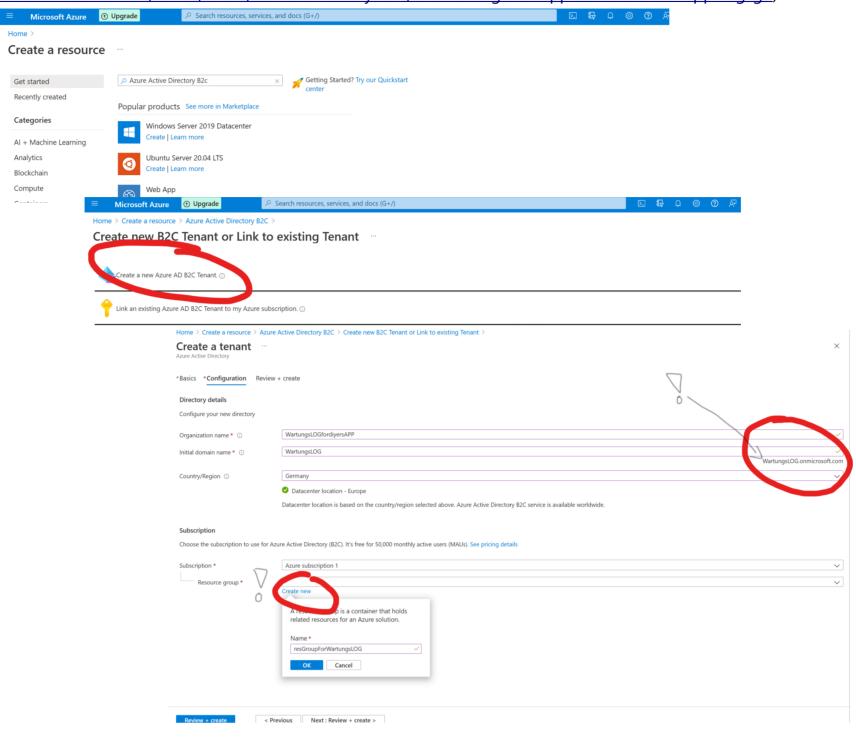
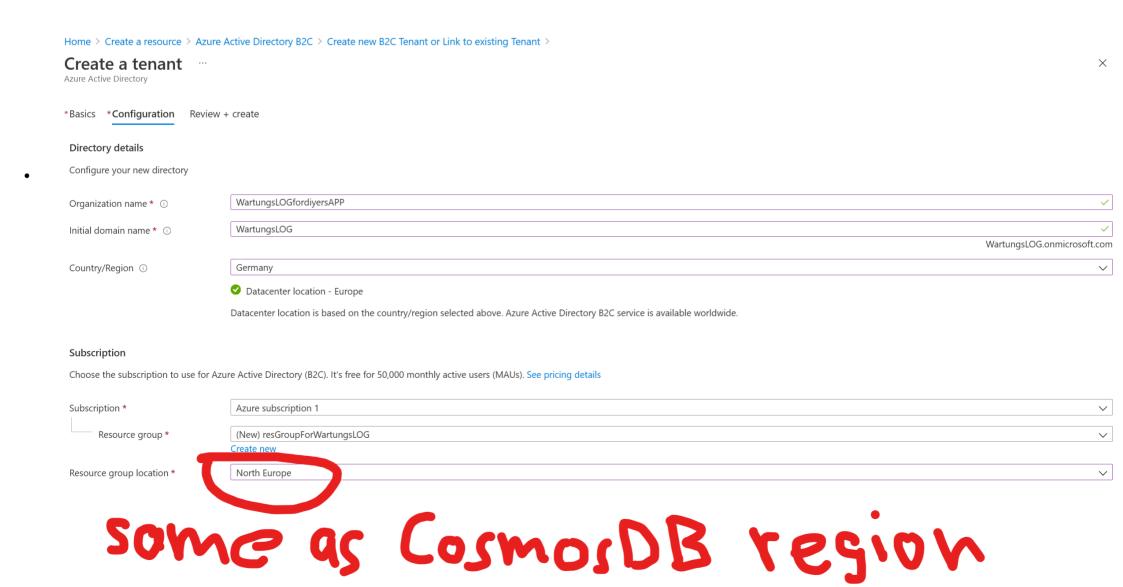
Microsoft Xamarin Example App with Azure Backend "WartungsLOG"

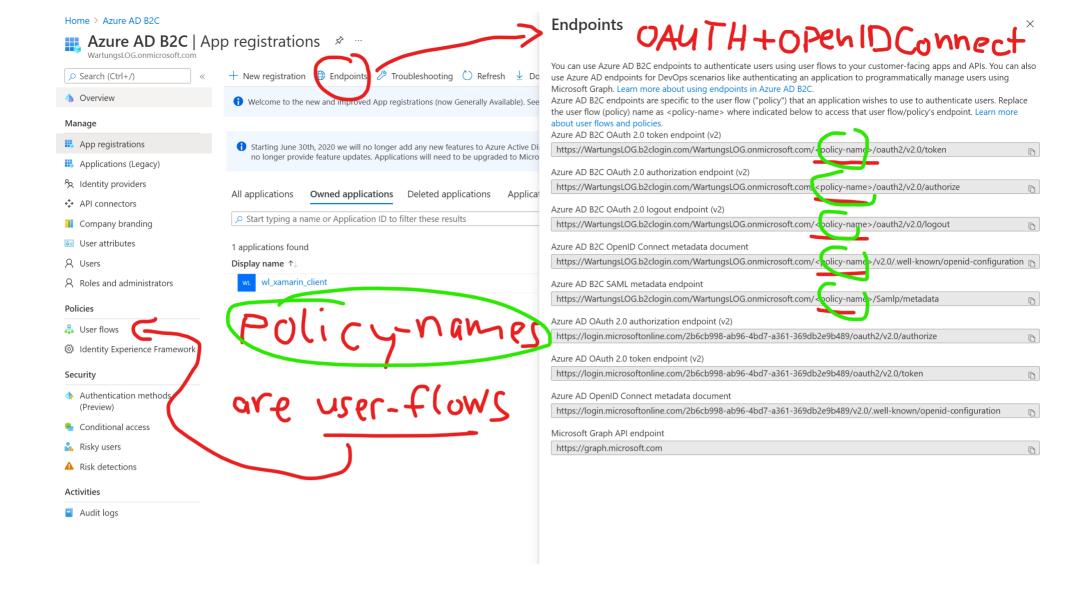
• step 1:create Azure B2C tenant:

(https://docs.microsoft.com/en-us/azure/active-directory-b2c/tutorial-register-applications?tabs=app-reg-ga)





note Oauth and OpenIDConnect endpoints here under "Endpoint": e.g. for postman.co to check webAPI:

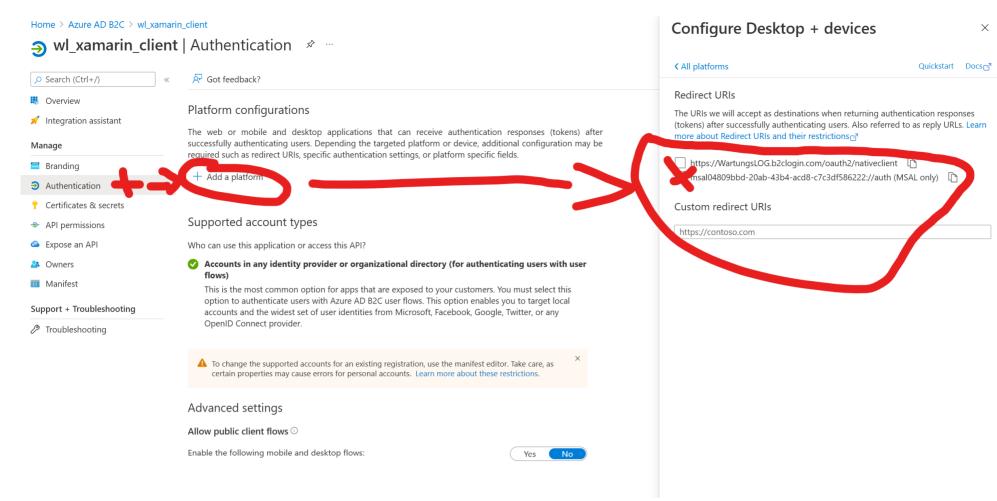


step 2: in B2C tenant create: App Registrations → New Registrations :

Home > Azure AD B2C >

Register an application * Name The display name for this application (this can be changed later). wl_xamarin_client Supported account types Who can use this application or access this API? Accounts in this organizational directory only (WartungsLOGfordiyersAPP only - Single tenant) Accounts in any organizational directory (Any Azure AD directory – Multitenant) Accounts in any identity provider or organizational directory (for authenticating users with user flows) Help me choose... Redirect URI (recommended) We'll return the authentication response to this URI after successfully authenticating the user. Providing this now is optional and it can be changed later, but a value is required for most authentication scenarios Public client/native (mobil... ve.g. myapp://auth Permissions Azure AD B2C requires this app to be consented for openid and offline_access permissions. You must be an app administrator to grant ad Grant admin consent to openid and offline_access permissions Register an app you're working on here. Integrate gallery apps and other apps from outside your organization by adding from Enterprise By proceeding, you agree to the Microsoft Platform Policies 🗗 Register

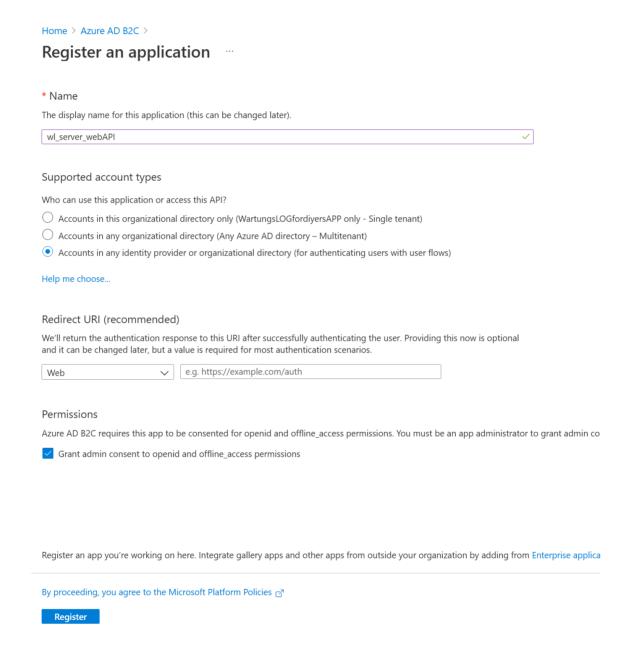
• click on new app registration "wl_xamarin_client" → Authentication → Add Platform → mobile and desktop applications:



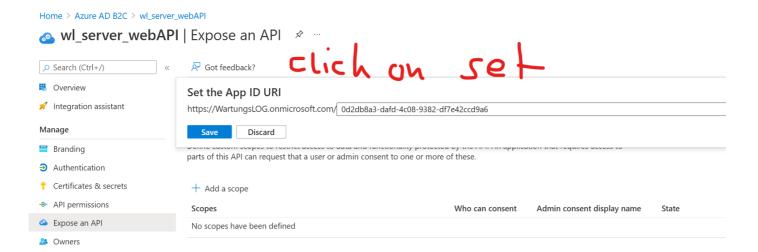
ne

W

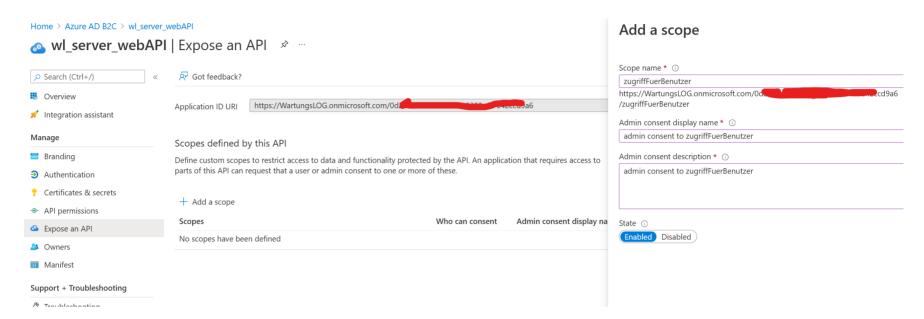
APP registration for Server WebAPI: in Azure AD B2C -> App registrations → new registration



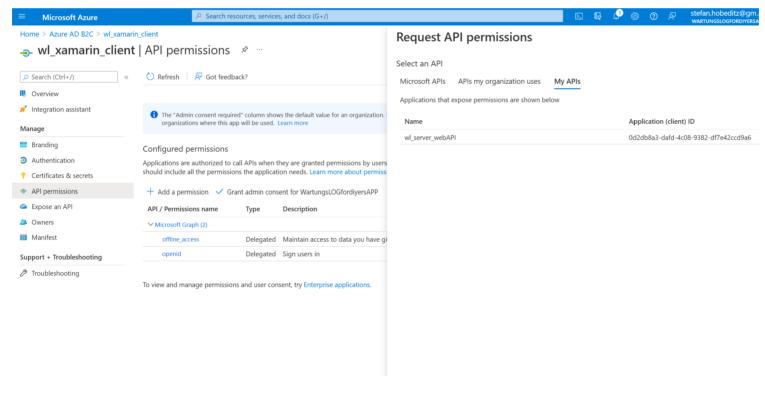
in App Registration for Server : click Expose an API → Application ID URI : click on "Set"



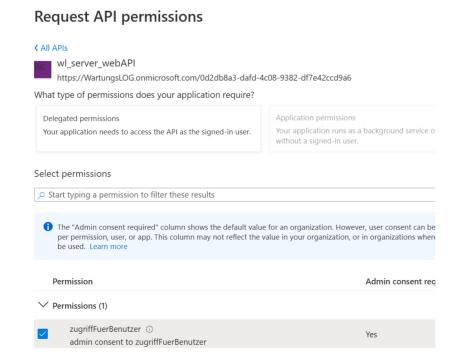
give the scope a name here: "zugriffFuerBenutzer"

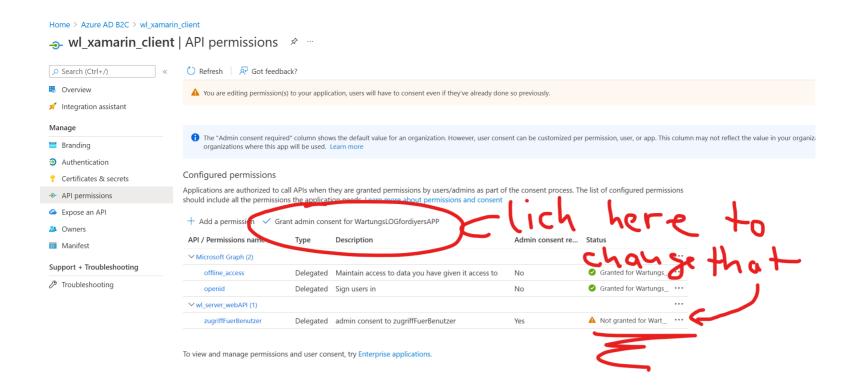


· back in the app registration for the client add the api permission to this scope

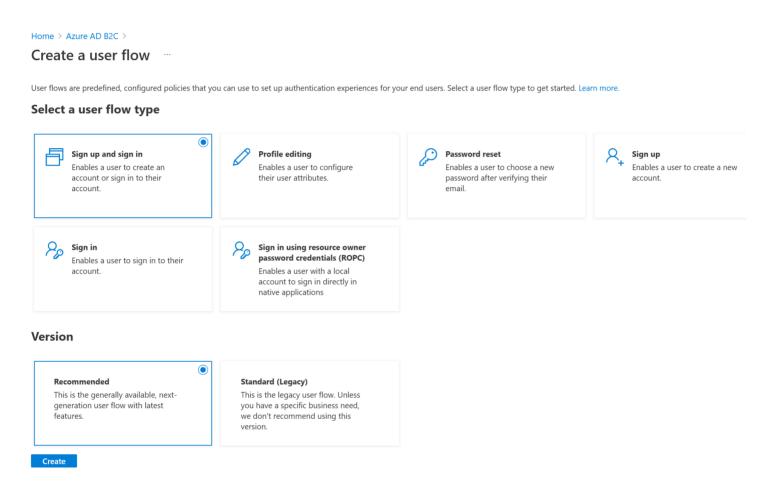


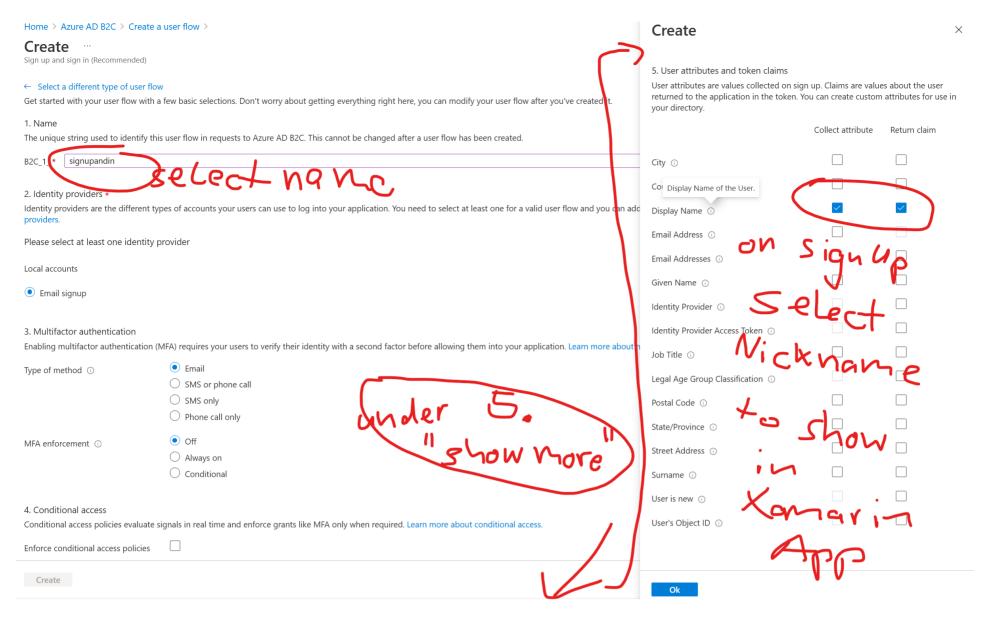
add the zugriffFuerBenutzer permission



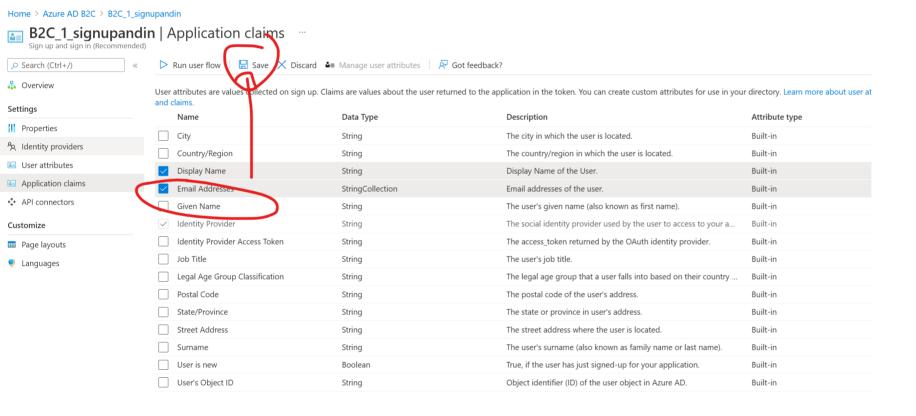


• for client app user sign Up and sing In: create user

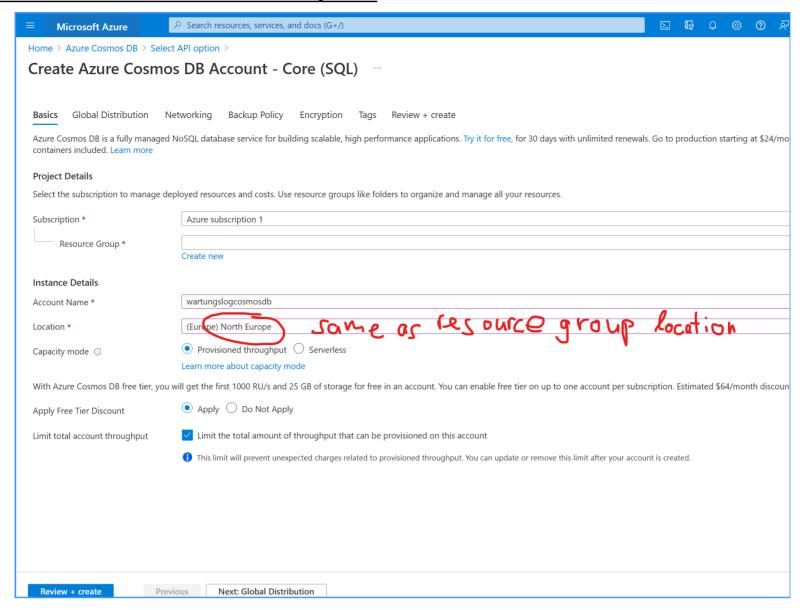




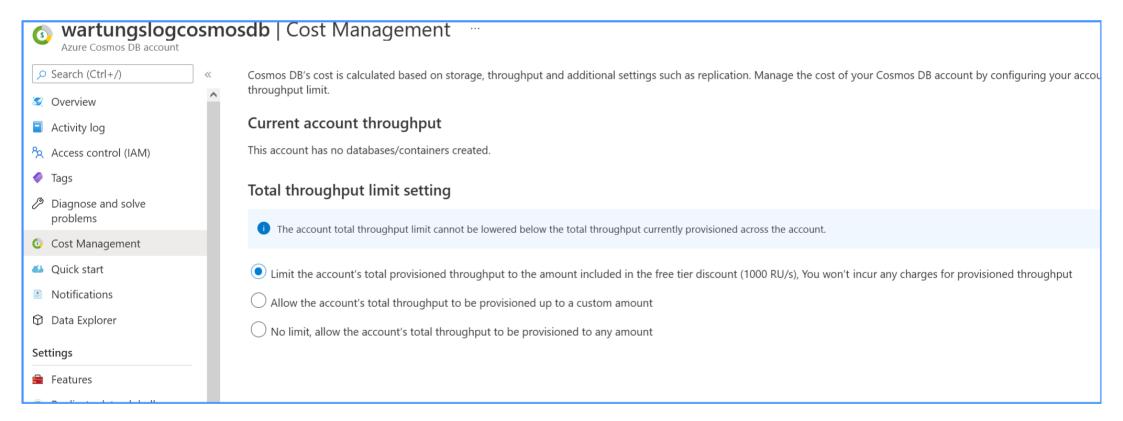
• add new claim returned to the app: EmailAddresses (to show the email address...)



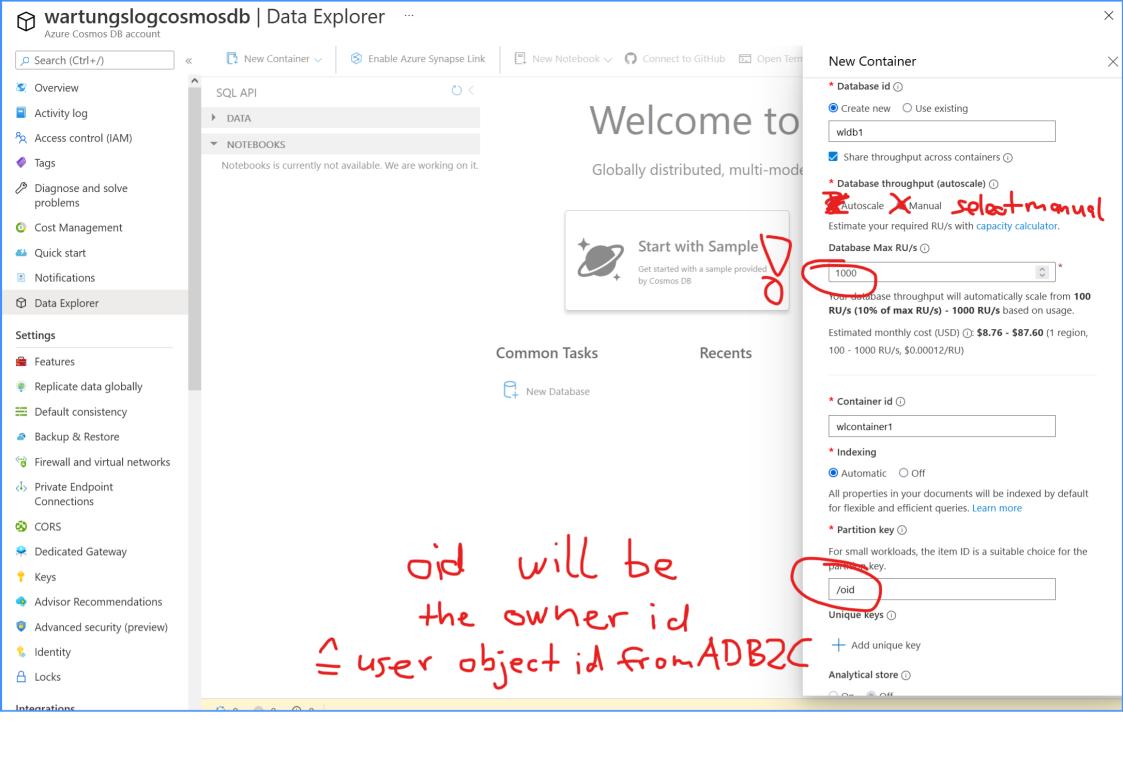
STEP: CREATING COSMOS DB with CORE SQL API



- check throughput limit !! was at 4000 RU/s !!!



- create container and database in CosmosDB



STEP Configure Web API in "WL_WebAPI.sln" solution

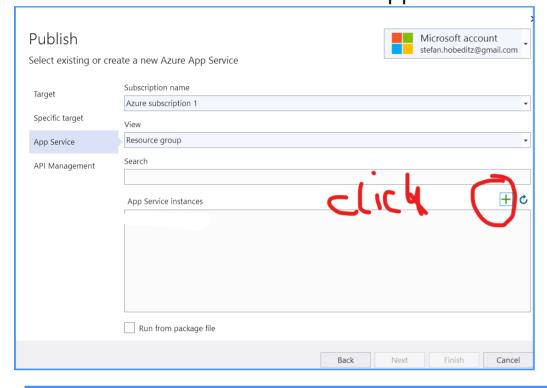
- file startup.cs find and change

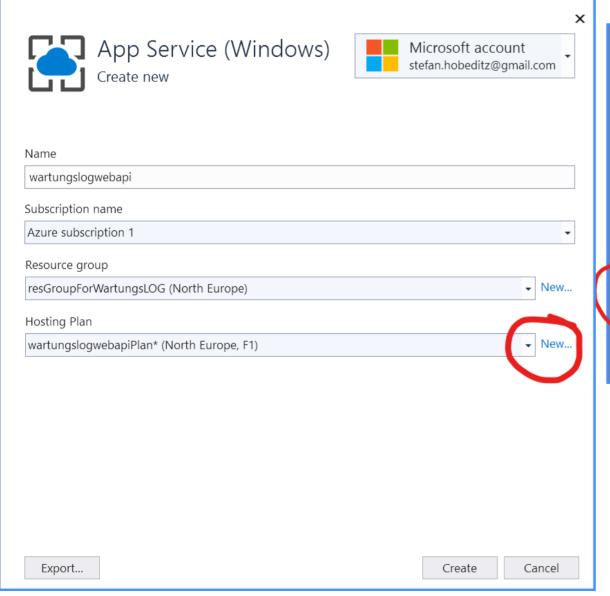
"options.MetadataAddress = "https://WartungsLOG.b2clogin.com/WartungsLOG.onmicrosoft.com/B2C_1_signupandin/v2.0/.well-

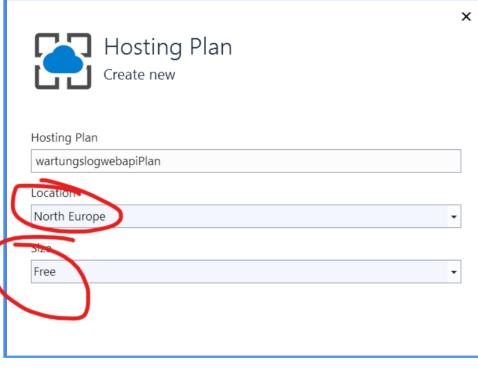
known/openid-configuration";" (from azure ad b2c app registrations → "Endpoints")

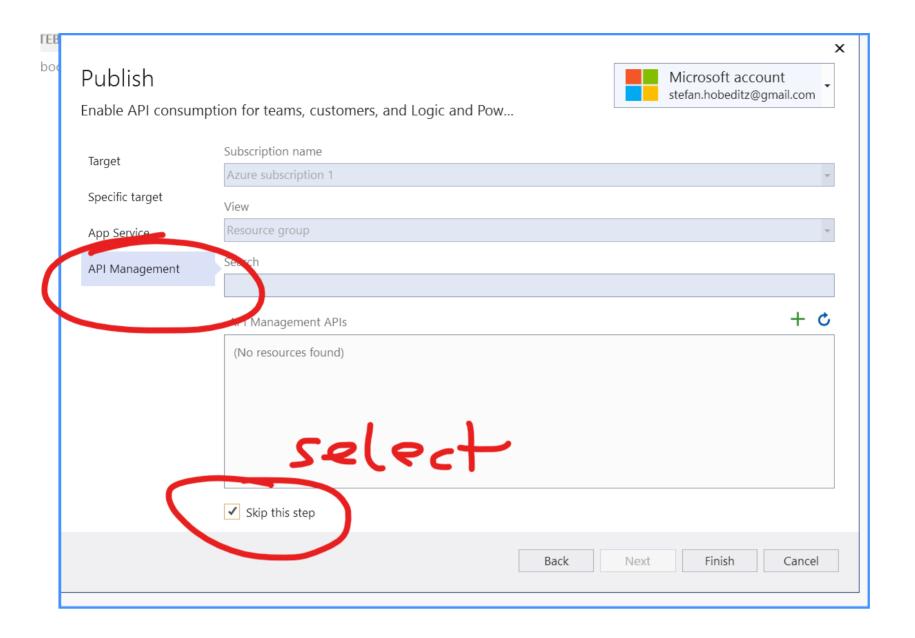
```
in "appsettings.json"
"AzureAdB2C": {
    "Instance": "https://login.microsoftonline.com/",
    "ClientId": "0d2db8a3-dafd-4c08-9382-df7e42ccd9a6", // app registration id for web api service: "wl_server_webAPI"
    "Domain": "wartungslog.onmicrosoft.com",
    "TenantId": "common",
    //"SignedOutCallbackPath": "/B2C_1_signupandin/oauth2/v2.0/logout",
    "SignUpSignInPolicyId": "B2C_1_signupandin" // user flow name for sign in and sign up
}
```

publish WL_WebAPI (right click project in solution)
 create new → select Azure → Azure App Service →

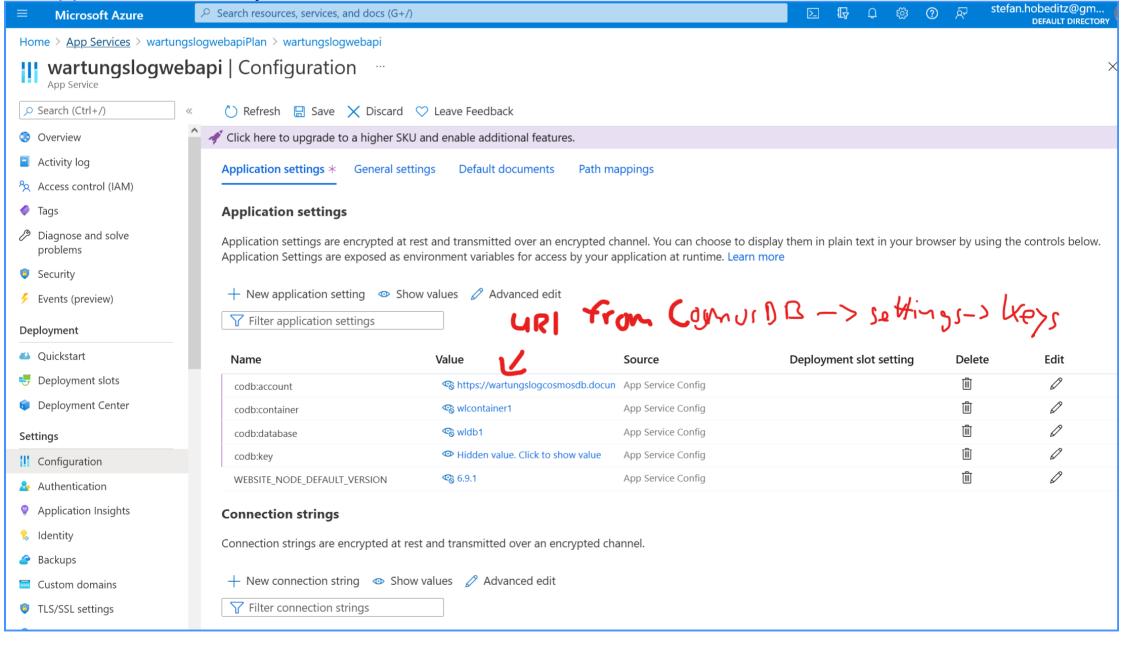




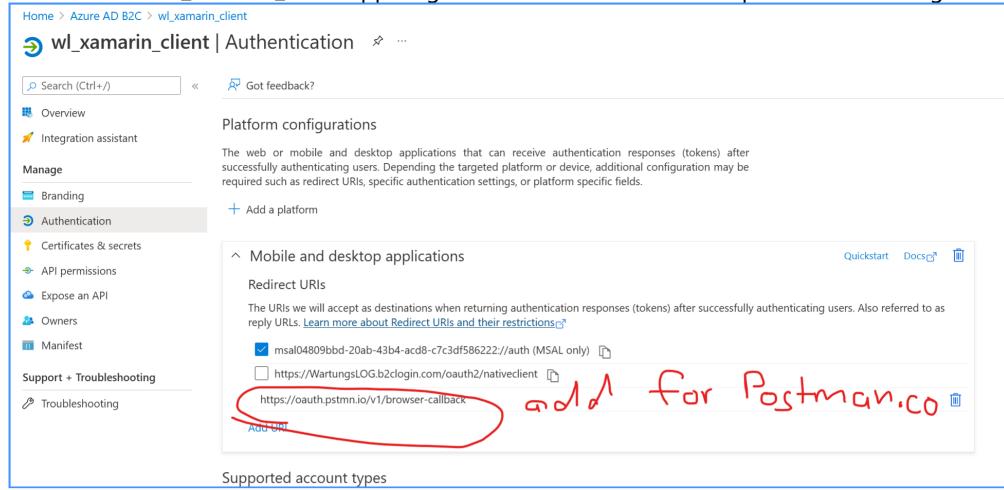




in App Services add keys for cosmos DB:



- in azure ad b2c → wl_xamarin_clinet app resgistration add callback uri for postman.co testing:



(for postman add auth/access url from b2c endpoints, clientID for xamarin clientID, scope)

Step: Xamarin App general settings:

- in RealDataService: add the AppService public endpoint: