's a complete
guide to using
DevOps and
continuous
delivery
techniques on AWS
-- so you can
reliably deliver
new features to
users and
customers at the
click of a button.

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Delivery Reliable
Software Releases

First, leading
software

development

consultant Paul

Duvall concisely

reviews DevOps'
principles, culture,

and goals. Next,

using a realistic

reference

implementation, he

offers detailed

hands-on guidance

on applying

Where To
Download
Continuous
automation
throughout the
entire AWS cloud
Software delivery
process. Finally, he
presents up-to-date
case studies of
companies
applying DevOps
throughout their
own modern
development
environments:
from Netflix to

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AMC Health to the U.S. government. Using principles, patterns, and examples you'll find here, you can make the most of DevOps and continuous delivery with today's most widely-used cloud platform. What's more, you'll master

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skills you can use
as AWS evolves --
or with any other
cloud platform you
choose.

Radically improve
your testing
practice and
software quality
with new testing
styles, good
patterns, and
reliable
automation. Key

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Features A

practical and

results-driven

approach to unit

testing Refine your

existing unit tests

by implementing

modern best

practices Learn the

four pillars of a

good unit test

Safely automate

your testing

process to save

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time and money
Spot which tests
need refactoring,
and which need to
be deleted entirely
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print book includes
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Publications. About
The Book Great
testing practices

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maximize your project quality and delivery speed by identifying bad code early in the development process. Wrong tests will break your code, multiply bugs, and increase time and costs. You owe it to yourself—and your projects—to learn

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Software Releases
Through Build
Test And
Deployment
Automation. Jez
Humble

how to do excellent unit testing. Unit Testing Principles, Patterns and Practices teaches you to design and write tests that target key areas of your code including the domain model. In this clearly written guide, you learn to develop

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Continuous
professional-
Delivery, Reliable
quality tests and
test suites and
Software Releases
integrate testing
throughout the
application life
Test And
cycle. As you adopt
Deployment
a testing mindset,
Automation, Jez
you'll be amazed at
Humble
how better tests
cause you to write
better code. What
You Will Learn
Universal

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guidelines to
assess any unit test
Testing to identify
and avoid anti-
patterns

Refactoring tests
along with the
production code

Using integration
tests to verify the
whole system This
Book Is Written
For For readers
who know the

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basics of unit
testing. Examples
are written in C#

and can easily be
applied to any
language. About
the Author

Vladimir Khorikov
is an author,
blogger, and
Microsoft MVP. He
has mentored
numerous teams
on the ins and outs

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of unit testing.

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UNIT TESTING ANTI-PATTERNS

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anti-patterns

Have we entered
the age of NoOps
infrastructures?

Hardly. Old-style
system

administrators may
be disappearing in
the face of
automation and
cloud computing,

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but operations have become more significant than ever. As this O'Reilly Radar Report explains, we're moving into a more complex arrangement

known as "DevOps." Mike Loukides, O'Reilly's VP of Content Strategy,

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provides an
incisive look into

this new world of

operations, where

IT specialists are

becoming part of

the development

team. In an

environment with

thousands of

servers, these

specialists now

write the code that

maintains the

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infrastructure.

Even applications that run in the cloud have to be resilient and fault tolerant, need to be monitored, and must adjust to huge swings in load. That was underscored by Amazon's EBS outage last year. From the

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discussions at O'Reilly's Velocity Conference, it's evident that many operations specialists are quickly adapting to the DevOps reality. But as a whole, the industry has just scratched the surface. This report tells you why.

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Success on the web is measured by usage and growth. Web-based companies live or die by the ability to scale their infrastructure to accommodate increasing demand. This book is a hands-on and practical guide to planning for such

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growth, with many
techniques and

considerations to

help you plan,

deploy, and

manage web
application

infrastructure. The

Art of Capacity

Planning is written

by the manager of

data operations for

the world-famous

photo-sharing site

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Flickr.com, now
owned by Yahoo!

John Allspaw Releases

combines personal

anecdotes from

many phases of

Flickr's growth

with insights from

his colleagues in

many other

industries to give

you solid

guidelines for

measuring your

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growth, predicting trends, and making cost-effective

preparations.

Topics include:

Evaluating tools for measurement and deployment

Capacity analysis and prediction for storage, database, and application servers
Designing architectures to

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easily add and
measure capacity
Handling sudden
spikes Predicting
exponential and
explosive growth
How cloud services
such as EC2 can fit
into a capacity
strategy In this
book, Allspaw
draws on years of
valuable
experience,

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starting from the days when Flickr was relatively small and had to deal with the typical growth pains and cost/performance trade-offs of a typical company with a Web presence. The advice he offers in *The Art of Capacity*

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Planning will not
only help you
prepare for
explosive growth,
it will save you
tons of grief.
Releasing Software
to Production at
Any Time with
AWS
Configuration
Management Made
Easy
Simple and

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Practical
Delivery Reliable
Techniques for
Writing Better
Software Releases
Through Build
Software
Test And
Configuration
Deployment
Management
Automation Jez
Humble
With Jenkins 2.0
Design and Deploy
Production-Ready
Software
Continuous Testing
for DevOps

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Professionals
Pulling Strings
with Puppet

A single dramatic
software failure can
cost a company
millions of dollars -
but can be avoided
with simple changes
to design and
architecture. This new
edition of the best-
selling industry

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Continuous Delivery Reliable Software Releases Through Build Test And Deployment Jez

standard shows you how to create systems that run longer, with fewer failures, and recover better when bad things happen.

New coverage includes DevOps, microservices, and cloud-native architecture. Stability antipatterns have grown to include

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systemic problems in
large-scale systems.

This is a must-have
pragmatic guide to
engineering for
production systems. If
you're a software
developer, and you
don't want to get alerts
every night for the rest
of your life, help is
here. With a
combination of case

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Automation To
Humble

studies about huge losses - lost revenue, lost reputation, lost time, lost opportunity - and practical, down-to-earth advice that was all gained through painful experience, this book helps you avoid the pitfalls that cost companies millions of dollars in downtime and

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Continuous Delivery: Reliable Software Releases Through Build, Test, and Deployment

reputation. Eighty percent of project life-cycle cost is in production, yet few books address this topic. This updated edition deals with the production of today's systems - larger, more complex, and heavily virtualized - and includes information on chaos engineering,

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Patterns

the discipline of applying randomness and deliberate stress to reveal systematic problems. Build systems that survive the real world, avoid downtime, implement zero-downtime upgrades and continuous delivery, and make cloud-native applications resilient.

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Numbers

Examine ways to architect, design, and build software - particularly distributed systems - that stands up to the typhoon winds of a flash mob, a Slashdotting, or a link on Reddit. Take a hard look at software that failed the test and find ways to make sure your software

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survives. To skip the
pain and get the
experience...get this
book.

Unleash the
combination of
Docker and Jenkins in
order to enhance the
DevOps workflow

About This Book
Build reliable and
secure applications
using Docker

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containers. Create a complete Continuous Delivery pipeline using Docker, Jenkins, and Ansible. Deliver your applications directly on the Docker Swarm cluster. Create more complex solutions using multi-containers and database migrations.

Who This Book Is For

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This book is indented to provide a full overview of deep learning. From the beginner in deep learning and artificial intelligence to the data scientist who wants to become familiar with Theano and its supporting libraries, or have an extended understanding of deep

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neural nets. Some
basic skills in Python
programming and
computer science will
help, as well as skills
in elementary algebra
and calculus. What

You Will Learn Get to
grips with docker
fundamentals and how
to dockerize an
application for the
Continuous Delivery

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process Configure
Jenkins and scale it
using Docker-based
agents Understand the
principles and the
technical aspects of a
successful Continuous
Delivery pipeline
Create a complete
Continuous Delivery
process using modern
tools: Docker,
Jenkins, and Ansible

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Write acceptance tests
using Cucumber and
run them in the

Docker ecosystem

using Jenkins Create

multi-container

applications using

Docker Compose

Managing database

changes inside the

Continuous Delivery

process and

understand effective

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frameworks such as
Cucumber and
Flyweight Build
clustering applications
with Jenkins using

Docker Swarm

Publish a built Docker
image to a Docker

Registry and deploy

cycles of Jenkins

pipelines using

community best

practices In Detail The

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Deployment
Automation

combination of
Docker and Jenkins
improves your
Continuous Delivery
pipeline using fewer
resources. It also helps
you scale up your
builds, automate tasks
and speed up Jenkins
performance with the
benefits of Docker
containerization. This
book will explain the

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Continuous

advantages of
combining Jenkins

and Docker to

improve the

continuous integration

and delivery process

of app development. It

will start with setting

up a Docker server

and configuring

Jenkins on it. It will

then provide steps to

build applications on

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Integration, automated

acceptance testing,

and configuration

management. Moving

on you will learn how

to ensure quick

application

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Pipeline

deployment with
Docker containers
along with scaling
Jenkins using Docker
Swarm. Next, you will
get to know how to
deploy applications
using Docker images
and testing them with
Jenkins. By the end of
the book, you will be
enhancing the DevOps
workflow by

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integrating the
functionalities of

Docker and Jenkins.

Style and approach

The book is aimed at

DevOps Engineers,

developers and IT

Operations who want

to enhance the

DevOps culture using

Docker and Jenkins.

Increase profitability,

elevate work culture,

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and exceed

productivity goals

through DevOps

practices. More than

ever, the effective

management of

technology is critical

for business

competitiveness. For

decades, technology

leaders have struggled

to balance agility,

reliability, and

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security. The

consequences of

failure have never

been greater? whether

it's the healthcare.gov

debacle, cardholder

data breaches, or

missing the boat with

Big Data in the cloud.

And yet, high

performers using

DevOps principles,

such as Google,

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Amazon, Facebook, Etsy, and Netflix, are routinely and reliably deploying code into production hundreds, or even thousands, of times per day.

Following in the footsteps of The Phoenix Project, The DevOps Handbook shows leaders how to replicate these

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Management,
Development, QA, IT
Operations, and
Information Security
to elevate your
company and win in
the marketplace.

Some companies think
that adopting devops
means bringing in

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specialists or a host of new tools. With this practical guide, you'll learn why devops is a professional and cultural movement that calls for change from inside your organization. Authors Ryn Daniels and Jennifer Davis provide several approaches for improving

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collaboration within
teams, creating
affinity among teams,
promoting efficient
tool usage in your
company, and scaling
up what works
throughout your
organization's
inflection points.

Devops stresses
iterative efforts to
break down

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information silos,
monitor relationships,
and repair

misunderstandings
that arise between and
within teams in your
organization. By

applying the
actionable strategies
in this book, you can
make sustainable
changes in your
environment

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regardless of your
level within your
organization. Explore
the foundations of
devops and learn the
four pillars of
effective devops

Encourage
collaboration to help
individuals work
together and build
durable and long-
lasting relationships

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Create affinity among teams while balancing differing goals or metrics Accelerate cultural direction by selecting tools and workflows that complement your organization Troubleshoot common problems and misunderstandings that can arise

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organizational
Software Releases
lifecycle Learn from
case studies from
Test And
organizations and
Deployment
individuals to help
Automation
inform your own
devops journey
Fundamental Design
Solutions for
SOAP/WSDL and
RESTful Web
Services

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Through Build
Domain-Specific
Test And
Languages
6th International
Conference, DUXU
2017, Held as Part of
HCI International
2017, Vancouver, BC,
Canada, July 9-14,
2017, Proceedings,
Part I

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The DevOps

Handbook

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Collaboration,

Affinity, and Tooling

at Scale

Today, software

engineers need to

know not only how

to program

effectively but also

how to develop

proper engineering

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**practices to make
their codebase
sustainable and
healthy. This book
emphasizes this
difference between
programming and
software
engineering. How
can software
engineers manage
a living codebase
that evolves and
responds to**

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changing

requirements and

demands over the

length of its life?

Based on their

experience at

Google, software

engineers Titus

Winters and Hyrum

Wright, along with

technical writer

Tom Manshreck,

present a candid

and insightful look

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**at how some of the
world's leading**

practitioners

construct and

maintain software.

This book covers

**Google's unique
engineering**

culture, processes,

and tools and how

these aspects

contribute to the

effectiveness of an

engineering

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**organization. You'll
explore three
fundamental
principles that
software
organizations
should keep in
mind when
designing,
architecting,
writing, and
maintaining code:
How time affects
the sustainability**

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**of software and
how to make your
code resilient over
time How scale
affects the viability
of software
practices within an
engineering
organization What
trade-offs a typical
engineer needs to
make when
evaluating design
and development**

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decisions

Delivery, Reliable

For any software developer who has

spent days in

“integration hell,”

cobbling together

myriad software

components,

Automation, Jez

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Integration:

Improving

Software Quality

and Reducing Risk

illustrates how to

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transform
Delivery: Reliable
integration from a
Software Releases
necessary evil into
Through Build
an everyday part
Test And
of the
Deployment
development
Automation, Jez
process. The key,
Humble
as the authors
show, is to
integrate regularly
and often using
continuous
integration (CI)
practices and

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techniques. The authors first examine the concept of CI and its practices from the ground up and then move on to explore other effective processes performed by CI systems, such as database integration, testing, inspection,

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**deployment, and
feedback. Through
more than forty CI-
related practices
using application
examples in
different
languages, readers
learn that CI leads
to more rapid
software
development,
produces
deployable**

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software at every
step in the

development

lifecycle, and

reduces the time

between defect

introduction and

detection, saving

time and lowering

costs. With

successful

implementation of

CI, developers

reduce risks and

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Automation Jez
Humble

**repetitive manual
processes, and
teams receive
better project
visibility. The book
covers How to
make integration a
“non-event” on
your software
development
projects How to
reduce the amount
of repetitive
processes you**

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**perform when
building your
software Practices
and techniques for
using CI effectively
with your teams
Reducing the risks
of late defect
discovery, low-
quality software,
lack of visibility,
and lack of
deployable
software**

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**Assessments of
different CI servers
and related tools
throughout the market. The
book's companion
Web site, www.integratebutton.com,
provides updates
and code
examples.**

**Continuous
Architecture
provides a broad
architectural**

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**perspective for
continuous
delivery, and
describes a new
architectural
approach that
supports and
enables it. As the
pace of innovation
and software
releases increases,
IT departments are
tasked to deliver
value quickly and**

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**inexpensively to
their business
partners. With a
focus on getting
software into end-
users hands faster,
the ultimate goal
of daily software
updates is in sight
to allow teams to
ensure that they
can release every
change to the
system simply and**

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**efficiently. This
book presents an
architectural
approach to
support modern
application
delivery methods
and provide a
broader
architectural
perspective, taking
architectural
concerns into
account when**

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continuous

delivery at the

project and

enterprise level,

and the impact on

IT processes

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concepts to the
Agile and
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**Delivery models
Explains how to
create an
architecture that
can evolve with
applications
Incorporates
techniques
including
refactoring,
architectural
analysis, testing,
and feedback-
driven**

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development
Provides insight
into incorporating
modern software
development when
structuring teams
and organizations
Automation Jez
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