OAuth 2.0 Identity and Access Management Patterns

A practical hands-on guide to implementing secure API authorization flow scenarios with OAuth 2.0

Martin Spasovski

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Ng, Alex Chi Keung

Oauth 2 0 Identity And Access Management Patterns Spasovski Martin:

Oauth 2.0 Identity and Access Management Patterns Martin Spasovski,2013-11 This is a practical and fast paced guide that gives you all the information you need to start implementing secure OAuth 2 0 implementations in your web applications OAuth 2 0 Identity and Access Management Patterns is intended for software developers software architects and enthusiasts working with the OAuth 2 0 framework In order to learn and understand the OAuth 2 0 grant flow it is assumed that you have some basic knowledge of HTTP communication For the practical examples basic knowledge of HTML templating programming languages and executing commands in the command line terminal is assumed   *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 it s 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   *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   Solving Identity Management in Modern Applications Yvonne Wilson,Abhishek Hingnikar,2022 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

Keycloak - Identity and Access Management for Modern Applications Stian Thorgersen,Pedro Igor Silva,2021-06-11 Learn to leverage the advanced capabilities of Keycloak an open source identity and access management solution to enable authentication and authorization in applications Key Features Get up to speed with Keycloak OAuth 2 0 and OpenID Connect using practical examples Configure manage and extend Keycloak for optimized security Leverage Keycloak features to secure different application types Book DescriptionImplementing authentication and authorization for applications can be a daunting experience often leaving them exposed to security vulnerabilities Keycloak is an open source solution for identity management and access management for modern applications which can make a world of difference if you learn how to use it Keycloak helping you get started with using it and securing your applications Complete with hands on tutorials best practices and self assessment questions this easy to follow guide will show you how to secure a sample application and then move on to securing different application types As you progress you will understand how to configure and manage Keycloak as well as how to leverage some of its more advanced capabilities Finally you ll gain insights into securely using Keycloak in production By the end of this book you will have learned how to install and manage Keycloak as well as how to secure new and existing applications What you will learn Understand how to install configure and manage Keycloak Secure your new and existing applications with Keycloak Gain a basic understanding of OAuth 2 0 and OpenID Connect Understand how to configure Keycloak to make it ready for production use Discover how to leverage additional features and how to customize Keycloak to fit your needs Get to grips with securing Keycloak servers and protecting applications Who this book is for Developers sysadmins security engineers or anyone who wants to leverage Keycloak and its capabilities for application security will find this book useful Beginner level knowledge of app development and authentication and authorization is expected   Modern Identity Management with Keycloak X. Y. WANG,2025-07-21 In an era of rapidly evolving digital landscapes Modern Identity Management with Keycloak SSO OAuth2 and OpenID Connect delivers a comprehensive and authoritative guide to mastering secure identity and access management IAM in cloud and

enterprise environments Beginning with a thorough exploration of IAM s historical evolution and foundational principles the book demystifies the complexity behind authentication authorization models and industry standard protocols such as OAuth2 OpenID Connect and SAML Readers will gain practical insight into token management policy governance and the integration of modern compliance requirements equipping them with the knowledge necessary to build resilient and scalable security architectures Structured to take readers from conceptual understanding to hands on expertise the book delves deeply into the architecture and inner workings of Keycloak an industry leading open source IAM solution It covers real world deployment patterns across on premises cloud and containerized environments guiding professionals through secure configuration high availability and automation with cutting edge tools like Ansible Terraform and Kubernetes Expert advice on monitoring alerting secrets management and capacity planning ensures that both new and seasoned administrators are prepared to manage Keycloak at scale With practical patterns and strategies for implementing Single Sign On SSO detailed coverage of OAuth2 and OpenID Connect and a strong emphasis on security hardening and compliance this book stands out as an essential resource for IT architects engineers and security professionals Readers will also benefit from advanced guidance on customizing extending and integrating Keycloak into diverse enterprise ecosystems along with forward looking discussions on DevOps observability and emerging identity trends Whether migrating from legacy IAM solutions or seeking to harness the full power of cloud native identity management this book offers the clarity depth and actionable expertise required for today s security driven world   Cloud Identity Patterns and Strategies Giuseppe Di Federico,Fabrizio Barcaroli,2022-12-23 Get to grips with identity patterns and design a structured enterprise identity model for cloud applications Key FeaturesLearn all you need to know about different identity patterns and implementing them in real world scenariosHandle multi IDP related common situations no matter how big your organizationGain practical insights into OAuth implementation patterns and flowsBook Description Identity is paramount for every architecture design making it crucial for enterprise and solutions architects to understand the benefits and pitfalls of implementing identity patterns However information on cloud identity patterns is generally scattered across different sources and rarely approached from an architect s perspective and this is what Cloud Identity Patterns and Strategies aims to solve empowering solutions architects to take an active part in implementing identity solutions Throughout this book you ll cover various theoretical topics along with practical examples that follow the implementation of a standard de facto identity provider IdP in an enterprise such as Azure Active Directory As you progress through the chapters you ll explore the different factors that contribute to an enterprise s current status quo around identities and harness modern authentication approaches to meet specific requirements of an enterprise You ll also be able to make sense of how modern application designs are impacted by the company s choices and move on to recognize how a healthy organization tackles identity and critical tasks that the development teams pivot on By the end of this book you ll be able to breeze through creating portable robust and reliable

applications that can interact with each other What you will learnUnderstand the evolution of identity in the enterpriseDiscover basic to advanced OAuth patterns and implementationsFind out how OAuth standards are usually adopted in the enterpriseExplore proven solutions for modern identity challengesUse Azure AD for implementing identity solutionsComprehend how company structure and strategies influence design decisionsWho this book is for This book is for cloud security engineers and identity experts Enterprise architects tech leads developers and anyone who wants to learn how to use identity patterns and strategies to build identity models for the modern cloud era will find this book useful This book covers many DevOps and Agile principles although not a pre requisite familiarity with these topics would be helpful

Securing the Perimeter Michael Schwartz,Maciej Machulak,2019-01-19 Leverage existing free open source software to build an identity and access management IAM platform that can serve your organization for the long term With the emergence of open standards and open source software it s now easier than ever to build and operate your own IAM stack The most common culprit of the largest hacks has been bad personal identification In terms of bang for your buck effective access control is the best investment you can make Financially it s more valuable to prevent than to detect a security breach That s why Identity and Access Management IAM is a critical component of an organization s security infrastructure In the past IAM software has been available only from large enterprise software vendors Commercial IAM offerings are bundled as suites because IAM is not just one component It s a number of components working together including web authentication authorization cryptographic and persistence services Securing the Perimeter documents a recipe to take advantage of open standards to build an enterprise class IAM service using free open source software This recipe can be adapted to meet the needs of both small and large organizations While not a comprehensive guide for every application this book provides the key concepts and patterns to help administrators and developers leverage a central security infrastructure Cloud IAM service providers would have you believe that managing an IAM is too hard Anything unfamiliar is hard but with the right road map it can be mastered You may find SaaS identity solutions too rigid or too expensive Or perhaps you don t like the idea of a third party holding the credentials of your users the keys to your kingdom Open source IAM provides an alternative Take control of your IAM infrastructure if digital services are key to your organization s success What You ll Learn Understand why you should deploy a centralized authentication and policy management infrastructure Use the SAML or Open ID Standards for web or single sign on and OAuth for API Access Management Synchronize data from existing identity repositories such as Active Directory Deploy two factor authentication services Who This Book Is For Security architects CISO CSO system engineers administrators and software developers   **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 **Open Source Identity Management Patterns and Practices Using OpenAM 10.x** Waylon Kenning,2013 Annotation OpenAM is a web based open source application that provides authentication authorization entitlement and federation services OpenAM provides core identity services to simplify the implementation of transparent single sign on SSO as a security component in a network infrastructure It also provides the foundation for integrating diverse web applications that might typically operate against a disparate set of identity repositories and that are hosted on a variety of platforms such as web application servers Open Source Identity Management Patterns and Practices Using OpenAM 10 x is a condensed practical guide on installing OpenAM to protect your web applications This book will teach you how to integrate to different identity sources such as Active Directory or Facebook using two factor authentications Open Source Identity Management Patterns and Practices Using OpenAM 10 x looks at Identity Management and how to implement it using OpenAM 10 x It specifically focuses on providing authentication to your web application using either a local identity source or a cloud based identity source so you dont have to worry about authentication in your application You will learn how to install OpenAM and then how to install policy agents against your web and application servers to do authentication In addition well focus on integrating to applications directly using SAML either through the use of a small preconfigured application or through a third party SAML library Finally well focus on integrating to cloud identity providers using OAuth 2 0 and utilizing two factor authentication If you want a scalable robust identity management infrastructure Open Source Identity Management Principles and Patterns Using OpenAM 10 x will get you up and running in the least amount of time possible **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 **Contemporary Identity and Access Management Architectures: Emerging Research and Opportunities** Ng, Alex Chi Keung,2018-01-26 Due to the proliferation of distributed mobile technologies and heavy usage of social media identity and access management has become a very challenging area Businesses are facing new demands in implementing solutions however there is a lack of information and direction Contemporary Identity and Access Management Architectures Emerging Research and Opportunities is a critical scholarly resource that explores management of an organization s identities credentials and attributes which assures the identity of a user in an extensible manner set for identity and access administration Featuring coverage on a broad range of topics such as biometric application programming interfaces telecommunication security and role based access control this book is geared towards academicians practitioners and researchers seeking current research on identity and access management Oauth 2.0 Simplified Aaron Parecki,2018-06-16 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 **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 ForThis 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 redirectionIn DetailOAuth 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 approachWith 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 <u>Identity and Access Management: from Zero to Hero</u> Maria Bryght,2025-03-08 In the digital age safeguarding digital identities and managing access to information and resources is paramount for organizations of all sizes Navigating Identity The Comprehensive Guide to Identity and Access Management IAM provides an in depth exploration of the IAM landscape offering readers a blend of theoretical knowledge practical guidance and real world examples This book delves into the core components of IAM including authentication authorization user lifecycle management and policy enforcement It unpacks complex concepts such as Single Sign On SSO Multi Factor Authentication MFA Role Based Access Control RBAC and Identity Governance and Administration IGA making them accessible to professionals across various levels of expertise **A Guide to Claims-Based Identity and Access Control, Version 2** Dominick Baier,Vittorio Bertocci,Keith Brown,Scott Densmore,Eugenio Pace,Matias Woloski,2013-03-18 As an application designer or developer imagine a world where you don t have to worry about authentication Imagine instead that all requests to your application already include the information you need to make access control decisions and to personalize the application for the user In this world your applications can trust another system component to securely provide user information such as the user s name or e mail address a manager s e mail address or even a purchasing authorization limit The user s information always arrives in the same simple format regardless of the authentication mechanism whether it s Microsoft Windows integrated authentication forms based authentication in a Web browser an X 509 client certificate Windows Azure Access Control Service or something more exotic Even if someone in

charge of your company s security policy changes how users authenticate you still get the information and it s always in the same format This is the utopia of claims based identity that A Guide to Claims Based Identity and Access Control describes As you ll see claims provide an innovative approach for building applications that authenticate and authorize users This book gives you enough information to evaluate claims based identity as a possible option when you re planning a new application or making changes to an existing one It is intended for any architect developer or information technology IT professional who designs builds or operates web applications web services or SharePoint applications that require identity information about their users *Authorization and Access Control* Parikshit N. Mahalle,Shashikant S. Bhong,Gitanjali Rahul Shinde,2022 This book focuses on various authorization and access control techniques threats and attack modelling including overview of open Authorization 2 0 Oauth2 0 framework along with User managed access UMA and security analysis Important key concepts are discussed on how to provide login credentials with restricted access to third parties with primary account as a resource server Detailed protocol overview and authorization process along with security analysis of Oauth 2 0 is discussed in this book This book also includes case studies of websites for vulnerability issues Features provides overview of security challenges of IoT and mitigation techniques with a focus on authorization and access control mechanisms discusses behavioral analysis of threats and attacks using UML base modelling covers use of Oauth2 0 Protocol and UMA for connecting web applications includes Role Based Access Control RBAC Discretionary Access Control DAC Mandatory Access Control MAC and Permission Based Access Control PBAC and explores how to provide access to third party web applications through resource server by use of secured and reliable Oauth2 0 framework This book aims at researchers and professionals in IT Security Auditing and Computer Engineering   Identity and Access Management Ertem Osmanoglu,2013-11-19 Identity and Access Management Business Performance Through Connected Intelligence provides you with a practical in depth walkthrough of how to plan assess design and deploy IAM solutions This book breaks down IAM into manageable components to ease systemwide implementation The hands on end to end approach includes a proven step by step method for deploying IAM that has been used successfully in over 200 deployments The book also provides reusable templates and source code examples in Java XML and SPML Focuses on real word implementations Provides end to end coverage of IAM from business drivers requirements design and development to implementation Presents a proven step by step method for deploying IAM that has been successfully used in over 200 cases Includes companion website with source code examples in Java XML and SPML as well as reusable templates   A Guide to Claims-based Identity and Access Control Dominick Baier,Vittorio Bertocci,Keith Brown,Matias Woloski,Eugenio Pace,2010 As systems have become interconnected and more complicated programmers needed ways to identify parties across multiple computers One way to do this was for the parties that used applications on one computer to authenticate to the applications and or operating systems that ran on the other computers This mechanism is still widely used for example when logging on to a great number of Web sites However this

approach becomes unmanageable when you have many co operating systems as is the case for example in the enterprise Therefore specialized services were invented that would register and authenticate users and subsequently provide claims about them to interested applications Some well known examples are NTLM Kerberos Public Key Infrastructure PKI and the Security Assertion Markup Language SAML Most enterprise applications need some basic user security features At a minimum they need to authenticate their users and many also need to authorize access to certain features so that only privileged users can get to them Some apps must go further and audit what the user does On Windows these features are built into the operating system and are usually quite easy to integrate into an application By taking advantage of Windows integrated authentication you don t have to invent your own authentication protocol or manage a user database By using access control lists ACLs impersonation and features such as groups you can implement authorization with very little code Indeed this advice applies no matter which OS you are using It s almost always a better idea to integrate closely with the security features in your OS rather than reinventing those features yourself But what happens when you want to extend reach to users who don t happen to have Windows accounts What about users who aren t running Windows at all More and more applications need this type of reach which seems to fly in the face of traditional advice This book gives you enough information to evaluate claims based identity as a possible option when you re planning a new application or making changes to an existing one It is intended for any architect developer or information technology IT professional who designs builds or operates Web applications and services that require identity information about their users

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