

Authorizing Calls to Your Backend APIs with OAuth 2



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Module Overview



OAuth 2 Protocol Overview

Authorizing Calls with OAuth 2 Access Tokens in the Client

Adding Filtering and Access Control in ASP.NET Core



OAuth 2 Terminology / Roles



Resource Owner



Resource Server

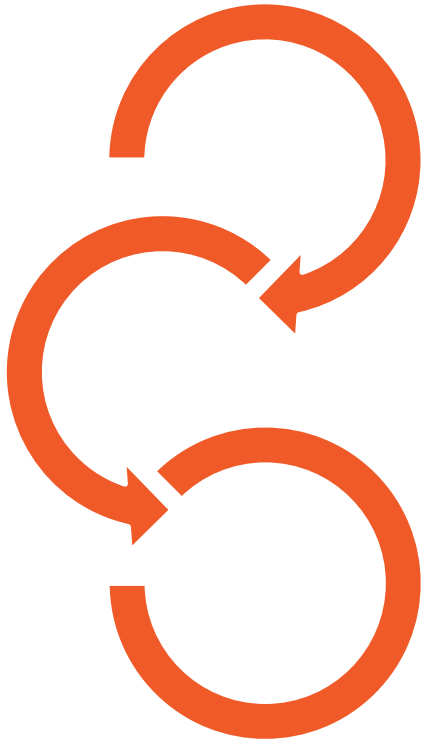


Client



Authorization
Server

OAuth 2 Grant Types



Implicit

Authorization Code

Resource Owner Password Credential

Client Credential

OAuth 2 Token Types



Access Token



Refresh Token

Access Token Contents



Client ID (client_id)

Subject ID (nameidentifier)

Issuer (iss)

Issue timestamp (nbf)

Expiration timestamp (exp)

Scope claims (scope)

Additional claims

Resource Server Responsibilities

Decode Token

Validate Token

Authorize Calls

**Expose Security Context API
for Client**



Refresh Tokens



Not applicable to Implicit flow clients

Requires secure storage of refresh token

Silent renewal of access token with Implicit clients

Demos



Starting point: Authentication complete

Pass access tokens to API

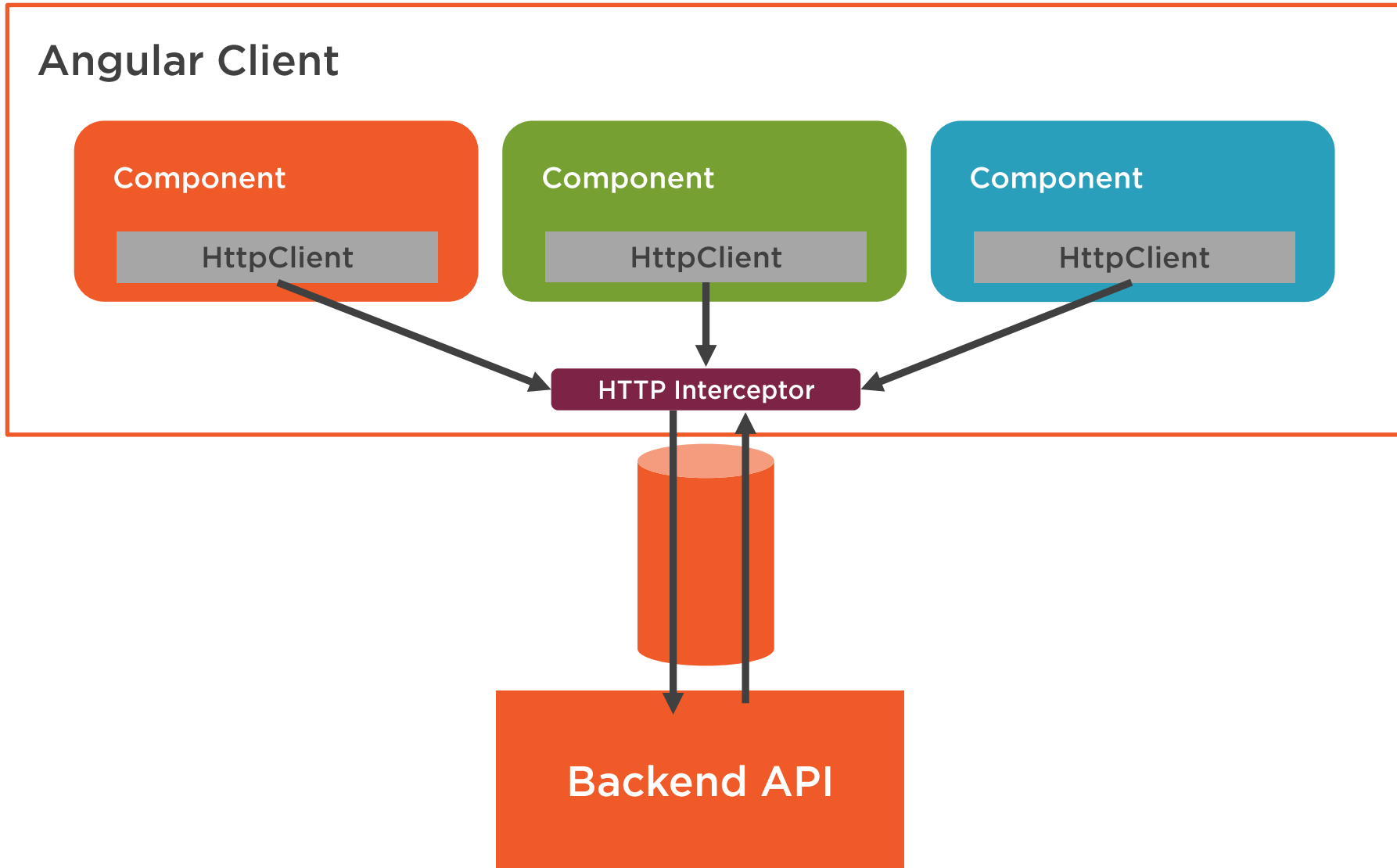
Require authentication/authorization in APIs

Filter data on back end

Control access to operations



HTTP Interception



Summary



Pass OAuth 2 access tokens to API

HTTP interceptor

- Add tokens to Authorization header
- Handle authorization error responses

API enforcement of access control

Add custom identity claims