PASOE Server Configuration and Servers view representation

Progress Application Server for OpenEdge, or PAS for OpenEdge, is a robust web server that is tailored specifically for OpenEdge ABL web applications. Progress Developer Studio for OpenEdge bundles a PAS for OpenEdge development license so that you can create PAS for OpenEdge instances and test ABL web applications on those instances.

In this video, you will create a new PAS for OpenEdge instance and then add that instance to the Servers view in Developer Studio so that you can deploy and test your own ABL web applications.
While a default instance is included with Developer Studio, you will want to connect to an instance that you create. Typically, your system administrator will create the instance using OpenEdge Management or command line utilities. For this video we'll use the command line utility, pasman, to create a new instance.

1. Open **proenv** as Administrator and change the directory to **C:\OpenEdge\WRK117.**
2. Type **`pasman create -p 8820 -P 8821 -s 8829 -f oepas2`** and press **Enter**. The **- p is the http port**, **-P is https** port number and **-s is the shut-down** port number. Always check that these ports are available for use. The **-f** option copies all deployed web applications including **manager.war, oemanager.war** and **oedbg.war**.

When you deploy an ABL WebApp from within Developer Studio, the following 4 tier structure is created.

An **instance**, can have one or more **ABL Apps**. Each **ABL App** can have one or more **WebApps.** Each WebApp, has different services, like REST or WEB.

The **Servers** view shows the structure as 2 nodes, a Server node and a Leaf node. Server node is a combination of the Instance name and ABL app name. Leaf node represents services under each ABL WebApp.
Let's deploy an **ABL WebApp** to a specific **ABLApp**. We deploy the **SportsApp.war** to ABLApp.

To deploy, open **proenv** and type the following command.
(**`oepas2\bin\tcman.bat deploy SportsApp.war ABLApp`**

Note: ABL app logically separates your WebApps. If you need a custom PROPATH, Session manager and/or databases for your WebApps, you can create a new ABL app.
Once everything is done, you need to add the server in the **Servers** view of Developer Studio. To do that, **right-click** on the **Servers** view and click **New → Server**.
Select **Progress Application Server for OpenEdge** in the **Define a New Server** window and click **Next**.
In the **Define a New Progress Application Server for OpenEdge** window, select the **new server** from the **Progress Application Server for OpenEdge** drop-down list.

In the **ABL Application** drop-down list, you can view the new **ABL app**.

Click **Finish**.

The new instance is added in the **Servers** view.

Note: If the new server or ABL Application is not available, click the refresh icon to update the list.
To view the instance, ABL app, WebApp and its respective services, **right-click** on the server, click **Add and Remove**. From the Add and Remove window, click **Add All.** All the available services will be added to the SportsApp WebApp. Click **Finish**. In the Servers view, click the arrow beside the instance. The ABLapp, the Instance, the WebApp and all the Services will be visible.
Your applications will likely require a specific PROPATH and/or database connection. We configure those using the **Database** and **Propath** settings in **Server Launch Configuration** so the instance will have the right settings upon starting.

To change those settings, select your instance from the **Servers** view. Click **Run** from the main menu and select **Run Configurations.**

The **Run Configurations** window is displayed.
Select your instance, under the **Progress Application Server for OpenEdge,** from the left pane.
Select the **Database** tab and click on the **Show all** radio button to display all the available database connections.
Select the connection which you want to associate by **clicking the check-box**. Then click **Apply**.
If your deployed application needs to access some files outside of the server's PROPATH then you need to add those entries in the server's PROPATH. Click Close to go back to the Developer Studio.

And note that once we change anything in server's PROPATH or database connections, the server must be restarted to apply those changes.

Your server instance is now available in the **Servers** view for you to deploy and test your Web Applications from within Developer Studio. This completes our look at the Adding a PAS for OpenEdge instance to the Servers view in Developer Studio including customizing the PROPATH and database connections for the instance.