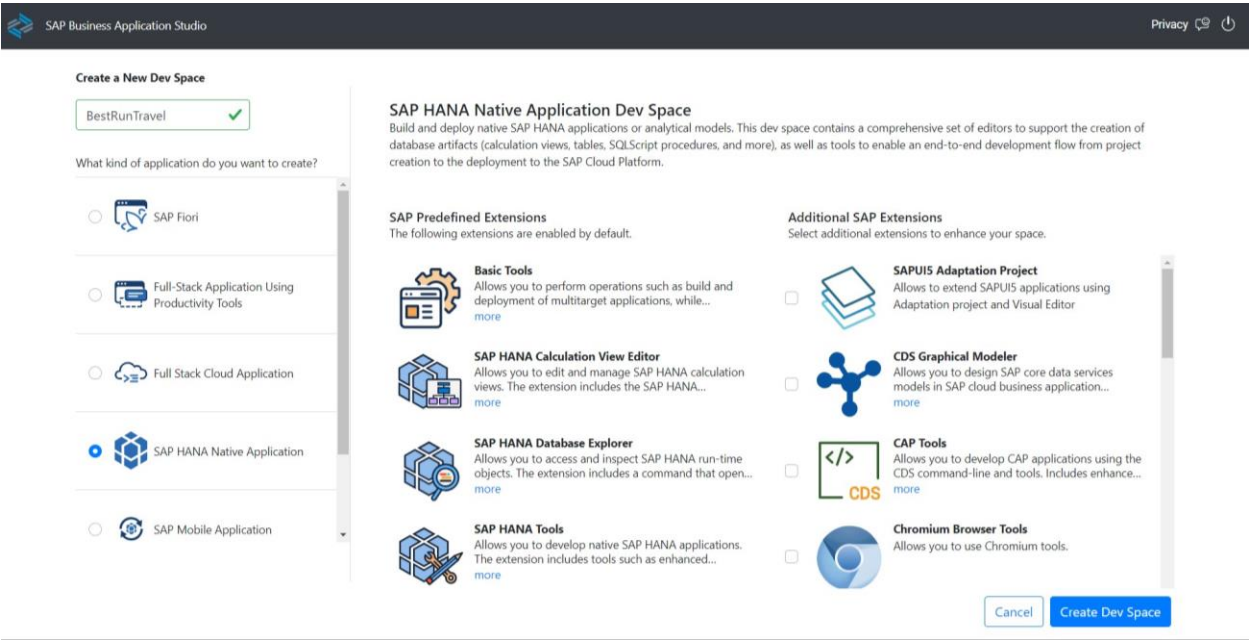


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Getting Started with SAP HANA Cloud

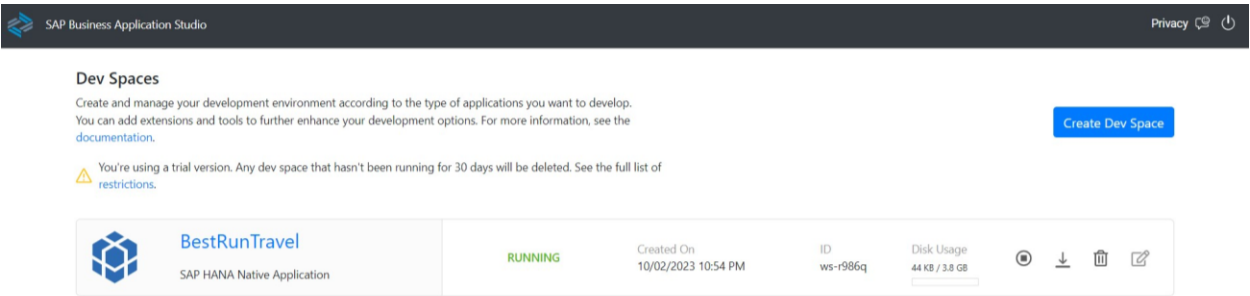
6. Modul 6 : Setting up your first HANA project in SAP Business Application Studio
- Create your development space

You need to open Business Application Studio, and then click on Create Dev Space. Give your development space a name. Under the name, you need to choose the kind of application you will create. To use SAP HANA tools, such as calculation views, please make sure to check SAP HANA Native Application in the list.



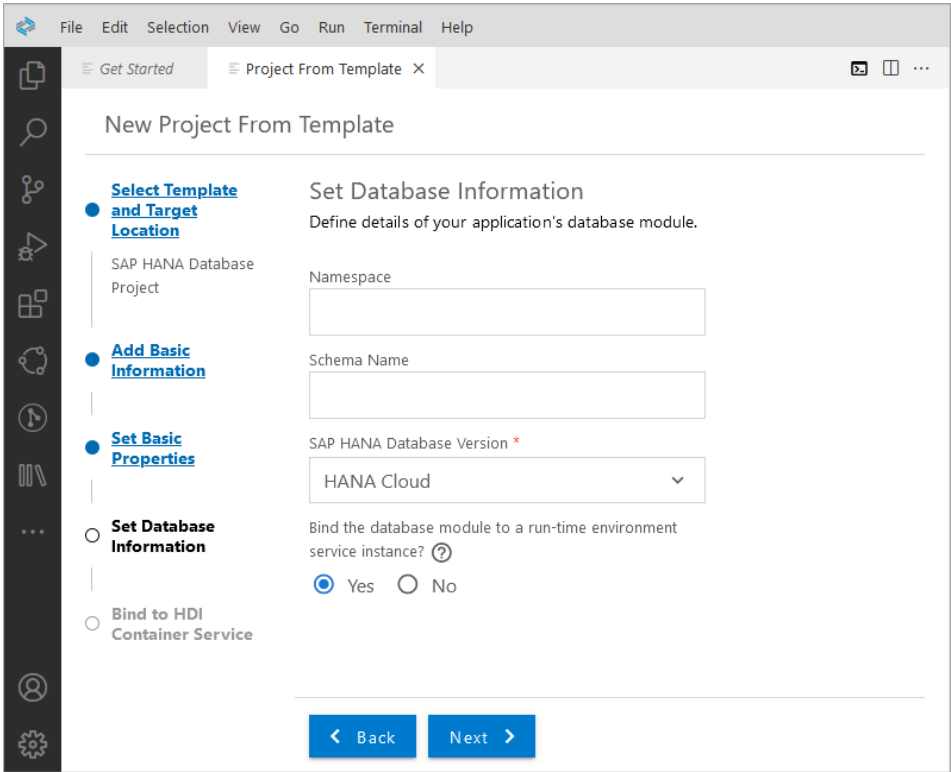
Then, click on Create Dev Space on the screen. You will return to the list of existing development spaces. Your newly created space is now on the list and you can see the status as Starting. This should take no more than a couple of minutes to start.

Once the status changes to Running, you can click on the name of the development space to open it.

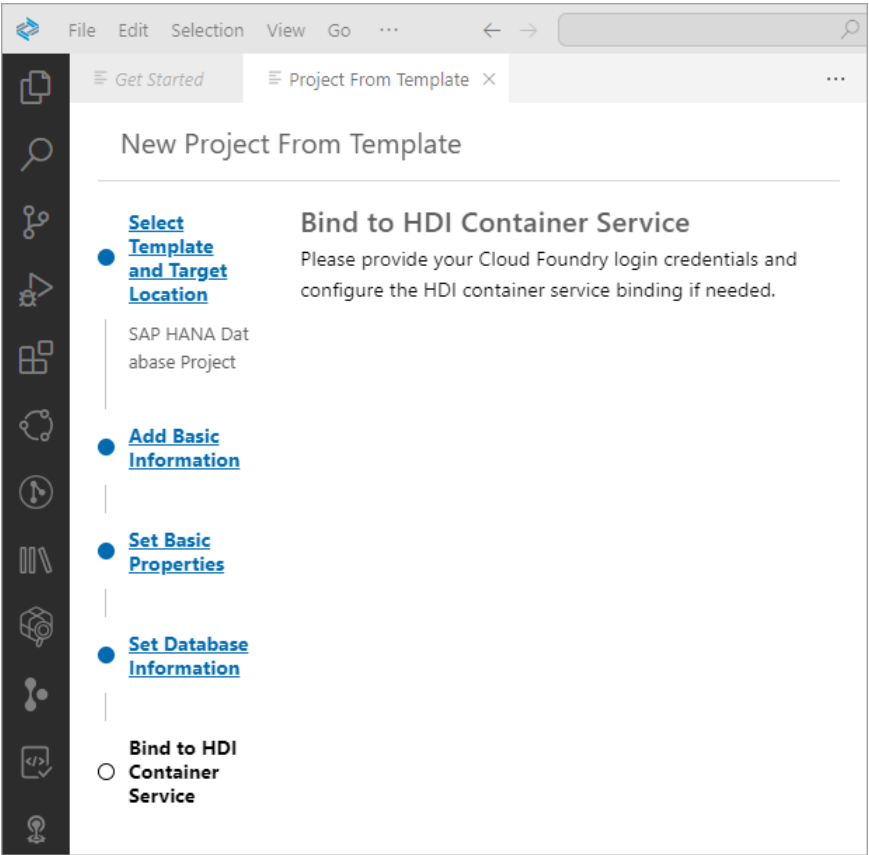


- Create your development project

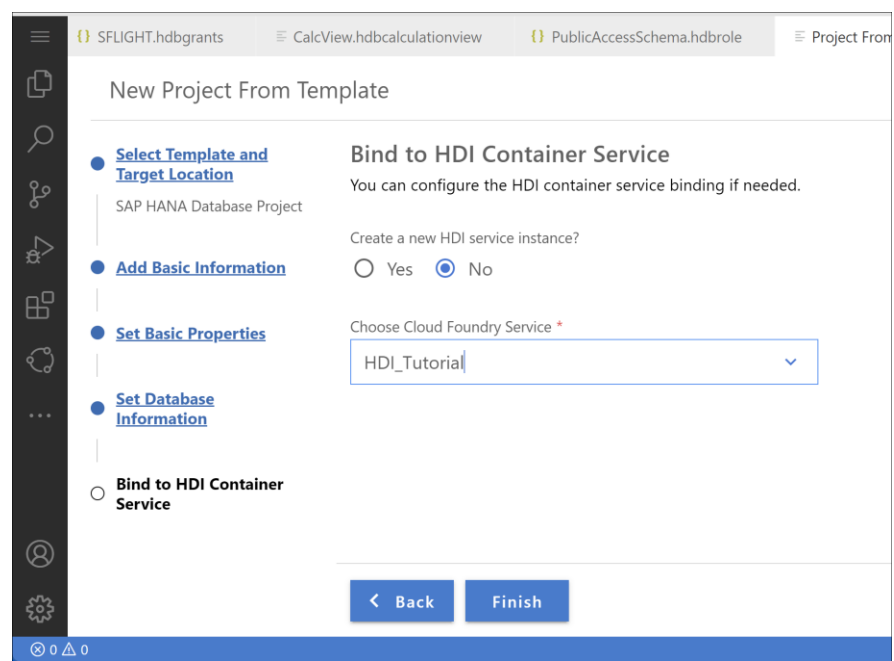
On the Get Started page, click on Start from template. Next, click on SAP HANA Database Project. Give your project a name, such as BestRunTravel, and then click on Next. The module name defaults to db. In the step Set Database Information, you can choose to determine a Namespace and a Schema Name.



Make sure the SAP HANA database version is set to HANA Cloud and Bind the database tutorial to a Cloud Foundry service instance is set to Yes. To bind your project to your SAP HANA Cloud, SAP HANA database, you must log on to Cloud Foundry. If you are not already logged into Cloud Foundry, a Cloud Foundry sign-in page will appear.

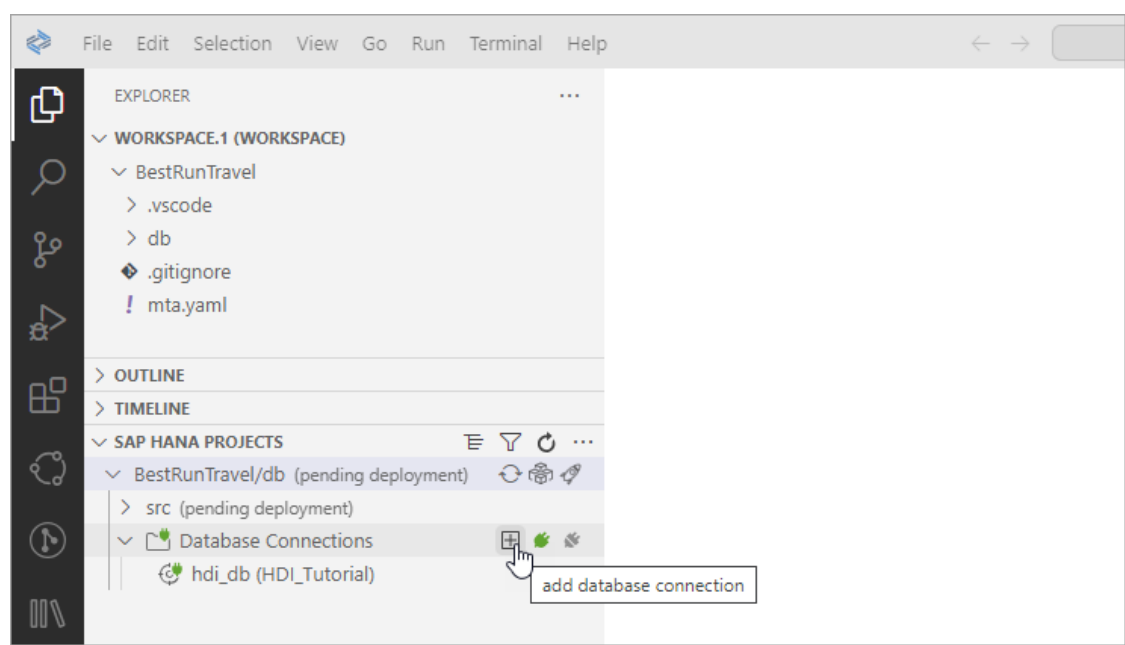


Under Create a new HDI service instance, select No. This will prompt you to choose a Cloud Foundry service. Select the HDI Container service you created earlier. Click on Finish to create the project. Your project will be generated, which takes a few minutes to complete.

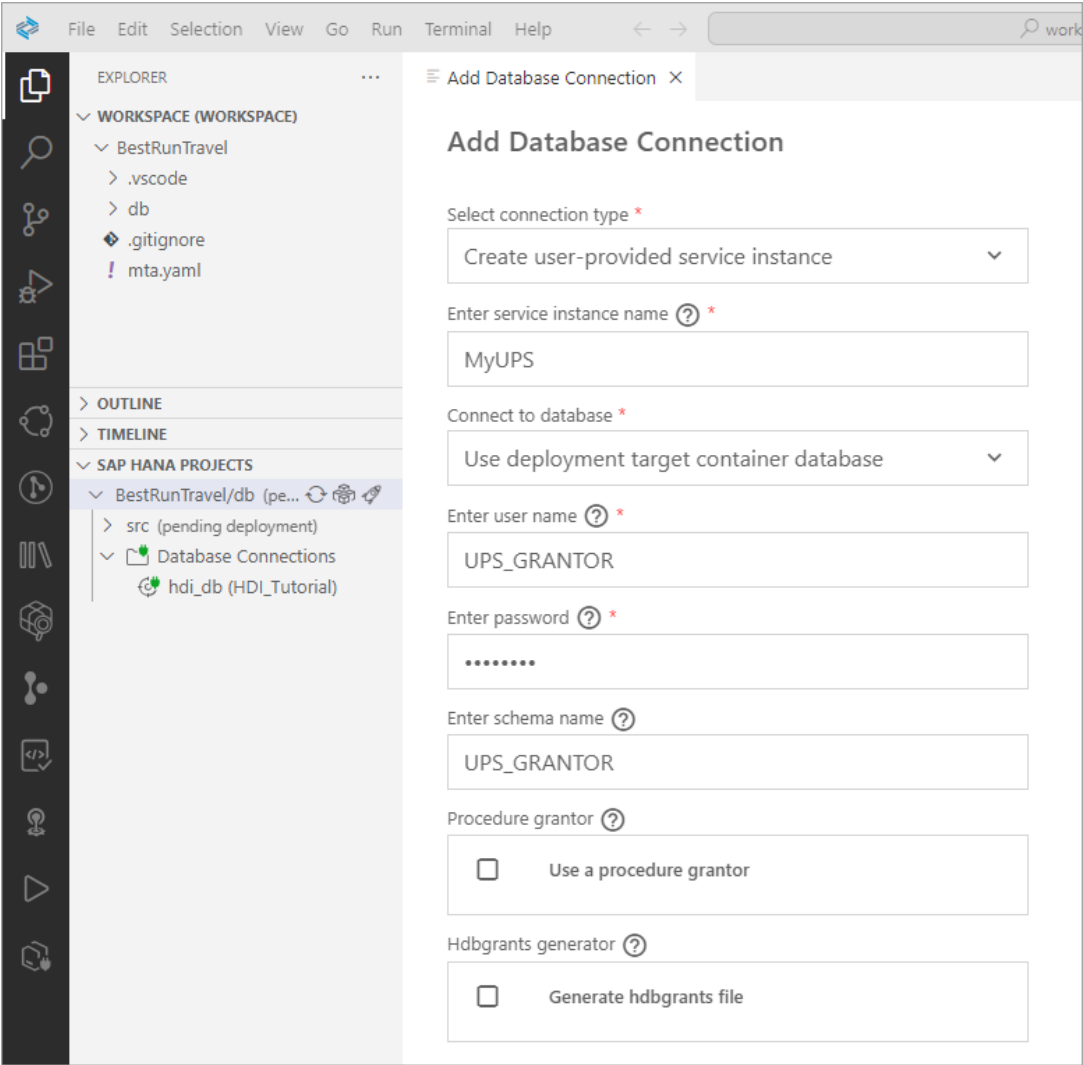


- Create a user-provided service

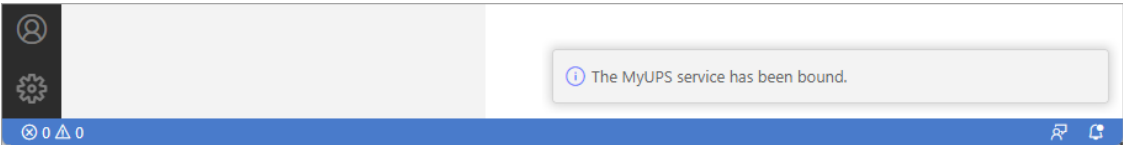
Your next step is to create a user-provided service, which will allow the project to access the data within the database. In the SAP HANA Projects panel, expand your project. Hover your cursor over the section Database Connections, and a plus icon will appear. This option allows you to add a new database connection. Click on the icon.



In the field Select connection type, choose the option Create user-provided service instance from the drop-down menu. Enter a name for your service and provide the user name and password for the `UPS_GRANTOR` user you previously created.

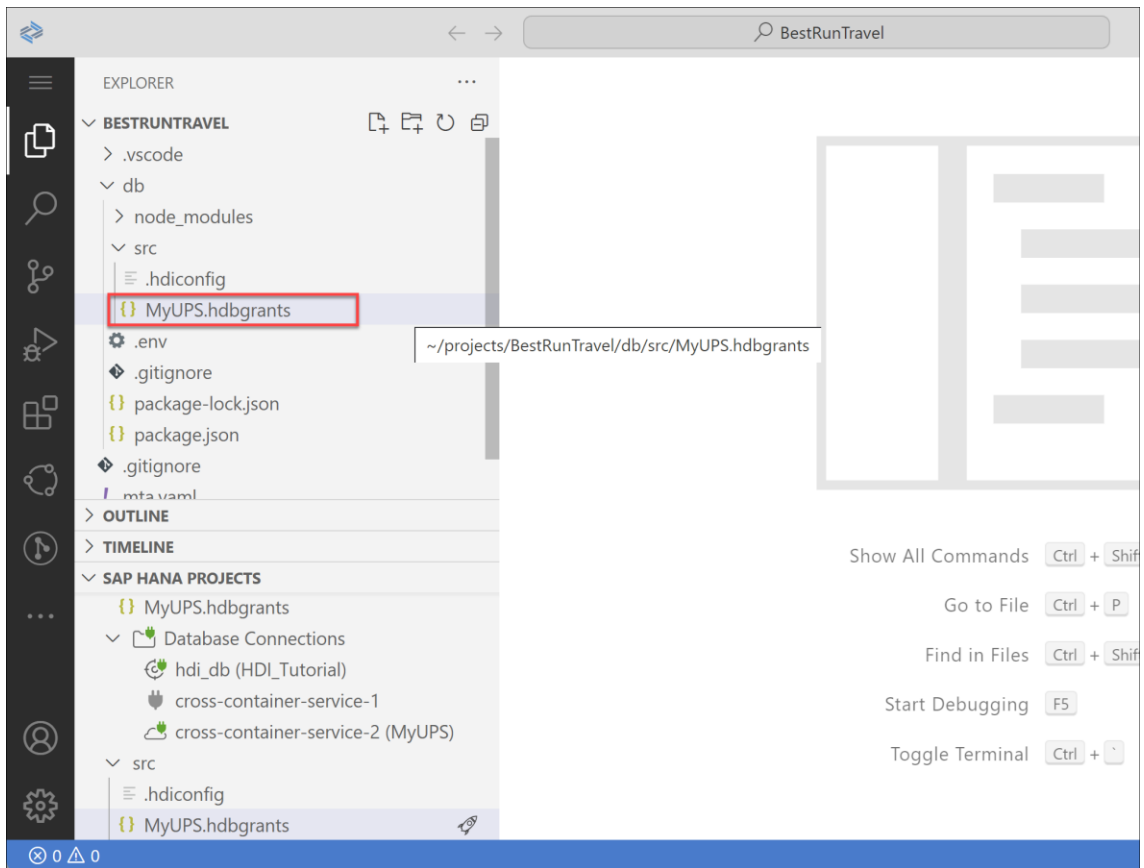


Select the `Generate hdbgrants file` checkbox. You will assign a set of privileges to many users directly from your project in an `.hdbgrants` file. This file will specify that the user-provided service will be used to grant the privileges entered in the `.hdbgrants` file in the connected database. Click on Add. The user-provided service will be created.



- Modify the hdbgrants file

In File explorer, open the `.hdbgrants` file. Here, you can see a template of all different types of privileges you could grant to different user groups. There is a dedicated section for object owner users and application users.



For the purposes of this tutorial, we would like to grant the roles we have previously created to object owners and application users. The object owner will be assigned the role `genericRoleForOO` and the application user the role `genericRoleForAP`.

To do so, replace the contents of the `hdbgrants` file with the following:

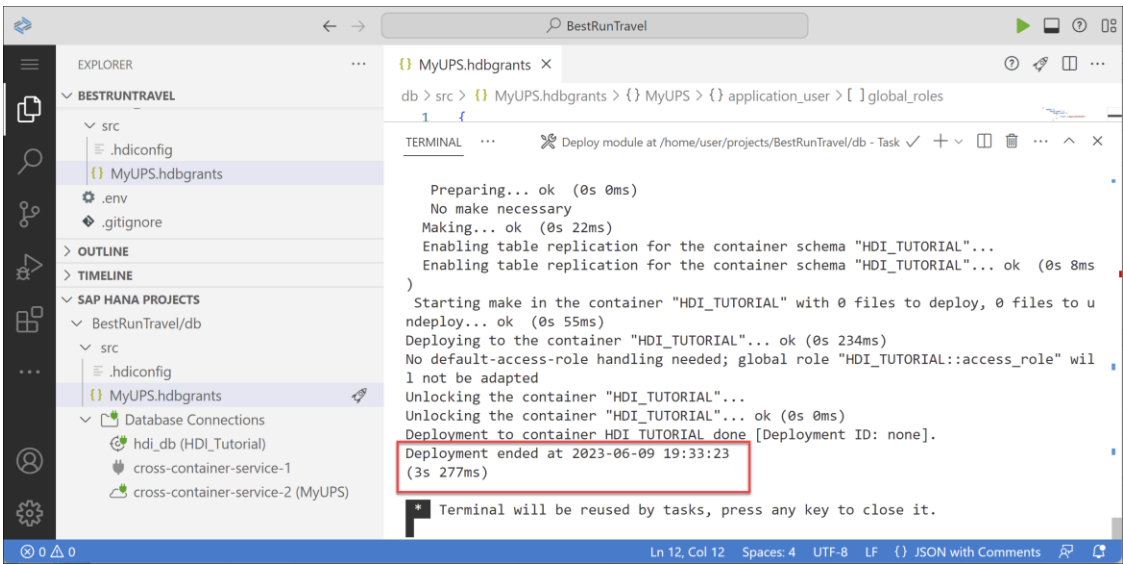
```

1  {
2      "MyUPS": {
3          "object_owner": {
4              "global_roles": [
5                  {
6                      "roles": ["genericRoleForOO"]
7                  }
8              ]
9          },
10         "application_user": {
11             "global_roles": [
12                 {
13                     "roles": ["genericRoleForAP"]
14                 }
15             ]
16         }
17     }
18 }
```

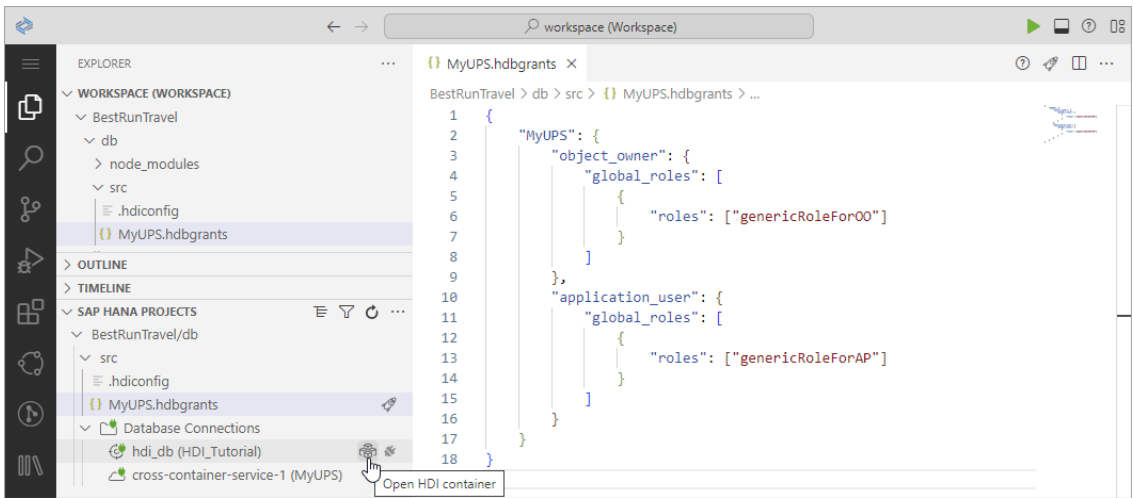
- Deploy your project

Now that the connection to your database is established and the grants file is created, you can deploy the project. Go to the lower left corner of the screen, where you can see the SAP HANA Projects pane. Next to your project name, you will see a small icon in the shape of a rocket. Click on it to deploy your project.

Once the deployment is successfully completed, you will see the completion message in the bottom area of your screen.



Open the HDI container in the SAP HANA database explorer.



Notice that you can now access the tables in the SFLIGHT schema from within the HDI container.

