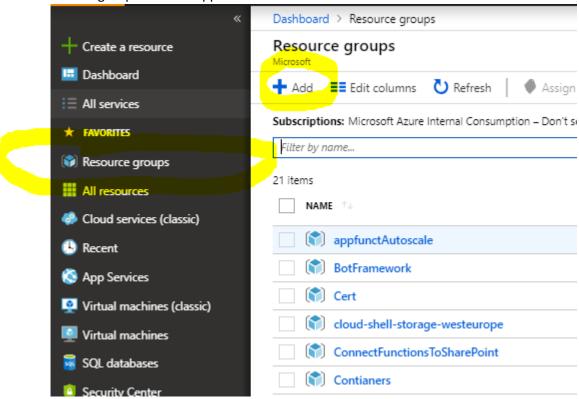
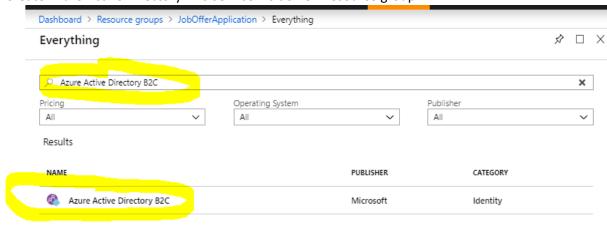
Configure AAD B2C

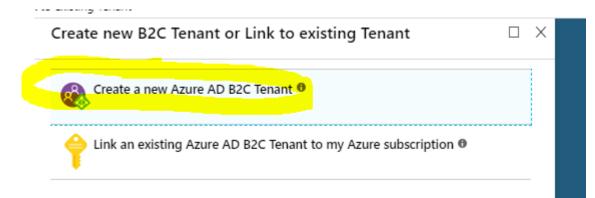
- 1. Go to portal.azure.com
- 2. Create resource group "JobOfferApplication":



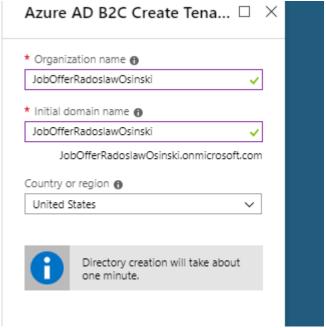
3. Create Azure Active Directory B2C Service inside new resource group:



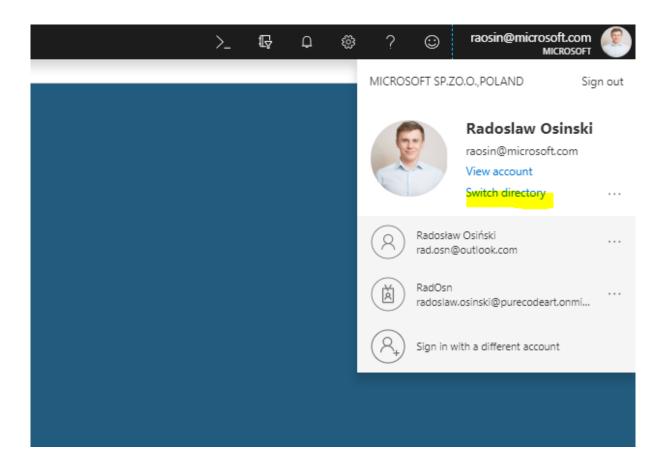
4. Select "create" and then "create new":



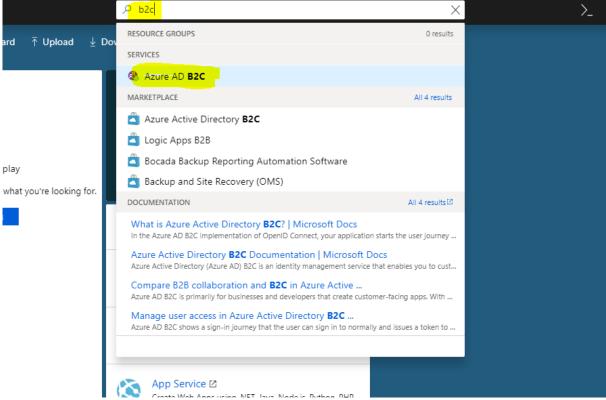
5. As a organization and initial domain name use "JobOffer" + << NameSurname>>



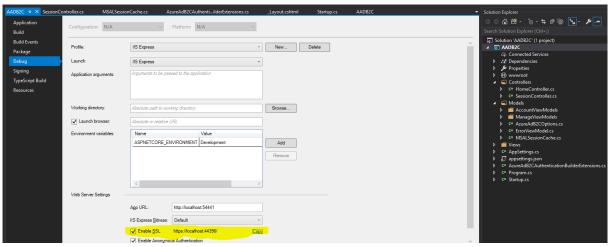
- 6. When service creation will be finished refresh the page
- Change directory to newly created:
 Right top corner → switch directory



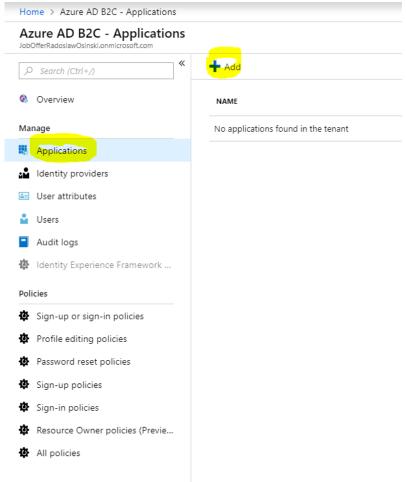
- 8. Select new one from the list.
- 9. When page will reload type B2C in search and select result:



- 10. You are now in Azure B2C
- 11. Make sure that SSL is enabled in your project properties and copy SSL URL:

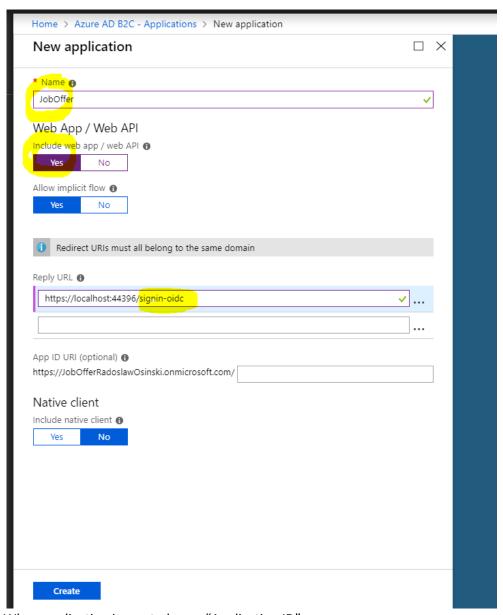


12. Go back to AAD B2C to "Applications" to register your app:

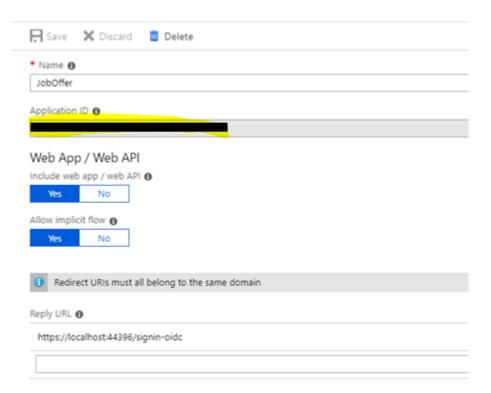


13. Set properties as on the screen.

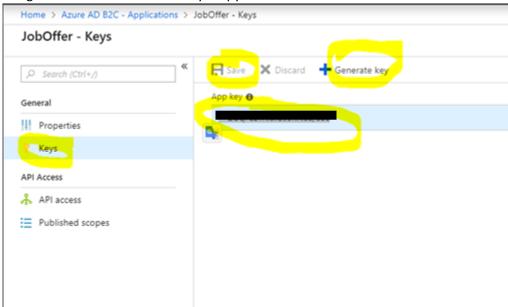
In URL reply paste copied link from project and add "signin-oidc" at the end:



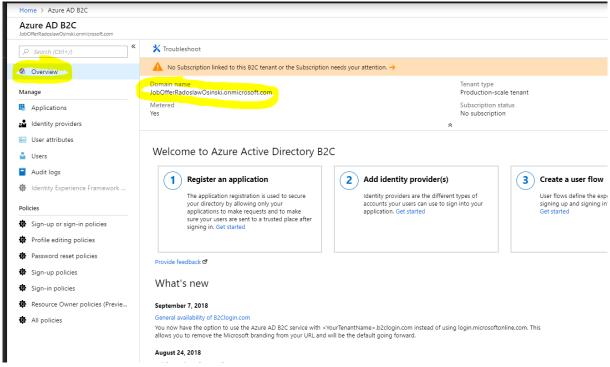
14. When application is created copy "Application ID"



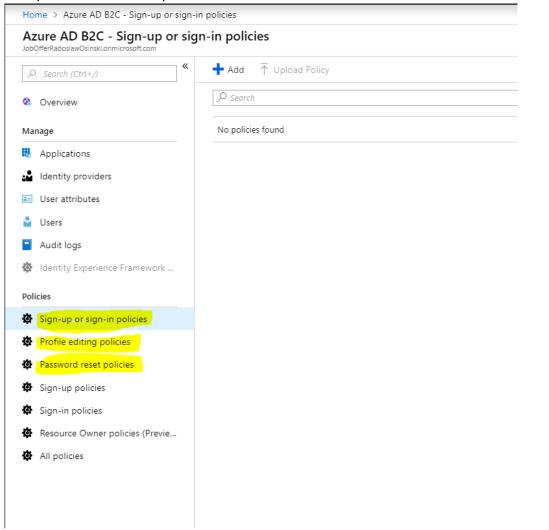
15. Go to keys klick "Generate key" then without any value in the field "App Key" click Save. That will generate secret automatically. Copy created secret:



16. Go to overview and copy domain name:

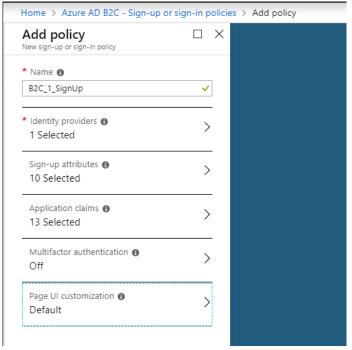


17. Now you need to create 3 policies:



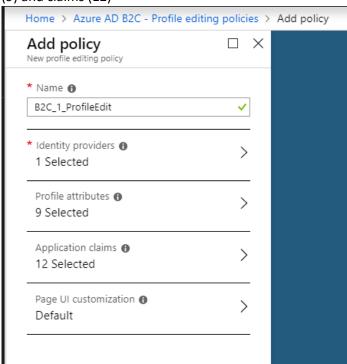
18. Create "Sign-up or sign-in policies"

Name it "B2C_1_SignUp", select email identity, all available attributes (10) and claims (13)



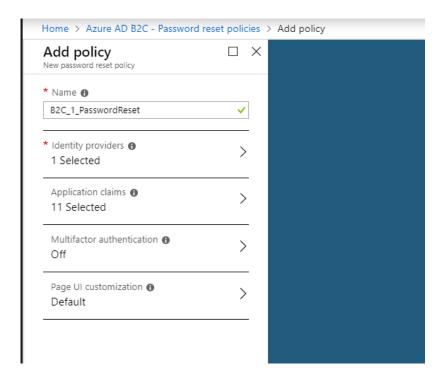
19. Create "Profile editing policies"

Name it "B2C_1_ProfileEdit", select "Local Account SignIn" identity, all available attributes (9) and claims (12)



20. Create "Password reset policies"

Name it "B2C_1_PasswordReset", select "Reset password using email address" identity, all available attributes (11)



Configure Solution:

21. Copy from the zip fallowing elements to your project:

File: AzureAdB2CAuthenticationBuilderExtensions.cs

Folder: AccountViewModels from Models

Folder: ManageViewModels from Models

File: AzureAdB2COptions.cs from Models

File: MSALSessionCache.cs from Models

Folder: Session from Views

File: _LoginPartial.cshtml from Shared views folder

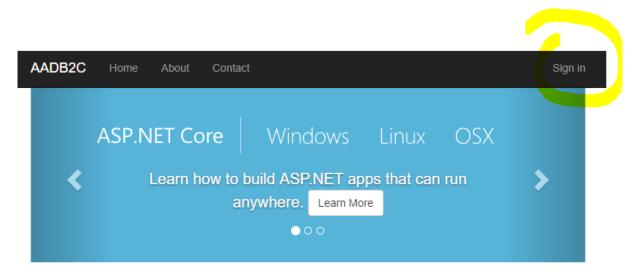
File: SessionController.cs from Controllers folder

File: AppSettings.cs

- 22. Add nuget package: Microsoft. Identity. Client
- 23. Put inside appsettings.json authentication section:

```
"Authentication": {
    "AzureAdB2C": {
        "ClientId": "<<taken from Azure (instruction step 14)>>",
        "ClientSecret": "<<taken from Azure (instruction step 15)>>",
        "Tenant": "<<taken from Azure>>.onmicrosoft.com (instruction step 16)",
        "SignUpSignInPolicyId": "B2C_1_SignUp",
        "ResetPasswordPolicyId": "B2C_1_PasswordReset",
        "EditProfilePolicyId": "B2C_1_ProfileEdit",
```

```
"RedirectUri": <<from project (instruction step 11)>>signin-oidc,
              }
            },
24. Replace constructor in startup class:
   public Startup(IHostingEnvironment env)
   {
        var builder = new ConfigurationBuilder()
             .SetBasePath(env.ContentRootPath)
             .AddJsonFile("appsettings.json", optional: false, reloadOnChange: true)
             .AddJsonFile($"appsettings.{env.EnvironmentName}.json", optional: true)
             .AddEnvironmentVariables();
             Configuration = builder.Build();
   }
       25. Add at the beginning to ConfigureServices method to startap class:
   services.AddSingleton<IHttpContextAccessor, HttpContextAccessor>();
              services.Configure<AppSettings>(Configuration.GetSection("AppSettings"));
               services.AddSingleton<IConfiguration>(Configuration);
               services.AddAuthentication(sharedOptions =>
                    sharedOptions.DefaultScheme =
   CookieAuthenticationDefaults.AuthenticationScheme;
                    sharedOptions.DefaultChallengeScheme =
   OpenIdConnectDefaults.AuthenticationScheme;
                .AddAzureAdB2C(options => Configuration.Bind("Authentication:AzureAdB2C",
   options))
                .AddCookie();
               services.AddMemoryCache();
               services.AddDistributedMemoryCache();
                      services.AddSession();
       26. Add to startup class:
   using Microsoft.AspNetCore.Authentication.Cookies;
   using Microsoft.AspNetCore.Authentication.OpenIdConnect;
       27. Add to configure method in startup class:
          app.UseSession();
          app.UseAuthentication();
       28. Paste to _Layout.cshtml
          @await Html.PartialAsync("_LoginPartial")
          Just after 
       29. Run an app and click "Sign in"
```

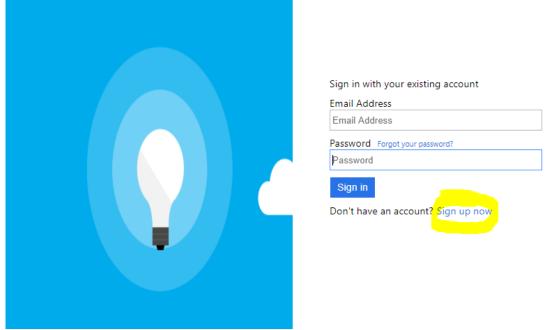


Application uses

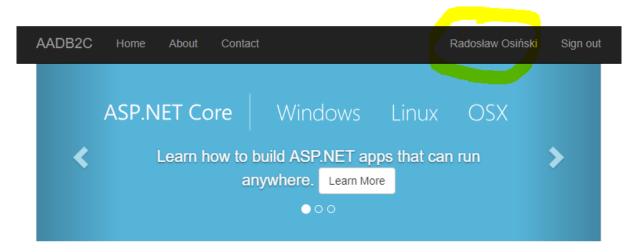
- · Sample pages using ASP.NET Core MVC
- · Theming using Bootstrap

How to

- · Add a Controller and View
- · Manage User Secrets using Secret Manager.
- · Use logging to log a message.
- 30. Sign up as a new user:



- 31. Verify email by code.
- 32. After log in you should see user name and "Sign out" next to it:



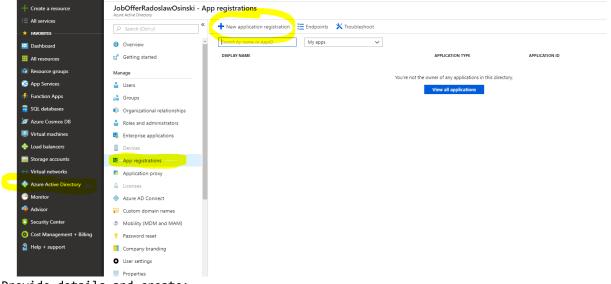
Application uses

- · Sample pages using ASP.NET Core MVC
- · Theming using Bootstrap
- 33. To make sure that user need to be logged in to run controller add an attribute

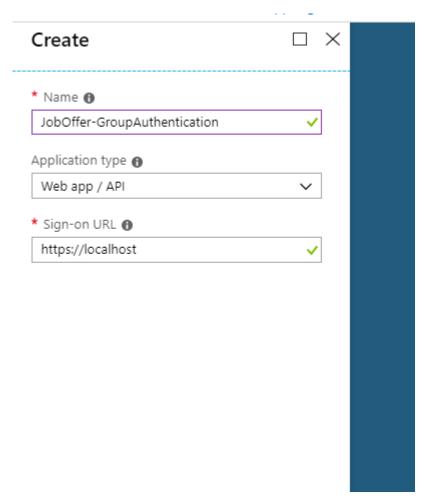
```
[Authorize]
public IActionResult Profile()
{
    return View();
}
```

Check if user belong to group

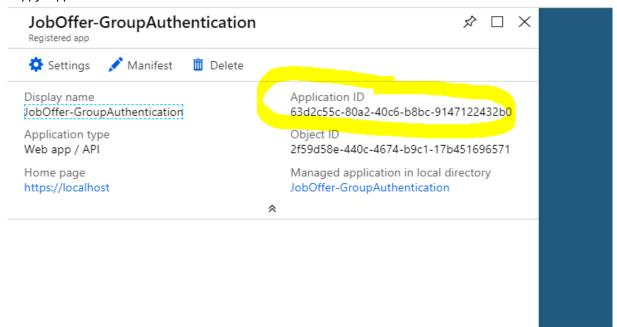
- 34. Copy Helper Folder
- 35. Copy AAD folder from Model folder
- 36. Add NuGet package: Microsoft.IdentityModel.Clients.ActiveDirectory
- 37. Go to: Azure Acive Directory \rightarrow App Registrations \rightarrow New Application registration



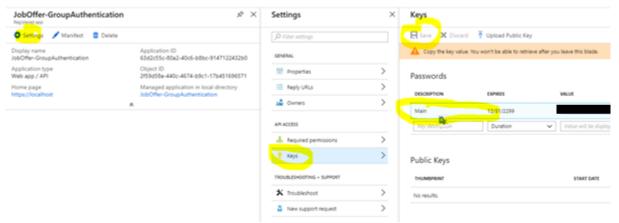
38. Provide details and create:



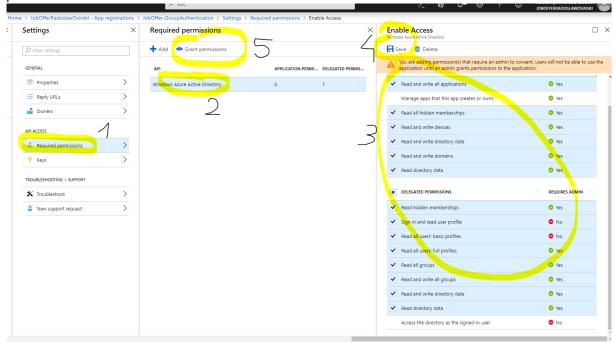
39. Coppy Application Id:



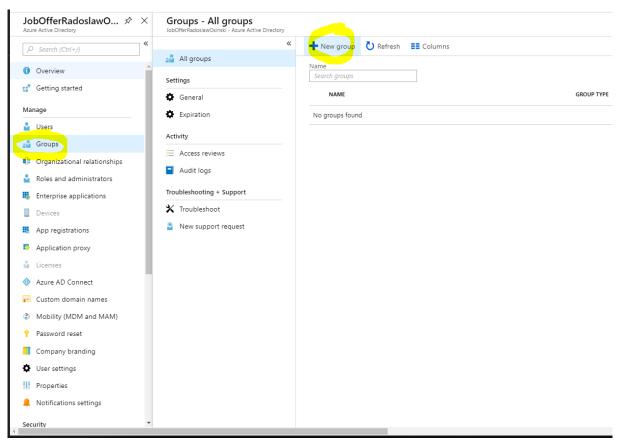
40. Go to settings, generate new key and copy it:



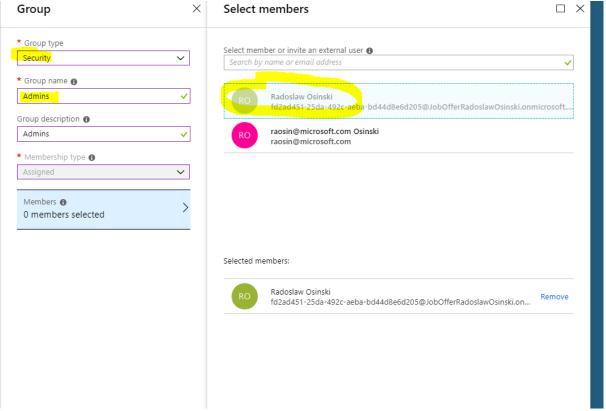
41. Go to Required permissions → Windows Azure Active Directory. Select all read permmisions and Save it. After Save Click "Grand Permissions":



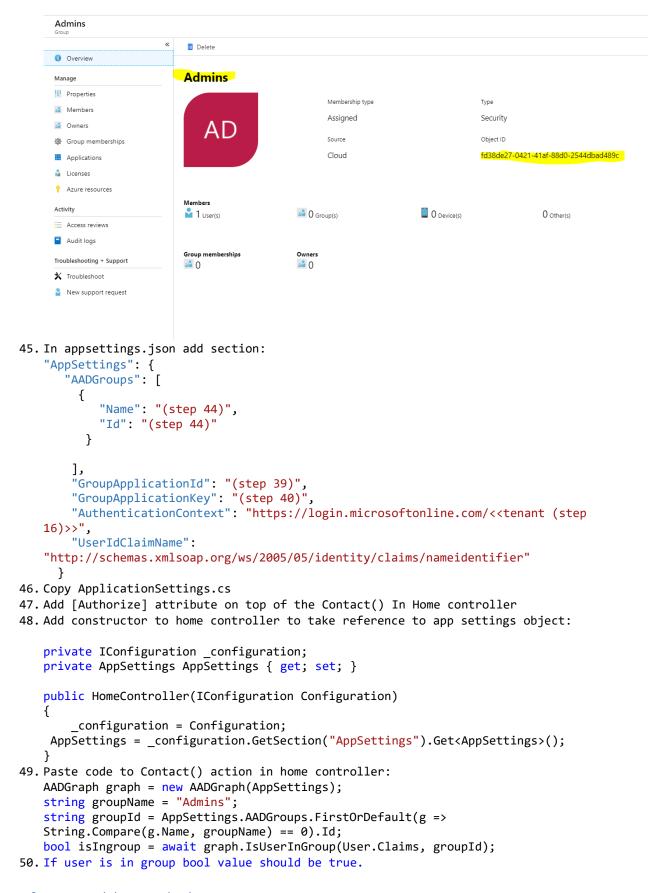
42. Go to groups and create one:



43. Durring creation select B2C user which you register before:

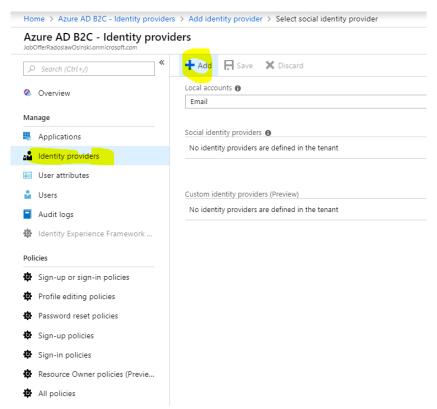


44. After group creation copy group name and object ID:



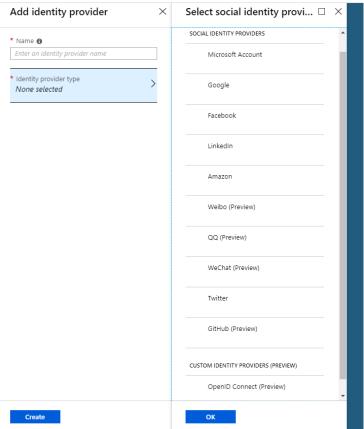
Configure Additional Identity Provicers

51. Add additional identity providers:



52. Select from the available list.

(Providers required to register an app on their developer portal to receive credentials)



53. Add new identity providers to all politics that have been created:

