**WSO2 Setup and use case document**

1. **Setup WSO2 On windows With H2 Database**

* Downlaod the WSO2 Identity Server Setup.
* Install the WSO2 Identity Server using the msi setup downloaded.
* Goto the installation directory of the WSO2 Identity Server and create the directory "tmp" e.g "C:\Program Files\WSO2\Identity Server\5.6.0\tmp"
* Open command prompt and navigate to the bin directory of WSO Identity server e.g "C:\Program Files\WSO2\Identity Server\5.6.0\bin"
* Execute the bat file "wso2server.bat"

1. **Self Register User using admin user name as password as authentication**

* Start the WSO2 Identity Server.
* Open browser and Navigate to the WSO2 Identity servier console. "https://localhost:9443/carbon/" and login with admin/admin
* Navigate to menu "Main -> Identity Providers -> Resident -> Account management Policies -> User Self Registration" and select "Enable Self User Registration" check box.. and save changes
* Use the Authorization Header with basic token as "Authorization: Basic YWRtaW46YWRtaW4=" to indicate basic authentication with user name and password as "admin"
* Invoke the rest call like
* curl -X POST -H "Authorization: Basic YWRtaW46YWRtaW4=" -H "Content-Type: application/json" -d '{"user": {"username": "kim","realm": "PRIMARY", "password": "Password1!","claims": [{"uri": "http://wso2.org/claims/givenname","value": "kim" },{"uri": "http://wso2.org/claims/emailaddress","value": "kim.anderson@gmail.com"},{"uri": "http://wso2.org/claims/lastname","value": "Anderson"},{"uri": "http://wso2.org/claims/mobile","value": "+947721584558"} ] },"properties": []}' "https://localhost:9443/api/identity/user/v1.0/me"
* Response should be 201 Created

1. **Self-Register User using Service provider**
2. **Create Service Provider**

* Start the WSO2 Identity Server.
* Open browser and Navigate to the WSO2 Identity servier console. "https://localhost:9443/carbon/" and login with admin/admin
* Navigate to menu "Main -> Identity Providers -> Resident -> Account management Policies -> User Self Registration" and select "Enable Self User Registration" check box. and save changes
* Navigate to menu "Main -> Service Providers -> Add"

Provide a name (e.g TestCreateUser) and register

* Navigate to menu "Main -> service Providers -> List -> {TestCreate User} -> Edit -> Inbound Authentication Configuration -> OAuth/OpenID Connect Configuration -> Configure"
* Provide a "Callback url" (e.g. <http://localhost:8080/my-callbackurl>).
* Note the "OAuth Client Key" and "OAuth Client Server" values. These will be used to get the token form the server to make API calls.

1. **Make API Call to self-register user.**

* Obtain "Access Token" using the following values

"OAuth2 Flow" = "Client Credentials Grant"

"Client Identification" = {OAuth Client Key}

"Client Secret" = [OAuth Client Secret]

"Access Token URL" = <https://localhost:9443/oauth2/token>

* Use the Authorization header with bearer token as Obtained in previous step like "Authorization: Bearer 20864a8a-12ed-3c89-be95-1fe090fd1544" to indicate OAuth token for the application.

Invoke the rest call like

curl -X POST -H "Authorization: Bearer 20864a8a-12ed-3c89-be95-1fe090fd1544" -H "Content-Type: application/json" -d '{"user": {"username": "kim","realm": "PRIMARY", "password": "Password1!","claims": [{"uri": "http://wso2.org/claims/givenname","value": "kim" },{"uri": "http://wso2.org/claims/emailaddress","value": "kim.anderson@gmail.com"},{"uri": "http://wso2.org/claims/lastname","value": "Anderson"},{"uri": "http://wso2.org/claims/mobile","value": "+947721584558"} ] },"properties": []}' <https://localhost:9443/api/identity/user/v1.0/me>

* Response should be 201 Created.

1. **Facebook Integration with Travelocity Example provided by WSO2**

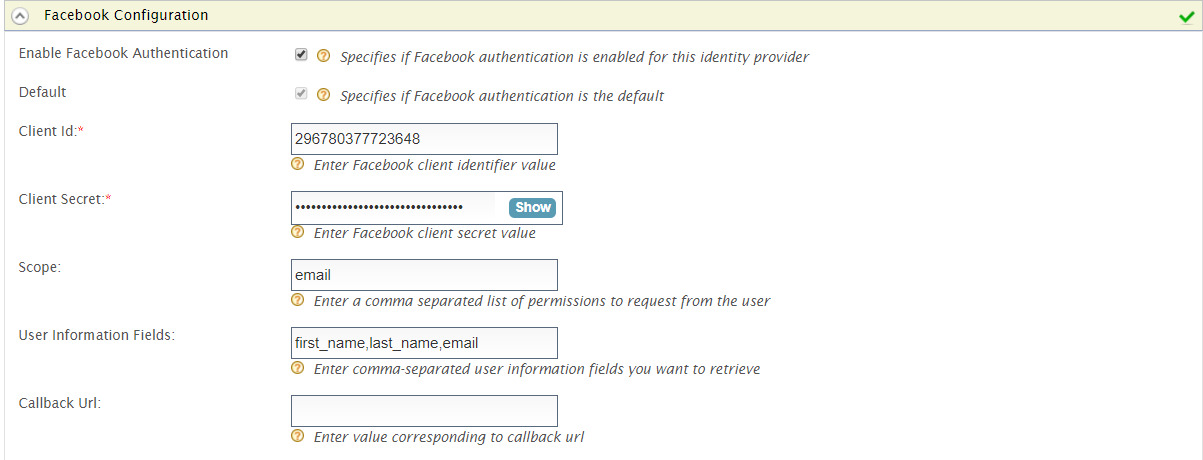
* Download sample code and build locally from here

<https://docs.wso2.com/display/ISCONNECTORS/Deploying+the+Sample+App>

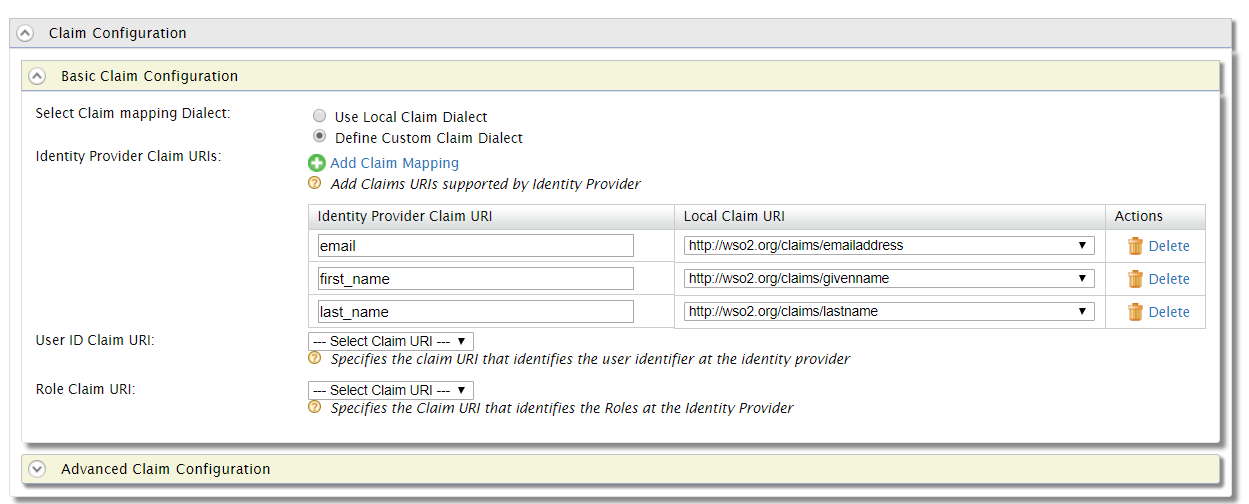
Follow example path on, ../product-is-master/modules/samples/sso

Before moving to the example please register app on facebook

* Log in to https://localhost:9443/carbon with admin/admin
* Go to Main tab, Add Identity provider
* Identity provider name : FacebookIdp
* select Federated Authenticators -> Facebook Configuration



* Then register/update to save the configuration
* Again go to Identity provider list and edit FacebookIdp to add claim details, Click on claim Configuration -> Basic Claim Configuration, and add details as shown in the screenshot, then update the configuration.



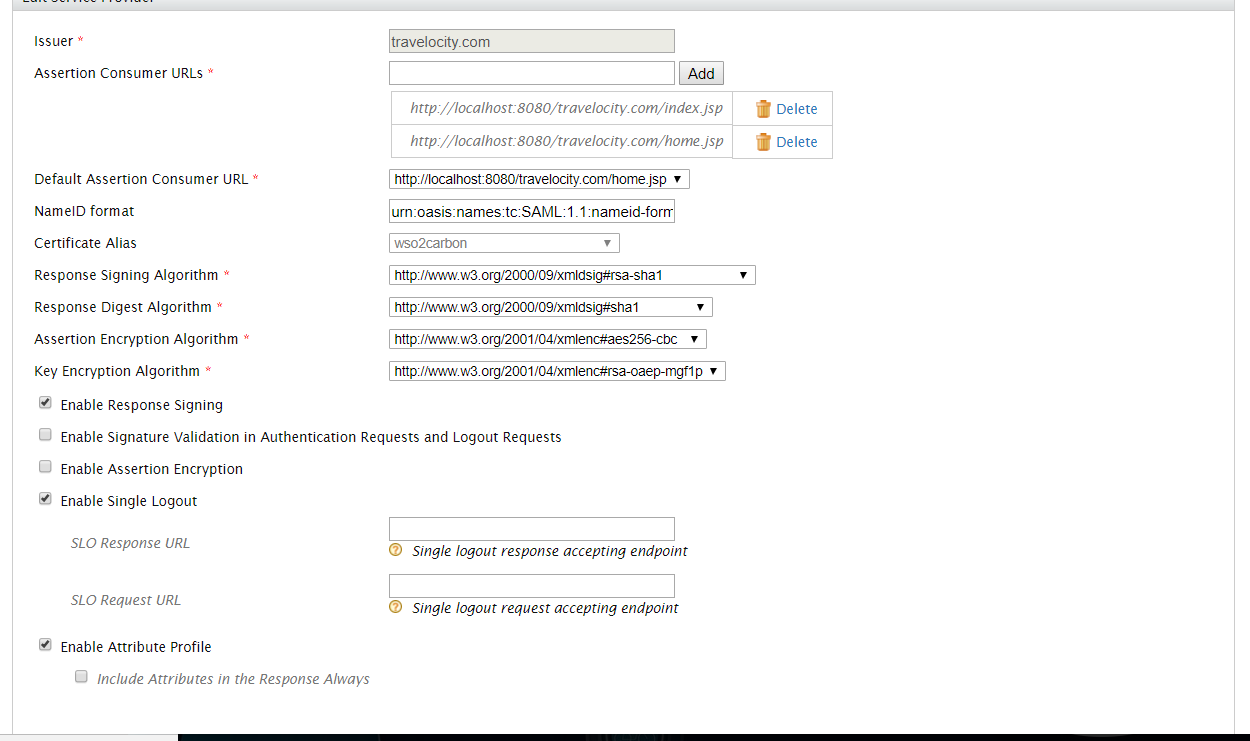
* Add Service provider
* Add service provider name as travelocity.com, do not change the name to execute the example.

Then Go to

Inbound Authentication Configuration -> SAML2 Web SSO Configuration ->Configure

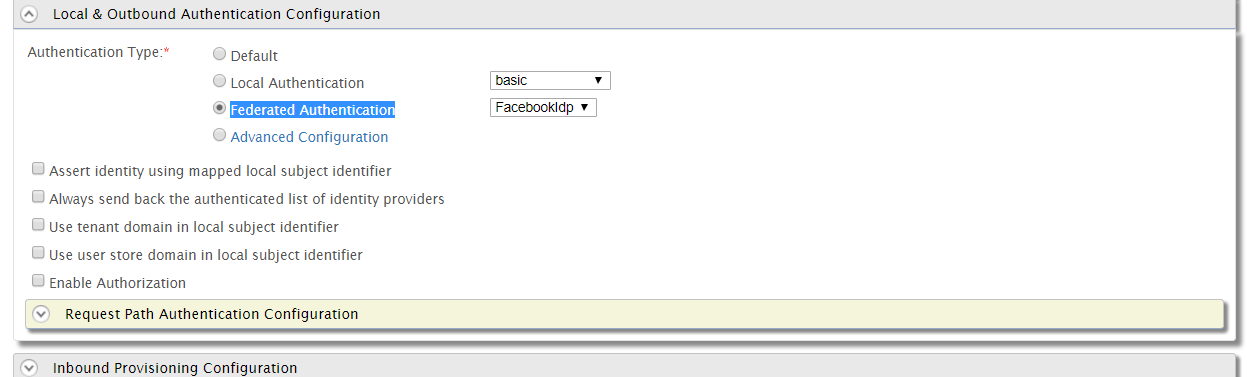
Follow screenshot for fill up the details, fill exact details to run travelocity example from WSO2

Then update/register to save configuration.



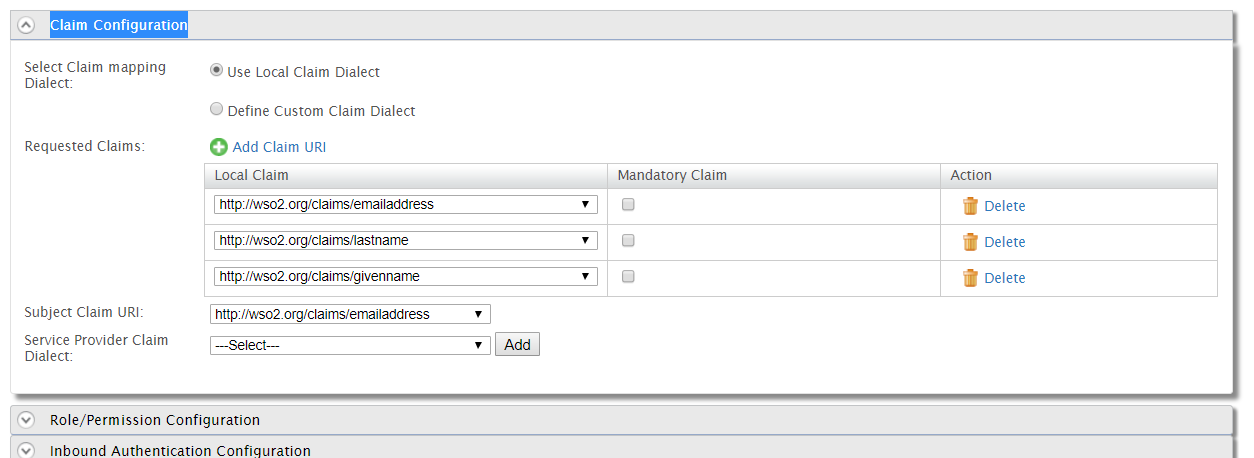
* Then Again edit Service provider travelocity.com

Go to Local & Outbound Authentication Configuration -> Select Federated Authentication as third party login with FacebookIdp as values



* Configure the claim provided from FB login

Go to Claim Configuration, follow below screenshot to fill up data.



* Press update button to save configuration.
* Now , configuration part is done.
* Now Put the war file in Apache -> Webapp folder and start the server
* Go to browser <http://localhost:8080/travelocity.com/index.jsp>
* References:

<http://nadeeshameegoda.blogspot.com/>