

Adding Authentication and Authorization



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Module overview



Securing the Blazor application

Adding an identity provider

Authenticating in the application

Securing the API calls

Configuring authorization

Securing the Blazor Application



Securing the Blazor Application

Users will need to authenticate

Authentication: who you are

Authorization: what you can do

API will need to verify that call is allowed

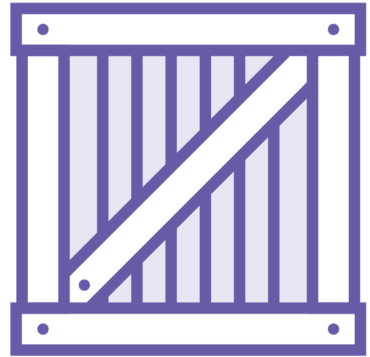


Security Alert!

Since it's all client-side, users can bypass any checks we build in!

We'll need to validate on the server!

Building Blocks for Authentication



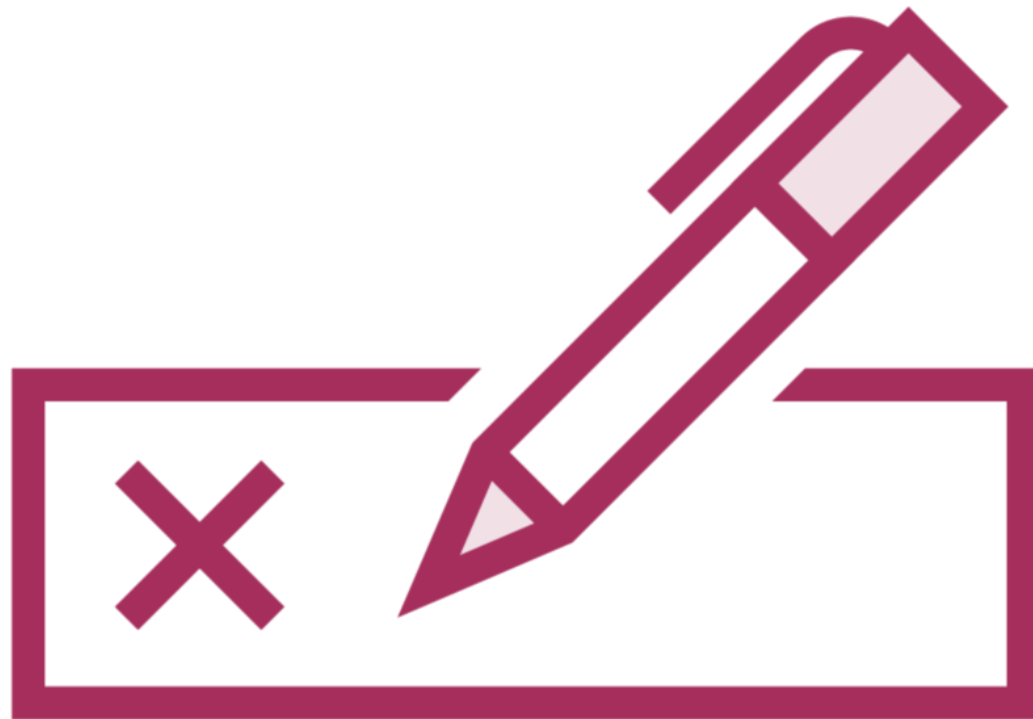
Nuget package:
Microsoft.AspNetCore.Components.WebAssembly.Authentication



AuthenticationStateProvider service



CascadingAuthenticationState



Authentication via OIDC

- Supported via `Microsoft.AspNetCore.Components.WebAssembly.Authentication` package
- Defaults to Duende Identity Server
- Support for other OpenID Providers

Building Blocks for Authorization

AuthorizeView

[Authorize]

**Can be combined
with roles**



There's more to learn!

We will be covering a practical approach to securing our application,

Adding an Identity Provider



Introducing an Identity Provider

Creating your own security system is not a good idea!

Identity Providers take away the need

Offer authentication and API access checks



Common Identity Providers

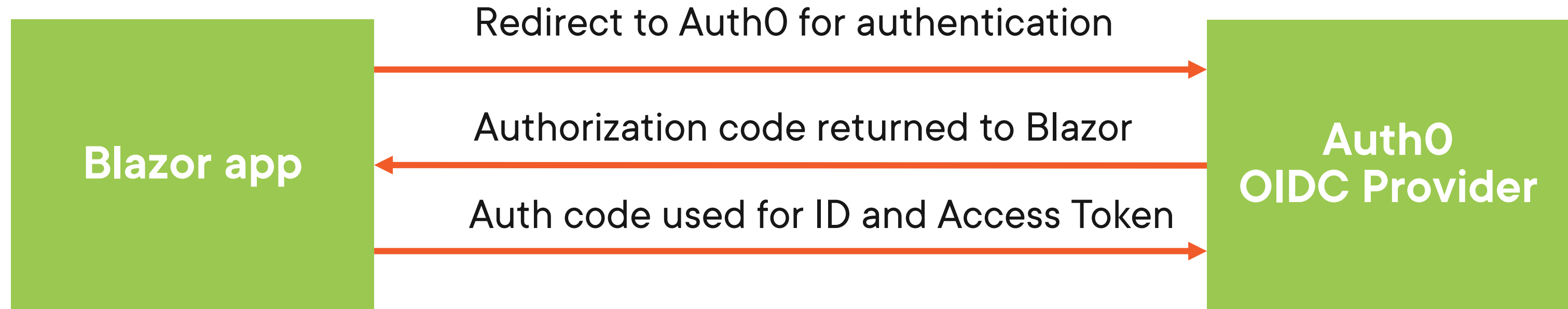
- IdentityServer (Duende)
- Okta
- Auth0
- Azure Active Directory



Using Auth0

- Will handle login and registration
- Users are forwarded to Auth0
- Returns to app once complete
- For Blazor, we use the PKCE flow
- Free up to 7000 users

Using Auth0



Demo



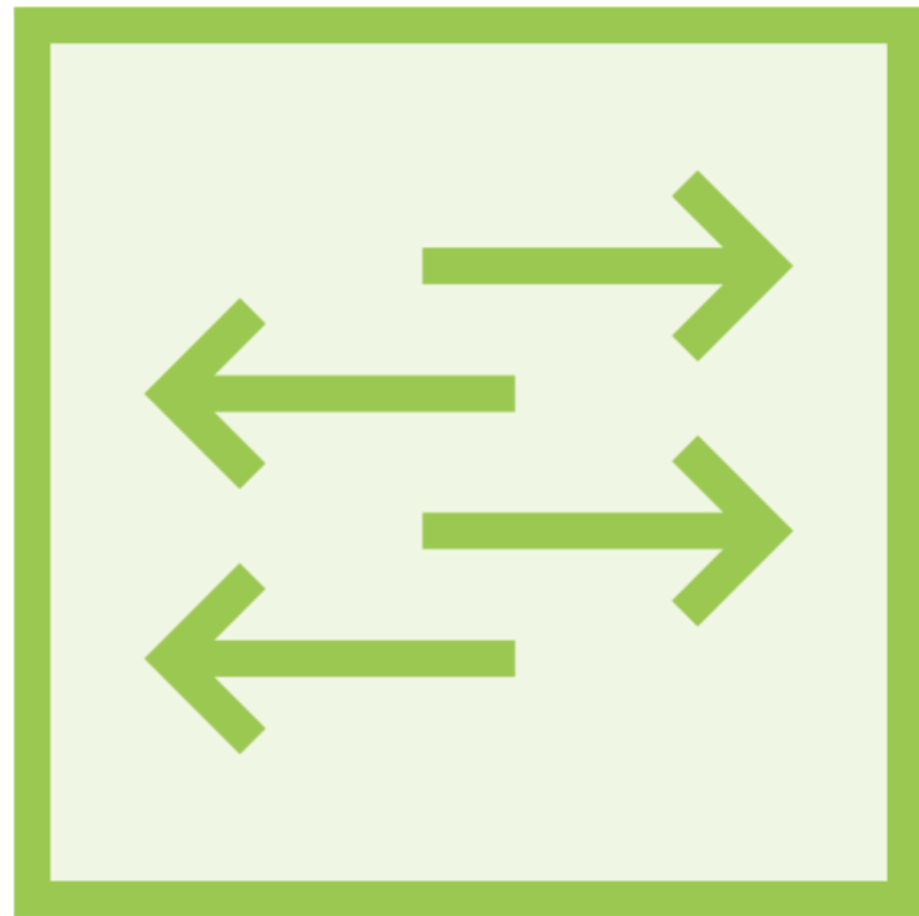
Creating the Auth0 account

Registering our application with Auth0

Authenticating in the Application

Adding Authentication Support with Auth0

- 1ST | **Add appsettings.json with Auth0 values**
- 2ND | **NuGet package & script reference**
- 3RD | **Configuration changes (AddOidcAuthentication())**
- 4TH | **CascadingAuthenticationState and AuthorizeRouteView (App.razor)**
- 5TH | **Components: Authentication.razor and AuthenticationStatus.razor**



Default behaviors

- Redirect to `/authentication/login`
 - `[Authorize]` attribute
- `/authentication/login-callback`
- Authentication response processing

Demo



Adding authentication with Auth0

Configuring Authorization

Adding Authorization

[Authorize]

AuthorizeView component

Demo



Using the `[Authorize]` attribute

Adding the `AuthorizeView` component

Securing the API Calls

Demo



Registering the API with Auth0

Securing the API endpoints

Making authenticated API calls

Summary

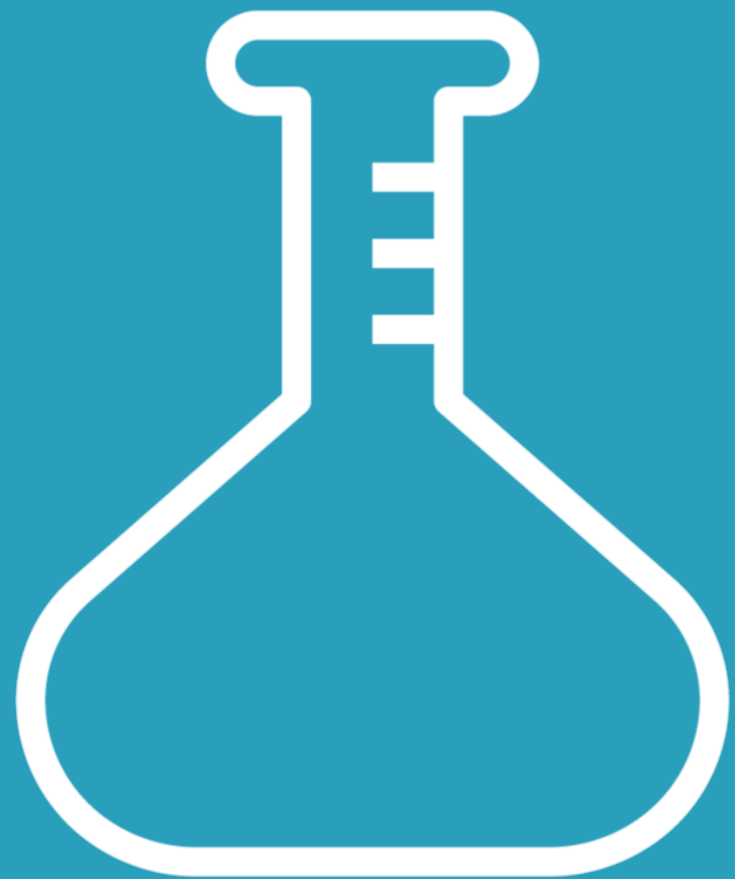


Blazor favors use of OIDC

Authentication library helps greatly

Auth0 is a common provider for use with Blazor

API needs to be secured too



Up next:
Testing components