



OAuth 2.0 Identity and Access Management Patterns

Martin Spasovski

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In Detail

OAuth 2.0 has become the most widely used authorization framework. It provides an easy-to-use sign-in mechanism and allows users to quickly and efficiently secure service APIs. It also provides a protection layer for assets so that various third-party applications cannot have direct access to them. From service providers like Amazon and social media platforms like Facebook and Twitter to various internal enterprise solutions, OAuth 2.0 is the preferred standard for authorization.OAuth 2.0 Identity and Access Management Patterns is a step-by-step guide to build web, client-side, desktop, and server-side secure OAuth 2.0 client applications by utilizing the appropriate authorization techniques.. This book will help you handle and implement various authorization flows for your chosen type of application. Furthermore, you will understand when and how OAuth 2.0 is used in enterprises for trusted and first-party applications. You will gain knowledge about the Resource Owner Password Credentials grant and the Client Credentials grant, and more importantly, you will understand how to implement them yourself with the help of practical code examples. You will start by making various client applications step-by-step before moving on to client registration and implementing various OAuth 2.0 authorization flows. Furthermore, you will also be handling server responses with access tokens and errors. By the end of this book, you should understand precisely what it takes for these client applications to be secured. This book helps you cover each type of application: web, client-side, desktop, and trusted applications. In addition, you are also shown how to implement various authorization grant flows for each of these applications. You will uncover the security features that are a part of OAuth 2.0. More importantly, the book demonstrates what information is transmitted during the execution of a flow, and which precautions can be made. With OAuth 2.0 Identity and Access Management Patterns, you will be able to build a secure OAuth 2.0 client application with full confidence and will completely understand what data is exchanged when performing an authorization grant flow.

Approach

This is a practical and fast-paced guide that gives you all the information you need to start implementing secure OAuth 2.0 grant flows for your application (be it web, client-side, desktop, or server-side type of application.

Who this book is for

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.

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