

OAuth 2.0 and OpenID Connect and SSO, Oh My!

Security Simplified with IdentityServer4

<http://aaronralls.com>

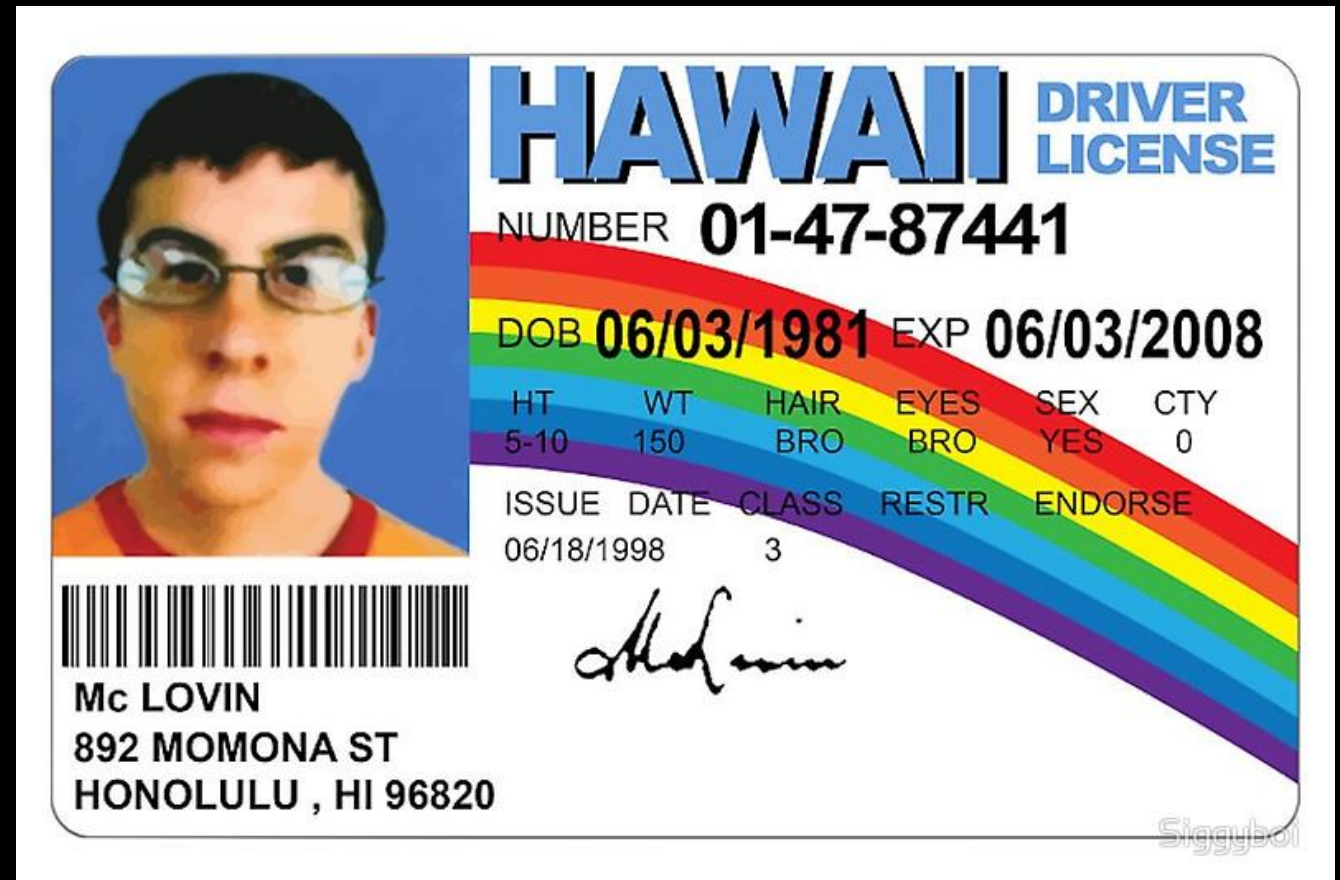
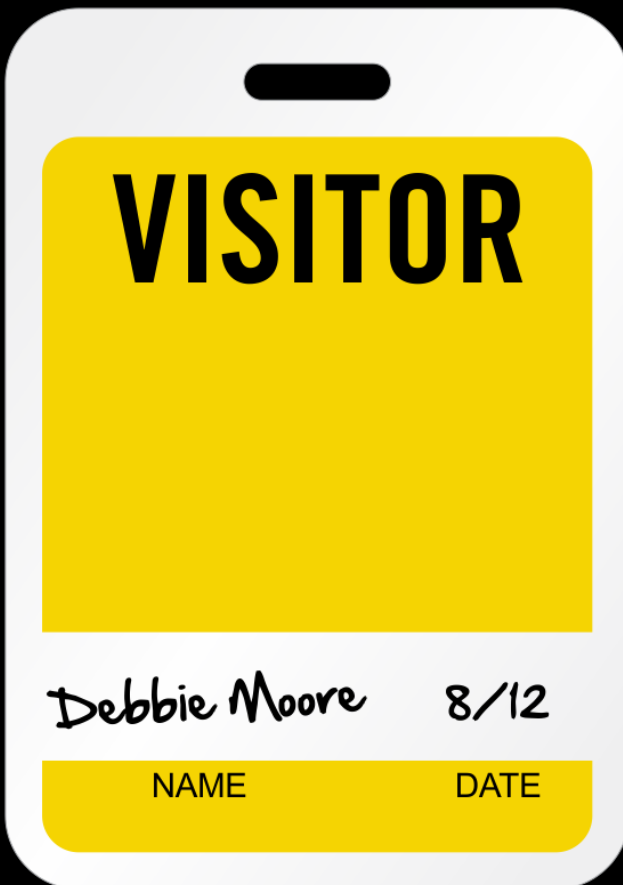
Where to get this presentation and the resources?

- [IdentityServer4 Demos 1 & 2](#)
- [IdentityServer4 Demo 3](#)
- [OIDC JavaScript client](#)
- [OpenID Connect Implementations](#)
- [iOS OAuth 2.0 & OpenID Connect example](#)
- [Xamarin example](#)
- [OAuth 2.0 --rfc6749](#)
- [OpenID Connect](#)

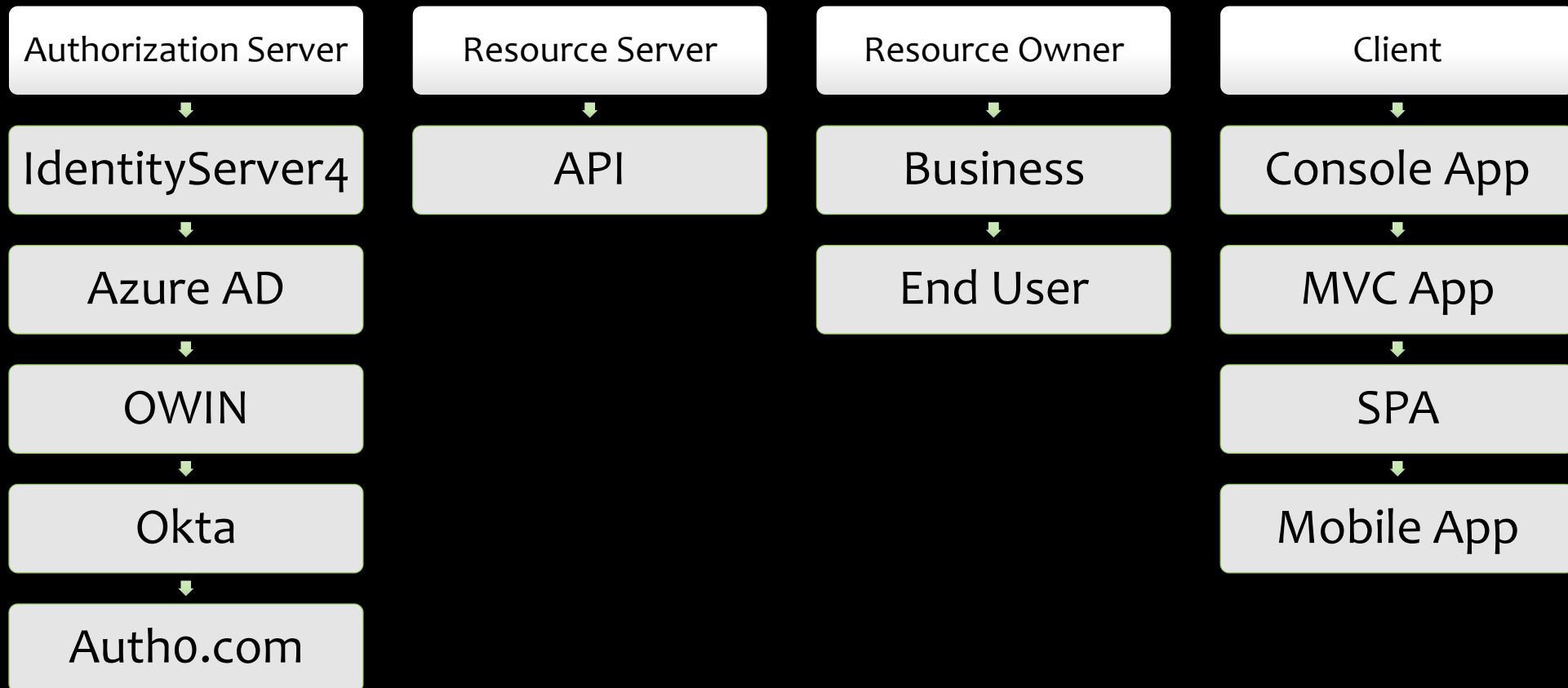
What will you learn today?

- The principals of OAuth 2.0 and OpenID Connect protocols.
- How IdentityServer4 can be used to implement the OAuth 2.0 and OpenID Connect protocols to secure your API's, Web and Mobile applications.
- How IdentityServer4 can be used to implement a SSO

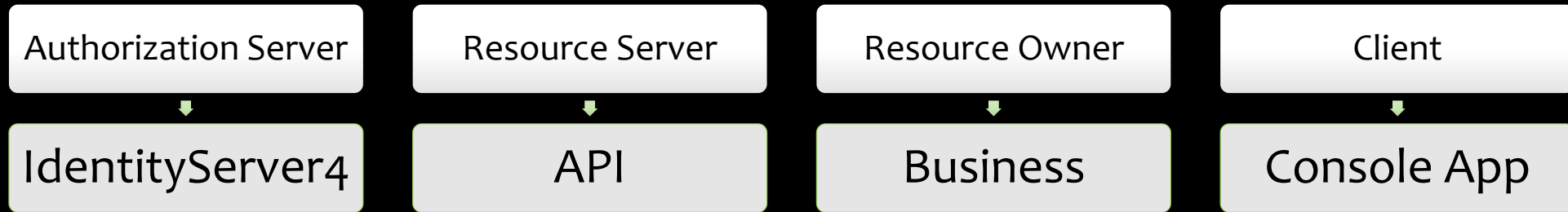
Authorization vs. Authentication



OAuth 2.0 (Authorization)



OAuth 2.0 (Authorization)



OAuth 2.0

Front Channel (Browser)

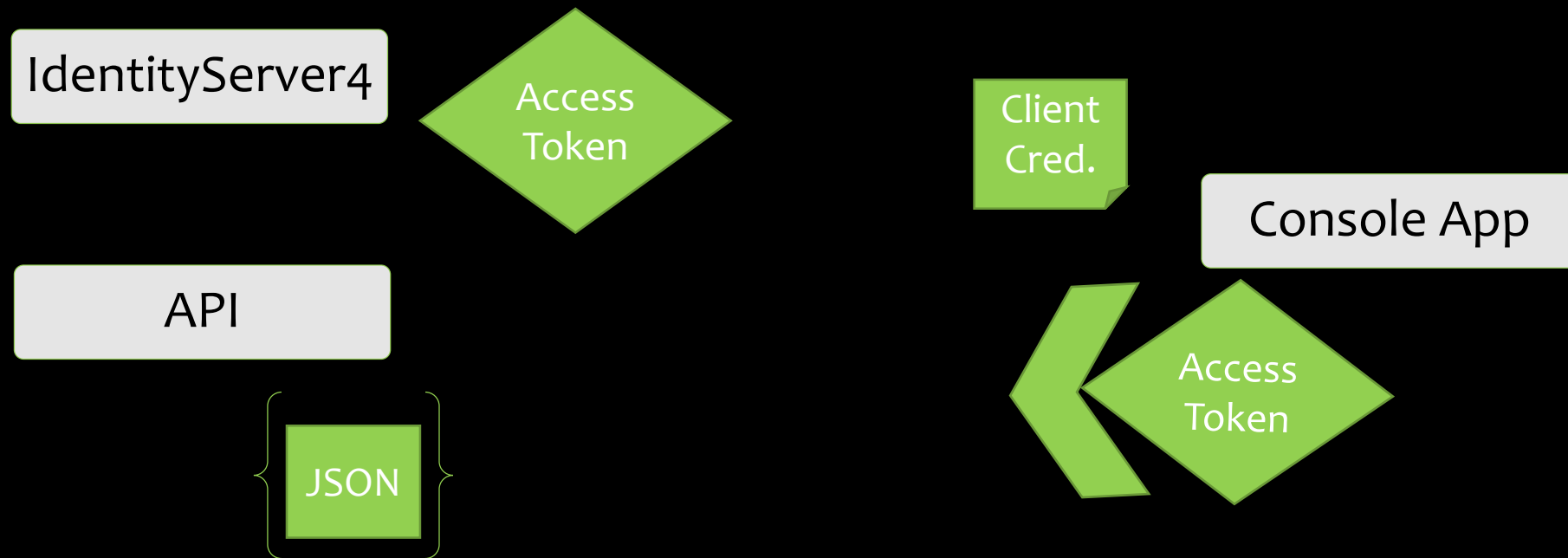
Back Channel

OAuth 2.0 Access Tokens

Reference

Self contained - JWT

OAuth 2.0 Authorization Grant Type: Client Credentials



DEMO 1

Client Credentials
Console App/Windows Service
accessing a secured API

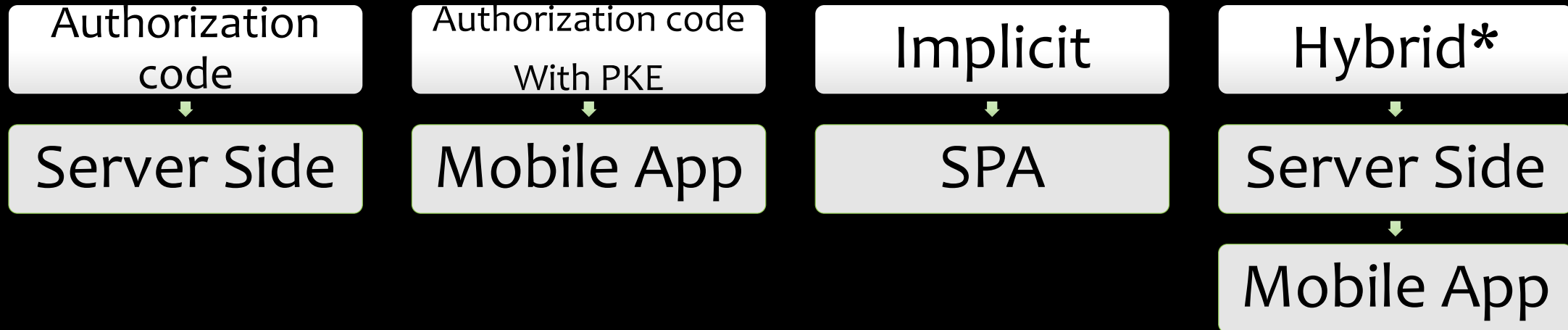
OAuth 2.0 Authorization Grant Types cont..

Authorization Code (PKCE)

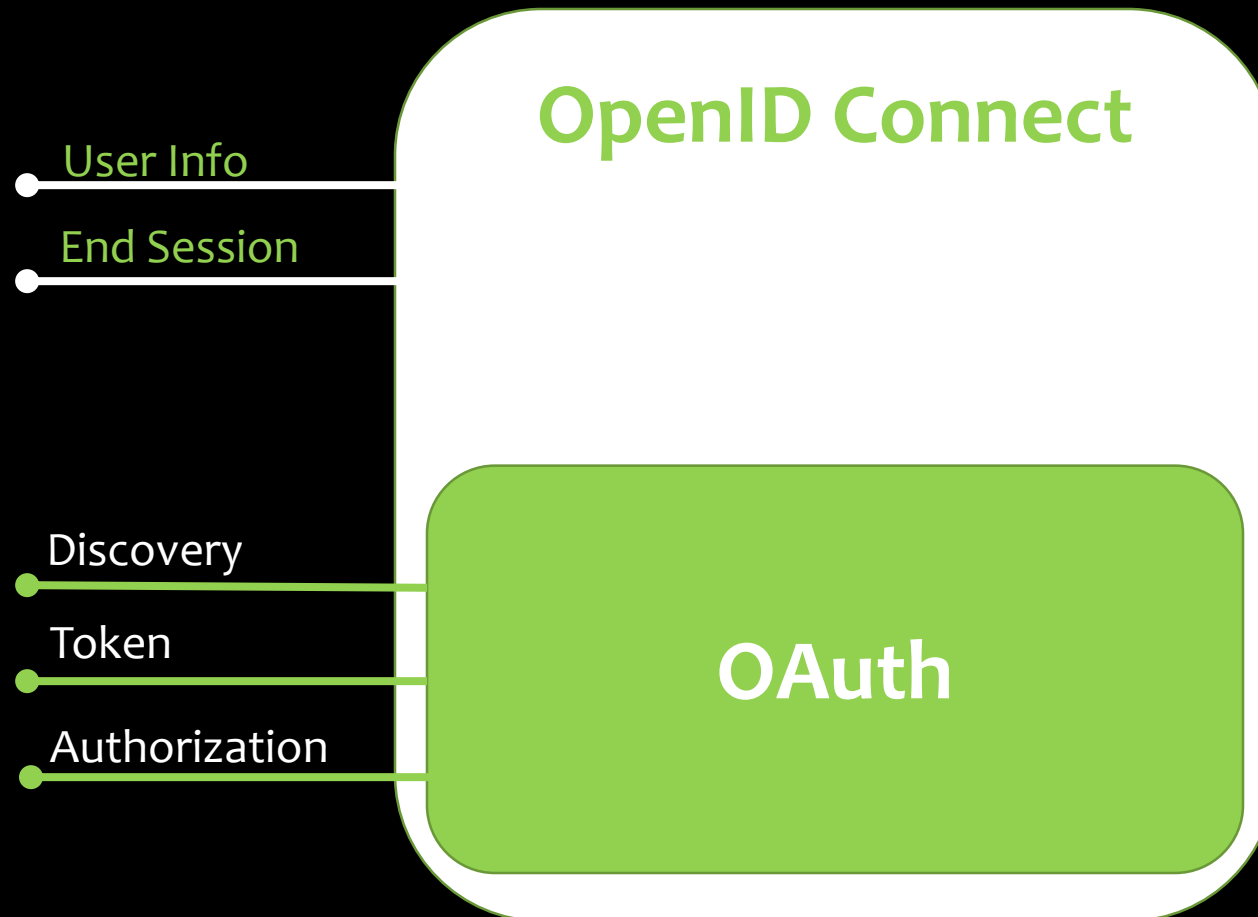
Implicit

Resource Owner Password Credentials

OpenID Connect: Authentication Flows



Authentication & Authorization



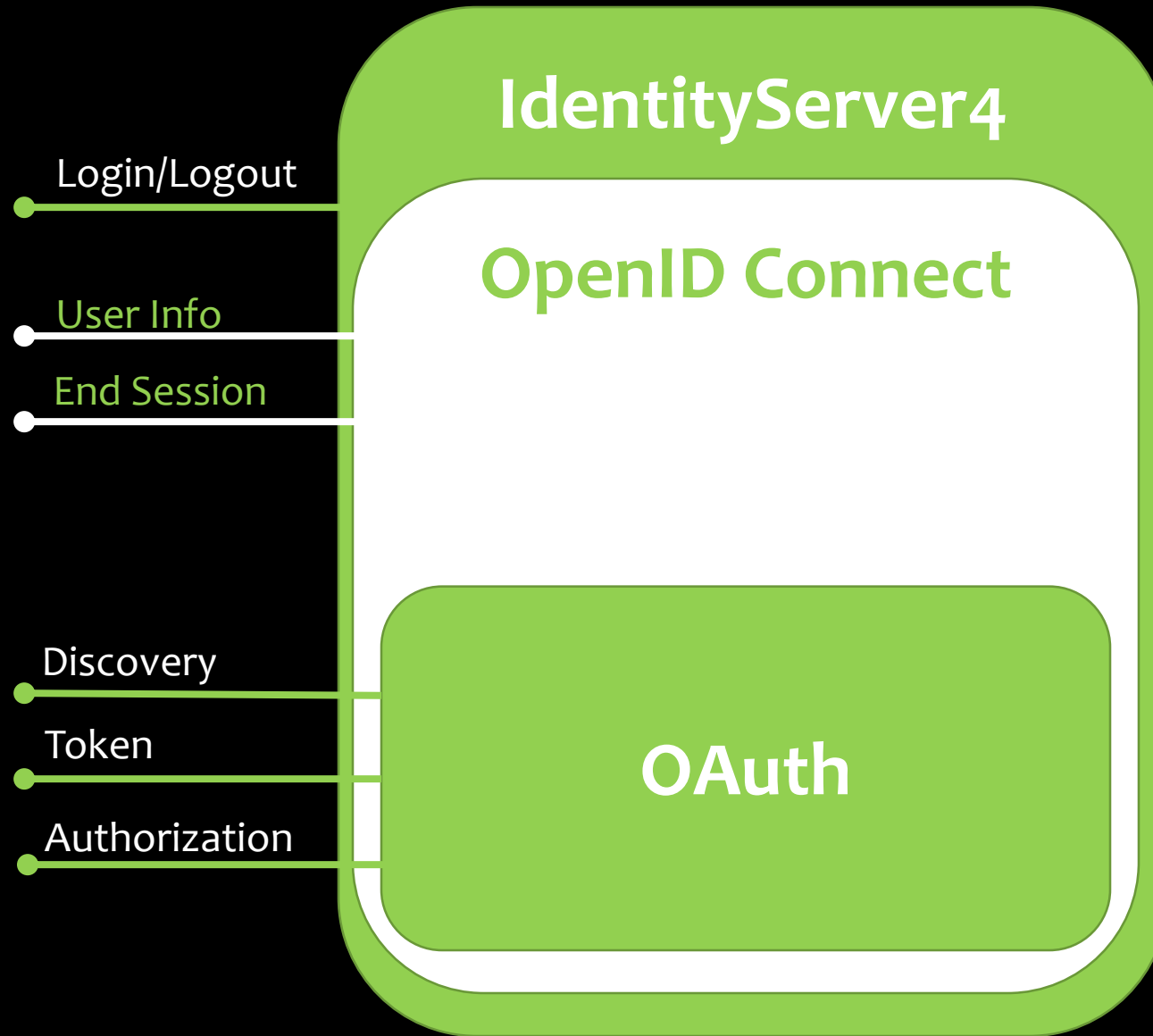
DEMO 2

MVC Web Application Authentication &
Authorization

DEMO 3

SPA Web Application Authentication &
Authorization

Authentication



OAuth 2.0 Spec Links

OAuth 2.0 Core

- [OAuth 2.0 Framework](#)—RFC 6749
- [Bearer Token Usage](#)—RFC 6750
- [Threat Model and Security Considerations](#)—RFC 6819

OAuth 2.0 Extensions

- [JSON Web Token](#)—RFC 7519
- [OAuth Assertions Framework](#)—RFC 7521
- [SAML2 Bearer Assertion](#)—RFC 7522, for integrating with existing identity systems
- [JWT Bearer Assertion](#)—RFC 7523, for integrating with existing identity

OpenID Connect Spec Links

OpenID Connect

- [Core 1.0](#)
- [Discovery](#)

Helpful links

- [OAuth 2.0 Protocol Detailed Walkthrough](#)
- [OpenID Connect Flows](#)
- [OKTA - SaaS](#)
- [Explicit Logout from IdentityServer4](#)
- [Using existing DB with IdentityServer4](#)
- [Why not use OAuth 2.0 Resource Owner Password Grant Type](#)

Q & A

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