

Lab 4: Test Application

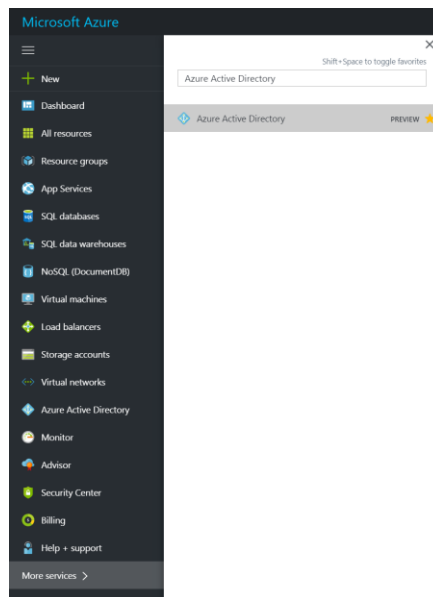
In this Lab, we will use a console application to test us create Api.

The following activities are going to be done:

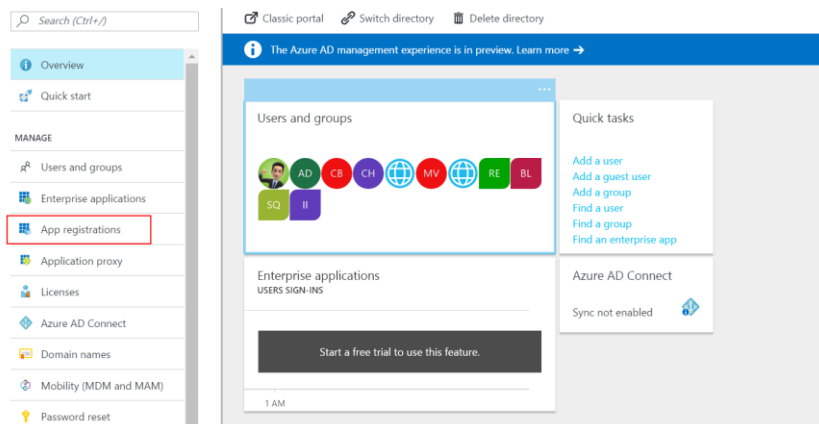
- Add client application to Azure Active Directory
- Configure the console application
- Run the test application

Add client application to Azure Active Directory

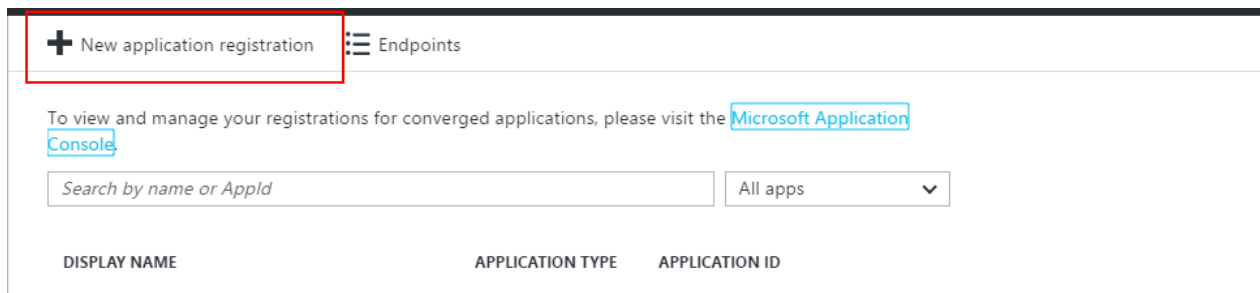
1. Navigate to the Azure Portal (<https://portal.azure.com/>)
2. Click On: More Services and filter for “Azure Active Directory” and click on the service in the list.



3. Click on your Azure Active Directory, and in the Directory blade in the settings click on “App Registrations”.



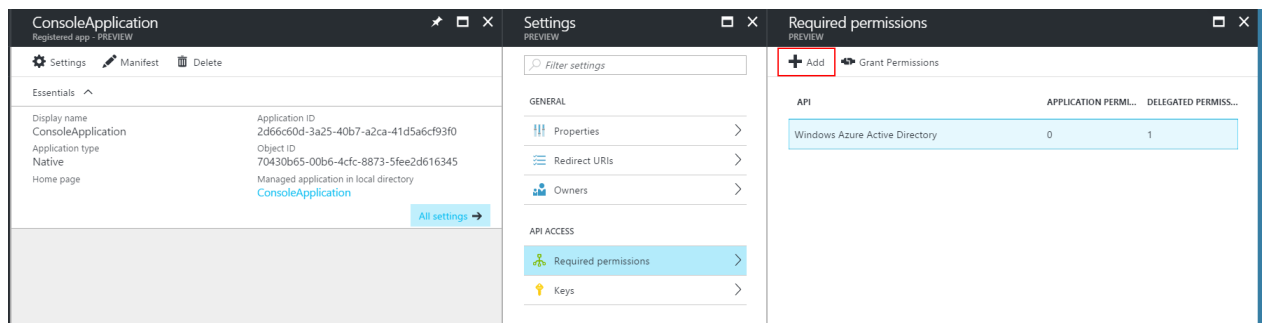
4. In the “App Registrations” blade click on “New application registration”.



5. Fill in a Name (like ConsoleApplication), Application Type: Native and Redirect Url: <https://localhost>. With everything filled in click on “Create”.

The screenshot shows the 'Create' dialog box for a new application registration. The dialog has a title bar with 'Create' and 'PREVIEW' buttons. It contains three input fields: 'Name' with the value 'ConsoleApplication', 'Application type' with the value 'Native', and 'Redirect URI' with the value 'https://localhost'. Each field has a green checkmark indicating it is valid.

6. With the application registration created click on the registered application in the application list.
7. In this window copy the ClientId of the application and click on “Required permissions”.



8. Click “Add” in the Required permissions blade to give the console application delegated permissions on the Api we created.
9. In the “Select an API” search for your created Api application and select it.
10. The permission step will open, make sure you select your application under “Delegated Permissions” and click “Select”.

Required permissions

PREVIEW

+ Add

Grant Permissions

API	APPLICATION PERM...	DELEGATED PERMISS...
Windows Azure Active Directory	0	1

Add API access

PREVIEW

1

Select an API

Azure SQL Database

✓

2

Select permissions

0 role, 1 scope

>

Enable Access

PREVIEW

APPLICATION PERMISSIONS

Access Azure SQL DB and Data Warehouse

Yes

DELEGATED PERMISSIONS

Access Azure SQL DB and Data Warehouse

No

11. In the steps blade click "Done".

Configure the console application

1. On the USB drive find the folder called "Test Application" in the root.
2. Open the file: "Msft.Gab.Console.exe.config" in an editor of your choice.
3. Fill in all the "appSettings" to test your application.

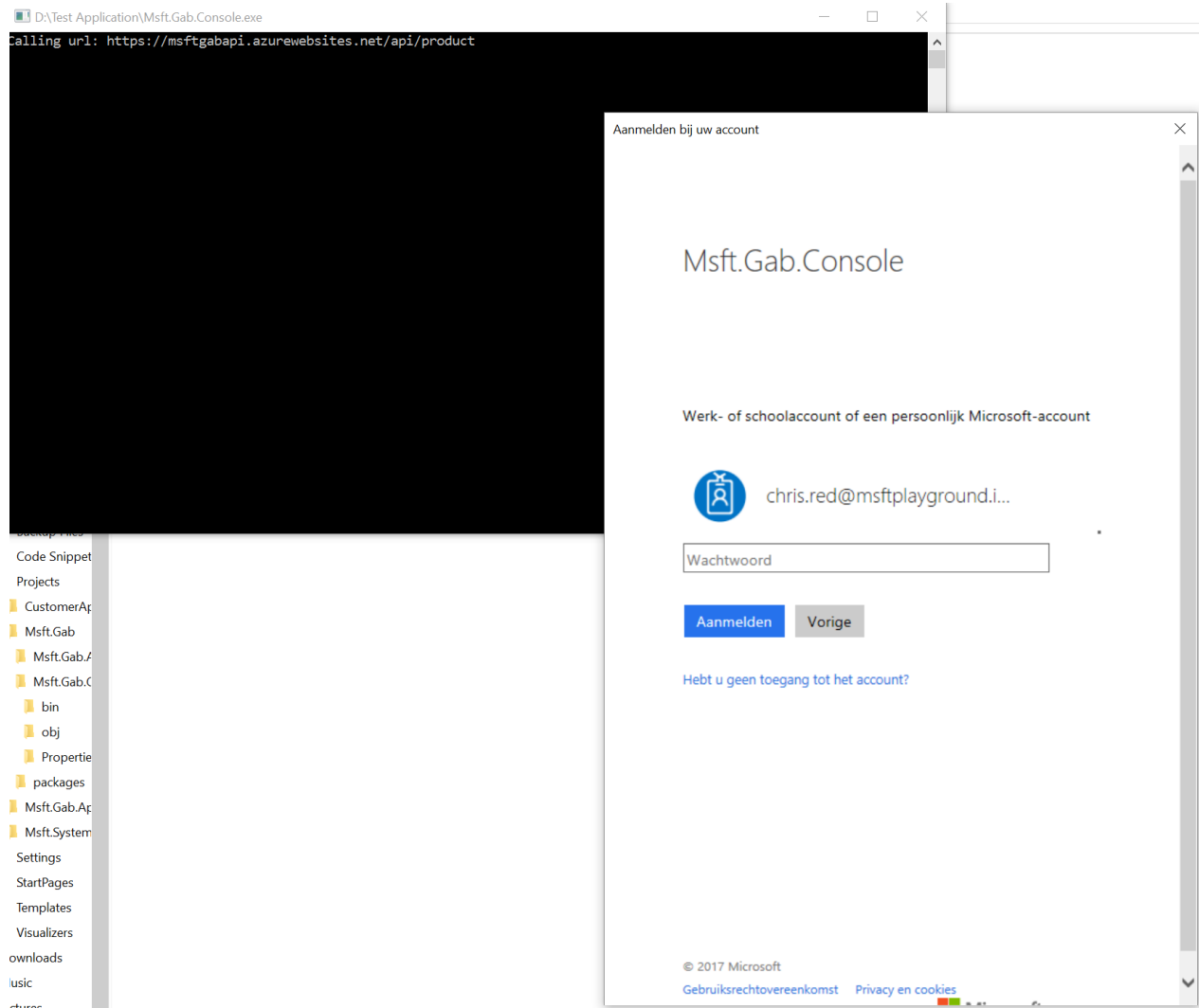
```

<?xml version="1.0" encoding="utf-8"?>
<configuration>
  <startup>
    <supportedRuntime version="v4.0" sku=".NETFramework,Version=v4.6.2"/>
  </startup>
  <appSettings>
    <add key="TenantId" value="[TenantId]"/>
    <add key="ClientId" value="[ClientId]"/>
    <add key="ResourceId" value="[ResourceId of your API]" />
    <add key="ReplyAddressConfigured" value="[Reply Url of your created application]"/>
    <add key="Url" value="[Url of the Controller action]"/>
  </appSettings>
</configuration>

```

Run the test application

1. Run the “Msft.Gab.Console.exe” as Administrator.
2. The application will print out the URL it will call and will require you to authenticate.



3. Login with the correct user.

4. When logged in the application will call the URL and write a response to the console.

```
D:\Test Application\Msft.Gab.Console.exe
hxi3L.IaX+sA4IwAQKDS6qevyGDLVncg8oHa2RnWngnUFFLMj0YI20PXKhjwhMNFdQQrAdckgshj16VC1+3DLIHAZoK1NAaM6iTxwEMLJJMGAwcggEEgmVzh
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Done processing, press any key to close....
```