

Where To Download Oauth 2 In Action

Oauth 2 In Action

Explore tools for integrating resources and applications with Azure Active Directory for authentication and authorization. This book starts with an

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introduction to
Azure Active
Directory (AAD)
where you will learn
the core concepts
necessary to
understand AAD
and authentication
in general. You will
then move on to
learn OpenID
Connect and OAuth
along with its flows,

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followed by a deep dive into the integration of web applications for user-based authentication. Next, you go through user authentication and how to enable the integration of various native applications with AAD. This is

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followed by an overview of authenticating applications along with a detailed discussion on collaboration with external users and other AD tenants. Moving forward, Developing Applications with Azure Active

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Directory covers using schemas of AD objects, such as users, to add custom attributes on top of ADD's predefined attributes. You will see how multi-tenancy can be supported in Azure AD as well as how to design

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authorization with
Azure AD. After
reading this book,
you will be able to
integrate, design,
and develop
authentication and
authorization
techniques in Azure
Active Directory.
What You Will
Learn Integrate
applications with

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Azure AD for authentication
Explore various Azure AD authentication scenarios
Master core Azure AD concepts
Integrate external users and tenants
Who is this book for: The book will be useful for architects and developers,

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planning to use
Azure AD for
authentication.
Summary Neo4j in
Action is a
comprehensive
guide to Neo4j,
aimed at application
developers and
software architects.
Using hands-on
examples, you'll
learn to model

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graph domains naturally with Neo4j graph structures. The book explores the full power of native Java APIs for graph data manipulation and querying. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub

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formats from
Manning
Publications. About
the Technology
Much of the data
today is highly
connected—from
social networks to
supply chains to
software
dependency
management—and
more connections

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are continually
being uncovered.
Neo4j is an ideal
graph database tool
for highly connected
data. It is mature,
production-ready,
and unique in
enabling developers
to simply and
efficiently model and
query connected
data. About the

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Book Neo4j in Action is a comprehensive guide to designing, implementing, and querying graph data using Neo4j. Using hands-on examples, you'll learn to model graph domains naturally with Neo4j graph structures. The book explores

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the full power of native Java APIs for graph data manipulation and querying. It also covers Cypher, Neo4j's graph query language. Along the way, you'll learn how to integrate Neo4j into your domain-driven app using Spring Data

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Neo4j, as well as how to use Neo4j in standalone server or embedded modes. Knowledge of Java basics is required. No prior experience with graph data or Neo4j is assumed. What's Inside Graph database patterns How to model data in social networks

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How to use Neo4j in
your Java
applications How to
configure and set up
Neo4j About the
Authors Aleksa
Vukotic is an
architect
specializing in graph
data models. Nicki
Watt, Dominic Fox,
Tareq Abedrabbo,
and Jonas Partner

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work at OpenCredo,
a Neo Technology
partner, and have
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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

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practices 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

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integration,
continuous delivery,
and 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

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in the cloud can benefit from incredible efficiencies, 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

Where To Download Oauth 2 In Action

DevOps teaches you the essential techniques to secure your cloud services. Using compelling case studies, it shows you how to build security into automated testing, continuous delivery, and other core DevOps processes.

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This experience-rich book is filled with mission-critical strategies to protect 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

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the unique vulnerabilities posed by cloud deployments and automation tools commonly used in modern infrastructures.

What's inside An approach to continuous security
Implementing test-driven security in

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DevOps Security
techniques for cloud
services Watching
for fraud and
responding to
incidents Security
testing and risk
assessment About
the Reader Readers
should be
comfortable with
Linux and standard
DevOps practices

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like CI, CD, and unit testing. About the

Author Julien

Vehent is a security architect and

DevOps advocate.

He leads the Firefox Operations Security

team at Mozilla, and

is responsible for

the security of

Firefox's high-traffic

cloud services and

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public websites.

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security

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Learn to leverage existing free open source software to build an identity and access management (IAM) platform that can serve your organization for the long term. With the emergence of open standards and open source software, it's

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now easier than ever to build and operate your own IAM stack The most common culprit of the largest hacks has been bad personal identification. In terms of bang for your buck, effective access control is the best investment you

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can make:

financially, it's more valuable to prevent than to detect a security breach.

That's why Identity and Access Management (IAM) is a critical component of an organization's security infrastructure. In the

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past, IAM software has been available only from large enterprise software vendors.

Commercial IAM offerings are bundled as “suites” because IAM is not just one component: It’s a number of components working together,

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including web, authentication, authorization, and cryptographic and persistence services. Deploying Identity and Access Management with Free Open Source Software documents a recipe to take advantage of open standards to build

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an enterprise-class IAM service using free open source software. This recipe can be adapted to meet the needs of both small and large organizations. While not a comprehensive guide for every application, this

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book provides the key concepts and patterns to help administrators and developers leverage a central security infrastructure. Cloud IAM service providers would have you believe that managing an IAM is too hard. Anything unfamiliar

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is hard, but with the right road map, it can be mastered.

You may find SaaS identity solutions too rigid or too

expensive. Or

perhaps you don't

like the idea of a

third party holding

the credentials of

your users—the keys

to your kingdom.

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Open source IAM provides an alternative. Take control of your IAM infrastructure if digital services are key to your organization's success. What You'll Learn Why to deploy a centralized authentication and policy management

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infrastructure Use:

SAML for single
sign-on, OpenID
Connect for web
and mobile single
sign-on, and

OAuth2 for API
Access

Management

Synchronize data
from existing identity
repositories such as
Active Directory

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Deploy two-factor authentication services Who This Book Is For Security architects (CISO, CSO), system engineers/administrators, and software developers
Spring Boot in Action
Demystifying OAuth 2.0, OpenID

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Connect, and SAML
2.0

Spring Security in
Action

Programming

JavaScript

Applications

Neo4j in Action

Keycloak - Identity
and Access

Management for
Modern Applications

Learn to leverage the

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advanced capabilities of Keycloak, an open-source identity and access management solution, to enable authentication and authorization in applications

Key Features

Get up to speed with Keycloak, OAuth 2.0, and OpenID Connect using practical examples

Configure,

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manage, and extend
Keycloak for
optimized
securityLeverage
Keycloak features to
secure different
application typesBook
Description
Implementing
authentication and
authorization for
applications can be a
daunting experience,
often leaving them

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exposed to security vulnerabilities.

Keycloak is an open-source solution for identity management and access management for modern applications, which can make a world of difference if you learn how to use it. Keycloak, helping you get started with using it and securing

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your applications.

Complete with hands-on tutorials, best practices, and self-assessment

questions, this easy-to-follow guide will show you how to secure a sample application and then move on to securing different application types. As you progress, you will

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understand how to configure and manage Keycloak as well as how to leverage some of its more advanced capabilities. Finally, you'll gain insights into securely using Keycloak in production. By the end of this book, you will have learned how to install and manage

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Keycloak as well as how to secure new and existing applications. What you will learn Understand how to install, configure, and manage Keycloak Secure your new and existing applications with Keycloak Gain a basic understanding of OAuth 2.0 and

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OpenID

Connect Understand

how to configure

Keycloak to make it
ready for production

use Discover how to
leverage additional

features and how to
customize Keycloak

to fit your needs Get to
grips with securing

Keycloak servers and
protecting

applications Who this

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book is for
Developers,
sysadmins, security
engineers, or anyone
who wants to
leverage Keycloak
and its capabilities for
application security
will find this book
useful. Beginner-level
knowledge of app
development and
authentication and
authorization is

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expected.

Summary Spring
Microservices in
Action teaches you
how to build
microservice-based
applications using
Java and the Spring
platform. Purchase of
the print book
includes a free eBook
in PDF, Kindle, and
ePub formats from
Manning Publications.

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About the technology
Microservices break
up your code into
small, distributed, and
independent services
that require careful
forethought and
design. Fortunately,
Spring Boot and
Spring Cloud simplify
your microservice
applications, just as
the Spring Framework
simplifies enterprise

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Java development. Spring Boot removes the boilerplate code involved with writing a REST-based service. Spring Cloud provides a suite of tools for the discovery, routing, and deployment of microservices to the enterprise and the cloud. About the Book Spring Microservices in Action teaches you

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how to build
microservice-based
applications using
Java and the Spring
platform. You'll learn
to do microservice
design as you build
and deploy your first
Spring Cloud
application.

Throughout the book,
carefully selected real-
life examples expose
microservice-based

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patterns for configuring, routing, scaling, and deploying your services. You'll see how Spring's intuitive tooling can help augment and refactor existing applications with micro services.

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This book is written
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experience. About the
Author John Carnell is
a senior cloud

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engineer with twenty
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Zipkin Deploying your

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microservices

Create powerful applications to interact with popular service providers such as Facebook, Google, Twitter, and more by leveraging the OAuth 2.0 Authorization Framework About This Book Learn how to use the OAuth 2.0 protocol to interact

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with the world's most popular service providers, such as Facebook, Google, Instagram, Slack, Box, and more Master the finer details of this complex protocol to maximize the potential of your application while maintaining the utmost of security Step through the

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construction of a real-world working application that logs you in with your Facebook account to create a compelling infographic about the most important person in the world—you! Who This Book Is For If you are an application developer, software architect, security

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engineer, or even a casual programmer looking to leverage the power of OAuth, *Mastering OAuth 2.0* is for you. Covering basic topics such as registering your application and choosing an appropriate workflow, to advanced topics such as security considerations and

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extensions to the specification, this book has something for everyone. A basic knowledge of programming and OAuth is recommended. What You Will Learn Discover the power and prevalence of OAuth 2.0 and use it to improve your application's

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capabilities Step through the process of creating a real-world application that interacts with Facebook using OAuth 2.0 Examine the various workflows described by the specification, looking at what they are and when to use them Learn about the many security

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considerations
involved with creating
an application that
interacts with other
service providers

Develop your
debugging skills with
dedicated pages for
tooling and
troubleshooting Build
your own rich,
powerful applications
by leveraging world-
class technologies

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from companies
around the world In
Detail OAuth 2.0 is a
powerful
authentication and
authorization
framework that has
been adopted as a
standard in the
technical community.
Proper use of this
protocol will enable
your application to
interact with the

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world's most popular service providers, allowing you to leverage their world-class technologies in your own application. Want to log your user in to your application with their Facebook account? Want to display an interactive Google Map in your application? How about posting an

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update to your user's LinkedIn feed? This is all achievable through the power of OAuth.

With a focus on practicality and security, this book takes a detailed and hands-on approach to explaining the protocol, highlighting important pieces of information along the way. At the beginning,

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you will learn what OAuth is, how it works at a high level, and the steps involved in creating an application. After obtaining an overview of OAuth, you will move on to the second part of the book where you will learn the need for and importance of registering your

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application and types of supported workflows. You will discover more about the access token, how you can use it with your application, and how to refresh it after expiration. By the end of the book, you will know how to make your application architecture robust. You will explore the

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security

considerations and effective methods to debug your applications using appropriate tools. You will also have a look at special considerations to integrate with OAuth service providers via native mobile applications. In addition, you will also

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come across support resources for OAuth and credentials grant. Style and approach With a focus on practicality and security, Mastering OAuth 2.0 takes a top-down approach at exploring the protocol. Discussed first at a high level, examining the importance and overall structure of the

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protocol, the book then dives into each subject, adding more depth as we proceed. This all culminates in an example application that will be built, step by step, using the valuable and practical knowledge you have gained.

API Security in Action teaches you how to

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create secure APIs for any situation. By following this hands-on guide you'll build a social network API while mastering techniques for flexible multi-user security, cloud key management, and lightweight cryptography.

Summary A web API is an efficient way to

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communicate with an application or service. However, this convenience opens your systems to new security risks. API Security in Action gives you the skills to build strong, safe APIs you can confidently expose to the world. Inside, you 'll learn to construct secure and

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scalable REST APIs, deliver machine-to-machine interaction in a microservices architecture, and provide protection in resource-constrained IoT (Internet of Things) environments. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning

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Publications. About the technology APIs control data sharing in every service, server, data store, and web client. Modern data-centric designs—including microservices and cloud-native applications—demand a comprehensive, multi-layered approach to security

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for both private and public-facing APIs. About the book API Security in Action teaches you how to create secure APIs for any situation. By following this hands-on guide you 'll build a social network API while mastering techniques for flexible multi-user security, cloud key

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management, and
lightweight
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with experience building RESTful APIs. Examples are in Java. About the author Neil Madden has in-depth knowledge of applied cryptography, application security, and current API security technologies. He holds a Ph.D. in Computer Science.

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in Action teaches
you the practical use

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and deployment of this HTTP-based protocol from the perspectives of a client, authorization server, and resource server. You'll learn how to confidently and securely build and deploy OAuth on both the client and server sides.

Where To Download OAuth 2 In Action

Foreword by Ian Glazer. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Think of OAuth 2 as the web version of a valet key. It is an

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HTTP-based security protocol that allows users of a service to enable applications to use that service on their behalf without handing over full control. And OAuth is used everywhere, from Facebook and Google, to startups

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and cloud services.

About the Book

OAuth 2 in Action teaches you practical use and deployment of OAuth 2 from the perspectives of a client, an authorization server, and a resource server. You'll begin with an overview of

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OAuth and its components and interactions. Next, you'll get hands-on and build an OAuth client, an authorization server, and a protected resource. Then you'll dig into tokens, dynamic client registration,

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and more advanced topics. By the end, you'll be able to confidently and securely build and deploy OAuth on both the client and server sides. What's Inside Covers OAuth 2 protocol and design Authorization with

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APIs About the
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need basic

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programming skills
and knowledge of
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About the Author

Justin Richer is a
systems architect and
software engineer.

Antonio Sanso is a
security software
engineer and a
security researcher.

Both authors

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contribute to open standards and open source. Table of Contents Part 1 - First steps What is OAuth 2.0 and why should you care? The OAuth dance Part 2 - Building an OAuth 2 environment Building a simple

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Development model and shows you how to integrate it into your existing development process. First you'll learn how to apply BDD to requirements analysis to define features that focus your development

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efforts on underlying business goals. Then, you'll discover how to automate acceptance criteria and use tests to guide and report on the development process. Along the way, you'll apply BDD principles at the coding level to

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write more
maintainable and
better documented
code. Purchase of
the print book
includes a free eBook
in PDF, Kindle, and
ePub formats from
Manning
Publications. About
the Technology You
can't write good

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software if you don't understand what it's supposed to do.

Behavior-Driven Development (BDD) encourages teams to use conversation and concrete examples to build up a shared understanding of how an application should work and

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which features really matter. With an emerging body of best practices and sophisticated new tools that assist in requirement analysis and test automation, BDD has become a hot, mainstream practice. About the Book **BDD in Action**

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teaches you BDD principles and practices and shows you how to integrate them into your existing development process, no matter what language you use. First, you'll apply BDD to requirements analysis so you can

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focus your development efforts on underlying business goals. Then, you'll discover how to automate acceptance criteria and use tests to guide and report on the development process. Along the way, you'll apply

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BDD principles at the coding level to write more maintainable and better documented code. No prior experience with BDD is required.

What's Inside BDD theory and practice
How BDD will affect your team BDD for

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acceptance,
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documentation

About the Author

John Ferguson

Smart is a specialist
in BDD, automated

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applications. OAuth 2.0 Identity and Access Management Patterns is intended for software developers, software architects, and enthusiasts working with the OAuth 2.0 framework. In order to learn and understand the

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OAuth 2.0 grant flow, it is assumed that you have some basic knowledge of HTTP communication. For the practical examples, basic knowledge of HTML templating, programming languages, and

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executing commands in the command line terminal is assumed. Summary Machine Learning in Action is unique book that blends the foundational theories of machine learning with the practical realities of building tools for everyday

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data analysis. You'll use the flexible Python programming language to build programs that implement algorithms for data classification, forecasting, recommendations, and higher-level

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features like summarization and simplification. About the Book A machine is said to learn when its performance improves with experience. Learning requires algorithms and programs that capture data and ferret out the

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interesting or useful patterns. Once the specialized domain of analysts and mathematicians, machine learning is becoming a skill needed by many. Machine Learning in Action is a clearly written tutorial for developers. It avoids

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academic language
and takes you
straight to the
techniques you'll use
in your day-to-day
work. Many (Python)
examples present the
core algorithms of
statistical data
processing, data
analysis, and data
visualization in code

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you can reuse. You'll understand the concepts and how they fit in with tactical tasks like classification, forecasting, recommendations, and higher-level features like summarization and simplification.

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Readers need no prior experience with machine learning or statistical processing.

Familiarity with Python is helpful.

Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from

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Manning. Also
available is all code
from the book.

What's Inside A no-
nonsense

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As systems have

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become interconnected and more complicated, programmers needed ways to identify parties across multiple computers. One way to do this was for the parties that used applications

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on one computer to authenticate to the applications (and/or operating systems) that ran on the other computers. This mechanism is still widely used-for example, when logging on to a great number of

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Web sites.

However, this approach becomes unmanageable when you have many co-operating systems (as is the case, for example, in the enterprise). Therefore, specialized

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services were invented that would register and authenticate users, and subsequently provide claims about them to interested applications. Some well-known examples are NTLM, Kerberos,

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Public Key Infrastructure (PKI), and the Security Assertion Markup Language (SAML). Most enterprise applications need some basic user security features. At a minimum, they need to

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authenticate their users, and many also need to authorize access to certain features so that only privileged users can get to them. Some apps must go further and audit what the user does. On

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Windows[®], these features are built into the operating system and are usually quite easy to integrate into an application. By taking advantage of Windows integrated authentication, you don't have to

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invent your own authentication protocol or manage a user database. By using access control lists (ACLs), impersonation, and features such as groups, you can implement

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authorization with very little code. Indeed, this advice applies no matter which OS you are using. It's almost always a better idea to integrate closely with the security features in your OS rather than reinventing

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those features yourself. But what happens when you want to extend reach to users who don't happen to have Windows accounts? What about users who aren't running Windows at all? More and more

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applications need this type of reach, which seems to fly in the face of traditional advice. This book gives you enough information to evaluate claims-based identity as a possible option when you're

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planning a new application or making changes to an existing one. It is intended for any architect, developer, or information technology (IT) professional who designs, builds, or operates Web

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applications and services that require identity information about their users. Developers, designers, engineers, and creators can no longer afford to pass responsibility for identity and

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data security onto others. Web developers who don't understand how to obscure data in transmission, for instance, can open security flaws on a site without realizing it. With this practical

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guide, you'll learn how and why everyone working on a system needs to ensure that users and data are protected. Authors Jonathan LeBlanc and Tim Messerschmidt provide a deep dive into the

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concepts, technology, and programming methodologies necessary to build a secure interface for data and identity—without compromising usability. You'll learn how to plug holes in existing

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systems, protect against viable attack vectors, and work in environments that sometimes are naturally insecure. Understand the state of web and application security today Design security password

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developer-focused
guide to writing
applications using
Spring Boot. You'll
learn how to
bypass the tedious

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configuration steps so that you can concentrate on your application's behavior.

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About the
Technology The
Spring Framework
simplifies
enterprise Java
development, but it
does require lots
of tedious
configuration work.
Spring Boot
radically
streamlines

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spinning up a Spring application. You get automatic configuration and a model with established conventions for build-time and runtime dependencies. You also get a handy command-

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line interface you can use to write scripts in Groovy. Developers who use Spring Boot often say that they can't imagine going back to hand configuring their applications. About the Book Spring Boot in Action is a

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developer-focused guide to writing applications using Spring Boot. In it, you'll learn how to bypass configuration steps so you can focus on your application's behavior. Spring expert Craig Walls

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uses interesting and practical examples to teach you both how to use the default settings effectively and how to override and customize Spring Boot for your unique environment.

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Along the way,
you'll pick up
insights from
Craig's years of
Spring
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experience. What's
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efficiently Minimal
to no configuration
Runtime metrics

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developer, author
of the popular
book Spring in

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Action, Fourth Edition, and a frequent speaker at conferences.

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Web APIs are
everywhere, giving

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developers an efficient way to interact with applications, services, and data. Well-designed APIs are a joy to use; poorly-designed APIs are cumbersome, confusing, and frustrating. The Design of Web APIs is a practical, example packed guide to crafting extraordinary web APIs. Author Arnaud Lauret

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demonstrates fantastic design principles and techniques you can apply to both public and private web APIs.

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An encyclopedia designed especially to meet the needs of elementary, junior high,

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and senior high school students.

Summary Angular in Action teaches you everything you need to build production-ready Angular applications. Thoroughly practical and packed with tricks and tips, this hands-on tutorial is perfect for web devs ready to build web applications that can

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handle whatever you throw at them. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Angular makes it easy to deliver amazing web apps. This powerful JavaScript platform provides the tooling to manage your project, libraries to

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help handle most common tasks, and a rich ecosystem full of third-party capabilities to add as needed. Built with developer productivity in mind, Angular boosts your efficiency with a modern component architecture, well-constructed APIs, and a rich community. About the Book Angular in Action teaches you

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everything you need to build production-ready Angular applications. You'll start coding immediately, as you move from the basics to advanced techniques like testing, dependency injection, and performance tuning. Along the way, you'll take advantage of TypeScript and ES2015 features to write clear,

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well-architected code.

Thoroughly practical and packed with tricks and tips, this hands-on tutorial is perfect for web devs ready to build web applications that can handle whatever you throw at them.

What's Inside Spinning up your first Angular application A complete tour of Angular's features Comprehensive

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example projects

Testing and debugging

Managing large

applications About the

Reader Written for web

developers comfortable

with JavaScript, HTML,

and CSS. About the

Author Jeremy Wilken is

a Google Developer

Expert in Angular, Web

Technologies, and

Google Assistant. He

has many years of

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experience building web applications and libraries for eBay, Teradata, and VMware.

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Summary HTTP/2 in

Action is a complete guide to HTTP/2, one of the core protocols of the web. Because HTTP/2 has been designed to be easy to transition to, including keeping it backwards compatible, adoption is rapid and expected to increase over the next few years.

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Concentrating on practical matters, this interesting book presents key HTTP/2 concepts such as frames, streams, and multiplexing and explores how they affect the performance and behavior of your websites. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub

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formats from Manning Publications. About the Technology

HTTP—Hypertext Transfer Protocol—is the standard for exchanging messages between websites and browsers. And after 20 years, it's gotten a much-needed upgrade. With support for streams, server push, header compression, and prioritization,

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HTTP/2 delivers vast improvements in speed, security, and efficiency. About the Book HTTP/2 in Action teaches you everything you need to know to use HTTP/2 effectively. You'll learn how to optimize web performance with new features like frames, multiplexing, and push. You'll also explore real-world examples on

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advanced topics like flow control and dependencies. With ready-to-implement tips and best practices, this practical guide is sure to get you—and your websites—up to speed!

What's Inside HTTP/2 for web developers
Upgrading and troubleshooting Real-world examples and case studies QUIC and

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HTTP/3 About the
Reader Written for web
developers and site
administrators. About
the Authors Barry
Pollard is a professional
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The Design of Web APIs
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Access Management
Patterns

OpenID Connect in
Action

This book will prepare you to meet the next wave of challenges in enterprise security, guiding you through and sharing best practices for designing APIs for rock-solid security. It will explore different security standards and

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*protocols, helping you
choose the right option
for your needs.*

*Advanced API Security,
Second Edition explains
in depth how to secure
APIs from traditional
HTTP Basic*

*Authentication to OAuth
2.0 and the standards
built around it. Keep
your business thriving
while keeping enemies
away. Build APIs with*

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rock-solid security. The book takes you through the best practices in designing APIs for rock-solid security, provides an in depth understanding of most widely adopted security standards for API security and teaches you how to compare and contrast different security standards/protocols to

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find out what suits your business needs, the best. This new edition enhances all the topics discussed in its predecessor with the latest up to date information, and provides more focus on beginners to REST, JSON, Microservices and API security. Additionally, it covers how to secure APIs for

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the Internet of Things (IoT). Audience: The Advanced API Security 2nd Edition is for Enterprise Security Architects and Developers who are designing, building and managing APIs. The book will provide guidelines, best practices in designing APIs and threat mitigation techniques

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for Enterprise Security Architects while developers would be able to gain hands-on experience by developing API clients against Facebook, Twitter, Salesforce and many other cloud service providers. What you'll learn • Build APIs with rock-solid security by understanding best

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practices and design guidelines.

- *Compare and contrast different security standards/protocols to find out what suits your business needs, the best.*
- *Expand business APIs to partners and outsiders with Identity Federation.*
- *Get hands-on experience in developing clients against Facebook,*

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Twitter, and Salesforce APIs. • Understand and learn how to secure Internet of Things. An example-driven guide to securing access to your applications with OpenID Connect, the OAuth-based identity layer that keeps billions of user interactions safe every day. Login security is a complex problem with a

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simple solution: OpenID Connect. OpenID Connect in Action takes you under the hood of this reliable identity layer, showing you how to integrate OpenID Connect into a server-side web application, a single-page application (SPA), a native mobile application, APIs, and more. OpenID Connect in Action teaches you to

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deploy OpenID Connect to secure access to your apps. Ten-year access management veteran Prabath Siriwardena takes you in-depth with the widely adopted technology, showing you how to optimize OpenID Connect for your application's specific use cases. You'll work to secure end-to-end example applications

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created with React and React Native, and even develop solutions for Smart TVs and APIs. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. Summary CORS in Action introduces Cross-Origin Resource Sharing (CORS) from both the server and the

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client perspective. It starts with the basics: how to make CORS requests and how to implement CORS on the server. It then explores key details such as performance, debugging, and security. API authors will learn how CORS opens their APIs to a wider range of users. JavaScript developers will find

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valuable techniques for building rich web apps that can take advantage of APIs hosted anywhere. The techniques described in this book are especially applicable to mobile environments, where browsers are guaranteed to support CORS. Purchase of the print book includes a free eBook in PDF,

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Kindle, and ePub formats from Manning Publications. About the Book Suppose you need to share some JSON data with another application or service. If everything is hosted on one domain, it's a snap. But if the data is on another domain, the browser's "same-origin" policy stops you cold. CORS is a new web

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standard that enables safe cross-domain access without complex server-side code.

Mastering CORS makes it possible for web and mobile applications to share data simply and securely. CORS in Action introduces CORS from both the server and the client perspective. It starts with making and enabling CORS requests

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and then explores performance, debugging, and security. You'll learn to build apps that can take advantage of APIs hosted anywhere and how to write APIs that expand your products to a wider range of users. For web developers comfortable with JavaScript. No experience with CORS

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*is assumed. What's
Inside CORS from the
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About the Author
Monsur Hossain is an
engineer at Google who
has worked on API-
related projects such as*

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your environment What
is CSRF? Other cross-
origin techniques*

*This book offers an
introduction to web-API
security with OAuth 2.0
and OpenID Connect. In*

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less than 50 pages you will gain an overview of the capabilities of OAuth. You will learn the core concepts of OAuth. You will get to know all four OAuth flows that are used in cloud solutions and mobile apps. If you have tried to read the official OAuth specification, you may get the impression that OAuth is complex.

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This book explains OAuth in simple terms. The different OAuth flows are visualized graphically using sequence diagrams. The diagrams allow you to see the big picture of the various OAuth interactions. This high-level overview is complemented with rich set of example requests and responses and an

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explanation of the technical details. In the book the challenges and benefits of OAuth are presented, followed by an explanation of the technical concepts of OAuth. The technical concepts include the actors, endpoints, tokens and the four OAuth flows. Each flow is described in detail, including the use cases

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for each flow.

Extensions of OAuth are presented, such as OpenID Connect and the SAML2 Bearer Profile. Who should read this book? You do not have the time to read long books? This book provides an overview, the core concepts, without getting lost in the small-small details. This book

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*provides all the
necessary information
to get started with
OAuth in less than 50
pages. You believe
OAuth is complicated?
OAuth may seem
complex with flows and
redirects going back
and forth. This book will
give you clarity by
introducing the
seemingly complicated
material by many*

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illustrations. These illustrations clearly show all the involved interaction parties and the messages they exchange. You want to learn the OAuth concepts efficiently? This book uses many illustrations and sequence diagrams. A good diagram says more than 1000 words. You want to learn the

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difference between OAuth and OpenID Connect? You wonder when the two concepts are used, what they have in common and what is different between them. This book will help you answer this question. You want to use OAuth in your mobile app? If you want to access resources that are protected by OAuth, you

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need to get a token first, before you can access the resource. For this, you need to understand the OAuth flows and the dependencies between the steps of the flows. You want to use OAuth to protect your APIs? OAuth is perfectly suited to protect your APIs. You can learn which OAuth endpoints need to be provided and which

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*checks need to be made
within the protected
APIs.*

*Principles of
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Developers*

*The Tao of
Microservices*

*Secure by Design
Identity and Data
Security for Web
Development*

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BDD in Action

Docker in Action

This authoritative and comprehensive workbook covers XML encryption, confidentiality, authentication, digital signatures, message authentication, and cryptographic algorithms. This book will show developers all they need to know about

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how to use XML Digital Signatures to protect the integrity and authenticity of data, and how to use XML Encryption to control its confidentiality.

The OAuth 2.0 authorization framework has become the industry standard in providing secure access to web APIs. It allows users to grant external

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applications access to their data, such as profile data, photos, and email, without compromising security. OAuth 2.0 Simplified is a guide to building an OAuth 2.0 server.

Through high-level overviews, step-by-step instructions, and real-world examples, you will learn how to take advantage of the OAuth

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2.0 framework while building a secure API. Spring Security in Action shows you how to prevent cross-site scripting and request forgery attacks before they do damage. You'll start with the basics, simulating password upgrades and adding multiple types of authorization. As your skills grow, you'll adapt

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Spring Security to new architectures and create advanced OAuth2 configurations. By the time you're done, you'll have a customized Spring Security configuration that protects against threats both common and extraordinary. Summary While creating secure applications is critically important, it can also be

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tedious and time-consuming to stitch together the required collection of tools. For Java developers, the powerful Spring Security framework makes it easy for you to bake security into your software from the very beginning. Filled with code samples and practical examples, Spring Security in

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Action teaches you how to secure your apps from the most common threats, ranging from injection attacks to lackluster monitoring. In it, you'll learn how to manage system users, configure secure endpoints, and use OAuth2 and OpenID Connect for authentication and authorization. Purchase

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of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Security is non-negotiable. You rely on Spring applications to transmit data, verify credentials, and prevent attacks. Adopting "secure by design" principles will protect your network

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from data theft and unauthorized intrusions. About the book *Spring Security in Action* shows you how to prevent cross-site scripting and request forgery attacks before they do damage. You'll start with the basics, simulating password upgrades and adding multiple types of authorization. As your

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skills grow, you'll adapt Spring Security to new architectures and create advanced OAuth2 configurations. By the time you're done, you'll have a customized Spring Security configuration that protects against threats both common and extraordinary. What's inside Encoding passwords and

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authenticating users

Securing endpoints

Automating security

testing Setting up a

standalone authorization

server About the reader

For experienced Java

and Spring developers.

About the author

Laurentiu Spilca is a

dedicated development

lead and trainer at

Endava, with over ten

years of Java

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experience. Table of

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Even small applications have dozens of components. Large applications may have thousands, which makes them challenging to install, maintain, and remove. Docker bundles all application components into a package called a container that keeps things tidy and helps manage any

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dependencies on other applications or infrastructure. Docker in Action, Second Edition teaches you the skills and knowledge you need to create, deploy, and manage applications hosted in Docker containers. This bestseller has been fully updated with new examples, best practices, and entirely

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Publications.

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Machine Learning in
Action

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Robust Web

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HTML5, and Modern JS
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The World Book

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HTTP/2 in Action

Efficiently

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**integrate OAuth
2.0 to protect your
mobile, desktop,
Cloud applications
and APIs using
Spring Security
technologies. About
This Book Interact
with public OAuth
2.0 protected APIs
such as Facebook,
LinkedIn and**

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Google. Use Spring Security and Spring Security OAuth2 to implement your own OAuth 2.0 provider Learn how to implement OAuth 2.0 native mobile clients for Android applications Who

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This Book Is For
This book targets
software engineers
and security
experts who are
looking to develop
their skills in API
security and OAuth
2.0. Prior
programming
knowledge and a
basic

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**understanding of
developing web
applications are
necessary. As this
book's recipes
mostly use Spring
Security and
Spring Security
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prior experience
with Spring
Framework will be**

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**helpful. What You
Will Learn Use
Redis and
relational
databases to store
issued access
tokens and refresh
tokens Access
resources protected
by the OAuth2
Provider using
Spring Security**

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Implement a web application that dynamically registers itself to the Authorization Server Improve the safety of your mobile client using dynamic client registration Protect your Android client with Proof Key for

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Code Exchange

Protect the

Authorization

Server from

COMPUTERS /

Cloud Computing

redirection In

Detail OAuth 2.0 is

a standard protocol

for authorization

and focuses on

client development

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**simplicity while
providing specific
authorization flows
for web
applications,
desktop
applications,
mobile phones, and
so on. This book
also provides useful
recipes for solving
real-life problems**

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using Spring Security and creating Android applications. The book starts by presenting you how to interact with some public OAuth 2.0 protected APIs such as Facebook, LinkedIn and Google. You will

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**also be able to
implement your
own OAuth 2.0
provider with
Spring Security
OAuth2. Next, the
book will cover
practical scenarios
regarding some
important OAuth
2.0 profiles such as
Dynamic Client**

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**Registration,
Token
Introspection and
how to revoke
issued access
tokens. You will
then be introduced
to the usage of
JWT, OpenID
Connect, and how
to safely implement
native mobile**

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OAuth 2.0 Clients.

By the end of this book, you will be able to ensure that both the server and client are protected against common vulnerabilities.

Style and approach

With the help of real-world

examples, this book

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provides step by step recipes for troubleshooting and extending your API security. The book also helps you with accessing and securing data on mobile, desktop, and cloud apps with OAuth 2.0.

Summary The Tao

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In Action

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

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microservice

**design, along with
core concepts and
their application.**

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About the

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Technology An application, even a complex one, can be designed as a system of independent components, each of which handles a single responsibility. Individual microservices are

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**easy for small
teams without
extensive
knowledge of the
entire system
design to build and
maintain.**

**Microservice
applications rely on
modern patterns
like asynchronous,
message-based**

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**communication,
and they can be
optimized to work
well in cloud and
container-centric
environments.**

About the Book

**The Tao of
Microservices
guides you on the
path to
understanding and**

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**building
microservices.
Based on the
invaluable
experience of
microservices guru
Richard Rodger,
this book exposes
the thinking behind
microservice
designs. You'll
master individual**

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**concepts like
asynchronous
messaging, service
APIs, and
encapsulation as
you learn to apply
microservices
architecture to real-
world projects.
Along the way,
you'll dig deep into
detailed case**

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architecture**

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**Breaking down real-
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Implementing large-
scale systems When
not to use
microservices
About the Reader
This book is for
developers and
architects.
Examples use
JavaScript and**

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Node.js. About the Author Richard Rodger, CEO of voxgig, a social network for the events industry, has many years of experience building microservice-based systems for major global companies.

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Whether you develop web applications or mobile apps, the OAuth 2.0 protocol will save a lot of headaches. This concise introduction shows you how OAuth provides a single

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**authorization
technology across
numerous APIs on
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securely access
users' data—such
as user profiles,
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contact lists—to
improve their
experience of your
application.**

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system**

**Know how to
design and use
identity
management to
protect your
application and the
data it manages. At
a time when
security breaches
result in**

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onerous penalties,
it is paramount
that application
developers and
owners understand
identity
management and
the value it
provides when
building
applications. This**

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**book takes you
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covers
troubleshooting
and common
problems to avoid.
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to design identity**

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management for
your applications
and to describe it to
stakeholders with
confidence. You
will be able to
explain account
creation, session
and access
management,
account**

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Learn Understand
key identity
management
concepts
Incorporate
essential design
principles Design
authentication and
access control for a
modern application**

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Know the identity management frameworks and protocols used today (OIDC/OAuth 2.0, SAML 2.0) Review historical failures and know how to avoid them Who This Book Is For Developers,

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**enterprise or
application
architects, business
application or
product owners,
and anyone
involved in an
application's
identity
management
solution**

Advanced API

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Security

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Harness the power

of Keycloak,

OpenID Connect,

and OAuth 2.0

protocols to secure

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Deploying Identity and Access

Management with Free Open Source Software

OAuth 2 is like the web version of a valet key. Instead of unsafe password-sharing, OAuth offers a much

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more secure delegation protocol. OAuth is used everywhere, from large providers like Facebook and Google, to small APIs at startups, and even cloud services, it's the worldwide standard. OAuth

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2 is the must-know security protocol on the web today.

"OAuth 2 in Action" teaches practical use and deployment of this protocol from the perspective of a client, authorization server, and

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resource server.

It begins with
an overview of
OAuth and a look
at its

components and
interactions.

Using hands-on
examples, it
shows how to
build a first
OAuth client,
followed by an
authorization

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server, and then a protected resource. The second part of the book dives into crucial implementation vulnerability, and more advanced topics. By the end of this book, anyone will be able to build

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Design and build Web APIs for a broad range of clients—including browsers and mobile devices—that can adapt to change over time. This practical, hands-on guide takes you through the theory and tools you need to

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build evolvable
HTTP services
with Microsoft's
ASP.NET Web API
framework. In
the process,
you'll learn how
design and
implement a real-
world Web API.
Ideal for
experienced .NET
developers, this
book's sections

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on basic Web API theory and design also apply to developers who work with other development stacks such as Java, Ruby, PHP, and Node. Dig into HTTP essentials, as well as API development

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concepts and
styles Learn
ASP.NET Web API
fundamentals,
including the
lifecycle of a
request as it
travels through
the framework
Design the Issue
Tracker API
example,
exploring topics
such as

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hypermedia
support with
collection+json
Use behavioral-
driven
development with
ASP.NET Web API
to implement and
enhance the
application
Explore
techniques for
building clients
that are

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resilient to
change, and make
it easy to
consume
hypermedia APIs
Get a
comprehensive
reference on how
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works under the
hood, including
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testability
"A complete

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guide to the
challenges and
solutions in
securing
microservices
architectures."

—Massimo Siani,
FinDynamic Key
Features Secure
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infrastructure
and code
Monitoring,
access control,

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and microservice-
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your
microservices
from the start.
Microservices
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challenges at
every level of a
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roservice-to-

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microservice
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exercises, and
real-world
business use
cases ensure you
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into action
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Microservice
security
concepts Edge
services with an
API gateway
Deployments with
Docker,
Kubernetes, and
Istio Security
testing at the
code level
Communications
with HTTP, gRPC,
and Kafka This

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Book Is Written
For For
experienced
microservices
developers with
intermediate
Java skills.

About The Author
Prabath
Siriwardena is
the vice
president of
security
architecture at

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WSO2. Nuwan Dias is the director of API architecture at WSO2. They have designed secure systems for many Fortune 500 companies. Table of Contents PART 1 OVERVIEW 1 Microservices security landscape 2

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Summary

Enterprise Java
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tutorial that shows how to design and manage large-scale Java applications as a collection of microservices. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from

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JVM-based
microservices
applications.
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learning how
microservices
designs compare
to traditional
Java EE
applications.

Always
practical,
author Ken
Finnigan
introduces big-
picture concepts
along with the
tools and

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techniques
you'll need to
implement them.
You'll discover
ecosystem
components like
Netflix Hystrix
for fault
tolerance and
master the Just
enough
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Server (JeAS)
approach. To

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ensure smooth operations, you'll also examine monitoring, security, testing, and deploying to the cloud. What's inside The microservices mental model Cloud-native development

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Strategies for
fault tolerance
and monitoring
Securing your
finished
applications

About the Reader

This book is for
Java developers
familiar with

Java EE. About
the Author Ken
Finnigan leads
the Thorntail

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project at Red Hat, which seeks to make developing microservices for the cloud with Java and Java EE as easy as possible.

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Simplified: A
Guide to
Building OAuth
2.0 Servers

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Securing APIs
with OAuth 2.0,
OpenID Connect,
JWS, and JWE
OAuth 2.0

Cookbook
Getting Started
with OAuth 2.0

As a developer, you
need to build software in
a secure way. But you
can't spend all your time
focusing on security.

The answer is to use

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good design principles, tools, and mindsets that make security an implicit result - it's secure by design. Secure by Design teaches developers how to use design to drive security in software development. This book is full of patterns, best practices, and mindsets that you can directly apply to your real world

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JavaScript's power to build robust web-scale or enterprise applications that are easy to extend and maintain. By applying the design patterns outlined in this practical book, experienced JavaScript developers will learn how to write flexible and resilient code that's easier—yes, easier—to work with as

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affecting the rest of your code. Examine the anatomy of a large-scale JavaScript application

Build modern web apps with the capabilities of desktop applications

Learn best practices for code organization, modularity, and reuse

Separate your application into different layers of responsibility

Build

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efficient, self-describing
hypermedia APIs with
Node.js Test, integrate,
and deploy software
updates in rapid cycles
Control resource access
with user authentication
and authorization
Expand your
application's reach
through
internationalization
Build advanced
authentication solutions

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for any cloud or web environment Active Directory has been transformed to reflect the cloud revolution, modern protocols, and today's newest SaaS paradigms. This is an authoritative, deep-dive guide to building Active Directory authentication solutions for these new environments. Author Vittorio Bertocci drove

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these technologies from initial concept to general availability, playing key roles in everything from technical design to documentation. In this book, he delivers comprehensive guidance for building complete solutions. For each app type, Bertocci presents high-level scenarios and quick implementation steps, illuminates key

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concepts in greater depth, and helps you refine your solution to improve performance and reliability. He helps you make sense of highly abstract architectural diagrams and nitty-gritty protocol and implementation details. This is the book for people motivated to become experts. Active Directory Program

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Manager Vittorio

Bertocci shows you how

to: Address

authentication

challenges in the cloud

or on-premises

Systematically protect

apps with Azure AD and

AD Federation Services

Power sign-in flows with

OpenID Connect, Azure

AD, and AD libraries

Make the most of

OpenID Connect's

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middleware and
supporting classes Work
with the Azure AD
representation of apps
and their relationships
Provide fine-grained app
access control via roles,
groups, and permissions
Consume and expose
Web APIs protected by
Azure AD Understand
new authentication
protocols without
reading complex spec

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