

OAuth 2.0 and OpenID Connect for API Security



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A Technical Deep Dive

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Advanced Api Security Securing Apis With Oauth 2 0 Openid Connect Jws And Jwe

Peter Jones



Advanced Api Security Securing Apis With Oauth 2 0 Openid Connect Jws And Jwe:

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 Advanced API 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 API Security (Corey Ball), 2023-09-15 API 2022 API 80% API 1 REST QL API BOLA BFLA API 2 crAPI DVGA 3 fuzzing API Nmap ZAP W JWT XSS SQL API 4 API QL API API API API API API API API API fuzzing API *Advanced API Security* Prabath Siriwardena, 2019-12-16 Prepare for the next wave of challenges in enterprise security Learn to better protect monitor and manage your public and private APIs Enterprise APIs have become the common way of exposing business functions to the outside world Exposing functionality is convenient but of course comes with a risk of exploitation This book teaches you about TLS Token Binding User Managed Access UMA 2.0 Cross Origin Resource Sharing CORS Incremental Authorization Proof Key for Code Exchange PKCE and Token Exchange Benefit from lessons learned from analyzing multiple attacks that have taken place by exploiting security vulnerabilities in various OAuth 2.0 implementations Explore root causes and improve your security practices to mitigate against similar future exploits Security must be an integral part of any development project This book shares best practices in designing APIs for rock solid security API security has evolved since the first edition of this book and the growth of standards has been exponential OAuth 2.0 is the most widely adopted framework that is used as the foundation for standards and this book shows you how to apply OAuth 2.0 to your own situation in order to secure and protect your enterprise APIs from exploitation and attack What You Will Learn Securely design develop and deploy enterprise APIs Pick security standards and protocols to match business needs Mitigate security exploits by understanding the OAuth 2.0 threat landscape Federate identities to expand business APIs beyond the corporate firewall Protect microservices at the edge by securing their APIs Develop native mobile applications to access APIs securely Integrate applications with SaaS APIs protected with OAuth 2.0 Who This Book Is For Enterprise security architects who are interested in best practices around designing APIs The book

is also for developers who are building enterprise APIs and integrating with internal and external applications

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 a 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 of the core concepts without getting lost in the 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 in Action Justin Richer, Antonio Sanso, 2017-03-06 Provides pragmatic guidance on what to do and what not to do. From the Foreword by Ian Glazer, Salesforce. 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 will 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 What is OAuth 2 0 and why should you care The OAuth dance Building a simple OAuth client Building a simple OAuth protected resource Building a simple OAuth authorization server OAuth 2 0 in the real world Common client vulnerabilities Common protected resources vulnerabilities Common authorization server vulnerabilities Common OAuth token vulnerabilities OAuth tokens Dynamic client registration User authentication with OAuth 2 0 Protocols and profiles using OAuth 2 0 Beyond bearer tokens Summary and conclusions Part 1 First steps Part 2 Building an OAuth 2 environment Part 3 OAuth 2 implementation and vulnerabilities Part 4 Taking OAuth further

API Security in Action Neil Madden, 2020-11-20 A comprehensive guide to designing and implementing secure services A must read book for all API practitioners who manage security Gilberto Taccari Penta 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 management and lightweight cryptography A web API is an efficient way to 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 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 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 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 management and lightweight cryptography When you re done you ll be able to create APIs that stand up to complex threat models and hostile environments What s inside Authentication Authorization Audit logging Rate limiting Encryption About the reader For developers 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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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

OpenID Connect & JWT Matthias Biehl, 2019-02-02 Do you want to know how OpenID Connect works This book is for you Exploring how OpenID Connect works in detail is the subject of this book We take a bottom up approach and first study all the elements actors endpoints and tokens of OpenID Connect This puts us in an excellent position for the second step to understand the various OpenID Connect Flows how the actors endpoints and tokens are put together to transmit identity claims securely Do you wonder why there are several OpenID Connect Flows Whether we use OpenID Connect from a mobile app a script in a browser or from a secure backend server there is an appropriate OpenID Connect Flow with the right tradeoffs in security functionality and convenience for each of these scenarios This book helps you to choose the right one Do you think that these OpenID Connect Flows are confusing You are not alone the OpenID Connect Flows tend to get confusing However with this book we make it clear and easy to understand We visualize these flows and show how to choose the flow that is appropriate for a given scenario A picture says more than a 1000 words that is why we explain the OpenID Connect Flows using easy to understand sequence diagrams Do you want to understand how JWT works This book explains what a JSON Web Token JWT is how it is used in OpenID Connect how it is constructed what data it contains how to read it and how to protect its contents Do you wonder why there are so many tokens in OpenID Connect and how to use them There are JWT JWS JWE access tokens refresh tokens identity tokens and authorization codes This book helps you to make sense of them all Using examples we explore how the tokens are used constructed signed and encrypted Why is OpenID Connect so popular If used in the right

way OpenID Connect is powerful and everyone loves it End users don't need to sign up and remember a new password Business owners enjoy high conversion rates Developers don't get any grey hair over securely storing credentials Do you want to increase the conversion rate of your app Sign up and login to a new app become so smooth and convenient that end users are much more likely to try a new app It is supported e.g. by Google Yahoo or Microsoft Would you like to manage no credentials but still have authenticated users For us developers of web and mobile apps these sign up and login features are attractive too we do not need to manage user credentials and we get a higher conversion rate resulting in more new customers In effect this means cutting costs and increasing the number of new customers for our apps Which programming language do you use in the book This is not a programming book don't expect implementations with a specific programming language or library Instead we focus on understanding OpenID Connect on a conceptual level so we can design and architect apps that work with OpenID Connect And OpenID Connect is the standard behind creating smooth login and sign up experiences increasing the customer sign up rate and creating highly converting apps

OAuth 2 Handbook Robert Johnson, 2025-01-10 OAuth 2 Handbook Simplifying Secure Authorization provides a comprehensive and accessible guide to understanding and implementing OAuth 2.0 the industry standard protocol for secure authorization Authored with clarity and expertise this handbook is designed for beginners and professionals alike offering in depth insights into the principles and practices that underpin OAuth 2.0 From historical evolution to core components and practical integrations each chapter is structured to build a robust understanding of OAuth enhancing the reader's ability to design secure and efficient authorization processes Delving into both foundational concepts and advanced applications the book explores various authorization grant types access token management and best practices for securing API endpoints Readers will also learn about integrating OAuth with diverse applications navigating user authentication and customizing OAuth for specific business needs Moreover the handbook looks ahead to emerging trends and the future of OAuth preparing readers to anticipate and adapt to new challenges in digital security With its matter of fact approach and practical examples this book is an indispensable resource for anyone seeking to master OAuth 2.0 and leverage its capabilities to protect digital environments effectively

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

Solving Identity Management in Modern Applications Yvonne Wilson, Abhishek Hingnikar, 2019-12-18 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 increasingly onerous penalties it is paramount that application developers and owners understand identity management and the value it provides when building applications

This book takes you from account provisioning to authentication to authorization and covers troubleshooting and common problems to avoid. The authors include predictions about why this will be even more important in the future. Application best practices with coding samples are provided. Solving Identity and Access Management in Modern Applications gives you what you need to design identity and access 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 termination and more. What You'll Learn Understand key identity management concepts Incorporate essential design principles Design authentication and access control for a modern application 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 enterprise or application architects business application or product owners and anyone involved in an application's identity management solution

OAuth 2.0 Cookbook Adolfo Eloy Nascimento, 2017-10-18 Efficiently 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 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 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 understanding of developing web applications are necessary As this book's recipes mostly use Spring Security and Spring Security OAuth2 some prior experience with Spring Framework will be 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 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 Code Exchange Protect the Authorization Server from invalid redirection In Detail OAuth 2.0 is a standard protocol for authorization and focuses on client development 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 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 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 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 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 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

Openid Connect Matthias Biehl,2019-02-03 Signup and login with a Google Yahoo or Microsoft account can be found in more and more web and mobile apps One login used by many freeing the end user from the burden of managing many accounts and passwords Signup and login to a new app become so smooth and convenient that end users are much more likely to try a new app For us developers of web and mobile apps these signup and login features are attractive too we do not need to manage user credentials and we get a higher conversion rate resulting in more new customers In effect this means cutting costs and increasing the number of new customers for our apps So how does this feature Signup and login with Google Yahoo or Microsoft work It is realized with OpenID Connect a standardized protocol for sharing end user data in a secure and controlled manner Exploring how OpenID Connect works so we as developers can enjoy its benefits is the subject of this book This book explains the overall concept of OpenID Connect so we understand who the actors are which endpoints and tokens are involved and how these elements interact in so called flows These flows tend to get confusing so we visualize these flows as sequence diagrams and show how to choose the flow that is appropriate for a given scenario Using examples we explore how the tokens are constructed signed and encrypted with JWT JWS and JWE This is not a programming book don't expect implementations with a specific programming language or library Instead we focus on understanding OpenID Connect on a conceptual level so we can design and architect apps that work with OpenID Connect And OpenID Connect is the standard behind creating smooth login and signup experiences increasing the customer signup rate and creating highly converting apps

Advanced Microservice Security: Implementing OAuth2 and JWT Peter Jones,2025-01-09 Advanced Microservice Security Implementing OAuth2 and JWT is an essential guide curated for software developers security engineers and IT professionals who are navigating the intricate landscape of microservice security In an era where microservice architectures underpin enterprise applications creating robust security measures is crucial This book offers a thorough exploration of two fundamental technologies OAuth2 and JSON Web Tokens JWT that are vital for securing microservices The book's meticulously structured chapters guide readers through critical aspects of microservice security from the basic principles of OAuth2 and JWT to their practical implementation Topics covered include designing secure microservices safeguarding service to service communications and effectively managing authentication and authorization using OAuth2 and JWT Packed with practical examples and real world scenarios this book equips you with the proficiency needed to design implement and maintain a secure microservice architecture Whether you're a newcomer to microservices or seeking to bolster the security of your existing architecture Advanced Microservice Security Implementing OAuth2 and JWT is an indispensable resource It demystifies the complexities of microservice security and provides a clear roadmap to creating more resilient and secure distributed systems Embark on the journey to mastering microservice security and pave the way for safer more secure application development

Solving Identity Management in Modern Applications Yvonne Wilson,Abhishek Hingnikar,2022-10-25 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 increasingly onerous penalties it is paramount that application developers and owners understand identity management and the value it provides when building applications This book takes you from account provisioning to authentication to authorization and covers troubleshooting and common problems to avoid The authors include predictions about why this will be even more important in the future Application best practices with coding samples are provided Solving Identity and Access Management in Modern Applications gives you what you need to design identity and access 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 termination and more This revised and expanded edition includes additional content providing an overview of the new version of OAuth 2.1 what led to it and primary changes in this version including features removed from 2.1 that were in 2.0 and why they were removed as well as coverage of newer specification documents RFC 8639 Device flow useful for IoT devices RFC 8705 mutual Transport Layer Security RFC 8707 the protocol resource parameter its purpose and use and more What You'll Learn Understand key identity management concepts Incorporate essential design principles Design authentication and access control for a modern application Know the identity management frameworks and protocols used today OIDC OAuth 2.0 2.1 SAML 2.0 Review historical failures and know how to avoid them Who This Book Is For Developers enterprise or application architects business application or product owners and anyone involved in an application's identity management solution

OAuth 2.0 Cookbook Adolfo Eloy Nascimento, 2017-10-18 Efficiently 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 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 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 understanding of developing web applications are necessary As this book's recipes mostly use Spring Security and Spring Security OAuth2 some prior experience with Spring Framework will be 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 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 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 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 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 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 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 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 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.

Practical Guide to API Security Lammie Verden, 2025-04-13

Ensure the security of your applications with *Practical Guide to API Security: Protect Your Web and Mobile Applications*. In this essential guide, you'll learn the best practices for securing APIs, implementing robust authentication methods, and protecting sensitive data in web and mobile applications. With the rise of connected services and cloud-based applications, securing APIs is now a critical component of modern software development. Whether you're a web developer, mobile app developer, or security professional, this book provides practical, real-world insights to help you safeguard your APIs against threats. APIs are the backbone of modern web and mobile applications, and securing them is crucial to prevent unauthorized access, data breaches, and other cyber threats. This book covers the essential principles and techniques for protecting your APIs and the sensitive data they handle, helping you create secure and resilient applications.

Inside, you'll learn:

- The fundamentals of API security, including the risks and vulnerabilities associated with open APIs.
- How to use authentication methods such as OAuth, API keys, JWT, JSON Web Tokens, and OpenID Connect to secure access.
- Best practices for enforcing authorization rules and access controls to ensure only authorized users can interact with your APIs.
- How to protect sensitive data in transit and at rest using encryption techniques such as TLS, SSL, and data masking.
- Techniques for mitigating common API vulnerabilities, including injection attacks, cross-site scripting (XSS), and cross-site request forgery (CSRF).
- How to implement rate limiting, IP whitelisting, and other security mechanisms to prevent abuse and overload.
- The importance of logging and monitoring API usage to detect and respond to suspicious activity.
- How to use API gateways and other security infrastructure for centralized management and enhanced protection.
- Real-world case studies of API security breaches and lessons learned from high-profile incidents.

By the end of this book, you'll be equipped with the knowledge to implement robust API security measures and safeguard your applications from the most common vulnerabilities. *Practical Guide to API Security* will help you create secure APIs that protect your users' data and improve the trustworthiness of your web and mobile applications.

Key Features

- Learn best practices for securing APIs in web and mobile applications.
- Understand authentication and authorization techniques such as OAuth, JWT, and API keys.
- Step-by-step guidance for implementing encryption, rate limiting, and access controls.
- Real-world case studies and lessons learned from security incidents.
- Practical tips for building secure APIs that protect sensitive data.

Start securing your APIs today with *Practical Guide to API Security* and ensure that your web and mobile applications remain

protected in a world of evolving cyber threats *OAuth 2.0* Joseph Moore,2016-02-29 OAuth 2.0 Introduction to API Security with OAuth 2.0 This book is an exploration of OAuth 2.0 standard You will learn what the standard is where it used and how it can be used The roles of OAuth 2.0 standard are discussed in this book in detail The various types of clients in OAuth 2.0 are also discussed You will get to know these and how they operate The client profiles are discussed in this section The process of Authorization in OAuth 2.0 is also been discussed in detail along with Endpoints in OAuth 2.0 so you will know how to work with these in your applications The process by which Requests and Responses work in OAuth 2.0 are explored in detail You will learn how these are sent and received and the actions which are taken under different circumstances The Endpoints for these are explored along with grant requests and responses for the grant owner After reading this book you will know how to use DoorKeeper for the purpose of protecting the Grape API Here is a preview of what you ll learn

Definition Roles of OAuth 2.0 Types of Clients in OAuth 2.0 Authorization in OAuth 2.0 Oath 2.0 Endpoints Requests and Responses in OAuth 2.0 Grant Request Response for Resource Owner Password Credentials Using Doorkeeper to protect Grape API Download your copy of OAuth 2.0 by scrolling up and clicking Buy Now With 1 Click button *OAuth2 Authentication and Authorization in Practice* Richard Johnson,2025-06-19 OAuth2 Authentication and Authorization in Practice In OAuth2 Authentication and Authorization in Practice readers are guided through a comprehensive and practical journey into the design implementation and security of OAuth2 in modern digital landscapes The book opens with an accessible yet thorough exploration of OAuth2 fundamentals detailing critical components protocol flows evolving standards and the protocol s relationship with complementary technologies such as OpenID Connect Through comparative analysis with legacy authentication mechanisms and a clear eyed view of the protocol s threat landscape the introductory chapters set a solid conceptual foundation for readers of all experience levels Delving deeper subsequent chapters provide nuanced coverage of OAuth2 grant types token management and the complexities of securing distributed architectures From best practice implementations of authorization code grants and Proof Key for Code Exchange PKCE to safeguarding tokens in API driven microservices and IoT contexts the book navigates technical pitfalls and mitigations with clarity It addresses advanced topics such as threat modeling defense in depth strategies and the unique security requirements of modern architectures including single page applications serverless platforms and cloud native deployments ensuring practitioners are well equipped to design resilient systems Rounding off its practical approach the book covers operational excellence automated testing monitoring incident response and credential management as well as emerging trends like OAuth2.1 DPoP GNAP and privacy enhancing standards Guidance on cloud and hybrid deployments federated identity regulatory compliance and zero trust architectures further positions this volume as an indispensable reference for engineers architects and security specialists intent on mastering OAuth2 for both present and future challenges *Defending APIs* Colin Domoney,2024-02-09 Get up to speed with API security using this comprehensive guide full of best practices for building safer and secure APIs Key

Features Develop a profound understanding of the inner workings of APIs with a sharp focus on security Learn the tools and techniques employed by API security testers and hackers establishing your own hacking laboratory Master the art of building robust APIs with shift left and shield right approaches spanning the API lifecycle Purchase of the print or Kindle book includes a free PDF eBook Book Description Along with the exponential growth of API adoption comes a rise in security concerns about their implementation and inherent vulnerabilities For those seeking comprehensive insights into building deploying and managing APIs as the first line of cyber defense this book offers invaluable guidance Written by a seasoned DevSecOps expert Defending APIs addresses the imperative task of API security with innovative approaches and techniques designed to combat API specific safety challenges The initial chapters are dedicated to API building blocks hacking APIs by exploiting vulnerabilities and case studies of recent breaches while the subsequent sections of the book focus on building the skills necessary for securing APIs in real world scenarios Guided by clear step by step instructions you ll explore offensive techniques for testing vulnerabilities attacking and exploiting APIs Transitioning to defensive techniques the book equips you with effective methods to guard against common attacks There are plenty of case studies peppered throughout the book to help you apply the techniques you re learning in practice complemented by in depth insights and a wealth of best practices for building better APIs from the ground up By the end of this book you ll have the expertise to develop secure APIs and test them against various cyber threats targeting APIs What you will learn Explore the core elements of APIs and their collaborative role in API development Understand the OWASP API Security Top 10 dissecting the root causes of API vulnerabilities Obtain insights into high profile API security breaches with practical examples and in depth analysis Use API attacking techniques adversaries use to attack APIs to enhance your defensive strategies Employ shield right security approaches such as API gateways and firewalls Defend against common API vulnerabilities across several frameworks and languages such as NET Python and Java Who this book is for This book is for application security engineers blue teamers and security professionals looking forward to building an application security program targeting API security For red teamers and pentesters it provides insights into exploiting API vulnerabilities API developers will benefit understanding anticipating and defending against potential threats and attacks on their APIs While basic knowledge of software and security is required to understand the attack vectors and defensive techniques explained in the book a thorough understanding of API security is all you need to get started

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