

OAuth 20 Getting Started In Web API Security Volume 1 API University Series

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Technology Trends - Miguel Botto-Tobar 2018-12-29
This book constitutes the refereed proceedings of the 4th

International Conference on Technology Trends, CITT 2018, held in Babahoyo, Ecuador, in August 2018. The 53 revised

full papers presented were carefully reviewed and selected from 204 submissions. The papers are organized in topical sections on communications; security and privacy; computer and software engineering; computational intelligence; e-government and e-participation.

Getting Started with OAuth 2.0

- Ryan Boyd 2012-02-22

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 authorization technology across numerous APIs on the Web, so you can securely access users' data—such as user profiles, photos, videos, and contact lists—to improve their experience of your application. Through code examples, step-by-step instructions, and use-case examples, you'll learn how to apply OAuth 2.0 to your server-side web application, client-side app, or mobile app. Find out what it takes to access social graphs, store data in a

user's online filesystem, and perform many other tasks. Understand OAuth 2.0's role in authentication and authorization Learn how OAuth's Authorization Code flow helps you integrate data from different business applications Discover why native mobile apps use OAuth differently than mobile web apps Use OpenID Connect and eliminate the need to build your own authentication system

ASP.NET Web API 2 Recipes -

Filip Wojcieszyn 2014-08-07

ASP.NET Web API 2 Recipes provides you with the code to solve a full range of Web API problems and question marks that you might face when developing line-of-business applications. ASP.NET Web API 2 Recipes gives you an in-depth explanation for each of these scenarios and shows you how to use Web API with a vast array of .NET application development tools and external libraries, to solve common business problems. Find out how you can build custom web services with ASP.NET Web

API more efficiently than ever.

Designing Evolvable Web APIs with ASP.NET - Glenn Block 2014-03-13

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 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 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 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 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 resilient to change, and make it easy to consume hypermedia APIs Get a comprehensive reference on how ASP.NET Web API works under the hood, including security and testability

Comprehensive Geographic Information Systems - 2017-07-21

Geographical Information Systems is a computer system used to capture, store, analyze and display information related to positions on the Earth's surface. It has the ability to show multiple types of information on multiple geographical locations in a single map, enabling users to assess patterns and relationships between different information points, a crucial component for multiple aspects of modern life and industry. This 3-volumes reference provides an up-to date account of this growing discipline

through in-depth reviews authored by leading experts in the field. VOLUME EDITORS Thomas J. Cova The University of Utah, Salt Lake City, UT, United States Ming-Hsiang Tsou San Diego State University, San Diego, CA, United States Georg Bareth University of Cologne, Cologne, Germany Chunqiao Song University of California, Los Angeles, CA, United States Yan Song University of North Carolina at Chapel Hill, Chapel Hill, NC, United States Kai Cao National University of Singapore, Singapore Elisabete A. Silva University of Cambridge, Cambridge, United Kingdom Covers a rapidly expanding discipline, providing readers with a detailed overview of all aspects of geographic information systems, principles and applications Emphasizes the practical, socioeconomic applications of GIS Provides readers with a reliable, one-stop comprehensive guide, saving them time in searching for the information they need from different sources

Oauth 2.0 Simplified - Aaron Parecki 2017-08-14

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

Designing Web APIs - Brenda Jin 2018-08-29

Using a web API to provide services to application developers is one of the more satisfying endeavors that software engineers undertake. But building a popular API with a thriving developer ecosystem is also one of the most challenging. With this practical guide, developers, architects, and tech leads will learn how to navigate complex decisions for designing, scaling,

marketing, and evolving interoperable APIs. Authors Brenda Jin, Saurabh Sahni, and Amir Shevat explain API design theory and provide hands-on exercises for building your web API and managing its operation in production. You'll also learn how to build and maintain a following of app developers. This book includes expert advice, worksheets, checklists, and case studies from companies including Slack, Stripe, Facebook, Microsoft, Cloudinary, Oracle, and GitHub. Get an overview of request-response and event-driven API design paradigms. Learn best practices for designing an API that meets the needs of your users. Use a template to create an API design process. Scale your web API to support a growing number of API calls and use cases. Regularly adapt the API to reflect changes to your product or business. Provide developer resources that include API documentation, samples, and tools.

Beginning Java Programming - Bart Baesens 2015-03-02

A comprehensive Java guide, with samples, exercises, case studies, and step-by-step instruction. *Beginning Java Programming: The Object Oriented Approach* is a straightforward resource for getting started with one of the world's most enduringly popular programming languages. Based on classes taught by the authors, the book starts with the basics and gradually builds into more advanced concepts. The approach utilizes an integrated development environment that allows readers to immediately apply what they learn, and includes step-by-step instruction with plenty of sample programs. Each chapter contains exercises based on real-world business and educational scenarios, and the final chapter uses case studies to combine several concepts and put readers' new skills to the test. *Beginning Java Programming: The Object Oriented Approach* provides both the information and the tools beginners need to develop Java skills, from the

general concepts of object-oriented programming. Learn to: Understand the Java language and object-oriented concept implementation Use Java to access and manipulate external data Make applications accessible to users with GUIs Streamline workflow with object-oriented patterns The book is geared for those who want to use Java in an applied environment while learning at the same time. Useful as either a course text or a stand-alone self-study program, Beginning Java Programming is a thorough, comprehensive guide.

Professional ASP.NET MVC

4 - Jon Galloway 2012-09-17
An outstanding author team presents the ultimate Wrox guide to ASP.NET MVC 4 Microsoft insiders join giants of the software development community to offer this in-depth guide to ASP.NET MVC, an essential web development technology. Experienced .NET and ASP.NET developers will find all the important information they need to build dynamic, data-driven websites

with ASP.NET and the newest release of Microsoft's Model-View-Controller technology. Featuring step-by-step guidance and lots of code samples, this guide gets you started and moves all the way to advanced topics, using plenty of examples. Designed to give experienced .NET and ASP.NET programmers everything needed to work with the newest version of MVC technology Expert author team includes Microsoft ASP.NET MVC insiders as well as leaders of the programming community Covers controllers, views, models, forms and HTML helpers, data annotation and validation, membership, authorization, security, and routing Includes essential topics such as Ajax and jQuery, NuGet, dependency injection, unit testing, extending MVC, and Razor Includes additional real-world coverage requested by readers of the previous edition as well as a new case study example chapter

OAuth - Matthias Biehl
2014-11-15

This book offers an

introduction to web-API security with OAuth 2.0 and OpenID Connect. In 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. 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 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 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 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 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 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 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 checks need to be made within the protected APIs.

OAuth 2.0 Simplified: A Guide to Building OAuth 2.0 Servers - Aaron Parecki
2018-05-16

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

Webhooks - Events for RESTful APIs - Matthias Biehl
2017-12-22

Got RESTful APIs? Great. API consumers love them. But today, such RESTful APIs are not enough for the evolving expectations of API consumers. Their apps need to be responsive, event-based and react to changes in near real-time. This results in a new set of requirements for the APIs, which power the apps. APIs now need to provide concepts such as events, notifications, triggers, and subscriptions. These concepts are not natively supported by the REST architectural style. In this book we show how to engineer RESTful APIs that support events with a webhook infrastructure. What are the alternatives to webhooks? We

study several approaches for realizing events, such as Polling, Long Polling, Webhooks, HTTP Streaming, Server-Sent Events, WebSockets, WebSub and GraphQL Subscriptions. All of these approaches have their advantages and disadvantages. Can webhooks communicate in real-time? We study the non-functional requirements of a webhooks infrastructure, in areas such as security, reliability and developer experience. How do well-known API providers design webhooks? We examine the webhook infrastructure provided by GitHub, BitBucket, Stripe, Slack, and Intercom. With the best practices, case studies, and design templates provided in this book, we want to help you extend your API portfolio with a modern webhook infrastructure. So you can offer both APIs and events that developers love to use.

Getting Started with IBM API Connect: Scenarios

Guide - Alex Seriy 2016-09-08
IBM® API Connect is an API management solution from IBM

that offers capabilities to create, run, manage, and secure APIs and microservices. By using these capabilities, the full lifecycle of APIs for on-premises and cloud environments can be managed. This IBM Redpaper™ publication describes practical scenarios that show the API Connect capabilities for managing the full API life cycle, creating, running, securing, and managing the APIs. This Redpaper publication is targeted to users of an API Connect based API strategy, developers, IT architects, and technical evangelists. If you are not familiar with APIs or API Connect, we suggest that you read the Redpaper publication *Getting Started with IBM API Connect: Concepts, Architecture and Strategy Guide*, REDP-5349, before reading this publication. **Advanced API Security** - Prabath Siriwardena 2014-08-28
Advanced API Security is a complete reference to the next wave of challenges in

enterprise security--securing public and private APIs. API adoption in both consumer and enterprises has gone beyond predictions. It has become the 'coolest' way of exposing business functionalities to the outside world. Both your public and private APIs, need to be protected, monitored and managed. Security is not an afterthought, but API security has evolved a lot in last five years. The growth of standards, out there, has been exponential. That's where AdvancedAPI Security comes in--to wade through the weeds and help you keep the bad guys away while realizing the internal and external benefits of developing APIs for your services. Our expert author guides you through the maze of options and shares industry leading best practices in designing APIs for rock-solid security. The book will explain, in depth, securing APIs from quite traditional HTTP Basic Authentication to OAuth 2.0 and the standards built around it. Build APIs with rock-solid security today with Advanced

API Security. Takes you through the best practices in designing APIs for rock-solid security. Provides an in depth tutorial of most widely adopted security standards for API security. Teaches you how to compare and contrast different security standards/protocols to find out what suits your business needs the best.

[Developing Applications with Azure Active Directory](#) - Manas Mayank 2019-09-27

Explore tools for integrating resources and applications with Azure Active Directory for authentication and authorization. This book starts with an 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, 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 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 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 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 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, planning to use Azure AD for authentication.

RESTful Web APIs - Leonard Richardson 2013-09-12

The popularity of REST in recent years has led to tremendous growth in almost-RESTful APIs that don't include many of the architecture's benefits. With this practical guide, you'll learn what it takes to design usable REST APIs that evolve over time. By focusing on solutions that cross a variety of domains, this book shows you how to create powerful and secure applications, using the tools designed for the world's most successful distributed computing system: the World Wide Web. You'll explore the concepts behind REST, learn different strategies for creating hypermedia-based APIs, and then put everything together with a step-by-step guide to designing a RESTful Web API. Examine API design strategies, including the collection pattern and pure hypermedia Understand how hypermedia ties representations together into a coherent API Discover how XMDP and ALPS profile formats can help you meet the

Web API "semantic challenge"
Learn close to two-dozen
standardized hypermedia data
formats Apply best practices
for using HTTP in API
implementations Create Web
APIs with the JSON-LD
standard and other the Linked
Data approaches Understand
the CoAP protocol for using
REST in embedded systems
*Current Trends in Web
Engineering* - Andreas Harth
2012-03-09

This book constitutes the
thoroughly refereed post-
conference proceedings of the
workshops held at the 11th
International Conference on
Web Engineering, ICWE 2011,
in Paphos, Cyprus, in June
2011. The 42 revised full
papers presented were
carefully reviewed and selected
from numerous submissions .
The papers are organized in
sections on the Third
International Workshop on
Lightweight Composition on
the Web (ComposableWeb
2011); First International
Workshop on Search,
Exploration and Navigation of
Web Data Sources

(ExploreWeb 2011); Second
International Workshop on
Enterprise Crowdsourcing (EC
2011); Seventh Model-Driven
Web Engineering Workshop
(MDWE 2011); Second
International Workshop on
Quality in Web Engineering
(QWE 2011); Second Workshop
on the Web and Requirements
Engineering (WeRE 2011); as
well as the Doctoral
Symposium2011, and the ICWE
2011 Tutorials.

Getting Started with hapi.js -
John Brett 2016-04-12
Build well-structured, testable
applications and APIs using
hapi.js About This Book With
the help of this book, you will
improve your productivity as a
developer and that of your
team by focusing on business
logic utilizing the structure
that Hapi.js provides You will
be introduced to a real-world
problem and we'll demonstrate
how to use the tools Hapi
provides to resolve it This is
the only book with a learn-by-
example approach Who This
Book Is For If you are a
JavaScript developer with or
without Node.js experience and

would like to learn to build applications, APIs, and web servers with the best-in-class framework hapi.js, this book is perfect for you. What You Will Learn Increase your productivity by taking advantage of the out-of-the-box features hapi.js provides Build secure API servers Create websites and applications using your favorite templating language Leverage hapi.js plugins to better structure your codebase Simplify your security workflows with the built-in authentication and authorization functionality of hapi.js Ensure application reliability with testing and code coverage Reduce code complexity using reusable validation logic with joi Gather insight into your application performance via logging Start the journey to building robust production-ready applications In Detail This book will introduce hapi.js and walk you through the creation of your first working application using the out-of-the-box features hapi.js provides. Packed with real-world problems and

examples, this book introduces some of the basic concepts of hapi.js and Node.js and takes you through the typical journey you'll face when developing an application. Starting with easier concepts such as routing requests, building APIs serving JSON, using templates to build websites and applications, and connecting databases, we then move on to more complex problems such as authentication, model validation, caching, and techniques for structuring your codebase to scale gracefully. You will also develop skills to ensure your application's reliability through testing, code coverage, and logging. By the end of this book, you'll be equipped with all the skills you need to build your first fully featured application. This book will be invaluable if you are investigating Node.js frameworks or planning on using hapi.js in your next project. Style and approach This book takes a step-by-step approach to building an application or web server using hapi.js through examples.

Developments in Information & Knowledge Management for Business Applications - Natalia Kryvinska 2022-04-30

This book discusses incentives for information management, usage of information for existing practices to become more efficient, the acceleration of executive learning, and an evaluation of the information management impact on an organization. In today's COVID-influenced volatile world, companies face a variety of challenges. And the most crucial of them are high levels of uncertainty and risk. Therefore, companies are constantly under pressure to provide sustainable solutions. Accordingly, previously gathered knowledge and information can be extremely helpful for this purpose. Hence, this fourth book of our subseries continues to accentuate on different approaches, which point to the importance of continuous progress in structural management for sustainable growth. It highlights the permanent gain and usage of

information. We would be pleased if the book can stimulate further research on this subject matter.

Mastering ASP.NET Web API - Mithun Pattankar 2017-08-11

Leverage ASP.Net Web API to build professional web services and create powerful applications. About This Book Get a comprehensive analysis of the latest specification of ASP.NET Core and all the changes to the underlying platform that you need to know to make the most of the web API See an advanced coverage of ASP.NET Core Web API to create robust models for your data, create controllers, and handle routing and security This book is packed with key theoretical and practical concepts that can be instantly applied to build professional applications using API with Angular 4, Ionic, and React Who This Book Is For This book is for .Net developers who wants to Master ASP.NET Core (Web API) and have played around with previous ASP.NET Web API a little, but don't have

in-depth knowledge of it. You need to know Visual Studio and C#, and have some HTML, CSS, and JavaScript knowledge. What You Will Learn Acquire conceptual and hands-on knowledge of ASP.NET Core (MVC & Web API) Learn about HTTP methods, the structure of HTTP content, internet media types, and how servers respond to HTTP requests and their associated HTTP codes Explore middleware, filters, routing, and unit testing Optimize Web API implementations Develop a secure Web API interface Deploy Web API projects to various platforms Consume your web API in front end application based on Angular 4, Bootstrap, and Ionic Implement and explore the current trends in service architecture In Detail Microsoft has unified their main web development platforms. This unification will help develop web applications using various pieces of the ASP.NET platform that can be deployed on both Windows and LINUX. With ASP.NET Core (Web API), it will become

easier than ever to build secure HTTP services that can be used from any client. Mastering ASP.NET Web API starts with the building blocks of the ASP.NET Core, then gradually moves on to implementing various HTTP routing strategies in the Web API. We then focus on the key components of building applications that employ the Web API, such as Kestrel, Middleware, Filters, Logging, Security, and Entity Framework. Readers will be introduced to take the TDD approach to write test cases along with the new Visual Studio 2017 live unit testing feature. They will also be introduced to integrate with the database using ORMs. Finally, we explore how the Web API can be consumed in a browser as well as by mobile applications by utilizing Angular 4, Ionic and ReactJS. By the end of this book, you will be able to apply best practices to develop complex Web API, consume them in frontend applications and deploy these applications to a

modern hosting infrastructure. Style and approach Using a hands-on approach, we cover both the conceptual as well as the technical aspects of the ASP.NET Core (Web API) framework.

Development with the Force.com Platform - Jason Ouellette 2011-06-29
Build Powerful, Scalable, Cloud-Based Enterprise Solutions Fast with the Newest Version of Force.com Using Force.com, you can build enterprise applications with world-class value, scalability, and reliability--and do it in days or weeks, not months or years. In this book, top Force.com developer Jason Ouellette offers all the technical guidance and sample code you'll need to get outstanding results with the newest version of Force.com. Drawing on his experience building three of the world's top ten Force.com applications, Jason Ouellette walks you through the entire project lifecycle, from identifying potential applications to prototyping, coding, and deployment.

Throughout, he offers practical insights you won't find in Salesforce.com's documentation--or anywhere else. This edition thoroughly covers Force.com's most powerful new improvements, including Batch Apex, Chatter, Adobe Flex and XML support, and the Force.com Free Edition. Throughout, Ouellette covers all you need to know about user interfaces, database design, workflow, analytics, security, and much more. All his code samples can be run and adapted using a no-cost Force.com Developer Edition account. Learn how Force.com provides customizable business application infrastructure and what makes it unique Master the Force.com database and configure its built-in security features Use advanced business logic, including Batch Apex, managed sharing, and metadata queries Build intuitive user interfaces with Visualforce and extend them with JavaScript, Adobe Flex, or Force.com Sites Master Force.com's options for seamlessly integrating existing

systems and choose the right alternative for your project
Create flexible reports and display them in dashboards
Deliver applications in multiple languages and support multiple currencies
Add social media features with Force.com's new Chatter collaboration tools

Pro REST API Development with Node.js - Fernando Doglio 2015-05-26

Pro REST API Development with Node.js is your guide to managing and understanding the full capabilities of successful REST development. API design is a hot topic in the programming world, but not many resources exist for developers to really understand how you can leverage the advantages. This book will provide a brief background on REST and the tools it provides (well known and not so well known). Understand how there is more to REST than just JSON and URLs. You will then cover and compare the maintained modules currently available in the npm community, including Express, Restify, Vatican, and Swagger. Finally you will code

an example API from start to finish, using a subset of the tools covered. The Node community is currently flooded with modules; some of them are published once and never updated again - cluttering the entire universe of packages. Pro REST API Development with Node.js shines light into that black hole of modules for the developers trying to create an API. Understand REST API development with Node.js using this book today.

GraphQL API Design - Matthias Biehl 2018-01-30

Want to build APIs like Facebook? Since Facebook's framework for building APIs, GraphQL, has become publicly available, this ambition seems to be within reach for many companies. And that is great. But first, let's learn what GraphQL really is and - maybe even more importantly - let's figure out how to apply GraphQL to build APIs that consumers love. Do you like to learn hands-on? In this book, we take a hands-on approach to learning GraphQL. We first explore the concepts of the two

GraphQL languages using examples. Then we start writing some code for our first GraphQL API. We develop this API step by step, from creating a schema and resolving queries, over mocking data and connecting data sources all the way to developing mutations and setting up event subscriptions. Are your API consumers important to you? This book shows you how to apply a consumer-oriented design process for GraphQL APIs, so you can deliver what your consumers really want: an API that solves their problems and offers a great developer experience. Do you want to enable the API consumers so they can build great apps? This book explains the GraphQL query language, which allows the API consumers to retrieve data, write data and get notified when data changes. More importantly, you let them decide, which data they really need from the API. Do you want to make your API easy and intuitive to use? This book shows you how to use the GraphQL schema language to

define a type system for your API, which serves as a reference documentation and helps your API consumers write queries that are syntactically correct. Do you want to profit from what has worked for others? This book provides a collection of best practices for GraphQL that have worked for other companies, e.g. regarding pagination, authentication and caching. REST vs. GraphQL: Which one is better? GraphQL and REST are competing philosophies for building APIs. It is not in the scope of this book to compare or discuss the two approaches. The focus of this book is on a hands-on approach for learning GraphQL.

RESTful Java Web Services -
Bogunuva Mohanram
Balachandar 2017-11-17
Master core REST concepts and create RESTful web services in Java About This Book Build efficient and secure RESTful web APIs in Java.. Design solutions to produce, consume and visualize RESTful web services using WADL,

RAML, and Swagger
Familiarize the role of RESTful APIs usage in emerging technology trends like Cloud, IoT, Social Media. Who This Book Is For If you are a web developer with a basic understanding of the REST concepts and envisage to get acquainted with the idea of designing and developing RESTful web services, this is the book for you. As all the code samples for the book are written in Java, proficiency in Java is a must. What You Will Learn Introduce yourself to the RESTful software architectural style and the REST API design principles Make use of the JSR 353 API, JSR 374 API, JSR 367 API and Jackson API for JSON processing Build portable RESTful web APIs, making use of the JAX-RS 2.1 API Simplify API development using the Jersey and RESTEasy extension APIs Secure your RESTful web services with various authentication and authorization mechanisms Get to grips with the various metadata solutions to describe, produce, and consume RESTful

web services Understand the design and coding guidelines to build well-performing RESTful APIs See how the role of RESTful web services changes with emerging technologies and trends In Detail Representational State Transfer (REST) is a simple yet powerful software architecture style to create lightweight and scalable web services. The RESTful web services use HTTP as the transport protocol and can use any message formats, including XML, JSON(widely used), CSV, and many more, which makes it easily inter-operable across different languages and platforms. This successful book is currently in its 3rd edition and has been used by thousands of developers. It serves as an excellent guide for developing RESTful web services in Java. This book attempts to familiarize the reader with the concepts of REST. It is a pragmatic guide for designing and developing web services using Java APIs for real-life use cases following best practices and for learning

to secure REST APIs using OAuth and JWT. Finally, you will learn the role of RESTful web services for future technological advances, be it cloud, IoT or social media. By the end of this book, you will be able to efficiently build robust, scalable, and secure RESTful web services using Java APIs. Style and approach Step-by-step guide to designing and developing robust RESTful web services. Each topic is explained in a simple and easy-to-understand manner with lots of real-life use-cases and their solutions.

RESTful Web API Design with Node.js - Valentin Bojinov
2016-05-26

Design and implement efficient RESTful solutions with this practical hands-on guide About This Book Create a fully featured RESTful API solution from scratch. Learn how to leverage Node.JS, Express, MongoDB and NoSQL datastores to give an extra edge to your REST API design. Use this practical guide to integrate MongoDB in your Node.js application. Who This

Book Is For The ideal target audience for this book is web developers who have some experience with RESTful services. Familiarity with basic JavaScript programming techniques is required. No prior experience with Node.JS or Express.js is required. What You Will Learn Install, develop, and test your own Node.js user modules Comprehend the differences between an HTTP and a RESTful application Optimize RESTful service URI routing with best practices Eliminate third-party dependencies in your tests with mocking Learn about NoSQL data stores and integrate MongoDB in your Node.js application with Mongoose Secure your services with NoSQL database integration within Node.js applications Enrich your development skills to create scalable, server-side, RESTful applications based on the Node.js platform In Detail In this era of cloud computing, every data provisioning solution is built in a scalable and fail-safe way. Thus, when building RESTful services, the

right choice for the underlying platform is vital. Node.js, with its asynchronous, event-driven architecture, is exactly the right choice to build RESTful APIs. This book will help you enrich your development skills to create scalable, server-side, RESTful applications based on the Node.js platform. Starting with the fundamentals of REST, you will understand why RESTful web services are better data provisioning solution than other technologies. You will start setting up a development environment by installing Node.js, Express.js, and other modules. Next, you will write a simple HTTP request handler and create and test Node.js modules using automated tests and mock objects. You will then have to choose the most appropriate data storage type, having options between a key/value or document data store, and also you will implement automated tests for it. This module will evolve chapter by chapter until it turns into a full-fledged and secure Restful service. Style

and approach Create state of the art RESTful API solutions leveraging Node.JS 4.x.

Mastering OAuth 2.0 - Charles Bihis 2015-12-15

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 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 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 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 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 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 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 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 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 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, 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 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 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 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 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.

Sicherheits- und Compliance-Management im Lebenszyklus von Web-APIs. Ergebnisse eines Forschungsprojektes an der HWR Berlin / Otto-von-Guericke-Universität Magdeburg - Sandro Hartenstein 2020-04-16

Die fortschreitende Digitalisierung erfordert offene und interoperabel agierende Softwaresysteme, die sich in eine global vernetzte Welt technologieneutral, aufwandsarm und standardisiert einbinden lassen. Im zunehmenden Maße gelten durch Unternehmen, Behörden und Interessengruppen spezifizierte bzw. offerierte Web-APIs dabei als Rückgrat resultierender Integrationsarchitekturen. Entscheidend für den erfolgreichen Einsatz von Web-APIs ist die Gewährleistung des

Datenschutzes und der Datensicherheit sowohl aus Sicht der Anbieter als auch aus Sicht der entwicklerorientierten Nutzer. Im Mittelpunkt der Monografie stehen dem entsprechend die Möglichkeiten einer sicheren und regelkonformen Verwendung von Web-APIs. Nach einer begrifflichen Abgrenzung wird zunächst auf sicherheitsrelevante Anforderungen eingegangen. Dafür wurden verfügbare empirische Untersuchungen ausgewertet, aber auch eigenständige empirische Analysen durchgeführt. Nach der begrifflichen Klärung der Aufgaben eines den Lebenszyklus begleitenden API-Managements wird auf konstruktive und analytische Maßnahmen zur Qualitätssicherung von Web-APIs während der Softwareentwicklung eingegangen. In diesem Zusammenhang werden auch die Möglichkeiten einer DLT-basierten (Blockchain) Authentifizierung und Autorisierung der Zugriffe auf

Web-APIs untersucht und dafür einsetzbare Frameworks vorgestellt. Im Sinne des ganzheitlichen Ansatzes (DevOps) wird schließlich auf die betrieblichen Aufgaben des Sicherheitsmanagements von Web-APIs eingegangen.

[The New Frontier in Web API Programming](#) - Rick Mac Gillis
2016-07-09

Do you use a single API Call Processing Server? Worse yet, do you have all of your web servers making individual API calls all on their own? Just a single API transaction takes 9 steps to complete through TCP, and your system is getting bogged down with delays from TCP communications. The internet runs on HTTP, and HTTP runs on TCP. You could still use websockets to keep some of the overhead low. However, the TCP/IP stack is just one of many bottlenecks in your infrastructure. Did you know that you don't need to collect the response from every API call you make? What if you could always speak to every API in your format of choice? I'll show you how. In this book,

you'll learn about how implementing an API Call Processing Server or cloud can dramatically reduce the time to transact with an API, reduce your web server overhead, and make programming with APIs so much easier.

Facebook Application Development For Dummies -

Jesse Stay 2011-05-09

A fun and easy guide to creating the next great Facebook app! Want to build the next runaway Facebook app like Farmville or Mafia Wars? Interested in leveraging Facebook app development as part of a marketing strategy? Whether you want to build your own Facebook app from scratch, extend an existing Facebook app, or create a game, this book gets you up and running in no time. Master the Facebook toolkit, get acquainted with the Facebook Markup and Query languages, navigate the Facebook API—even learn how to make money with your new app! Shows you how to build the next great Facebook application with just basic

HTML and scripting skills Delves into what makes a good app and what makes a lucrative app Explores how to create Facebook apps for marketing and viral reach, creating apps that can make money, and Facebook game development Reviews the Facebook toolkit and gets you started with the My First Facebook application Covers Facebook Markup and Query languages, navigating the Facebook API, and how to create a compelling interface Create the next killer Facebook app with this approachable, fun guide!

The SAGE Handbook of Social Media Research

Methods - Luke Sloan

2017-01-26

With coverage of the entire research process in social media, data collection and analysis on specific platforms, and innovative developments in the field, this handbook is the ultimate resource for those looking to tackle the challenges that come with doing research in this sphere.

Automated Data Collection with R - Simon Munzert

2015-01-20

A hands on guide to web scraping and text mining for both beginners and experienced users of R Introduces fundamental concepts of the main architecture of the web and databases and covers HTTP, HTML, XML, JSON, SQL. Provides basic techniques to query web documents and data sets (XPath and regular expressions). An extensive set of exercises are presented to guide the reader through each technique. Explores both supervised and unsupervised techniques as well as advanced techniques such as data scraping and text management. Case studies are featured throughout along with examples for each technique presented. R code and solutions to exercises featured in the book are provided on a supporting website.

Magento 2 Developer's Guide -

Branko Ajzele 2015-12-23

Harness the power of Magento 2 - The most recent version of the world's favourite e-Commerce platform for your

online store About This Book Set up, configure, and power up your Magento environment from development to production Master the use of Web API to communicate with the Magento system and create custom services Create custom modules from scratch to extend the core functionality of the Magento system Who This Book Is For This book is intended primarily for intermediate to professional-level PHP developers who are interested in Magento development. For backend developers, several topics are covered that will enable you to modify and extend your Magento 2 store. Frontend developers will also find some coverage on how to customize the look of the site in the frontend. What You Will Learn Set up the development and production environment of Magento 2 Understand the new major concepts and conventions used in Magento 2 Build a miniature yet fully-functional module from scratch to manage your e-commerce platform efficiently Write

models and collections to manage and search your entity data Dive into backend development such as creating events, observers, cron jobs, logging, profiling, and messaging features Get to the core of frontend development such as blocks, templates, layouts, and the themes of Magento 2 Use token, session, and Oauth token-based authentication via various flavors of API calls, as well as creating your own APIs Get to grips with testing Magento modules and custom themes, which forms an integral part of development In Detail Magento is one of the most exciting, flexible, and customizable e-commerce systems. It offers you an extensive suite of powerful tools for creating and managing an online store. After years of development, Magento 2 introduces itself with a strong emphasis on modularity, Web API's, automated testing and overall new technology stack platform. The long-awaited Magento 2 release introduces a whole new e-commerce platform to develop

online stores. The all new Magento 2 architecture, Web APIs, and a host of other features are equally challenging to master as much as they are exciting to use. This book will ease the learning curve by offering step-by-step guidance on how to extend the core functionality of your Magento 2 store. This book is your one-stop guide to build and customize a quality e-commerce website from the latest version of one of the largest, fastest growing, and most popular e-commerce platforms—Magento 2. We start off with an introduction to the fundamental concepts of Magento to give you a foundation to work from. We then move on to configure the development and basic production environment for Magento. After this, you'll get to grips with the major concepts and conventions that are new to the Magento 2 platform. We then delve deeper to get to the core of automated deployments, persisting data, writing data fixture scripts and applying various backend and

frontend modifications. As we near the end of the book, you will learn to make API calls and write automated tests. Finally, you will be guided through building a full-blown helpdesk module from scratch. By the end of this book, you will have learned a wide range of techniques to extend and customize your Magento 2 store to fit the requirements of your business. Style and approach This book is a mix of theoretical and step-by-step approaches, explained in a conversational and easy-to-follow style. Topics are explained sequentially, giving detailed explanations of the basic and advanced features to get you working on Magento 2.

Pro ASP.NET Web API

Security - Badrinarayanan Lakshmiraghavan 2013-05-13
ASP.NET Web API is a key part of ASP.NET MVC 4 and the platform of choice for building RESTful services that can be accessed by a wide range of devices. Everything from JavaScript libraries to RIA plugins, RFID readers to smart phones can consume your

services using platform-agnostic HTTP. With such wide accessibility, securing your code effectively needs to be a top priority. You will quickly find that the WCF security protocols you're familiar with from .NET are less suitable than they once were in this new environment, proving themselves cumbersome and limited in terms of the standards they can work with. Fortunately, ASP.NET Web API provides a simple, robust security solution of its own that fits neatly within the ASP.NET MVC programming model and secures your code without the need for SOAP, meaning that there is no limit to the range of devices that it can work with - if it can understand HTTP, then it can be secured by Web API. These SOAP-less security techniques are the focus of this book.

Extending IBM Business Process Manager to the Mobile Enterprise with IBM Worklight - Ahmed Abdel-Hamid 2015-02-13

In today's business in motion environments, workers expect

to be connected to their critical business processes while on-the-go. It is imperative to deliver more meaningful user engagements by extending business processes to the mobile working environments. This IBM® Redbooks® publication provides an overview of the market forces that push organizations to reinvent their process with Mobile in mind. It describes IBM Mobile Smarter Process and explains how the capabilities provided by the offering help organizations to mobile-enable their processes. This book outlines an approach that organizations can use to identify where within the organization mobile technologies can offer the greatest benefits. It provides a high-level overview of the IBM Business Process Manager and IBM Worklight® features that can be leveraged to mobile-enable processes and accelerate the adoption of mobile technologies, improving time-to-value. Key IBM Worklight and IBM Business Process Manager capabilities

are showcased in the examples included in this book. The examples show how to integrate with IBM Bluemix™ as the platform to implement various supporting processes. This IBM Redbooks publication discusses architectural patterns for exposing business processes to mobile environments. It includes an overview of the IBM MobileFirst reference architecture and deployment considerations. Through use cases and usage scenarios, this book explains how to build and deliver a business process using IBM Business Process Manager and how to develop a mobile app that enables remote users to interact with the business process while on-the-go, using the IBM Worklight Platform. The target audience for this book consists of solution architects, developers, and technical consultants who will learn the following information: What is IBM Mobile Smarter Process Patterns and benefits of a mobile-enabled Smarter Process IBM BPM features to

mobile-enable processes IBM Worklight features to mobile-enable processes Mobile architecture and deployment topology IBM BPM interaction patterns Enterprise mobile security with IBM Security Access Manager and IBM Worklight Implementing mobile apps to mobile-enabled business processes

The CISO's Next Frontier -

Raj Badhwar 2021-08-05

This book provides an advanced understanding of cyber threats as well as the risks companies are facing. It includes a detailed analysis of many technologies and approaches important to decreasing, mitigating or remediating those threats and risks. Cyber security technologies discussed in this book are futuristic and current. Advanced security topics such as secure remote work, data security, network security, application and device security, cloud security, and cyber risk and privacy are presented in this book. At the end of every chapter, an evaluation of the topic from a CISO's perspective

is provided. This book also addresses quantum computing, artificial intelligence and machine learning for cyber security The opening chapters describe the power and danger of quantum computing, proposing two solutions for protection from probable quantum computer attacks: the tactical enhancement of existing algorithms to make them quantum-resistant, and the strategic implementation of quantum-safe algorithms and cryptosystems. The following chapters make the case for using supervised and unsupervised AI/ML to develop predictive, prescriptive, cognitive and auto-reactive threat detection, mitigation, and remediation capabilities against advanced attacks perpetrated by sophisticated threat actors, APT and polymorphic/metamorphic malware. CISOs must be concerned about current on-going sophisticated cyber-attacks, and can address them with advanced security measures. The latter half of this book discusses some

current sophisticated cyber-attacks and available protective measures enabled by the advancement of cybersecurity capabilities in various IT domains. Chapters 6-10 discuss secure remote work; chapters 11-17, advanced data security paradigms; chapters 18-28, Network Security; chapters 29-35, application and device security; chapters 36-39, Cloud security; and chapters 40-46 organizational cyber risk measurement and event probability. Security and IT engineers, administrators and developers, CIOs, CTOs, CISOs, and CFOs will want to purchase this book. Risk personnel, CROs, IT and Security Auditors as well as security researchers and journalists will also find this useful.

OAuth 2 in Action - Justin Richer 2017-03-06

Summary OAuth 2 in Action teaches you the practical use 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.

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 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 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 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, 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 OAuth 2 OpenID Connect and User-Managed Access Implementation risks JOSE, introspection, revocation, and registration Protecting and accessing REST APIs About the Reader Readers need basic programming skills and knowledge of HTTP and JSON. 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 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 OAuth client Building a simple OAuth protected resource Building a simple OAuth authorization server OAuth 2.0 in the real world

Part 3 - OAuth 2 implementation and vulnerabilities Common client vulnerabilities Common protected resources vulnerabilities Common authorization server vulnerabilities Common OAuth token vulnerabilities Part 4 - Taking OAuth further OAuth tokens Dynamic client registration User authentication with OAuth 2.0 Protocols and profiles using OAuth 2.0 Beyond bearer tokens Summary and conclusions

Web Scraping with Python -

Ryan Mitchell 2015-06-15

Learn web scraping and crawling techniques to access unlimited data from any web source in any format. With this practical guide, you'll learn how to use Python scripts and web APIs to gather and process data from thousands—or even millions—of web pages at once. Ideal for programmers, security professionals, and web administrators familiar with Python, this book not only teaches basic web scraping mechanics, but also delves into

more advanced topics, such as analyzing raw data or using scrapers for frontend website testing. Code samples are available to help you understand the concepts in practice. Learn how to parse complicated HTML pages Traverse multiple pages and sites Get a general overview of APIs and how they work Learn several methods for storing the data you scrape Download, read, and extract data from documents Use tools and techniques to clean badly formatted data Read and write natural languages Crawl through forms and logins Understand how to scrape JavaScript Learn image processing and text recognition

The Semantic Web: ESWC 2014 Satellite Events - Valentina Presutti 2014-10-15

This book constitutes the thoroughly refereed post-conference proceedings of the Satellite Events of the 11th International Conference on the Semantic Web, ESWC 2014, held in Anissaras, Crete, Greece, in May 2014. The volume contains 20 poster and

43 demonstration papers, selected from 113 submissions, as well as 12 best workshop papers selected from 60 papers presented at the workshop at ESWC 2014. Best two papers from AI Mashup Challenge are also included. The papers cover various aspects of the Semantic Web.

The Content, Impact, and Regulation of Streaming Video - Eli Noam 2021-01-29

Along with its interrelated companion volume, *The Technology, Business, and Economics of Streaming Video*, this book examines the next generation of TV—online video. It reviews the elements that lead to online platforms and video clouds and analyzes the software and hardware elements of content creation and interaction, and how these elements lead to different styles of video content.

Sams Teach Yourself the Twitter API in 24 Hours -

Christopher Peri 2011-06-20

In just 24 sessions of one hour or less, you'll learn how to build great new social applications with the latest

versions of the Twitter API. Using this book's straightforward, step-by-step approach, you'll discover all you can do with the Twitter API, and master everything from the absolute basics to the newest innovations. One step at a time, you'll learn how to build Twitter clients and extend them with more power... use advanced features like streaming and geotagging... even build mobile Twitter apps for iPhone and Android! Each lesson builds on what you've already learned resulting in a fully functional Twitter application, giving you a strong real-world foundation for success, even if you're completely new to Twitter development! Step-by-step instructions carefully walk you through the most common Twitter API programming tasks. Quizzes and Exercises at the end of each chapter help you test your knowledge. By the Way notes present interesting information related to the discussion. Did You Know? tips offer advice or show you easier ways to

perform tasks. Watch Out! cautions alert you to possible problems and give you advice on how to avoid them. Learn how to... Make the right upfront decisions in planning your application Integrate Twitter support into existing sites, services, and applications Set up your Twitter development environment Make Twitter API calls, handle responses, and develop readers Construct dynamic frameworks to efficiently generate and manage multiple API calls Build basic clients and extend them to handle more powerful tasks Securely access server resources with OAuth Use Direct Messages, Lists, Search, and other Twitter API features Enable users to control their accounts, establish favorites and friendships, send notifications, and block individuals Build location-based, geotagged applications with Twitter's GEO API Give users up-to-the-minute information about the hottest Twitter topics Get started with Twitter development for iPhone and Android Understand the

future of Twitter API

development