# Single Sign-On (SSO) - OIDC

## Introduction:

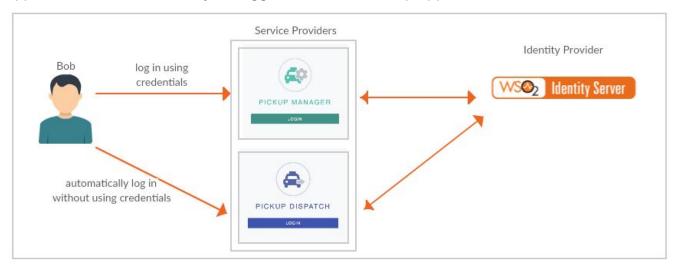
**Pickup** is a cab company that has many employees and different internal enterprise applications. Following are two such applications:

- **Pickup Dispatch**: This application helps manage the overall operations at Pickup.
- Pickup Manager: This application helps allocate vehicles to drivers.

Pickup is using **WSO2 Identity Server** as the identity provider for their applications.

Bob is a Pickup employee who usually forgets application passwords. As a result, Bob uses the same credentials for all the Pickup applications. However, due to busy schedules, Bob does not like entering the credentials at every login. So, WSO2 Identity Server team suggested Bob to use Single Sign-On (SSO).

With SSO, Bob only needs to provide the login credentials to one Pickup application and automatically be logged in to other Pickup applications.



# Setting up:

Let's learn how to configure OIDC-based SSO in WSO2 Identity Server:

### Before you begin

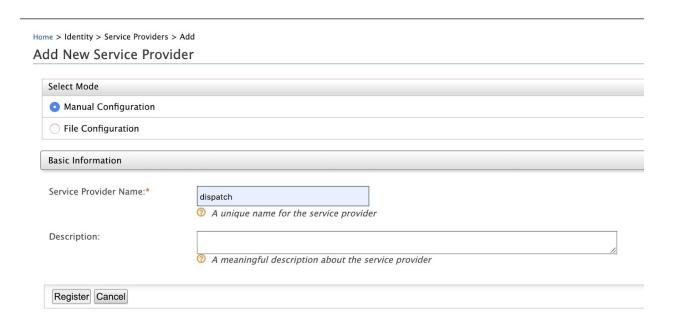
- 1. Download the latest version of WSO2 Identity Server from the web site.
- 2. Navigate to <IS\_HOME>/bin and start the server by executing either of the following, ./wso2server.sh or ./wso2server.bat run
- 3. Download and install Apache Tomcat version < tomcat8\*> or above.
- 4. Open the /etc/hosts file (c:\Windows\System32\Drivers\etc\hosts in windows) and add the following entry.

#### 127.0.0.1 localhost.com

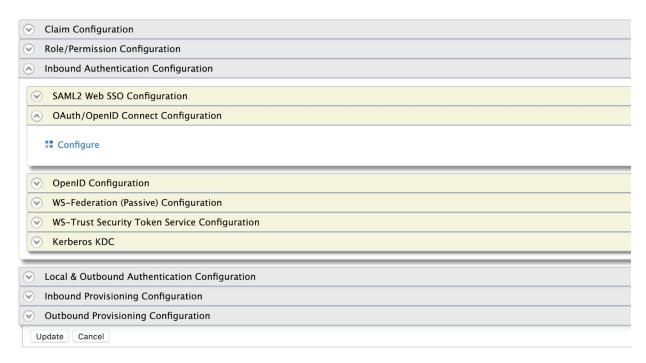
- **5.** Access the WSO2 Identity Server Management Console at <a href="https://localhost.com:9443/carbon">https://localhost.com:9443/carbon</a> and login with admin:admin credentials.
- 6. To create a service provider for the Pickup Dispatch application:
  - a. On the Main tab, click Identity > Service Providers > Add



b. Enter the Service Provider Name as dispatch.

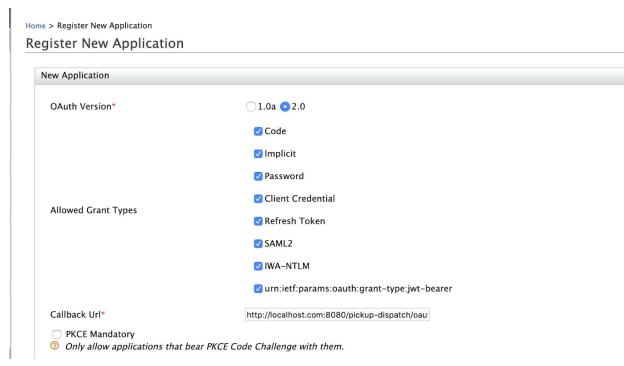


- c. Click Register.
- d. In the **Inbound Authentication** section, click **OAuth/OpenID Connect Configuration**.

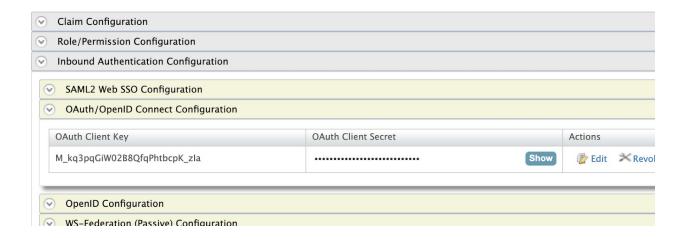


e. Enter the Callback URL as <a href="http://localbost.com:8080/pickup-dispatch/oauth2client">http://localbost.com:8080/pickup-dispatch/oauth2client</a>.

(info) The callback URL is the service provider's URL to which the authorization codes are sent. Upon successful authentication, the browser should be redirected to this URL.



f. Click Add. Note that a client key and client secret have been created.



7. Similarly, create a service provider for the Pickup Manager application with the following:

- Service Provider Name: manager
- Callback URL:

http://localhost.com:8080/pickup-manager/oauth2client

- 8. To create the application user:
  - a. On the Main tab, click Identity > Users and Roles > Add.



b. Click Add New User.

Home > Identity > Users and Roles > Add

### Add Users and Roles



c. Enter the account details as follows.

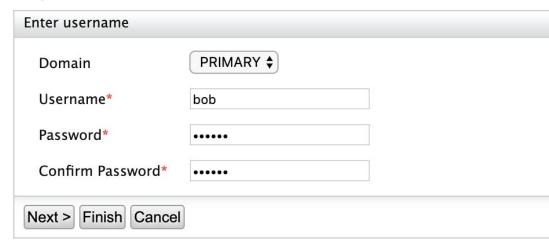
■ **Domain**: Select the user store in which you want to create the user.

Username: bobPassword: bob123

Home > Add User

### Add New User

# Step 1: Enter Username and Password



- d. Click Next.
- e. Select Application/dispatch and Application/manager user roles.

tep 2: Select Roles of the	User	
inter Role Name Pattern (* for all)	*	Search Roles
Users of Role		
OSCIS OF ROLE		
Select all on this page   Unselect a	all on this page	
	all on this page	
Select all on this page   Unselect a	all on this page	
Select all on this page   Unselect a	all on this page	
Select all on this page   Unselect all on this page   Unse	all on this page	

Click Finish.

- 9. Get the two war files <u>pickup-dispatch.war</u> and <u>pickup-manager.war</u> from the repo and deploy them in the tomcat.
- 10. Edit the dispatch.properties file in (pickup-dispatch -> WEB-INF -> classes) with the copied client\_id and secret in step 6 above.
- 11. Similarly edit the manager.properties file in (pickup-manager -> WEB\_INF -> classes) with the copied client\_id and secret in Step 7 above.
  - 12. Restart the tomcat server.

# Try It:

Follow the steps below to try out the sample applications:

- To access the Pickup Dispatch application, go to the following URL: http://<TOMCAT\_HOST>:<TOMCAT:PORT>/pickup-dispatch, e.g., http://localhost.com:8080/pickup-dispatch and sign in using Bob's credentials.
- To access the Pickup Manager application, go to the following URL: http://<TOMCAT\_HOST>:<TOMCAT\_PORT>/pickup-manager, e.g., http://localhost.com:8080/pickup-manager. Note that Bob is Bob is automatically logged in to the Pickup Manager application.

You have successfully configured OIDC-based SSO using WSO2 Identity Server as the identity provider.