

Access Free Devops
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Devops Architecture And Security In A Cloud

Have you been looking for a way to boost your skills and become a master in DevOps for your business or career

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in software development but lack an excellent, high-quality guide to assist you get there? And are you looking for a guide that is simple, assuring and easy to follow? If you've answered YES, keep reading... You Are

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*About To Discover The Ins
And Outs Of Dev-Ops,
Including How To Leverage
Its Power To Your Advantage
In Your Business Or Career!
It goes without saying that
DevOps is one of the
greatest inventions in*

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software development. It came to satisfy a need to get away from the traditional software design for efficiency, collaboration and productivity in development processes, and by extension

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*to boost business growth.
Did you know that businesses
that adopt DevOps enjoy up
to 60% more revenue rates
and profit than their
reticent counterparts?
Unfortunately, great as it
is, DevOps remains one of*

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*the most misunderstood
concepts- even by tutors
across the world! Similarly,
for someone who's just
getting into the software
development scene or someone
who has drowned in the
"Waterfall" methodology a*

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couple of times before, it may seem like something a little complex or one that requires some skill, or lots of effort and time to master. If you can relate, you must have wondered: What's DevOps all about, and

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is there a way to learn it quickly? What does DevOps entail? How exactly would I benefit from learning DevOps? How and where do I get started? Is DevOps agile? How does it work? So if such questions have been

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keeping you from making the next important step in your career or business with DevOps, then this simple, clear and straightforward guide is here for you. With it, you'll learn: What DevOps is and why you need

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*it The features of DevOps
architecture The potential
benefits and risks of using
DevOps What you need to know
about the DevOps lifecycle
The ins and outs of the
DevOps architecture The
workflow and principles of*

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DevOps The DevOps tools you need to know and use How DevOps automation works Who DevOps engineers are, and the roles they play The methodologies and pipelines of DevOps you need to familiarize yourself with

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*The DevOps Amazon Web
Services The tools and
tutorials for DevOps,
including their features and
benefits How to install GIT
on Mac, Linux and Windows
...And much more! Do you
prefer practical guides that*

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you can implement as you go (not ones that are heavy on theory- that require taking loads of caffeine to complete)? Do you want a beginners' book that is exciting to follow and well-structured for quick

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*comprehension? Then don't
let this one slip away. Even
if this is your first time
actually wanting to learn
DevOps, this book will hold
you by the hand until you
feel confident about it!
Don't wait... Scroll up and*

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*click Buy Now With 1-Click
or Buy Now to get started!
Build and design multiple
types of applications that
are cross-language,
platform, and cost-effective
by understanding core Azure
principles and foundational*

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concepts Key Features Get familiar with the different design patterns available in Microsoft Azure Develop Azure cloud architecture and a pipeline management system Get to know the security best practices for your

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Azure deployment Book

Description Thanks to its support for high availability, scalability, security, performance, and disaster recovery, Azure has been widely adopted to create and deploy different

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types of application with ease. Updated for the latest developments, this third edition of Azure for Architects helps you get to grips with the core concepts of designing serverless architecture, including

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*containers, Kubernetes
deployments, and big data
solutions. You'll learn how
to architect solutions such
as serverless functions,
you'll discover deployment
patterns for containers and
Kubernetes, and you'll*

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explore large-scale big data processing using Spark and Databricks. As you advance, you'll implement DevOps using Azure DevOps, work with intelligent solutions using Azure Cognitive Services, and integrate

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security, high availability, and scalability into each solution. Finally, you'll delve into Azure security concepts such as OAuth, OpenConnect, and managed identities. By the end of this book, you'll have

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*gained the confidence to
design intelligent Azure
solutions based on
containers and serverless
functions. What you will
learn Understand the
components of the Azure
cloud platform Use cloud*

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*design patterns Use
enterprise security
guidelines for your Azure
deployment Design and
implement serverless and
integration solutions Build
efficient data solutions on
Azure Understand container*

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*services on Azure Who this
book is for If you are a
cloud architect, DevOps
engineer, or a developer
looking to learn about the
key architectural aspects of
the Azure cloud platform,
this book is for you. A*

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basic understanding of the Azure cloud platform will help you grasp the concepts covered in this book more effectively.

Increase profitability, elevate work culture, and exceed productivity goals

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*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,*

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*reliability, and 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,*

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high performers using DevOps principles, such as Google, 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

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*of The Phoenix Project, The
DevOps Handbook shows
leaders how to replicate
these incredible outcomes,
by showing how to integrate
Product Management,
Development, QA, IT
Operations, and Information*

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*Security to elevate your
company and win in the
marketplace.*

*There are more than one
billion Android devices in
use today, each one a
potential target.*

Unfortunately, many

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fundamental Android security features have been little more than a black box to all but the most elite security professionals—until now. In Android Security Internals, top Android security expert Nikolay Elenkov takes us

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*under the hood of the
Android security system.
Elenkov describes Android
security architecture from
the bottom up, delving into
the implementation of major
security-related components
and subsystems, like Binder*

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*IPC, permissions,
cryptographic providers, and
device administration.*

*You'll learn: -How Android
permissions are declared,
used, and enforced -How
Android manages application
packages and employs code*

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*signing to verify their
authenticity -How Android
implements the Java
Cryptography Architecture
(JCA) and Java Secure Socket
Extension (JSSE) frameworks
-About Android's credential
storage system and APIs,*

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*which let applications store
cryptographic keys securely
-About the online account
management framework and how
Google accounts integrate
with Android -About the
implementation of verified
boot, disk encryption,*

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lockscreen, and other device security features -How Android's bootloader and recovery OS are used to perform full system updates, and how to obtain root access With its unprecedented level of depth

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and detail, Android Security Internals is a must-have for any security-minded Android developer.

*The Phoenix Project
Practical Security for Agile
and DevOps
The DevOps Handbook*

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Accelerate

DevOps for Networking

Hands-On Security in DevOps

26th European Conference,

EuroSPI 2019, Edinburgh, UK,

September 18-20, 2019,

Proceedings

An architect's guide to designing,

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implementing, and integrating
DevOps in the enterprise Key
Features Design a DevOps
architecture that is aligned with the
overall enterprise architecture Design
systems that are ready for AIOps
and make the move toward

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NoOps Architect and implement
DevSecOps pipelines, securing the
DevOps enterprise Book Description
Digital transformation is the new
paradigm in enterprises, but the big
question remains: is the enterprise
ready for transformation using

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native technology embedded in Agile/DevOps? With this book, you'll see how to design, implement, and integrate DevOps in the enterprise architecture while keeping the Ops team on board and remaining resilient. The focus of the

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book is not to introduce the hundreds of different tools that are available for implementing DevOps, but instead to show you how to create a successful DevOps architecture. This book provides an architectural overview of DevOps,

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AIOps, and DevSecOps – the three domains that drive and accelerate digital transformation. Complete with step-by-step explanations of essential concepts, practical examples, and self-assessment questions, this DevOps book will

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help you to successfully integrate DevOps into enterprise architecture. You'll learn what AIOps is and what value it can bring to an enterprise. Lastly, you will learn how to integrate security principles such as zero-trust and industry security

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frameworks into DevOps with DevSecOps. By the end of this DevOps book, you'll be able to develop robust DevOps architectures, know which toolsets you can use for your DevOps implementation, and have a deeper

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understanding of next-level DevOps by implementing Site Reliability Engineering (SRE). What you will learn
Create DevOps architecture and integrate it with the enterprise architecture
Discover how DevOps can add value to the quality of IT

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delivery Explore strategies to scale
DevOps for an enterprise Architect
SRE for an enterprise as next-level
DevOps Understand AIOps and what
value it can bring to an
enterprise Create your AIOps
architecture and integrate it into

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DevOps Create your DevSecOps architecture and integrate it with the existing DevOps setup Apply zero-trust principles and industry security frameworks to DevOps Who this book is for This book is for enterprise architects and consultants

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who want to design DevOps systems for the enterprise. It provides an architectural overview of DevOps, AIOps, and DevSecOps. If you're looking to learn about the implementation of various tools within the DevOps toolchain in

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detail, this book is not for you.

Summary Securing DevOps
explores how the techniques of
DevOps and security should be
applied together to make cloud
services safer. This introductory
book reviews the latest practices

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used in securing web applications and their infrastructure and teaches you techniques to integrate security directly into your product. You'll also learn the core concepts of DevOps, such as continuous integration, continuous delivery, and

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infrastructure as a service. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology An application running in the cloud can benefit from incredible efficiencies,

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but they come with unique security threats too. A DevOps team's highest priority is understanding those risks and hardening the system against them. About the Book Securing DevOps teaches you the essential techniques to secure your

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cloud services. Using compelling case studies, it shows you how to build security into automated testing, continuous delivery, and other core DevOps processes. This experience-rich book is filled with mission-critical strategies to protect

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web applications against attacks, deter fraud attempts, and make your services safer when operating at scale. You'll also learn to identify, assess, and secure the unique vulnerabilities posed by cloud deployments and automation tools

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commonly used in modern infrastructures. What's inside An approach to continuous security Implementing test-driven security in DevOps Security techniques for cloud services Watching for fraud and responding to incidents Security

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testing and risk assessment About
the Reader Readers should be
comfortable with Linux and
standard DevOps practices like CI,
CD, and unit testing. About the
Author Julien Vehent is a security
architect and DevOps advocate. He

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leads the Firefox Operations Security team at Mozilla, and is responsible for the security of Firefox's high-traffic cloud services and public websites. Table of Contents Securing DevOps PART 1 - Case study: applying layers of

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security to a simple DevOps
pipeline Building a barebones
DevOps pipeline Security layer 1:
protecting web applications Security
layer 2: protecting cloud
infrastructures Security layer 3:
securing communications Security

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layer 4: securing the delivery
pipeline PART 2 - Watching for
anomalies and protecting services
against attacks Collecting and
storing logs Analyzing logs for
fraud and attacks Detecting
intrusions The Caribbean breach: a

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case study in incident response

PART 3 - Maturing DevOps

security Assessing risks Testing

security Continuous security

Your one stop guide to automating
infrastructure security using DevOps
and DevSecOps Key Features Secure

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and automate techniques to protect
web, mobile or cloud

servicesAutomate secure code

inspection in C++, Java, Python, and
JavaScriptIntegrate security testing

with automation frameworks like
fuzz, BDD, Selenium and Robot

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FrameworkBook Description

Security automation is the automatic handling of software security assessments tasks. This book helps you to build your security automation framework to scan for vulnerabilities without human

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intervention. This book will teach you to adopt security automation techniques to continuously improve your entire software development and security testing. You will learn to use open source tools and techniques to integrate security

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testing tools directly into your CI/CD framework. With this book, you will see how to implement security inspection at every layer, such as secure code inspection, fuzz testing, Rest API, privacy, infrastructure security, and web UI

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testing. With the help of practical examples, this book will teach you to implement the combination of automation and Security in DevOps. You will learn about the integration of security testing results for an overall security status for projects.

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By the end of this book, you will be confident implementing automation security in all layers of your software development stages and will be able to build your own in-house security automation platform throughout your mobile and cloud

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releases. What you will
learnAutomate secure code
inspection with open source tools
and effective secure code scanning
suggestionsApply security testing
tools and automation frameworks to
identify security vulnerabilities in

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web, mobile and cloud
services Integrate security testing
tools such as OWASP ZAP, NMAP,
SSLYze, SQLMap, and
OpenSCAPI Implement automation
testing techniques with Selenium,
JMeter, Robot Framework, Gauntlt,

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BDD, DDT, and Python

unittestExecute security testing of a

Rest API Implement web

application security with open

source tools and script templates for

CI/CD integrationIntegrate various

types of security testing tool results

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from a single project into one dashboard Who this book is for The book is for software developers, architects, testers and QA engineers who are looking to leverage automated security testing techniques.

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Enterprises are rapidly adopting containers and other cloud-native technologies to make their application development and release cycle fast, agile, and cost-effective. This e-book delves into the critical challenges faced across the

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container lifecycle, and shares recommendations and best practices to confidently overcome these. It explores how innovative automation levers can help businesses simplify, fast-track, and de-risk their containerization initiatives, while

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maximizing ROI in a cloud-first world.

A Complete Guide To DevOps Best Practices (Including How You Can Create World-Class Agility, Reliability, And Security In Technology Organizations With

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Cloud
DevOps)

Cloud Native DevOps with
Kubernetes
Secure, Resilient, and Agile
Software Development
Secrets of a Cyber Security
Architect

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Security in the Cloud

.NET DevOps for Azure

Securing DevOps

**In Continuous Architecture
in Practice, three leading
software architecture
experts update the**

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discipline's classic practices for today's environments, software development contexts, and applications. Coverage includes: Discover what's changed, and how the architect's role must

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**change Reflect today's
quality attributes in
evolvable architectures
Understand team-based
software architecture, and
architecture as a "flow of
decisions" Architect for**

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**security, including
continuous threat modeling
and mitigation Explore
architectural opportunities
to improve performance in
continuous delivery
environments Architect for**

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**scalability, avoid common
scalability pitfalls, and scale
microservices and serverless
environments Improve
resilience and reliability in
the face of inevitable
failures Architect data for**

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NoSQL, big data, and analytics Use architecture to promote innovation: case studies in AI/ML, chatbots, and blockchain

This textbook was written from the perspective of

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someone who began his software security career in 2005, long before the industry began focusing on it. This is an excellent perspective for students who want to learn about

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securing application development. After having made all the rookie mistakes, the author realized that software security is a human factors issue rather than a technical

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**or process issue alone.
Throwing technology into an
environment that expects
people to deal with it but
failing to prepare them
technically and
psychologically with the**

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**knowledge and skills needed
is a certain recipe for bad
results. Practical Security
for Agile and DevOps is a
collection of best practices
and effective
implementation**

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recommendations that are proven to work. The text leaves the boring details of software security theory out of the discussion as much as possible to concentrate on practical applied software

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security that is useful to professionals. It is as much a book for students' own benefit as it is for the benefit of their academic careers and organizations. Professionals who are

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skilled in secure and resilient software development and related tasks are in tremendous demand. This demand will increase exponentially for the foreseeable future. As

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students integrate the text's best practices into their daily duties, their value increases to their companies, management, community, and industry. The textbook was written for

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**the following readers:
Students in higher
education programs in
business or engineering
disciplines AppSec
architects and program
managers in information**

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**security organizations
Enterprise architecture
teams with a focus on
application development
Scrum Teams including:
Scrum Masters
Engineers/developers**

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**Analysts Architects Testers
DevOps teams Product
owners and their
management Project
managers Application
security auditors Agile
coaches and trainers**

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**Instructors and trainers in
academia and private
organizations
Get to grips with artificial
intelligence and
cybersecurity techniques to
respond to adversaries and**

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**incidents Key Features Learn
how to secure your Azure
cloud workloads across
applications and
networks Protect your Azure
infrastructure from cyber
attacks Discover tips and**

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**techniques for
implementing, deploying,
and maintaining secure
cloud services using best
practices**
Book Description
Security is integrated into
every cloud, but this makes

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users put their guard down as they take cloud security for granted. Although the cloud provides higher security, keeping their resources secure is one of the biggest challenges many

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organizations face as threats are constantly evolving. Microsoft Azure offers a shared responsibility model that can address any challenge with the right approach.

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Revised to cover product updates up to early 2022, this book will help you explore a variety of services and features from Microsoft Azure that can help you overcome challenges in

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cloud security. You'll start by learning the most important security concepts in Azure, their implementation, and then advance to understanding how to keep resources

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secure. The book will guide you through the tools available for monitoring Azure security and enforcing security and governance the right way. You'll also explore tools to detect threats

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before they can do any real damage and those that use machine learning and AI to analyze your security logs and detect anomalies. By the end of this cloud security book, you'll have

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understood cybersecurity in the cloud and be able to design secure solutions in Microsoft Azure. What you will learn
Become well-versed with cloud security concepts
Get the hang of

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**managing cloud
identities Understand the
zero-trust approach Adopt
the Azure security cloud
infrastructure Protect and
encrypt your data Grasp
Azure network security**

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**concepts Discover how to
keep cloud resources
secure Implement cloud
governance with security
policies and rules Who this
book is for This book is for
Azure cloud professionals,**

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Azure architects, and security professionals looking to implement secure cloud services using Azure Security Centre and other Azure security features. A solid understanding of

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**fundamental security
concepts and prior exposure
to the Azure cloud will help
you understand the key
concepts covered in the
book more effectively.**

Enhance DevOps workflows

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**by integrating the
functionalities of Docker,
Kubernetes, Spinnaker,
Ansible, Terraform, Flux CD,
CaaS, and more with the
help of practical examples
and expert tips Key**

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Features Get up and running
with containerization-as-a-
service and infrastructure
automation in the public
cloud Learn container
security techniques and
secret management with

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**Cloud KMS, Anchore Grype,
and Grafeas KritisLeverage
the combination of DevOps,
GitOps, and automation to
continuously ship a package
of softwareBook Description
Containers have entirely**

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**changed how developers
and end-users see
applications as a whole.
With this book, you'll learn
all about containers, their
architecture and benefits,
and how to implement them**

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within your development lifecycle. You'll discover how you can transition from the traditional world of virtual machines and adopt modern ways of using DevOps to ship a package of software

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continuously. Starting with a quick refresher on the core concepts of containers, you'll move on to study the architectural concepts to implement modern ways of application development.

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You'll cover topics around Docker, Kubernetes, Ansible, Terraform, Packer, and other similar tools that will help you to build a base. As you advance, the book covers the core elements of

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cloud integration (AWS ECS, GKE, and other CaaS services), continuous integration, and continuous delivery (GitHub actions, Jenkins, and Spinnaker) to help you understand the

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**essence of container
management and delivery.
The later sections of the
book will take you through
container pipeline security
and GitOps (Flux CD and
Terraform). By the end of**

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**this DevOps book, you'll
have learned best practices
for automating your
development lifecycle and
making the most of
containers, infrastructure
automation, and CaaS, and**

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be ready to develop applications using modern tools and techniques. What you will learn Become well-versed with AWS ECS, Google Cloud Run, and Knative Discover how to

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**build and manage secure
Docker images
efficiently Understand
continuous integration with
Jenkins on Kubernetes and
GitHub actions Get to grips
with using Spinnaker for**

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**continuous
deployment/deliveryManage
immutable infrastructure on
the cloud with Packer,
Terraform, and
AnsibleExplore the world of
GitOps with GitHub actions,**

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**Terraform, and Flux CD Who
this book is for If you are a
software engineer, system
administrator, or operations
engineer looking to step into
the world of DevOps within
public cloud platforms, this**

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book is for you. Existing DevOps engineers will also find this book useful as it covers best practices, tips, and tricks to implement DevOps with a cloud-native mindset. Although no

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containerization experience is necessary, a basic understanding of the software development life cycle and delivery will help you get the most out of the book.

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**A modern approach to
containerization in a cloud-
first world**

Modern DevOps Practices

The Science of Lean

Software and DevOps:

Building and Scaling High

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**Performing Technology
Organizations
Practical Security
Automation and Testing
It Infrastructure
Architecture - Infrastructure
Building Blocks and**

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Concepts Second Edition
A Novel about IT, DevOps,
and Helping Your Business
Win
DevOps Culture and Practice
with OpenShift

Continuous Architecture

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provides a broad architectural perspective for continuous delivery, and describes a new architectural approach that supports and enables it. As the pace of innovation and software releases increases,

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IT departments are tasked to deliver value quickly and 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

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to allow teams to ensure that they can release every change to the system simply and efficiently. This book presents an architectural approach to support modern application delivery methods and provide a broader

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architectural perspective,
taking architectural
concerns into account when
deploying agile or
continuous delivery
approaches. The authors
explain how to solve the
challenges of implementing

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continuous delivery at the project and enterprise level, and the impact on IT processes including application testing, software deployment and software architecture.

Covering the application of

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enterprise and software
architecture concepts to the
Agile and Continuous
Delivery models Explains how
to create an architecture
that can evolve with
applications Incorporates
techniques including

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refactoring, architectural
analysis, testing, and
feedback-driven development
Provides insight into
incorporating modern
software development when
structuring teams and
organizations

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The First Complete Guide to
DevOps for Software
Architects DevOps promises
to accelerate the release of
new software features and
improve monitoring of
systems in production, but
its crucial implications for

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software architects and architecture are often ignored. In DevOps: A Software Architect's Perspective, three leading architects address these issues head-on. The authors review decisions software

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architects must make in order to achieve DevOps' goals and clarify how other DevOps participants are likely to impact the architect's work. They also provide the organizational, technical, and operational

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context needed to deploy DevOps more efficiently, and review DevOps' impact on each development phase. The authors address cross-cutting concerns that link multiple functions, offering practical insights into

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compliance, performance, reliability, repeatability, and security. This guide demonstrates the authors' ideas in action with three real-world case studies: datacenter replication for business continuity,

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management of a continuous deployment pipeline, and migration to a microservice architecture. Comprehensive coverage includes • Why DevOps can require major changes in both system architecture and IT roles •

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How virtualization and the cloud can enable DevOps practices

- Integrating operations and its service lifecycle into DevOps
- Designing new systems to work well with DevOps practices
- Integrating

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DevOps with agile methods and TDD • Handling failure detection, upgrade planning, and other key issues • Managing consistency issues arising from DevOps' independent deployment models • Integrating

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security controls, roles,
and audits into DevOps •
Preparing a business plan
for DevOps adoption,
rollout, and measurement
With their rapidly changing
architecture and API-driven
automation, cloud platforms

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come with unique security challenges and opportunities. This hands-on book guides you through security best practices for multivendor cloud environments, whether your company plans to move legacy

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on-premises projects to the cloud or build a new infrastructure from the ground up. Developers, IT architects, and security professionals will learn cloud-specific techniques for securing popular cloud

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platforms such as Amazon Web Services, Microsoft Azure, and IBM Cloud. Chris Dotson—an IBM senior technical staff member—shows you how to establish data asset management, identity and access management,

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vulnerability management,
network security, and
incident response in your
cloud environment.

Apply cloud design patterns
to overcome real-world
challenges by building
scalable, secure, highly

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available, and cost-effective solutions Key FeaturesApply AWS Well-Architected Framework concepts to common real-world use casesUnderstand how to select AWS patterns and architectures that are

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best suited to your
needsEnsure the security and
stability of a solution
without impacting cost or
performanceBook Description
One of the most popular
cloud platforms in the
world, Amazon Web Services

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(AWS) offers hundreds of services with thousands of features to help you build scalable cloud solutions; however, it can be overwhelming to navigate the vast number of services and decide which ones best suit

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your requirements. Whether you are an application architect, enterprise architect, developer, or operations engineer, this book will take you through AWS architectural patterns and guide you in selecting

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the most appropriate services for your projects. AWS for Solutions Architects is a comprehensive guide that covers the essential concepts that you need to know for designing well-architected AWS solutions

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that solve the challenges organizations face daily. You'll get to grips with AWS architectural principles and patterns by implementing best practices and recommended techniques for real-world use cases. The

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book will show you how to enhance operational efficiency, security, reliability, performance, and cost-effectiveness using real-world examples. By the end of this AWS book, you'll have gained a clear

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understanding of how to design AWS architectures using the most appropriate services to meet your organization's technological and business requirements. What you will learnRationalize the

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selection of AWS as the right cloud provider for your organization Choose the most appropriate service from AWS for a particular use case or project Implement change and operations management Find out the right

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resource type and size to
balance performance and
efficiencyDiscover how to
mitigate risk and enforce
security, authentication,
and authorizationIdentify
common business scenarios
and select the right

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reference architectures for
themWho this book is for
This book is for application
and enterprise architects,
developers, and operations
engineers who want to become
well-versed with AWS
architectural patterns, best

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practices, and advanced techniques to build scalable, secure, highly available, and cost-effective solutions in the cloud. Although existing AWS users will find this book most useful, it will also

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help potential users understand how leveraging AWS can benefit their organization.

Mastering Azure Security
Deliver continuous business value through people, processes, and technology

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A Developer's Guide to
DevOps Architecture the
Right Way

Strategic Approaches to
Digital Platform Security
Assurance

Building, Deploying, and
Scaling Modern Applications

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in the Cloud

Enabling Security in a
Continuous Delivery Pipeline
Continuous Architecture

**Enhance DevOps workflows
by integrating the
functionalities of**

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Docker, Kubernetes,
Spinnaker, Ansible,
Terraform, Flux CD,
CaaS, and more with the
help of practical
examples and expert tips
Key Features: Get up and

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running with containeriz
ation-as-a-service and
infrastructure
automation in the public
cloud Learn container
security techniques and
secret management with

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Cloud KMS, Anchore
Grype, and Grafeas
Kritis Leverage the
combination of DevOps,
GitOps, and automation
to continuously ship a
package of software Book

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Description: Containers have entirely changed how developers and end-users see applications as a whole. With this book, you'll learn all about containers, their

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architecture and
benefits, and how to
implement them within
your development
lifecycle. You'll
discover how you can
transition from the

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traditional world of virtual machines and adopt modern ways of using DevOps to ship a package of software continuously. Starting with a quick refresher

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on the core concepts of containers, you'll move on to study the architectural concepts to implement modern ways of application development. You'll

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cover topics around
Docker, Kubernetes,
Ansible, Terraform,
Packer, and other
similar tools that will
help you to build a
base. As you advance,

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the book covers the core elements of cloud integration (AWS ECS, GKE, and other CaaS services), continuous integration, and continuous delivery

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(GitHub actions,
Jenkins, and Spinnaker)
to help you understand
the essence of container
management and delivery.
The later sections of
the book will take you

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through container
pipeline security and
GitOps (Flux CD and
Terraform). By the end
of this DevOps book,
you'll have learned best
practices for automating

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your development
lifecycle and making the
most of containers,
infrastructure
automation, and CaaS,
and be ready to develop
applications using

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modern tools and
techniques. What You
Will Learn: Become well-
versed with AWS ECS,
Google Cloud Run, and
Knative Discover how to
build and manage secure

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Docker images

efficiently Understand

continuous integration

with Jenkins on

Kubernetes and GitHub

actions Get to grips

with using Spinnaker for

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continuous

deployment/delivery

Manage immutable

infrastructure on the

cloud with Packer,

Terraform, and Ansible

Explore the world of

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GitOps with GitHub
actions, Terraform, and
Flux CD Who this book is
for: If you are a
software engineer,
system administrator, or
operations engineer

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looking to step into the world of DevOps within public cloud platforms, this book is for you.

Existing DevOps engineers will also find this book useful as it

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**covers best practices,
tips, and tricks to
implement DevOps with a
cloud-native mindset.**

**Although no
containerization
experience is necessary,**

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a basic understanding of the software development life cycle and delivery will help you get the most out of the book.

Nowadays it is impossible to imagine a

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**business without
technology as most
industries are becoming
"smarter" and more tech-
driven, ranging from
small individual tech
initiatives to complete**

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business models with intertwined supply chains and "platform"-based business models. New ways of working, such as agile and DevOps, have

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been introduced, leading to new risks. These risks come in the form of new challenges for teams working together in a distributed manner, privacy concerns, human

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autonomy, and
cybersecurity concerns.
Technology is now
integrated into the
business discipline and
is here to stay leading
to the need for a

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thorough understanding of how to address these risks and all the potential problems that could arise. With the advent of organized crime, such as hacks and

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denial-of-service attacks, all kinds of malicious actors are infiltrating the digital society in new and unique ways. Systems with poor design,

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implementation, and configurations are easily taken advantage of. When it comes to integrating business and technology, there needs to be approaches for

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assuring security
against risks that can
threaten both businesses
and their digital
platforms. Strategic
Approaches to Digital
Platform Security

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**Assurance offers
comprehensive design
science research
approaches to
extensively examine
risks in digital
platforms and offer**

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pragmatic solutions to these concerns and challenges. This book addresses significant problems when transforming an organization embracing

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API-based platform models, the use of DevOps teams, and issues in technological architectures. Each section will examine the status quo for business

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technologies, the current challenges, and core success factors and approaches that have been used. This book is ideal for security analysts, software

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**engineers, computer
engineers, executives,
managers, IT
consultants, business
professionals,
researchers,
academicians, and**

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students who want to
gain insight and deeper
knowledge of security in
digital platforms and
gain insight into the
most important success
factors and approaches

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utilized by businesses.
This volume constitutes
the refereed proceedings
of the 26th European
Conference on Systems,
Software and Services
Process Improvement,

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EuroSPI conference, held in Edinburgh, Scotland, in September 2019. The 18 revised full papers presented were carefully reviewed and selected from 28 submissions.

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They are organized in
topical sections:

Visionary Papers, SPI
and Safety and Security,
SPI and Assessments, SPI
and Future Qualification
& Team Performance, and

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**SPI Manifesto and
Culture. The selected
workshop papers are also
presented and organized
in following topical
sections: GamifySPI,
Digitalisation of**

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Industry, Infrastructure
and E-Mobility. -Best
Practices in
Implementing
Traceability. -Good and
Bad Practices in
Improvement. -Functional

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Safety and
Cybersecurity.

-Experiences with Agile
and Lean. -Standards and
Assessment Models. -Team
Skills and Diversity
Strategies. -Recent

Access Free Devops Architecture And Security In A Cloud Innovations.

Security is usually an
afterthought when
organizations design
microservices for cloud
systems. Most companies
today are exposed to

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potential security threats, but their responses are often more reactive than proactive. This leads to unnecessarily complicated systems that

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are hard to implement
and even harder to
manage and scale. Author
Gaurav Raje shows you
how to build highly
secure systems on AWS
without increasing

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overhead. Ideal for
cloud solution
architects and software
developers with AWS
experience, this
practical book starts
with a high-level

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architecture and design
discussion, then
explains how to
implement your solution
in the cloud while
ensuring that the
development and

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operational experience
isn't compromised. By
leveraging the AWS
Shared Responsibility
Model, you'll be able
to: Develop a modular
architecture using

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microservices that aims
to simplify compliance
with various regulations
in finance, medicine,
and legal services
Introduce various AWS-
based security controls

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to help protect your
microservices from
malicious actors

Leverage the modularity
of the architecture to
independently scale
security mechanisms on

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individual microservices
Improve the security
posture without
compromising the
autonomy or efficiency
of software development
teams

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**Kick-start your career
as a solutions architect
by learning architecture
design principles and
strategies**

DevOps

DevOps Adoption

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**Strategies: Principles,
Processes, Tools, and
Trends**

**How to Create World-
Class Agility,
Reliability, and
Security in Technology**

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Cloud
Organizations

Build and operationalize
applications with
greater ease, speed, and
agility

Systems, Software and
Services Process

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Architecture And Security In A
Cloud
Improvement

A Leader's Guide to
Producing Secure
Software Without
Compromising Flow,
Feedback and Continuous
Improvement

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For many organizations, a big part of DevOps' appeal is software automation using infrastructure-as-code techniques. This book presents developers, architects, and infra-ops engineers with a more

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practical option. You'll learn how a container-centric approach from OpenShift, Red Hat's cloud-based PaaS, can help your team deliver quality software through a self-service view of IT infrastructure. Three

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OpenShift experts at Red Hat explain how to configure Docker application containers and the Kubernetes cluster manager with OpenShift's developer- and operational-centric tools. Discover how this infrastructure-agnostic

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container management platform can help companies navigate the murky area where infrastructure-as-code ends and application automation begins. Get an application-centric view of automation—and understand

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**why it's important Learn
patterns and practical
examples for managing
continuous deployments such
as rolling, A/B, blue-green,
and canary Implement
continuous integration
pipelines with OpenShift's**

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Jenkins capability Explore mechanisms for separating and managing configuration from static runtime software Learn how to use and customize OpenShift's source-to-image capability Delve into management and operational

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**considerations when working
with OpenShift-based
application workloads Install
a self-contained local version
of the OpenShift environment
on your computer
Use this book as your one-
stop shop for architecting a**

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world-class DevOps environment with Microsoft technologies. .NET DevOps for Azure is a synthesis of practices, tools, and process that, together, can equip a software organization to move fast and deliver the

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highest quality software. The book begins by discussing the most common challenges faced by developers in DevOps today and offers options and proven solutions on how to implement DevOps for your team. Daily, millions

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of developers use .NET to build and operate mission-critical software systems for organizations around the world. While the marketplace has scores of information about the technology, it is completely up to you to put

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together all the blocks in the right way for your environment. This book provides you with a model to build on. The relevant principles are covered first along with how to implement that part of the environment.

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And while variances in tools, language, or requirements will change the needed implementation, the DevOps model is the architecture for the working environment for your team. You can modify parts of the model to

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**customize it to your
enterprise, but the
architecture will enable all of
your teams and applications
to accelerate in performance.
What You Will Learn Get your
.NET applications into a
DevOps environment in**

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Analyze and address the part of your DevOps process that causes delays or bottlenecksTrack code using Azure Repos and conduct acceptance testsApply the rules for segmenting applications into Git

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repositories
Understand the different types of builds and when to use each
Know how to think about code validation in your DevOps environment
Provision and configure environments;
deploy release candidates

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**across the environments in
AzureMonitor and support
software that has been
deployed to a production
environment Who This Book Is
For .NET Developers who are
using or want to use DevOps
in Azure but don't know**

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where to begin

**Protect your organization's
security at all levels by
introducing the latest
strategies for securing**

DevOps Key Features

**Integrate security at each
layer of the DevOps pipeline**

Access Free DevOps Architecture And Security In A Cloud

Discover security practices to protect your cloud services by detecting fraud and intrusion
Explore solutions to infrastructure security using DevOps principles
Book Description DevOps has provided speed and quality

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benefits with continuous development and deployment methods, but it does not guarantee the security of an entire organization. Hands-On Security in DevOps shows you how to adopt DevOps techniques to continuously

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improve your organization's security at every level, rather than just focusing on protecting your infrastructure. This guide combines DevOps and security to help you to protect cloud services, and teaches

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you how to use techniques to integrate security directly in your product. You will learn how to implement security at every layer, such as for the web application, cloud infrastructure, communication, and the

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delivery pipeline layers. With the help of practical examples, you'll explore the core security aspects, such as blocking attacks, fraud detection, cloud forensics, and incident response. In the concluding chapters, you will

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**cover topics on extending
DevOps security, such as risk
assessment, threat modeling,
and continuous security. By
the end of this book, you will
be well-versed in
implementing security in all
layers of your organization**

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**and be confident in
monitoring and blocking
attacks throughout your cloud
services. What you will learn
Understand DevSecOps
culture and organization
Learn security requirements,
management, and metrics**

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Secure your architecture design by looking at threat modeling, coding tools and practices Handle most common security issues and explore black and white-box testing tools and practices Work with security monitoring

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**toolkits and online fraud
detection rules Explore GDPR
and PII handling case studies
to understand the DevSecOps
lifecycle Who this book is for
Hands-On Security in DevOps
is for system administrators,
security consultants, and**

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DevOps engineers who want to secure their entire organization. Basic understanding of Cloud computing, automation frameworks, and programming is necessary. This book is filled with

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techniques, tips, and tricks that secure software architects and developers can apply directly. From assessing the sensitivity of data in a system through actually getting requirements implemented, this book offers

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**readers practical, how-to
advice in small, focused and
directly applicable gems of
insight, knowledge, and
wisdom from secure software
principal architect Brook S.E.
Schoenfield. The book is
organized by applicability of**

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topics that include getting security architecture started, helping architects be effective, working with partner teams, assessing systems, driving security requirements to completion, and programmatic hints.

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**Azure for Architects
An In-Depth Guide to
Android's Security
Architecture
Implement and Secure
DevOps in the Public Cloud
with Cutting-edge Tools, Tips,
Tricks, and Techniques**

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**Ensure continuous security,
deployment, and delivery with
DevSecOps**

**A Guide for Secure Design
and Deployment**

**Insider's Guide to Cyber
Security Architecture**

DevOps For Dummies

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Today's high-speed and rapidly changing development environments demand equally high-speed security practices. Still, achieving security remains a human endeavor, a core part of designing, generating and

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verifying software. Dr. James Ransome and Brook S.E. Schoenfield have built upon their previous works to explain that security starts with people; ultimately, humans generate software security. People

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collectively act through a particular and distinct set of methodologies, processes, and technologies that the authors have brought together into a newly designed, holistic, generic software development

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lifecycle facilitating
software security at Agile,
DevOps speed. –Eric. S.
Yuan, Founder and CEO, Zoom
Video Communications, Inc.
It is essential that we
embrace a mantra that
ensures security is baked in

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throughout any development process. Ransome and Schoenfield leverage their abundance of experience and knowledge to clearly define why and how we need to build this new model around an understanding that the human

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element is the ultimate key to success. –Jennifer Sunshine Steffens, CEO of IOActive Both practical and strategic, Building in Security at Agile Speed is an invaluable resource for change leaders committed to

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building secure software solutions in a world characterized by increasing threats and uncertainty. Ransome and Schoenfield brilliantly demonstrate why creating robust software is a result of not only

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technical, but deeply human elements of agile ways of working. –Jorgen Hesselberg, author of *Unlocking Agility* and Cofounder of Comparative Agility The proliferation of open source components and distributed software

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services makes the principles detailed in Building in Security at Agile Speed more relevant than ever. Incorporating the principles and detailed guidance in this book into your SDLC is a must for all

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software developers and IT organizations. –George K Tsantes, CEO of Cyberphos, former partner at Accenture and Principal at EY
Detailing the people, processes, and technical aspects of software

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security, Building in
Security at Agile Speed
emphasizes that the people
element remains critical
because software is
developed, managed, and
exploited by humans. This
book presents a step-by-step

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process for software
security that is relevant to
today's technical,
operational, business, and
development environments
with a focus on what humans
can do to control and manage
the process in the form of

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best practices and metrics.
***Over a half-million sold!
The sequel, The Unicorn
Project, is coming Nov 26***
“Every person involved in a
failed IT project should be
forced to read this
book.”—TIM O'REILLY, Founder

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& CEO of O'Reilly Media "The Phoenix Project is a must read for business and IT executives who are struggling with the growing complexity of IT."—JIM WHITEHURST, President and CEO, Red Hat, Inc. Five

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years after this sleeper hit took on the world of IT and flipped it on its head, the 5th Anniversary Edition of The Phoenix Project continues to guide IT in the DevOps revolution. In this newly updated and expanded

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edition of the bestselling
The Phoenix Project, co-
author Gene Kim includes a
new afterword and a deeper
delve into the Three Ways as
described in The DevOps
Handbook. Bill, an IT
manager at Parts Unlimited,

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has been tasked with taking on a project critical to the future of the business, code named Phoenix Project. But the project is massively over budget and behind schedule. The CEO demands Bill must fix the mess in

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ninety days or else Bill's entire department will be outsourced. With the help of a prospective board member and his mysterious philosophy of The Three Ways, Bill starts to see that IT work has more in

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common with a manufacturing plant work than he ever imagined. With the clock ticking, Bill must organize work flow streamline interdepartmental communications, and effectively serve the other

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business functions at Parts Unlimited. In a fast-paced and entertaining style, three luminaries of the DevOps movement deliver a story that anyone who works in IT will recognize. Readers will not only learn

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how to improve their own IT organizations, they'll never view IT the same way again.

“This book is a gripping read that captures brilliantly the dilemmas that face companies which depend on IT, and offers

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real-world solutions.”—JEZ
HUMBLE, Co-author of
Continuous Delivery, Lean
Enterprise, Accelerate, and
The DevOps Handbook ———
“I’m delighted at how The
Phoenix Project has reshaped
so many conversations in

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technology. My goal in writing The Unicorn Project was to explore and reveal the necessary but invisible structures required to make developers (and all engineers) productive, and reveal the devastating

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effects of technical debt and complexity. I hope this book can create common ground for technology and business leaders to leave the past behind, and co-create a better future together.”—Gene Kim,

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Access Free Devops Architecture And Security In A Cloud November 2019

Develop faster with DevOps
DevOps embraces a culture of
unifying the creation and
distribution of technology
in a way that allows for
faster release cycles and
more resource-efficient

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product updating. DevOps For Dummies provides a guidebook for those on the development or operations side in need of a primer on this way of working. Inside, DevOps evangelist Emily Freeman provides a roadmap for

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adopting the management and technology tools, as well as the culture changes, needed to dive head-first into DevOps. Identify your organization's needs Create a DevOps framework Change your organizational

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structure Manage projects in the DevOps world DevOps For Dummies is essential reading for developers and operations professionals in the early stages of DevOps adoption.

From fundamentals and design

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patterns to the different
strategies for creating
secure and reliable
architectures in AWS cloud,
learn everything you need to
become a successful
solutions architect
Endorsements "For new or

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existing solutions architects looking to keep their skills sharp in the cloud era, this book hits all the key areas." -Rajesh Sheth, GM, Messaging and Streaming, AWS "...the go-to guide for understanding

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various functions in the age of cloud computing." -Rohan Karmarkar, Director, Solutions Architecture, AWS
"...you will find very important nuggets of knowledge that will help you be a successful solutions

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architect, and open up a new world of infinite possibilities!" -Kamal Arora, Senior Manager, Solutions Architecture, AWS
Book Description Becoming a solutions architect requires a hands-on approach, and

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this edition of the Solutions Architect's Handbook brings exactly that. This handbook will teach you how to create robust, scalable, and fault-tolerant solutions and next-generation architecture

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designs in a cloud environment. It will also help you build effective product strategies for your business and implement them from start to finish. This new edition features additional chapters on

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disruptive technologies, such as Internet of Things (IoT), quantum computing, data engineering, and machine learning. It also includes updated discussions on cloud-native architecture, blockchain

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data storage, and mainframe modernization with public cloud. The Solutions Architect's Handbook provides an understanding of solution architecture and how it fits into an agile enterprise environment. It

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will take you through the journey of solution architecture design by providing detailed knowledge of design pillars, advanced design patterns, anti-patterns, and the cloud-native aspects of modern

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software design. By the end of this handbook, you'll have learned the techniques needed to create efficient architecture designs that meet your business requirements. What you will learnExplore the various

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roles of a solutions
architect in the enterprise
landscapeImplement key
design principles and
patterns to build high-
performance cost-effective
solutionsChoose the best
strategies to secure your

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architectures and increase
their availabilityModernize
legacy applications with the
help of cloud
integrationUnderstand how
big data processing, machine
learning, and IoT fit into
modern architectureIntegrate

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a DevOps mindset to promote collaboration, increase operational efficiency, and streamline productionWho this book is for This book is for software developers, system engineers, DevOps engineers, architects, and

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team leaders who already work in the IT industry and aspire to become solutions architect professionals. Existing solutions architects who want to expand their skillset or get a better understanding of

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new technologies will also learn valuable new skills. To get started, you'll need a good understanding of the real-world software development process and general programming experience in any language.

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Design your cloud
infrastructure by
implementing DevOps,
containers, and Amazon Web
Services

Sustainable Architecture in
an Agile and Cloud-Centric
World

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Software Architecture in the
Age of Agility and Devops

DevOps with OpenShift

Keeping your Microsoft Azure
workloads safe

AWS for Solutions Architects

Tools and techniques for
automated security scanning

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and testing in DevSecOps

**Your one stop guide to
making the most out of
Azure Cloud About This
Book Get familiar with the
different design patterns
available in Microsoft**

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**Azure Develop Azure cloud
architecture and a
pipeline management system
Get to know the security
best practices for your
Azure deployment Who This
Book Is For If you are**

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Cloud Architects, DevOps Engineers, or developers who want to learn key architectural aspects of the Azure Cloud platform, then this book is for you. Prior basic knowledge of

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**the Azure Cloud platform
is good to have. What You
Will Learn Familiarize
yourself with the
components of the Azure
Cloud platform Understand
the cloud design patterns**

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**Use enterprise security
guidelines for your Azure
deployment Design and
implement Serverless
solutions See Cloud
architecture and the
deployment pipeline**

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Understand cost management for Azure solutions In Detail Over the years, Azure cloud services has grown quickly, and the number of organizations adopting Azure for their

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cloud services is also gradually increasing. Leading industry giants are finding that Azure fulfills their extensive cloud requirements. This book will guide you

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through all the important and tough decision-making aspects involved in architecturing a Azure public cloud for your organization. The book starts with an extensive

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**introduction to all the
categories of designs
available with Azure.
These design patterns
focus on different aspects
of cloud such as high
availability, data**

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management, and so on.
Gradually, we move on to
various aspects such as
building your cloud
structure and
architecture. It will also
include a brief

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**description about
different types of
services provided by
Azure, such as Azure
functions and Azure
Analytics, which can prove
beneficial for an**

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organization. This book will cover each and every aspect and function required to develop a Azure cloud based on your organizational requirements. By the end

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**of this book, you will be
in a position to develop a
full-fledged Azure cloud.
Style and approach This
hands-on guide to the
Azure Cloud platform
covers different**

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**architectural concepts and
implementations necessary
for any enterprise scale
deployment.**

**DevSecOps provides a clear
path to building systems
and protocols that**

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**promotes taking ownership
of software security and
supports the DevOps
philosophy.**

**Kubernetes is the
operating system of the
cloud native world,**

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**providing a reliable and
scalable platform for
running containerized
workloads. In this
friendly, pragmatic book,
cloud experts John Arundel
and Justin Domingus show**

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you what Kubernetes can do—and what you can do with it. You'll learn all about the Kubernetes ecosystem, and use battle-tested solutions to everyday problems. You'll

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**build, step by step, an
example cloud native
application and its
supporting infrastructure,
along with a development
environment and continuous
deployment pipeline that**

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you can use for your own applications. Understand containers and Kubernetes from first principles; no experience necessary Run your own clusters or choose a managed

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**Kubernetes service from
Amazon, Google, and others
Use Kubernetes to manage
resource usage and the
container lifecycle
Optimize clusters for
cost, performance,**

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resilience, capacity, and scalability Learn the best tools for developing, testing, and deploying your applications Apply the latest industry practices for security,

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**observability, and
monitoring Adopt DevOps
principles to help make
your development teams
lean, fast, and effective
Boost your organization's
growth by incorporating**

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**networking in the DevOps
culture About This Book
Implement networking
fundamentals to the DevOps
culture with ease,
improving your
organization's stability**

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Leverage various open source tools such as Puppet and Ansible in order to automate your network This step-by-step learning guide collaborating the

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**functions of developers
and network administrators
Who This Book Is For The
book is aimed for Network
Engineers, Developers, IT
operations and System
admins who are planning to**

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**incorporate Networking in
DevOps culture and have no
knowledge about it. What
You Will Learn Learn about
public and private cloud
networking using AWS and
OpenStack as examples**

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**Explore strategies that
can be used by engineers
or managers to initiate
the cultural changes
required to enable the
automation of network
functions Learn about SDN**

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and how an API-driven approach to networking can help solve common networking problems Get the hang of configuration management tools, such as Ansible and Jenkins, that

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can be used to orchestrate and configure network devices Setup continuous integration, delivery, and deployment pipelines for network functions Create test environments for

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**network changes Understand
how load balancing is
becoming more software
defined with the emergence
of microservice
applications In Detail
Frustrated that your**

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company's network changes are still a manual set of activities that slow developers down? It doesn't need to be that way any longer, as this book will help your

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company and network teams embrace DevOps and continuous delivery approaches, enabling them to automate all network functions. This book aims to show readers network

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automation processes they could implement in their organizations. It will teach you the fundamentals of DevOps in networking and how to improve DevOps processes and workflows by

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**providing automation in
your network. You will be
exposed to various
networking strategies that
are stopping your
organization from scaling
new projects quickly. You**

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**will see how SDN and APIs
are influencing DevOps
transformations, which
will in turn help you
improve the scalability
and efficiency of your
organizations networks**

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operations. You will also find out how to leverage various configuration management tools such as Ansible, to automate your network. The book will also look at containers

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and the impact they are having on networking as well as looking at how automation impacts network security in a software-defined network. Style and approach This will be a

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**comprehensive, learning
guide for teaching our
readers how networking can
be leveraged to improve
the DevOps culture for any
organization.**

Create secure, scalable,

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Cloud

**high-availability
applications on the cloud,
3rd Edition
Enterprise DevOps for
Architects
DevSecOps
Cloud Deployments Made**

Access Free Devops Architecture And Security In A Cloud Easy

**DevOps For Beginners
Implement and secure
DevOps in the public cloud
with cutting-edge tools,
tips, tricks, and
techniques**

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Practical Cloud Security
*Winner of the Shingo Publication
Award Accelerate your
organization to win in the
marketplace. How can we apply
technology to drive business
value? For years, we've been told*

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that the 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 include data collected from the

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State of DevOps reports conducted with Puppet, Dr. Nicole Forsgren, Jez Humble, and Gene Kim set out to find a way to measure software delivery performance—and what drives it—using rigorous

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statistical methods. This book presents both the findings and the science behind that research, making the information accessible for readers to apply in their own organizations. Readers will discover how to measure the

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performance of their teams, and what capabilities they should invest in to drive higher performance. This book is ideal for management at every level. Any organization with valuable data has been or will be attacked,

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probably successfully, at some point and with some damage. And, don't all digitally connected organizations have at least some data that can be considered "valuable"? Cyber security is a big, messy, multivariate,

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multidimensional arena. A reasonable "defense-in-depth" requires many technologies; smart, highly skilled people; and deep and broad analysis, all of which must come together into some sort of functioning whole,

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which is often termed a security architecture. Secrets of a Cyber Security Architect is about security architecture in practice. Expert security architects have dozens of tricks of their trade in their kips. In this book, author

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Brook S. E. Schoenfield shares his tips and tricks, as well as myriad tried and true bits of wisdom that his colleagues have shared with him. Creating and implementing a cyber security architecture can be hard,

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***complex, and certainly
frustrating work. This book is
written to ease this pain and
show how to express security
requirements in ways that make
the requirements more palatable
and, thus, get them***

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accomplished. It also explains how to surmount individual, team, and organizational resistance. The book covers: What security architecture is and the areas of expertise a security architect needs in practice The

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***relationship between attack
methods and the art of building
cyber defenses Why to use
attacks and how to derive a set
of mitigations and defenses
Approaches, tricks, and
manipulations proven successful***

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***for practicing security
architecture Starting, maturing,
and running effective security
architecture programs Secrets of
the trade for the practicing
security architecture Tricks to
surmount typical problems Filled***

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with practical insight, Secrets of a Cyber Security Architect is the desk reference every security architect needs to thwart the constant threats and dangers confronting every digitally connected organization.

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***A collection of best practices
and effective implementation
recommendations that are
proven to work, Secure,
Resilient, and Agile Software
Development leaves the boring
details of software security***

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theory out of the discussion as much as possible to concentrate on practical applied software security for practical people. Written to aid your career as well as your organization, the book shows how to gain skills in

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secure and resilient software development and related tasks. The book explains how to integrate these development skills into your daily duties, thereby increasing your professional value to your

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***company, your management,
your community, and your
industry. Secure, Resilient, and
Agile Software Development was
written for the following
professionals: AppSec architects
and program managers in***

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***information security
organizations Enterprise
architecture teams with
application development focus
Scrum teams DevOps teams
Product owners and their
managers Project managers***

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***Application security auditors
With a detailed look at Agile and
Scrum software development
methodologies, this book
explains how security controls
need to change in light of an
entirely new paradigm on how***

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software is developed. It focuses on ways to educate everyone who has a hand in any software development project with appropriate and practical skills to Build Security In. After covering foundational and

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fundamental principles for secure application design, this book dives into concepts, techniques, and design goals to meet well-understood acceptance criteria on features an application must implement. It

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also explains how the design sprint is adapted for proper consideration of security as well as defensive programming techniques. The book concludes with a look at white box application analysis and sprint-

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based activities to improve the security and quality of software under development.

Gain in-depth insight into DevOps relative to your field of expertise and implement effective DevOps culture and

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***processes within your
organization Key
Features Packed with step-by-
step explanations and practical
examples to help you get started
with DevOps Develop the skills
and knowledge you need to***

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tackle the deployment of DevOps tools Discover technology trends such as FinOps and DevSecOps to get more value from DevOps Book Description DevOps is a set of best practices enabling operations and

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development teams to work together to produce higher-quality work and, among other things, quicker releases. This book helps you to understand the fundamentals needed to get started with DevOps, and

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prepares you to start deploying technical tools confidently. You will start by learning the key steps for implementing successful DevOps transformations. The book will help you to understand how

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aspects of culture, people, and process are all connected, and that without any one of these elements DevOps is unlikely to be successful. As you make progress, you will discover how to measure and quantify the

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success of DevOps in your organization, along with exploring the pros and cons of the main tooling involved in DevOps. In the concluding chapters, you will learn about the latest trends in DevOps and find

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out how the tooling changes when you work with these specialties. By the end of this DevOps book, you will have gained a clear understanding of the connection between culture, people, and processes within

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DevOps, and learned why all three are critically important. What you will learn Understand the importance of culture in DevOps Build, foster, and develop a successful DevOps culture Discover how to

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***implement a successful DevOps
framework Measure and define
the success of DevOps
transformation Get to grips with
techniques for continuous
feedback and iterate process
changes Discover the tooling***

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***used in different stages of the
DevOps life cycle Who this book
is for This book is for IT
professionals such as support
engineers and systems
engineers and developers
looking to learn DevOps and for***

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those going through DevOps transformation. General knowledge of IT and business processes will be helpful. You'll also find this book useful if you are in a business or service role within technology such as

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***service delivery management.
Basic familiarity with DevOps
and transformational methods
such as value streams and
process are needed to get the
most out of this book.
Agile Application Security***

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***Leverage AIOps and DevSecOps
for secure digital transformation***

***Continuous Architecture in
Practice***

Android Security Internals

Solutions Architect's Handbook

Embracing DevOps through

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***effective culture, people, and
processes***

***Security and Microservice
Architecture on AWS***

Agile continues to be
the most adopted
software development

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methodology among organizations worldwide, but it generally hasn't integrated well with traditional security management techniques. And most security

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professionals aren't up to speed in their understanding and experience of agile development. To help bridge the divide between these two

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worlds, this practical guide introduces several security tools and techniques adapted specifically to integrate with agile development. Written by

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security experts and agile veterans, this book begins by introducing security principles to agile practitioners, and agile principles to security

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practitioners. The authors also reveal problems they encountered in their own experiences with agile security, and how they worked to solve them.

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You'll learn how to: Add security practices to each stage of your existing development lifecycle Integrate security with planning, requirements, design,

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and at the code level
Include security testing
as part of your team's
effort to deliver
working software in each
release Implement
regulatory compliance in

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an agile or DevOps
environment Build an
effective security
program through a
culture of empathy,
openness, transparency,
and collaboration

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A practical guide to making the best use of the OpenShift container platform based on the real-life experiences, practices, and culture within Red Hat Open

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Innovation Labs Key
Features Learn how modern
software companies
deliver business
outcomes that matter by
focusing on DevOps
culture and

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practicesAdapt Open
Innovation Labs culture
and foundational
practices from the Open
Practice
LibraryImplement a
metrics-driven approach

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to application,
platform, and product,
understanding what to
measure and how to learn
and pivotBook

Description DevOps

Culture and Practice

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with OpenShift features many different real-world practices - some people-related, some process-related, some technology-related - to facilitate successful

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DevOps, and in turn
OpenShift, adoption
within your
organization. It
introduces many DevOps
concepts and tools to
connect culture and

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practice through a continuous loop of discovery, pivots, and delivery underpinned by a foundation of collaboration and software engineering.

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Containers and container-centric application lifecycle management are now an industry standard, and OpenShift has a leading position in a flourishing market

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of enterprise Kubernetes-
based product offerings.
DevOps Culture and
Practice with OpenShift
provides a roadmap for
building empowered
product teams within

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your organization. This guide brings together lean, agile, design thinking, DevOps, culture, facilitation, and hands-on technical enablement all in one

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book. Through a combination of real-world stories, a practical case study, facilitation guides, and technical implementation details, DevOps Culture

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and Practice with
OpenShift provides tools
and techniques to build
a DevOps culture within
your organization on Red
Hat's OpenShift
Container Platform. What

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you will learn Implement
successful DevOps
practices and in turn
OpenShift within your
organization Deal with
segregation of duties in
a continuous delivery

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worldUnderstand

automation and its
significance through an
application-centric
viewManage continuous
deployment strategies,
such as A/B, rolling,

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canary, and blue-
greenLeverage

OpenShift's Jenkins
capability to execute
continuous integration
pipelinesManage and
separate configuration

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from static runtime
softwareMaster
communication and
collaboration enabling
delivery of superior
software products at
scale through continuous

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discovery and continuous
deliveryWho this book is
for This book is for
anyone with an interest
in DevOps practices with
OpenShift or other
Kubernetes platforms.

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This DevOps book gives software architects, developers, and infra-ops engineers a practical understanding of OpenShift, how to use it efficiently for the

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effective deployment of application architectures, and how to collaborate with users and stakeholders to deliver business-impacting outcomes.

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For many decades, IT infrastructure has provided the foundation for successful application deployment. Yet, general knowledge of infrastructures is

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still not widespread.
Experience shows that
software developers,
system administrators,
and project managers
often have little
knowledge of the big

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influence IT
infrastructures have on
the performance,
availability and
security of software
applications. This book
explains the concepts,

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history, and
implementation of IT
infrastructures.

Although many of books
can be found on
individual

infrastructure building

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blocks, this is the
first book to describe
all of them:

datacenters, servers,
networks, storage,
virtualization,
operating systems, and

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end user devices.

Whether you need an
introduction to
infrastructure
technologies, a
refresher course, or a
study guide for a

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computer science class,
you will find that the
presented building
blocks and concepts
provide a solid
foundation for
understanding the

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complexity of today's IT
infrastructures.

Implementing cloud
design, DevOps, IoT, and
serverless solutions on
your public cloud

A Software Architect's

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Perspective

Building in Security at
Agile Speed