

Building the Back-end API



Ajden Towfeek

@ajtowf | www.towfeek.se

Install NuGet Packages



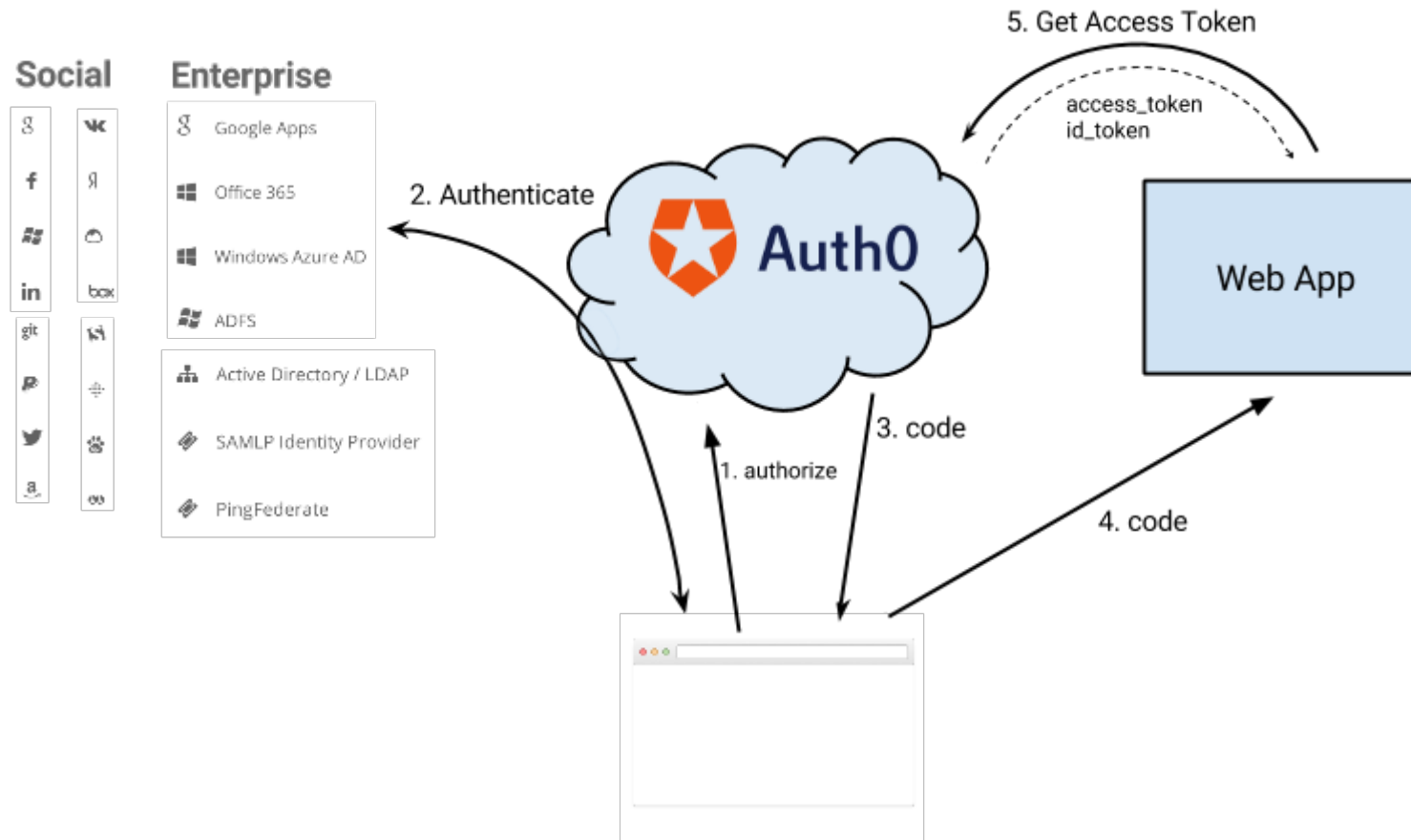
- `Microsoft.AspNet.WebApi`
- `Microsoft.AspNet.WebApi.Owin`
- `Microsoft.Owin.Host.SystemWeb`
- `Microsoft.Owin.Security.Jwt`
- `Microsoft.Owin.Cors`
- `System.IdentityModel.Tokens.Jwt`

Demo

- Created an Application in Auth0
- Create the Web API
- Configure JWT using Auth0



OpenID Connect Flow



OAuth Resource Owner Password Credentials

```
1 POST /oauth/ro HTTP/1.1
2 Host: YOUR_NAMESPACE
3 Content-Type: application/x-www-form-urlencoded
4
5 grant_type=password&username=johndoe&password=abcdef&client_id=YOUR_CLIENT_ID&connection=YOUR_CONNECTION
```

```
1 HTTP/1.1 200 OK
2 Server: GFE/1.3
3 Content-Type: application/json
4
5 {
6   "access_token": "3WAvWLgMCHkUvoM6",
7   "id_token": "eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJodHRwczovL2xvZ2luLmF1dGgwLmNvbTozMDAwLyIsInN1YiI6Imdvb2dsZS1vYX",
8   "token_type": "bearer"
9 }
```

OAuth Resource Owner Password Credentials

```
1 HTTP/1.1 401 Unauthorized
2 Server: GFE/1.3
3 Content-Type: application/json
4
5 {
6   "error": "Unauthorized",
7   "error_description": "BadAuthentication"
8 }
```

```
1 HTTP/1.1 400 BadRequest
2 Server: GFE/1.3
3 Content-Type: application/json
4
5 {
6   "error": "invalid_request",
7   "error_description": "specified strategy does not support requested operation (windowslive)"
8 }
```

Validate Tokens

GET

/userinfo

Returns user profile based on the
Auth0 access token

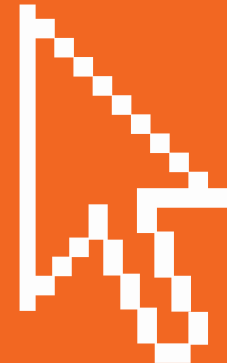
Returns the user information based on the Auth0 access token (obtained during login).

GET https://YOUR_NAMESPACE/userinfo

Authorization: 'Bearer `Auth0 access_token`'

Demo

- Add New User and Test the API



Summary



- Created an Application in Auth0
 - Local Database Connection
- Configured our API to use Auth0
 - Mode: Active
 - [Authorize]-attribute
- Generated and Consumed JWT token
 - <https://towfeek.eu.auth0.com/oauth/ro>