

Microsoft Azure – Azure AD

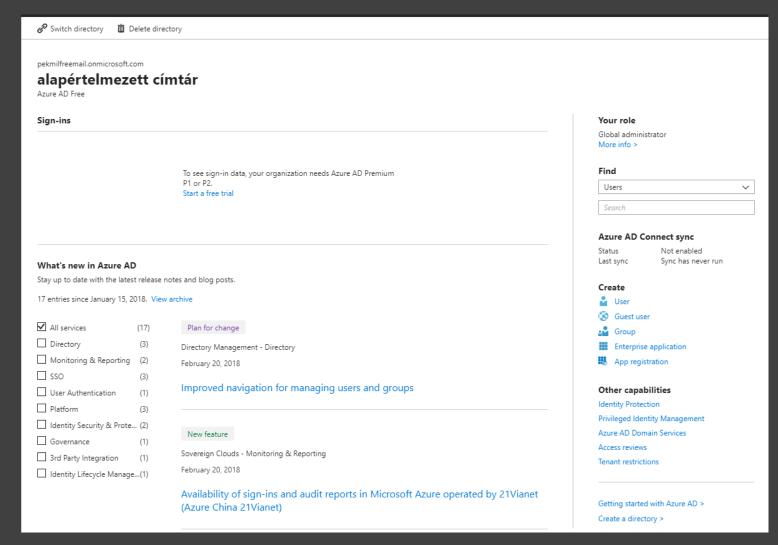
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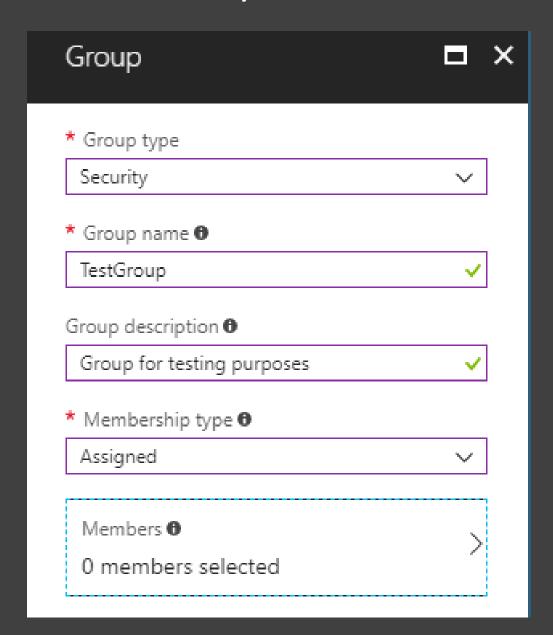
Azure Active Directory

- You automatically have one Azure AD tenant for your Azure account
- You can add additional directories if necessary (eg. development, testing, etc.)
- The portal has full support for creating, deleting, and managing users within this environment



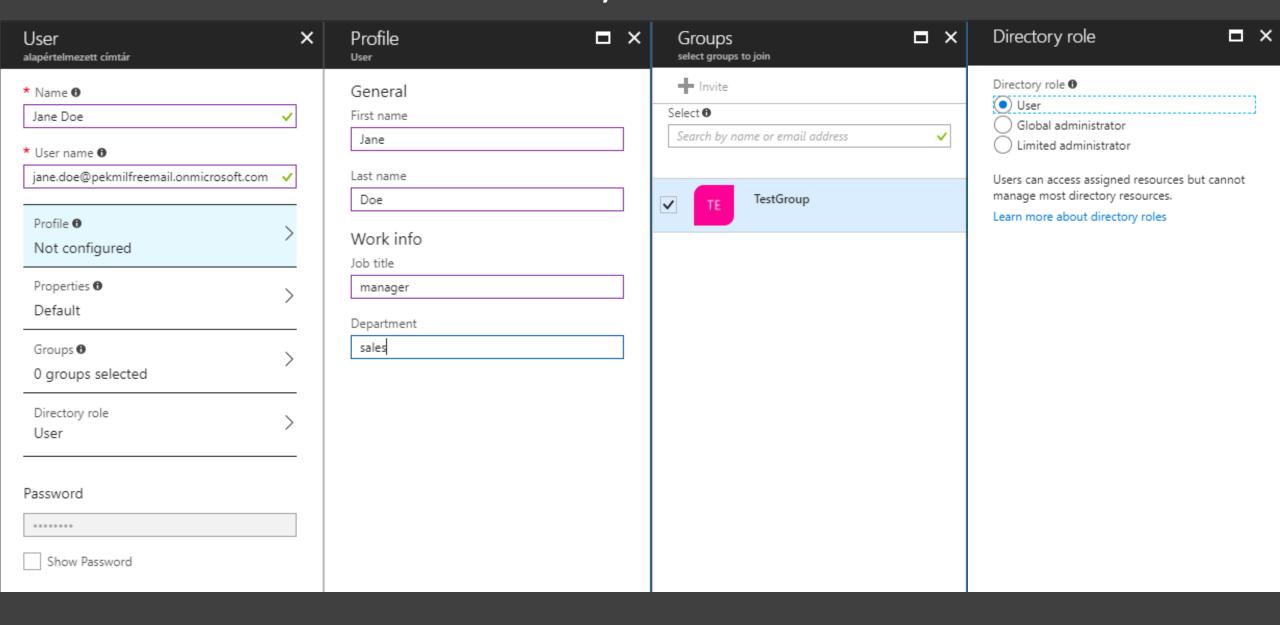


Azure Active Directory — Create New Group



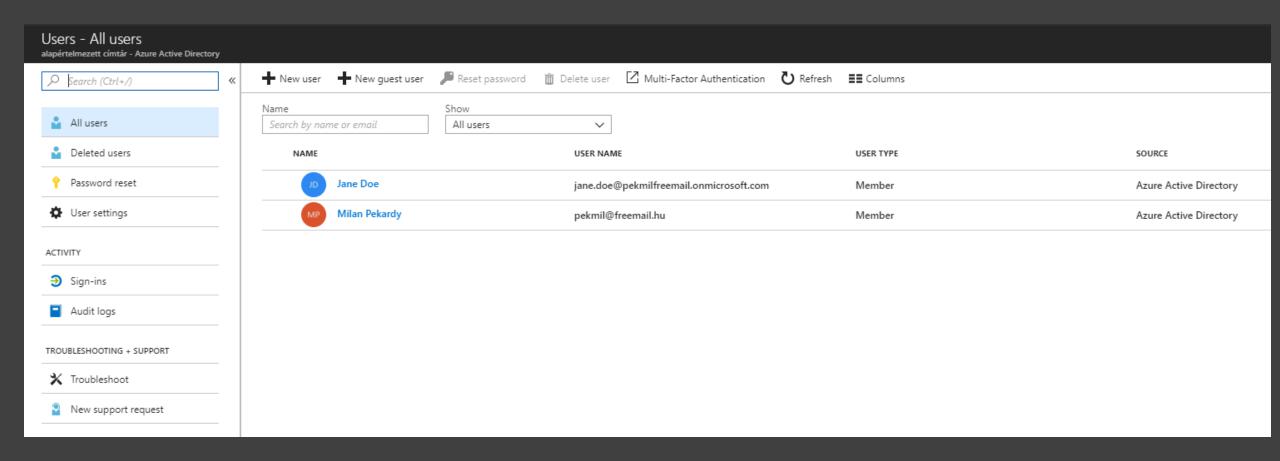


Azure Active Directory — Create New User





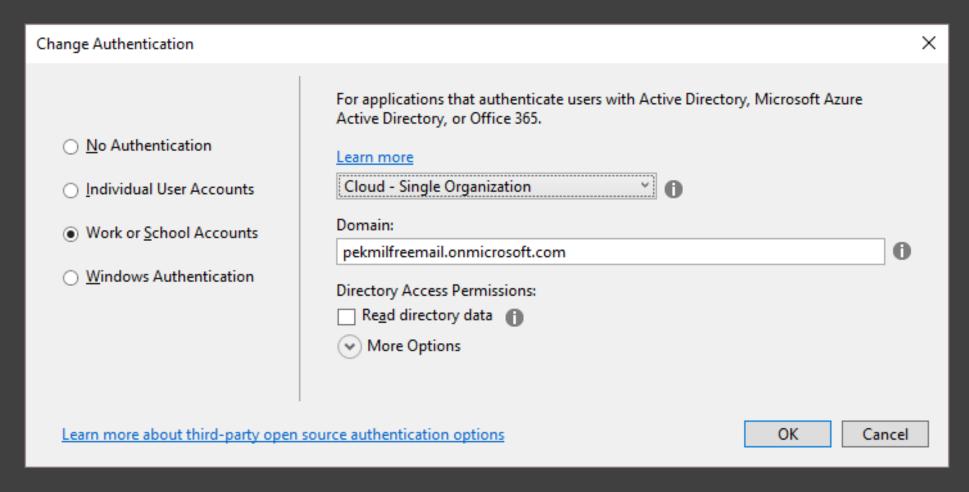
Azure Active Directory – Users





Azure Active Directory – Sample Application

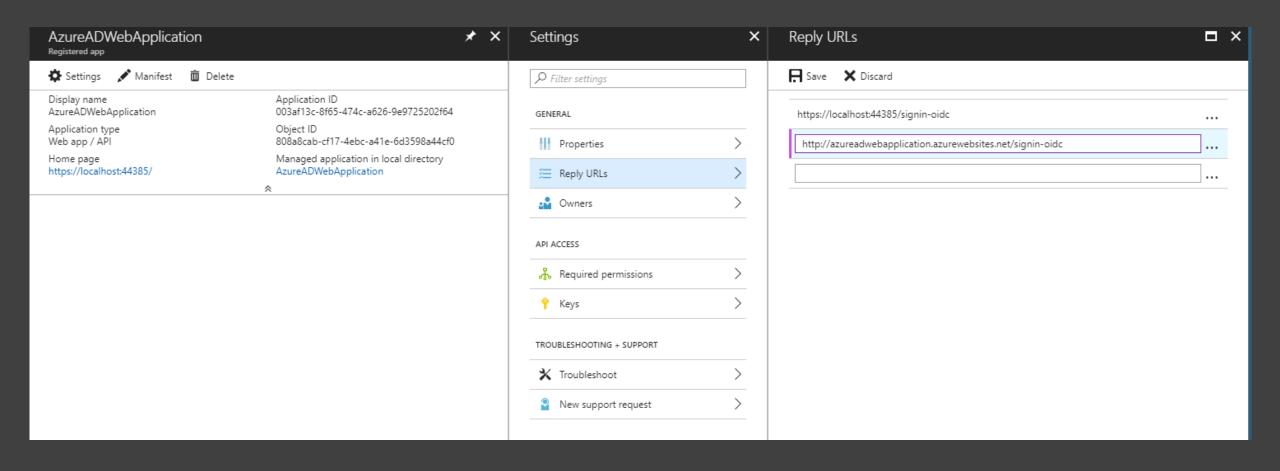
- Visual Studio > Create New ASP.NET Core Web Application
- Change Authentication to Work or School Accounts





Azure Active Directory – Sample Application

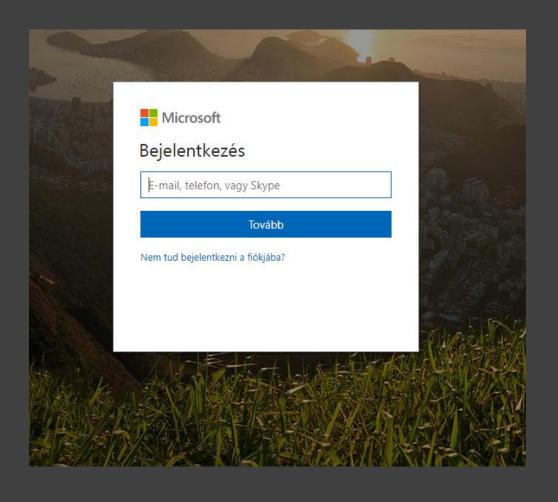
Register the correct reply URL: Azure Active Directory > App registrations
 > All apps > AzureADWebApplication > Settings > Reply URLs

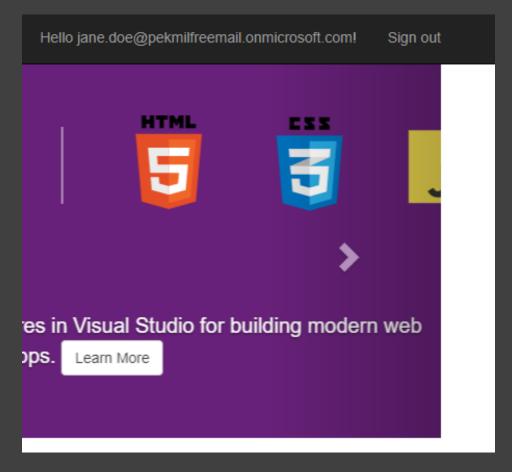




Azure Active Directory – Sample Application

You can now log into the app with your account







- Configure Azure AD to send back claims representing a user's group membership
- App registrations > All apps > AzureADWebApplication > Manifest

```
"appId": "003af13c-8f65-474c-a626-9e9725202f64",
"appRoles": [],
"availableToOtherTenants": false,
"displayName": "AzureADWebApplication",
"errorUrl": null,
"groupMembershipClaims": "SecurityGroup",
"optionalClaims": null,
"acceptMappedClaims": null,
"homepage": "https://localhost:44385/",
"informationalUrls": {
  "privacy": null,
  "termsOfService": null
},
```

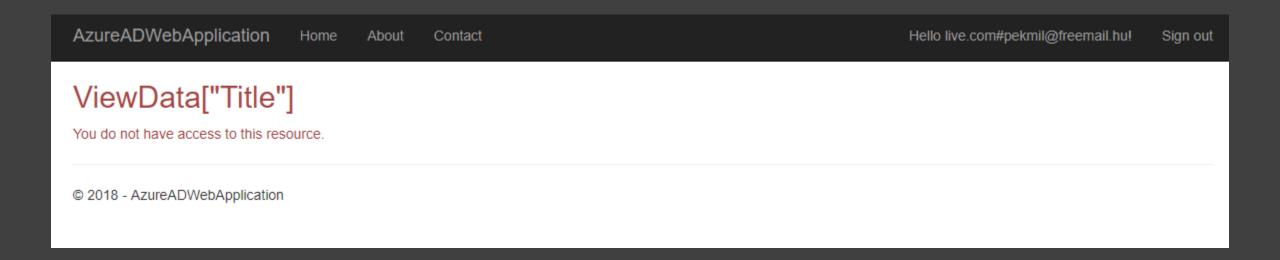


- Definig authorization policy:
 - The authorization primitives in ASP.NET Core are claims and policies.
 - Claims hold information about a user,
 - Policies encapsulate simple logic to evaluate the current user against the current context and return true to authorize a user.

```
services.AddAuthorization(options =>
{
    options.AddPolicy("TestGroupPolicy", builder => builder.RequireClaim("groups", "4097c541-9b33-4a84-b409-7030bc525438"));
});
```

```
[Authorize("TestGroupPolicy")]
0 references | ② 1 request | 0 exceptions
public IActionResult About()
{
    ViewData["Message"] = "Your application description page.";
    return View();
}
```







AzureADWebApplication Home About Contact	Hello jane.doe@pekmilfreemail.onmicrosoft.com! Sign out
About	
Your application description page. Use this area to provide additional information.	
aio	ASQA2/8GAAAABAbeCNZP2Bycw3KBSGq0gHswi2XB1fvWndQHGdX+uQA=
http://schemas.microsoft.com/claims/authnmethodsreferences	pwd
http://schemas.xmlsoap.org/ws/2005/05/identity/claims/surname	Doe
http://schemas.xmlsoap.org/ws/2005/05/identity/claims/givenname	Jane
groups	4097c541-9b33-4a84-b409-7030bc525438
name	Jane Doe
http://schemas.microsoft.com/identity/claims/objectidentifier	6be31369-161a-4d5c-b44e-0f2ff27574a1
http://schemas.xmlsoap.org/ws/2005/05/identity/claims/nameidentifier	THWz1wrfm5IJOsf0F09r-xIHtpEn4t8GE6zCfLlv26c
http://schemas.microsoft.com/identity/claims/tenantid	02676314-818b-4a6e-b65b-a9c60f25a1b6
http://schemas.xmlsoap.org/ws/2005/05/identity/claims/name	jane.doe@pekmilfreemail.onmicrosoft.com
http://schemas.xmlsoap.org/ws/2005/05/identity/claims/upn	jane.doe@pekmilfreemail.onmicrosoft.com
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