B2C REST API

Hands-on Lab

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| About the Author | |
| **Author**: | **Ronny Bjones** |
| **Bio**: | https://www.linkedin.com/in/ronnybjones/ |

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# Lab Overview

Several paragraphs – or longer – describing an overview of the lab including a description of the lab and why certain topics are covered. This is also called the ‘LAB ABSTRACT’ that will be used for hand-off to conferences as part of the content hand-off process

###### Abstract

During this lab, you will run several exercises that will help you understand how to integrate REST API’s in Azure AD B2C.

###### Learning Objectives

After completing the exercises in this lab, you will be able to:

* How a REST API can be added as a validation technical profile
* How a REST API can be added as a claims exchange

**Estimated time to complete this lab: *10* minutes**

# Exercise 0: Setup

Each exercise consists of a scenario and learning objectives, the scenario describes the purpose of the exercices, while the objectives are listed and have bullet points.

#### Scenario

You will need to complete the following walkthrough and get it running on your tenant.

See https://docs.microsoft.com/en-us/azure/active-directory-b2c/active-directory-b2c-get-started-custom.<https://docs.microsoft.com/en-us/azure/active-directory-b2c/active-directory-b2c-get-started-custom>

We are using the **SocialAndLocalAccounts** SocialAndLocalAccounts starter pack. You can use the policies published here: https://github.com/beejones/RestApiDemoAzureFunctions/tree/master/DemoPolicies

<https://docs.microsoft.com/en-us/azure/active-directory-b2c/active-directory-b2c-get-started-custom>These policies need to be customized with your tenant id and applications.

<https://docs.microsoft.com/en-us/azure/active-directory-b2c/active-directory-b2c-get-started-custom>

# Exercise 1: Add AzureFunctions-ValidateClaims as Validation Technical Profile

Each exercise consists of a scenario and learning objectives, the scenario describes the purpose of the exercices, while the objectives are listed and have bullet points.

#### Scenario

By adding the new claims provider REST APIs:

<ClaimsProvider>  
 <DisplayName>REST APIs</DisplayName>  
 <TechnicalProfiles>   
 <TechnicalProfile Id="AzureFunctions-ValidateClaims">  
 <DisplayName>Validate claims</DisplayName>  
 <Protocol Name="Proprietary" Handler="Web.TPEngine.Providers.RestfulProvider, Web.TPEngine, Version=1.0.0.0, Culture=neutral, PublicKeyToken=null" />  
 <Metadata>  
 <Item Key="ServiceUrl">https://restapidemoazurefunctions.azurewebsites.net/api/ValidateClaims?code=PG4IzZWG/JMinD/RgUf4US7M0Xl0DaQa0ULkqOI4b/IPT7WKjLYbAQ==</Item>  
 <Item Key="AuthenticationType">None</Item>  
 <Item Key="SendClaimsIn">Body</Item>  
 </Metadata>  
 <InputClaims>  
 <InputClaim ClaimTypeReferenceId="givenName"/>  
 <InputClaim ClaimTypeReferenceId="surName" />  
 </InputClaims>  
 <UseTechnicalProfileForSessionManagement ReferenceId="SM-Noop" />  
</TechnicalProfile>

</TechnicalProfiles>

</ClaimsProvider>

This REST API validates the input clains givenName and surName.

In order to integrate this validation into the user journey we need to add an addition claims provider which is extending LocalAccountSignUpWithLogonEmail with a validation technical profile responsible for calling the ValidateClaims REST API.

<ClaimsProvider>  
 <DisplayName>Local Account SignIn</DisplayName>  
 <TechnicalProfiles>  
 <TechnicalProfile Id="LocalAccountSignUpWithLogonEmail">  
 <ValidationTechnicalProfiles>  
 <ValidationTechnicalProfile ReferenceId="AzureFunctions-ValidateClaims" />  
 </ValidationTechnicalProfiles>  
 </TechnicalProfile>  
</TechnicalProfiles>  
</ClaimsProvider>

# Exercise 2: Add AddClaims REST API

Each exercise consists of a scenario and learning objectives, the scenario describes the purpose of the exercices, while the objectives are listed and have bullet points.

#### Scenario

We will add a new claims exchange to the user journey. This claims exchange will call the AddClaims REST API to collect additional claims about the user.

Add the following technical profile to the REST APIs claims provider.

<TechnicalProfile Id="AzureFunctions-AddClaims">  
 <DisplayName>Add claims</DisplayName>  
 <Protocol Name="Proprietary" Handler="Web.TPEngine.Providers.RestfulProvider, Web.TPEngine, Version=1.0.0.0, Culture=neutral, PublicKeyToken=null" />  
 <Metadata>  
 <Item Key="ServiceUrl">https://restapidemoazurefunctions.azurewebsites.net/api/AddClaims?code=1W/yRjI4dyQ6dIAoJ2Nhlj4QmjUhnFVqF9DaAyzYPh4aVxLCUSx72w==</Item>  
 <Item Key="AuthenticationType">Basic</Item>  
 <Item Key="SendClaimsIn">Body</Item>  
 </Metadata>  
 <CryptographicKeys>  
 <Key Id="BasicAuthenticationUsername" StorageReferenceId="B2C\_1A\_RestClientId" />  
 <Key Id="BasicAuthenticationPassword" StorageReferenceId="B2C\_1A\_RestClientSecret" />  
 </CryptographicKeys>  
 <InputClaims>  
 <InputClaim ClaimTypeReferenceId="givenName" />  
 <InputClaim ClaimTypeReferenceId="surName" />  
 </InputClaims>  
 <OutputClaims>  
 <OutputClaim ClaimTypeReferenceId="city" />  
 <OutputClaim ClaimTypeReferenceId="profession" />  
 </OutputClaims>  
 <UseTechnicalProfileForSessionManagement ReferenceId="SM-Noop" />  
</TechnicalProfile>

For this to work you also need the add the building blocks (see B2C\_1A\_TRUSTFRAMEWORKEXTENSIONS). These settings extend the claims schema with two new claims used as output claims of the new AddClaims REST API. These claims are city and profession.

Go to Policy Keys in the B2C extension on the azure portal and add two keys:

B2C\_1A\_RestClientId

B2C\_1A\_RestClientSecret

Both key are fixed. So do Add manual and use these values:

12345678 for B2C\_1A\_RestClientId

Abcdefg for B2C\_1A\_RestClientSecret

Next add the SignUpOrSignInDemo user journey as found in B2C\_1A\_TRUSTFRAMEWORKEXTENSIONS. This adds an additional claims exchange which calls the AddClaims API to collect two new claims.