# AMIS SIG – Low Code development with VBCS

September 2018

In this workshop you will experience Low Code development with Oracle Autonomous Visual Builder (Cloud Service). You will create a Business Object by simply dragging and dropping an Excel file. You will create an application with the created Business Object. You will explore the things VBCS creates for you. You will create an editable table, which requires just a bit of code.

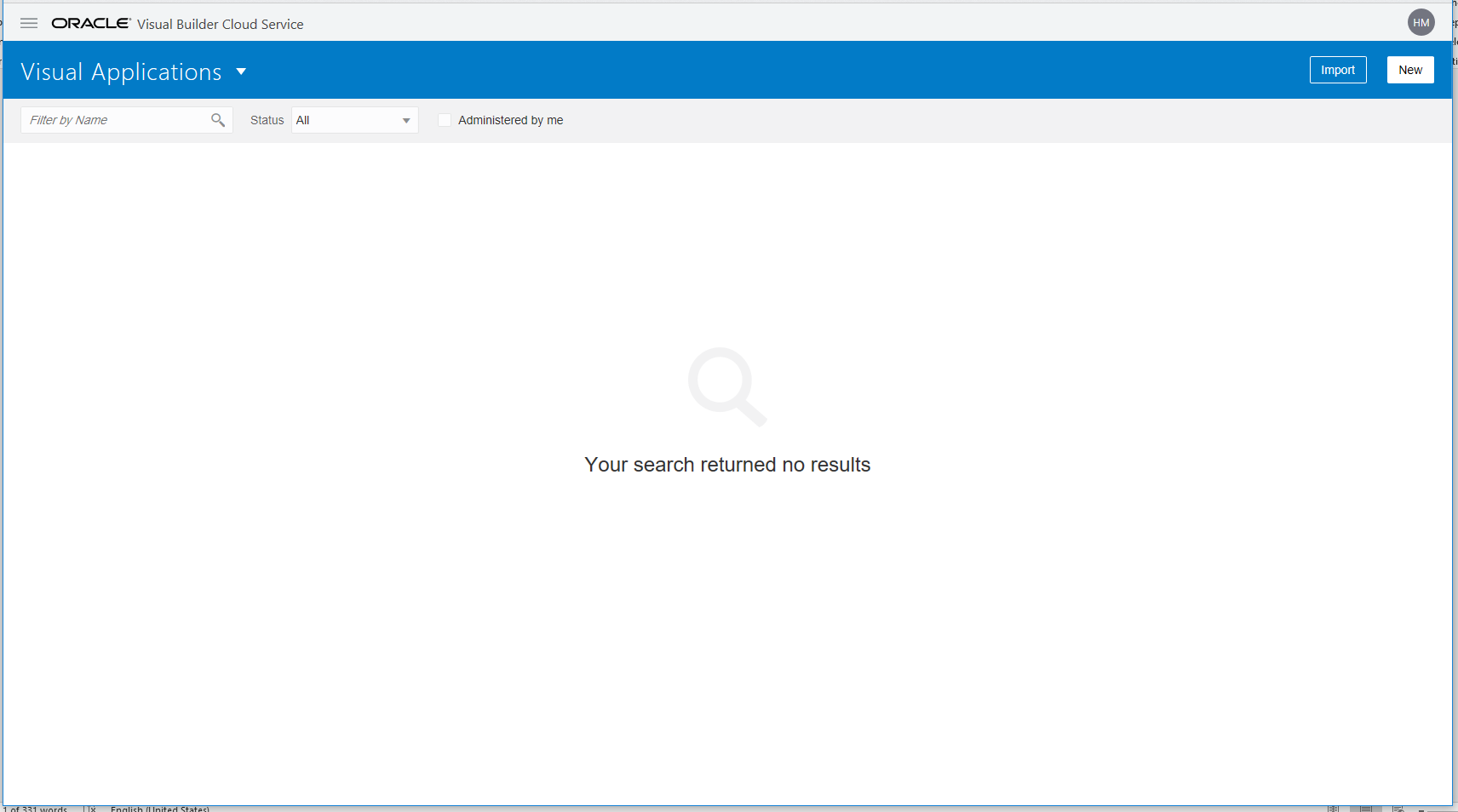
In this SIG you get a rough idea what VBCS can do and what it feels like. Hopefully it will make some of you curious!

Starting VBCS

In this SIG you can use the VBCS service already created. But there is no problem in creating your own trial via <https://myservices.us.oraclecloud.com/mycloud/signup>

<https://visualbuilderhmensingqsvb-hmensing.builder.ocp.oraclecloud.com/ic/builder/>

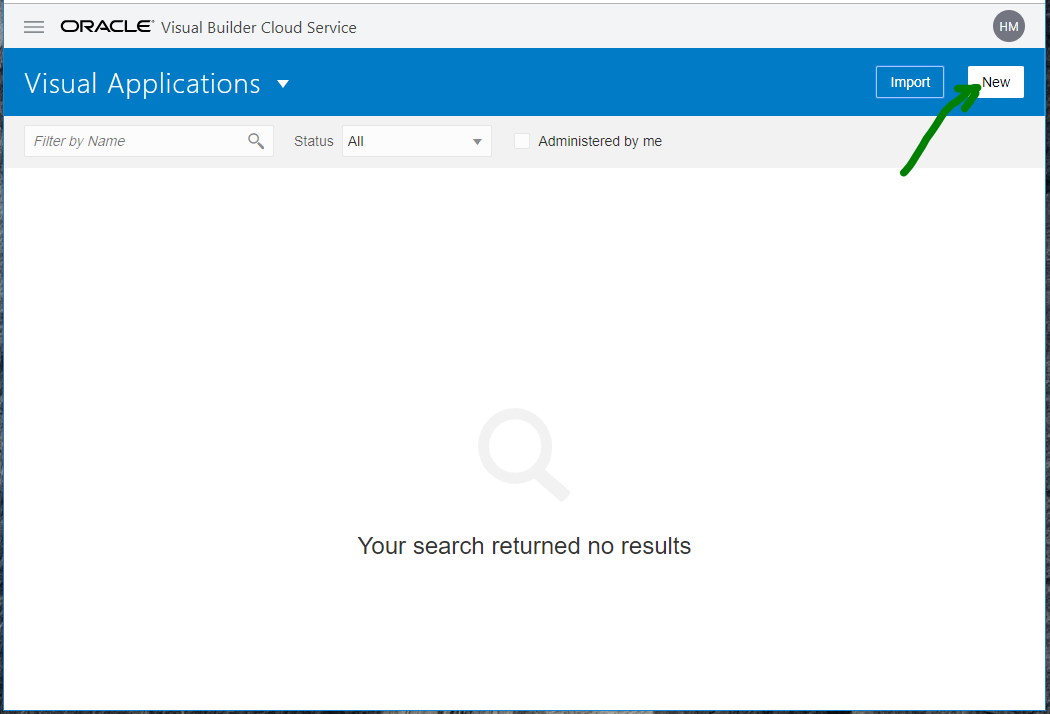
Users need to be created by me. After setting a password you should get this page.

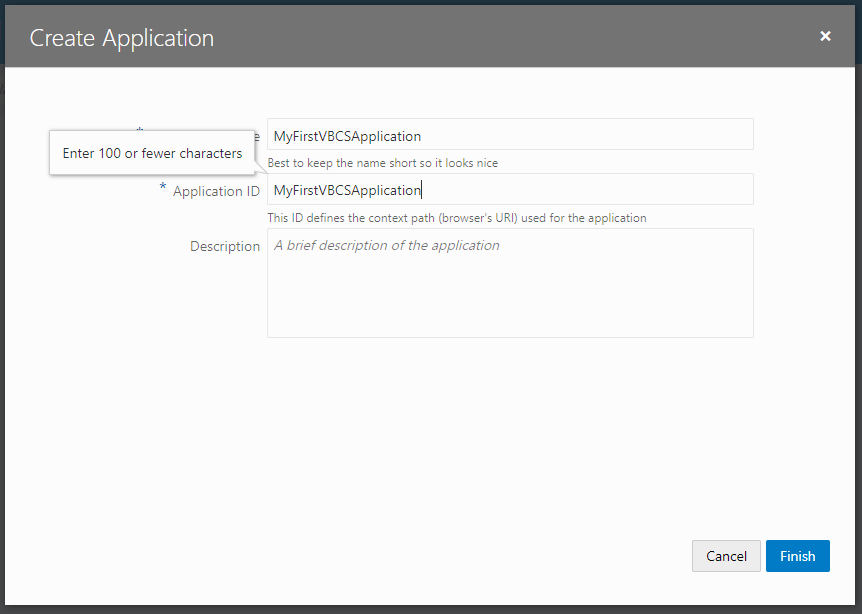


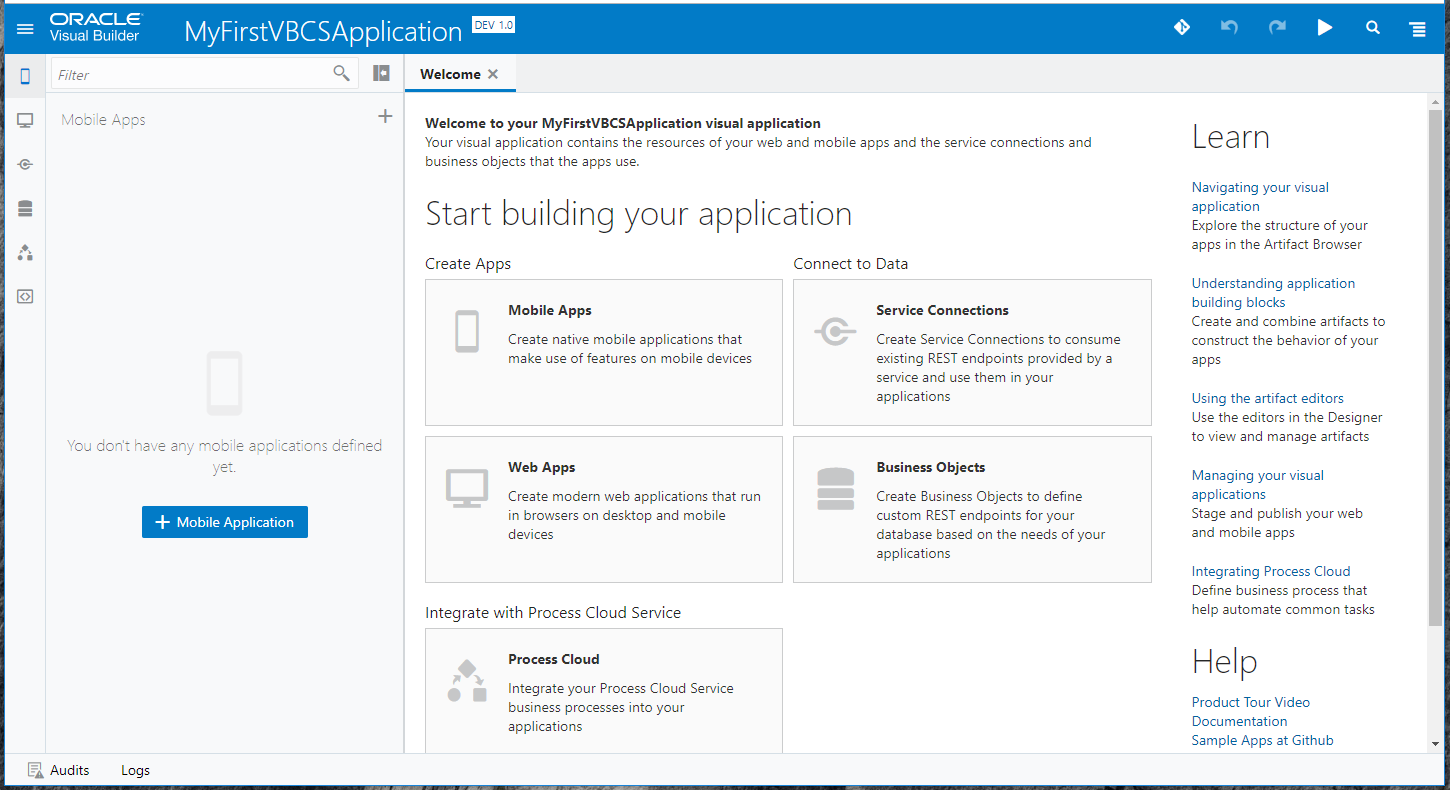
Any file needed for this SIG can be found in Github: https://github.com/AMIS-Services/VBCS-SIG

### Create Application

Create an application, name it whatever you like.







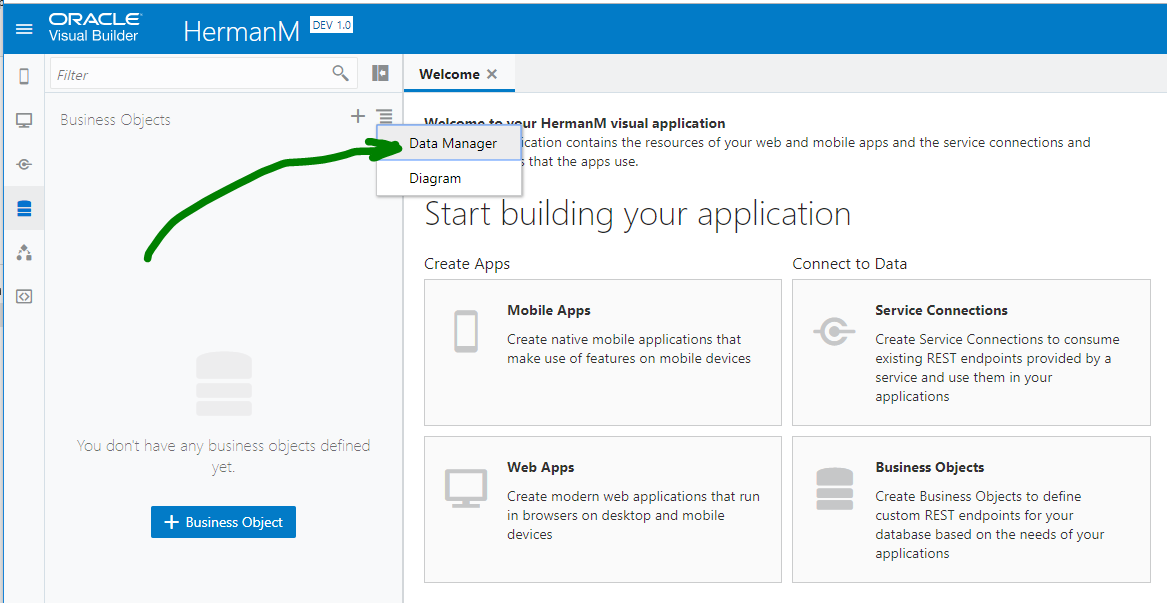
An application can be created from 5 types of resources. In general you will at least have an App (Mobile and/or Web).

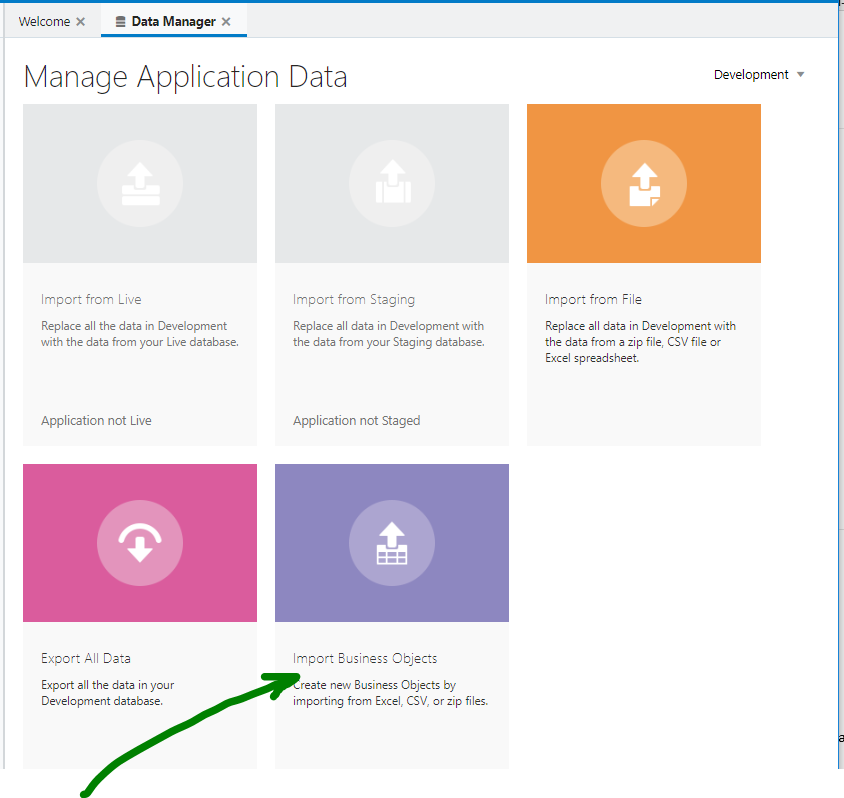
1. Mobile App – Android or iOS
2. Web App – for modern browsers
3. Service Connection – REST API
4. Business object – Table in Oracle database with REST API
5. Process Cloud Service – direct integration with PCS

In this SIG we will start with creating Business Objects and build a Web App on it.

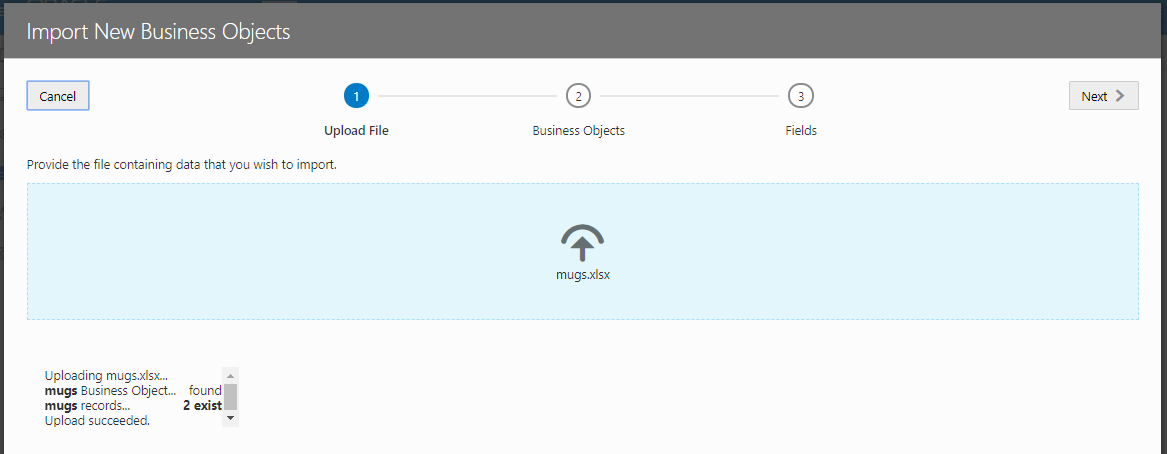
### Create Business Object

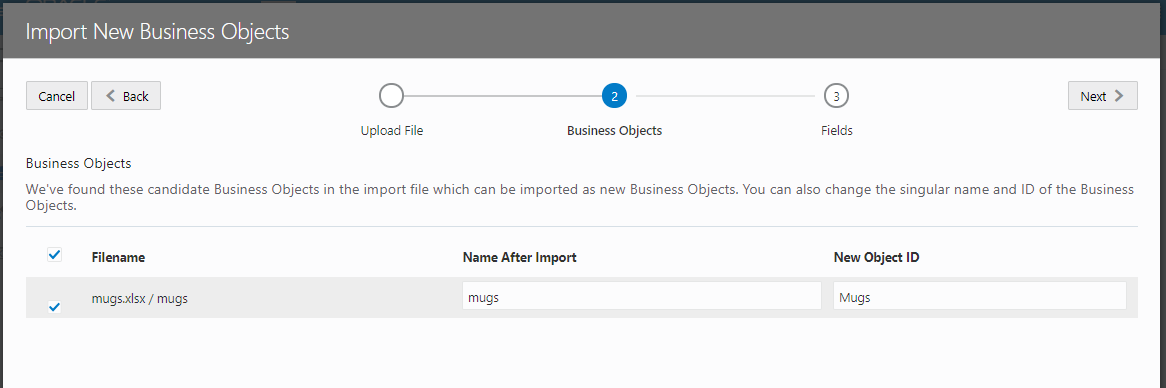
We will create one Business Objects from one Excel-file.

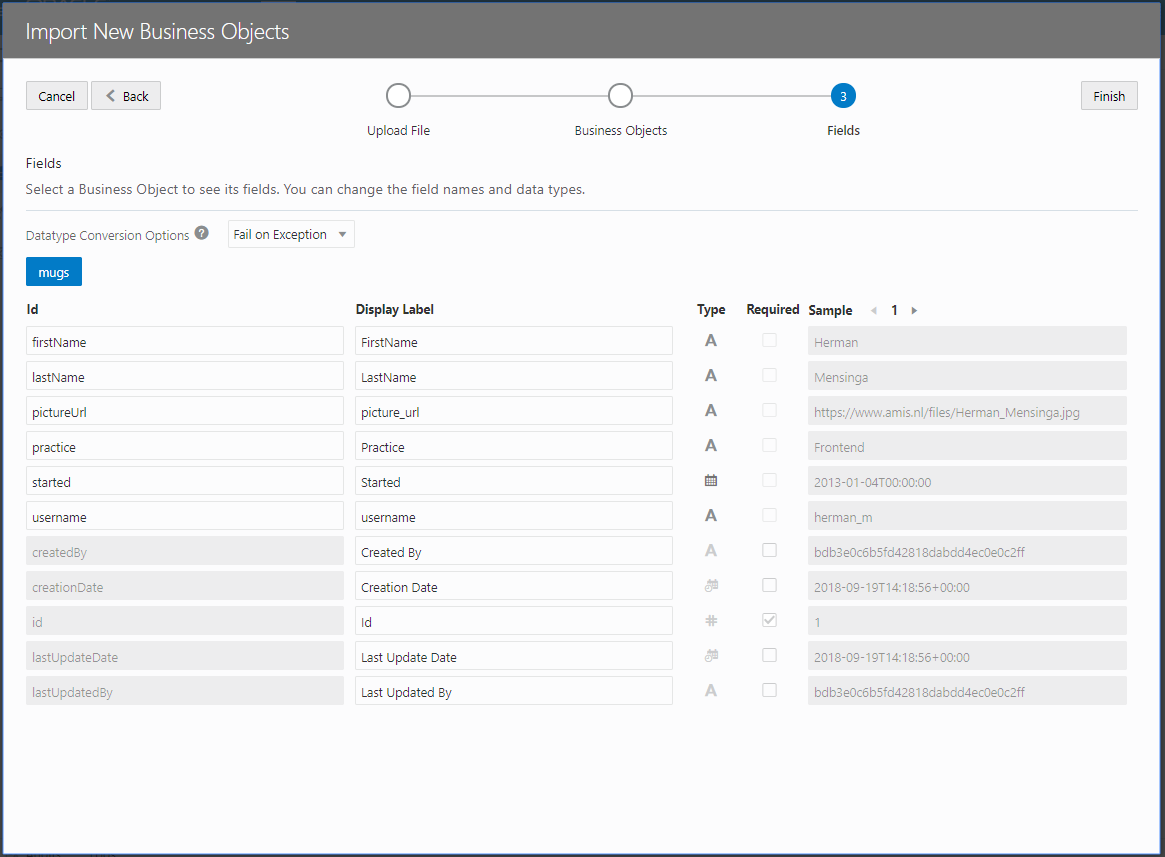




Drag and drop the file mugs.xlsx (in Dutch smoel.xlsx)

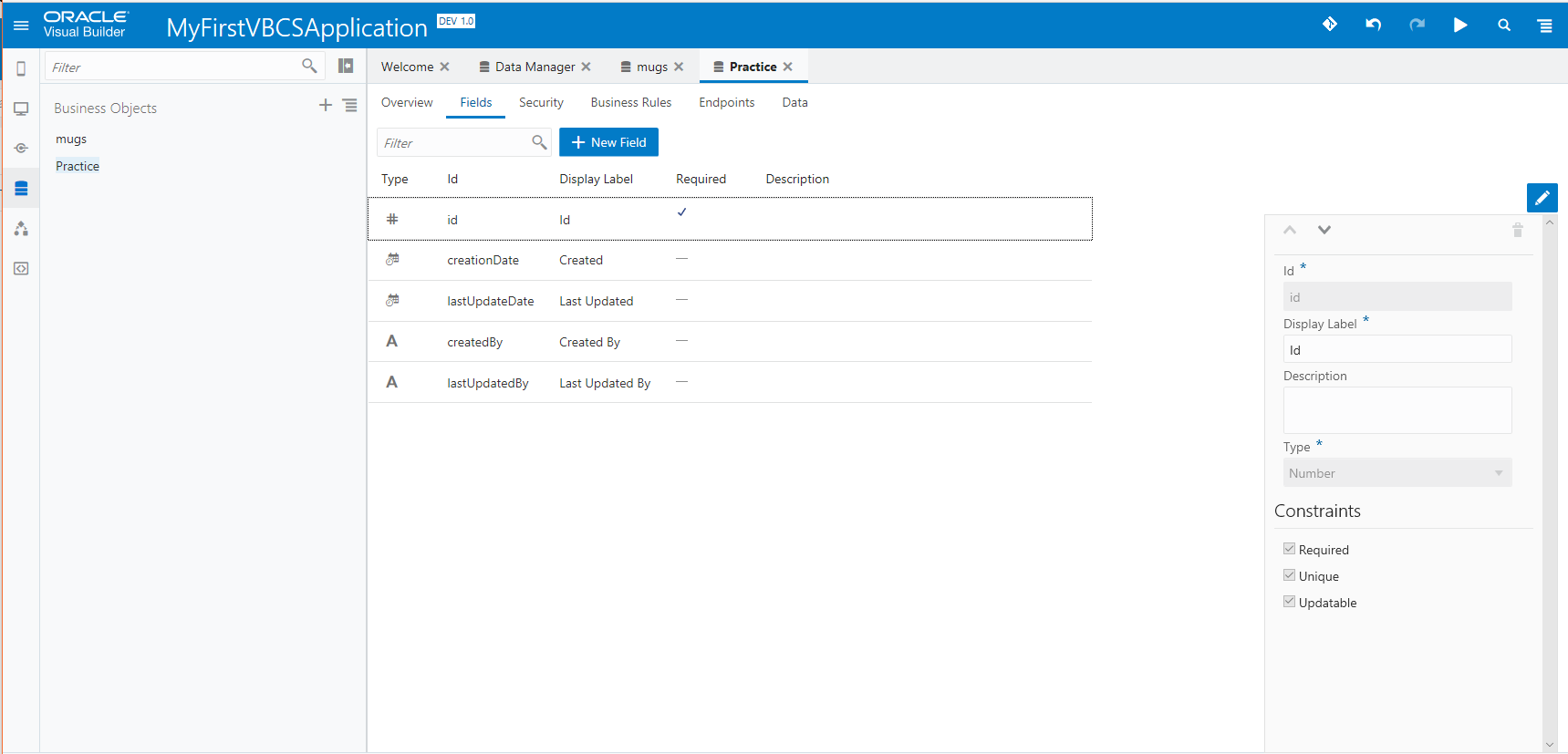




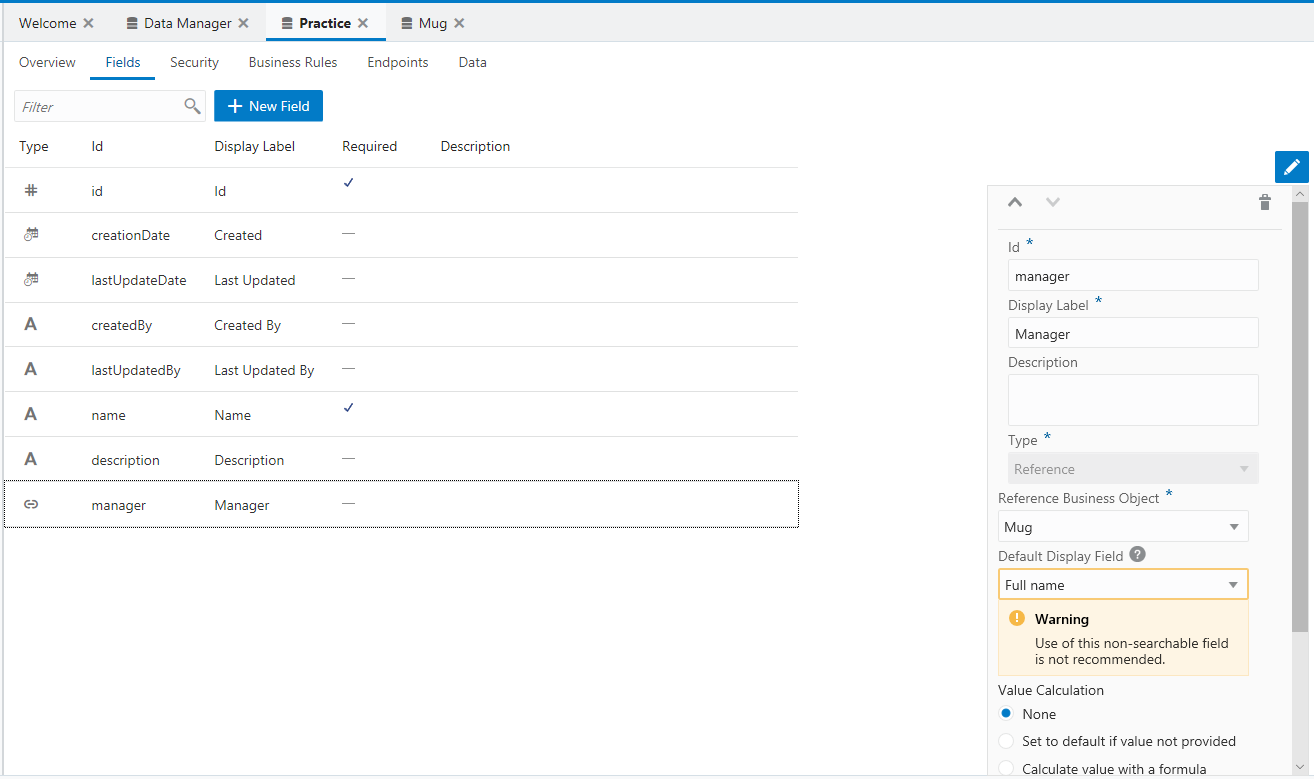


Validate the created BO. Validate the column data types, give them a nice Display label.

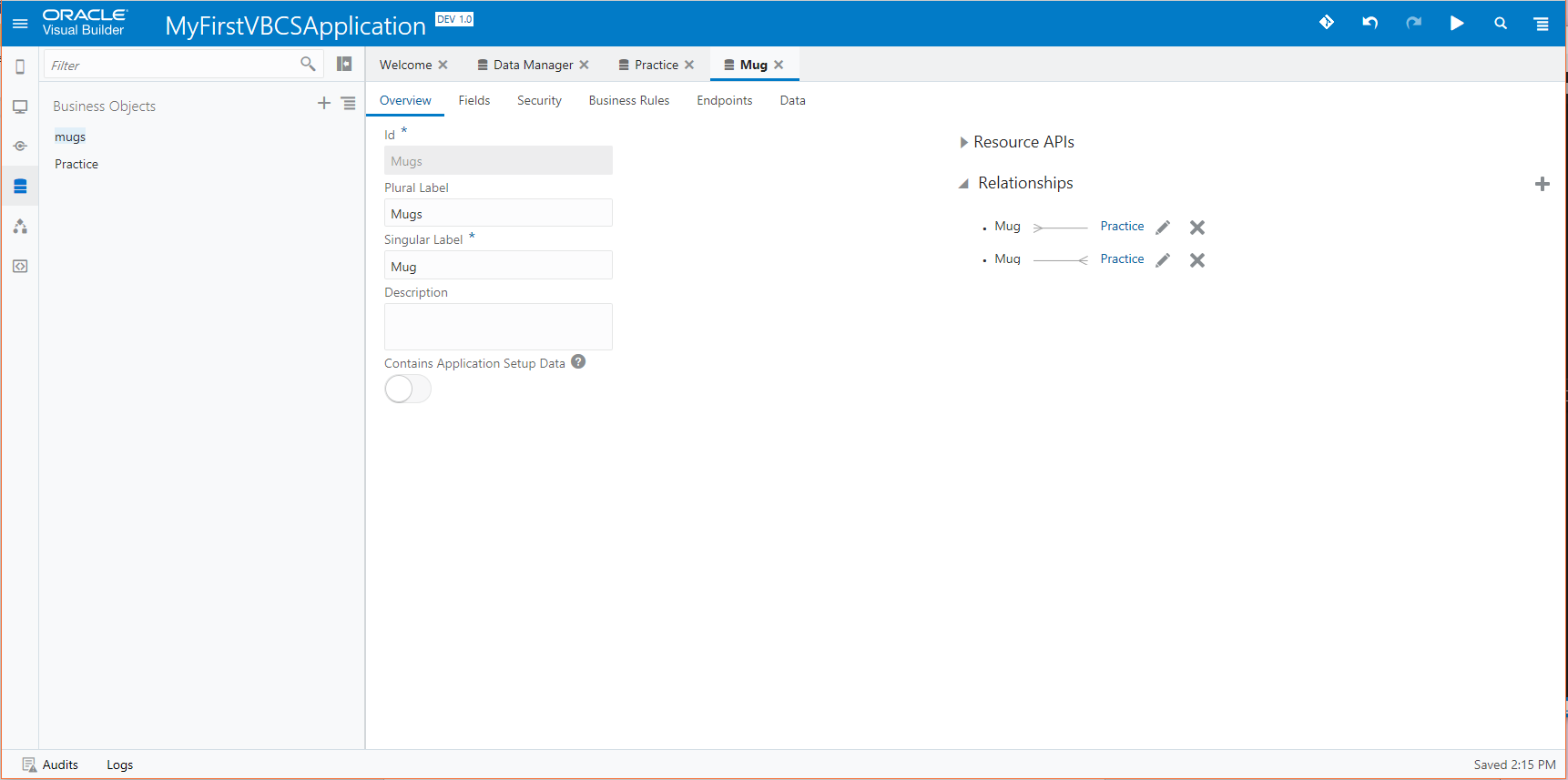
The second BO we will create manually. It will be the Practices BO, with a name, description and manager (which will be a link to the Mugs BO we just created).



Notice that VBCS creates 5 columns by default with triggers to populate them.

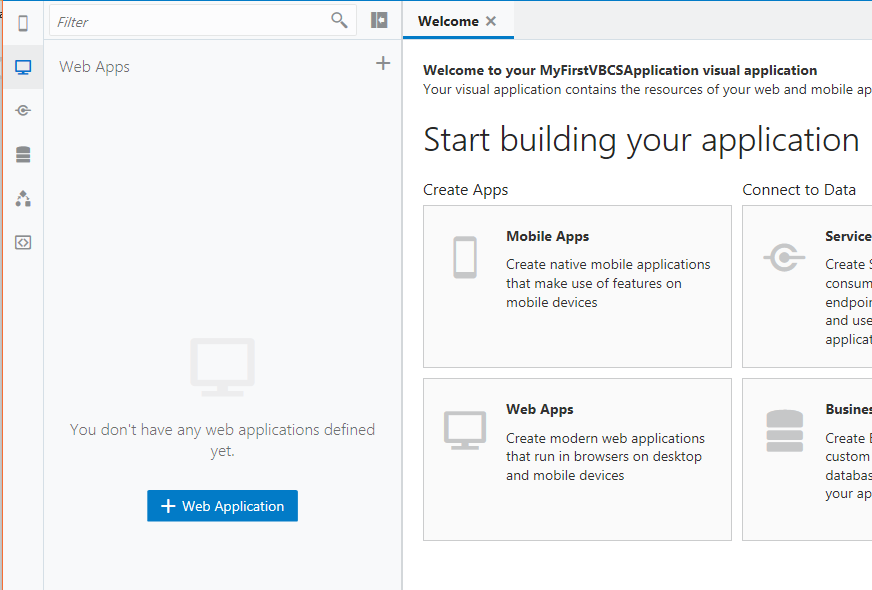


Finally we will create a Link to the practices BO from Mugs BO.



### Create a Web Application

We could also create a Mobile Application, but for this SIG creating a Web Application is quicker and gives us enough opportunities to explore some of the concepts.



#### Create the overview page

…

Also explore what has been created:

* Variables
* HTML
* Javascript

#### Add a detail page

…

Also explore what has been created:

* Variables
* HTML
* Javascript

Add the create and edit page

…

What is this ETag doing ?

Use a REST API/interface

We will make use of the REST Countries REST API, https://restcountries.eu/rest/v2/

#### Create an LOV

JHipster provides a [Chocolatey](https://chocolatey.org/) package, available on <https://chocolatey.org/packages/jhipster>.

To install JHipster (as well as Node, Yarn, Yeoman, Java and Git), just type:

Show flag for favourite country

Also install docker: choco docker-for-windows

Create an editable table

We will make use of the REST Countries REST API, https://restcountries.eu/rest/v2/

#### Create an LOV

JHipster provides a [Chocolatey](https://chocolatey.org/) package, available on <https://chocolatey.org/packages/jhipster>.

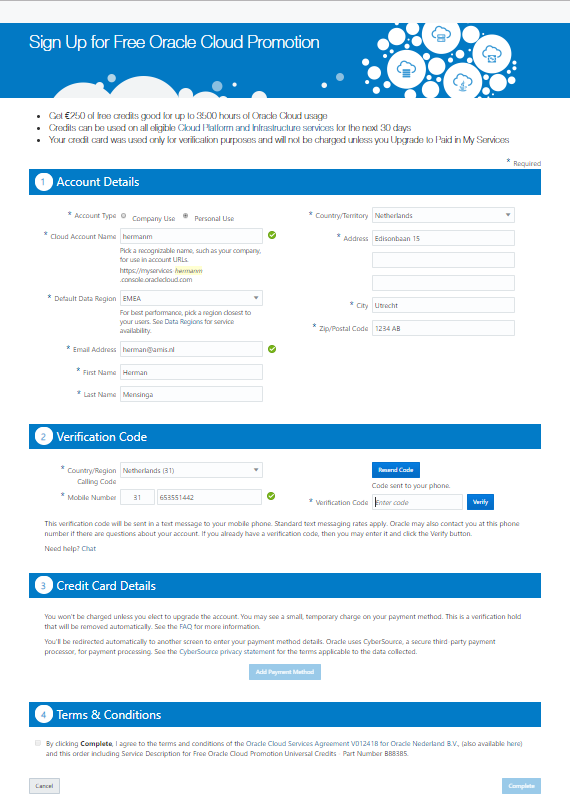
To install JHipster (as well as Node, Yarn, Yeoman, Java and Git), just type:

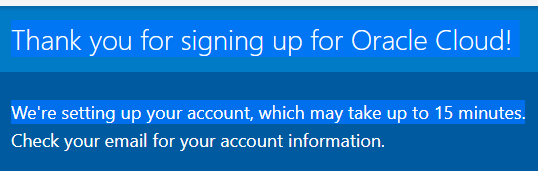
Show flag for favourite country

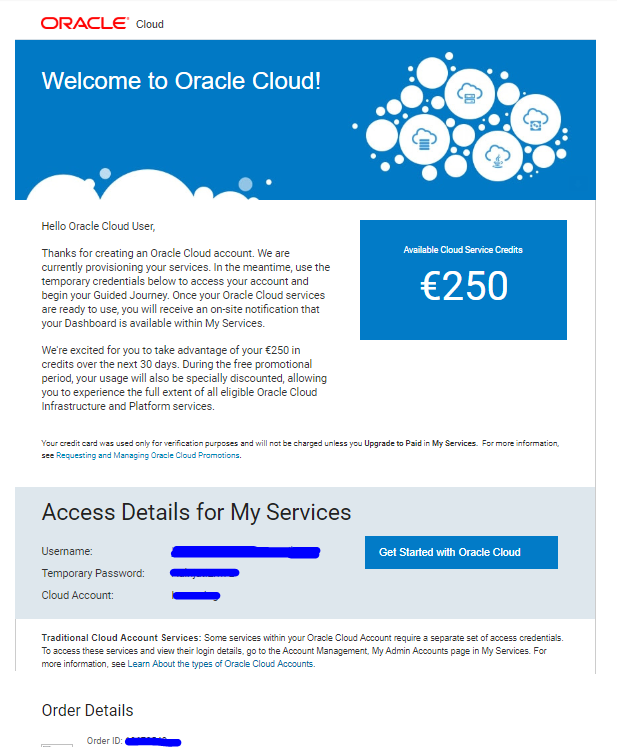
Also install docker: choco docker-for-windows

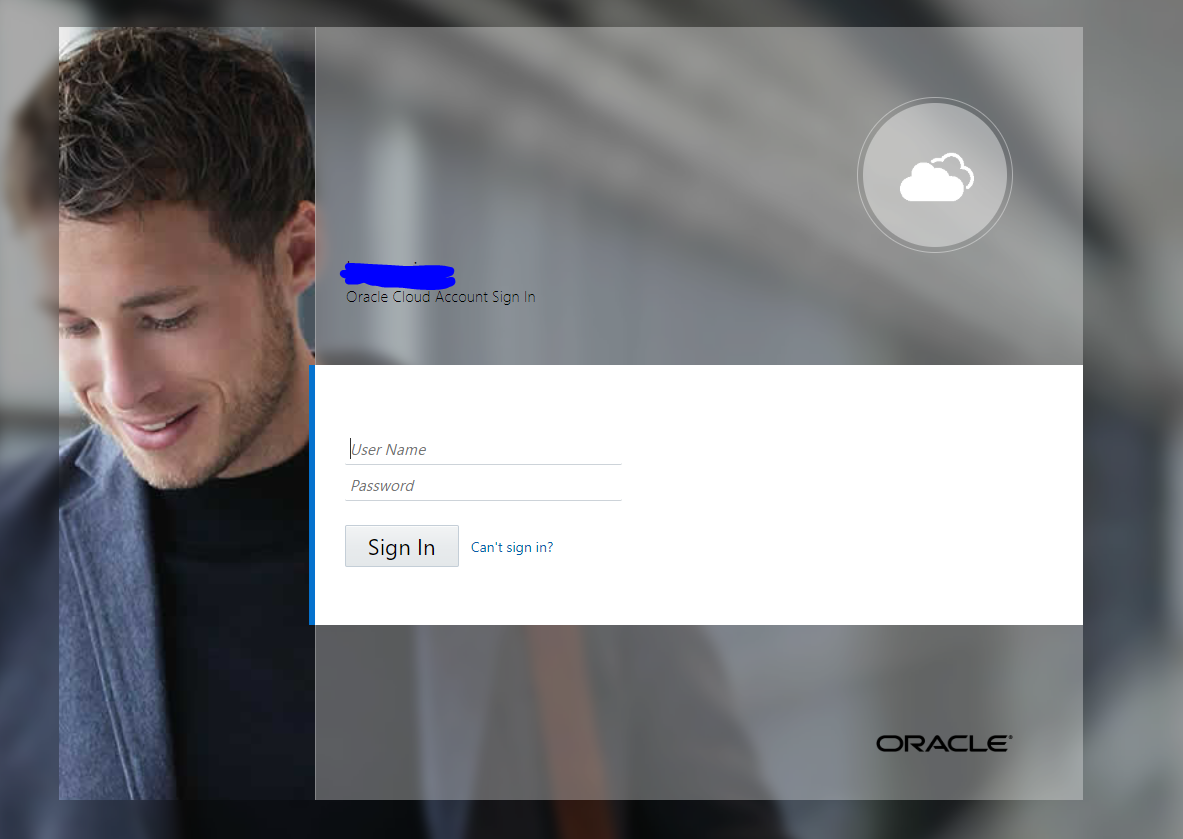
## Sign up for a trial account

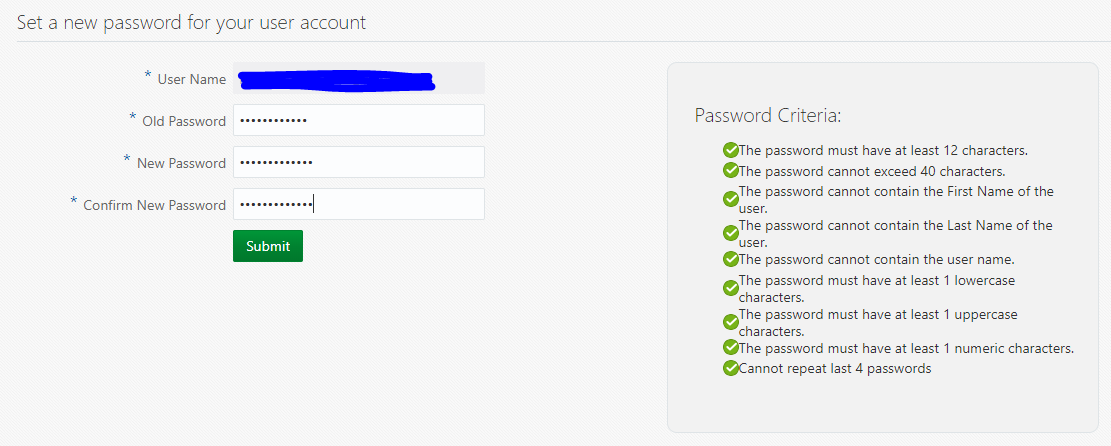
<https://myservices.us.oraclecloud.com/mycloud/signup>

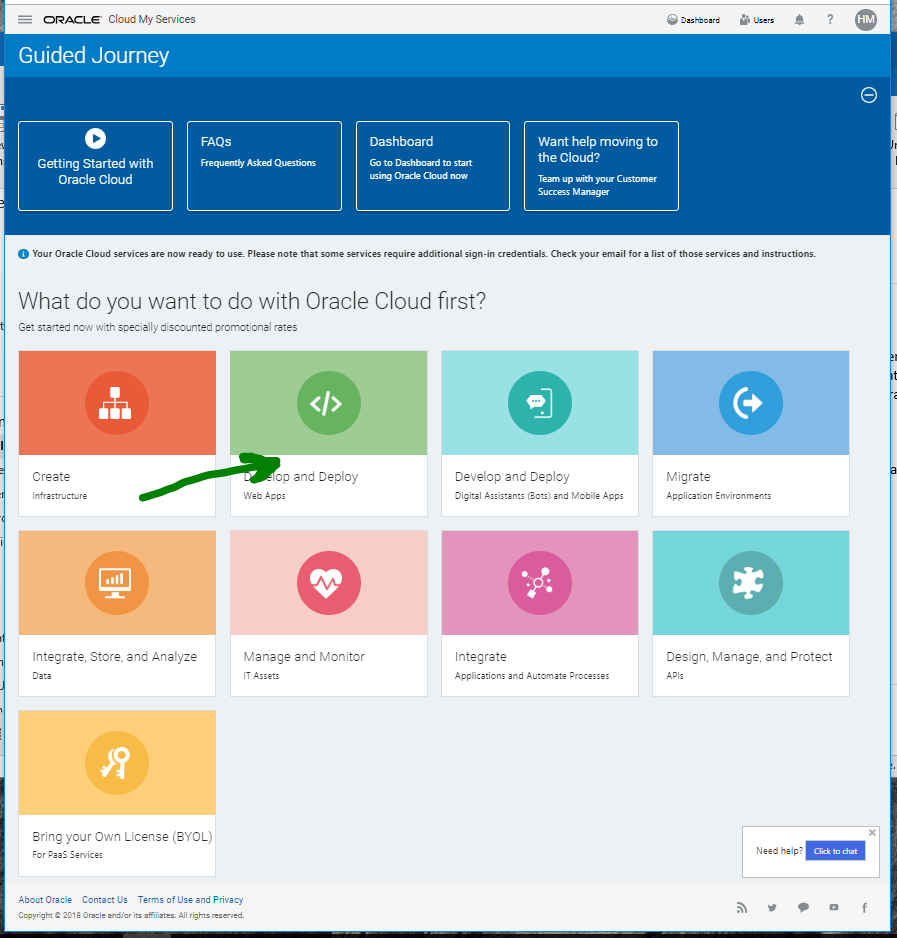


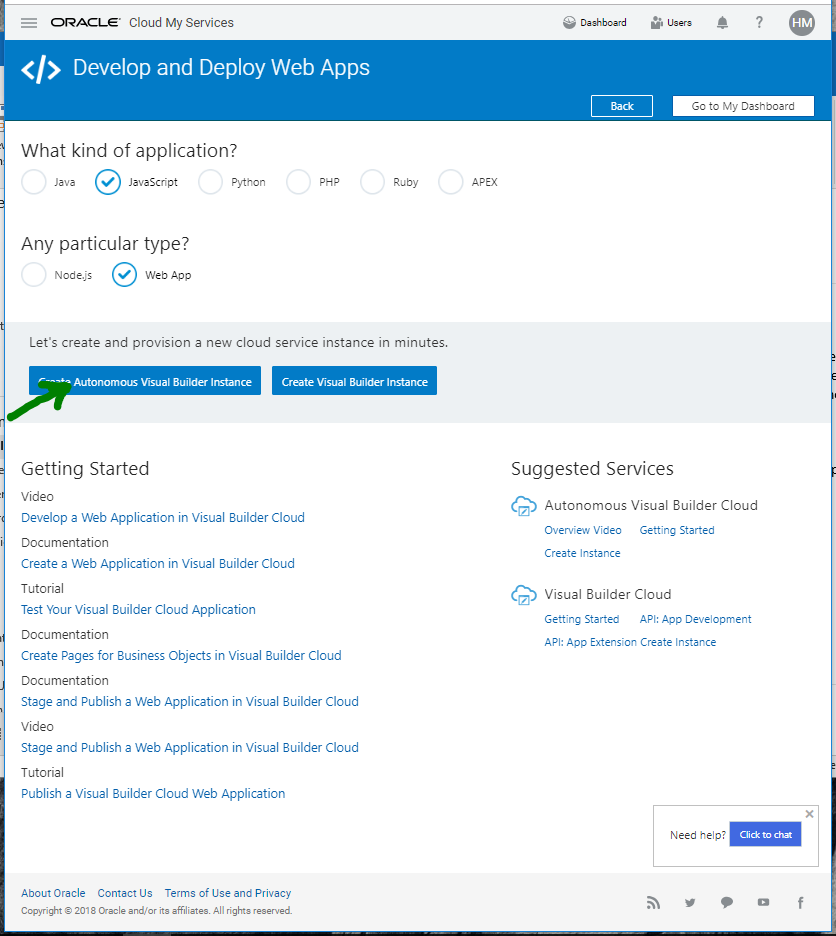


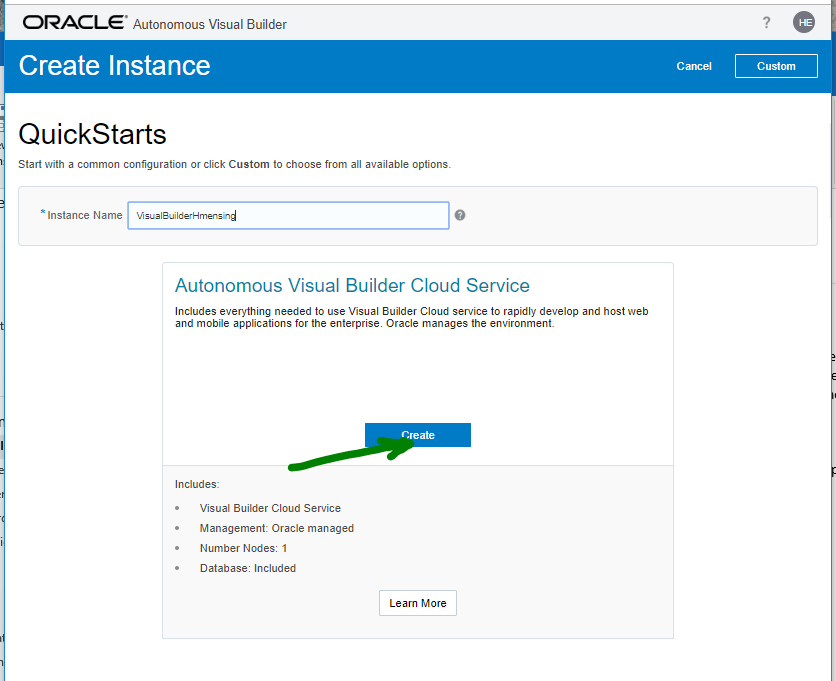


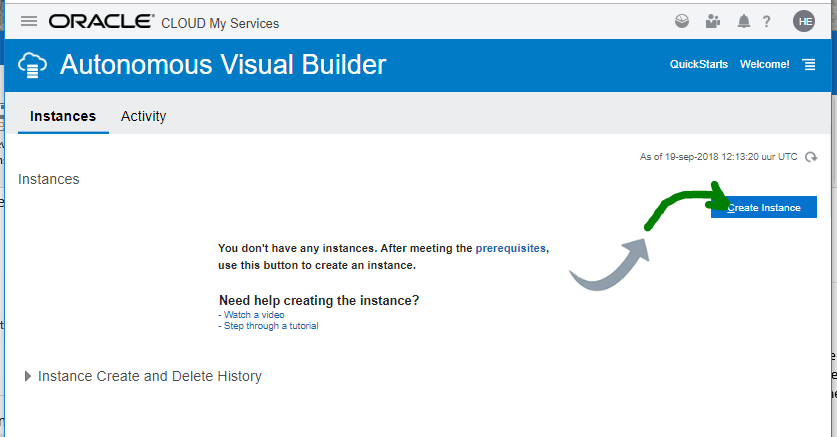


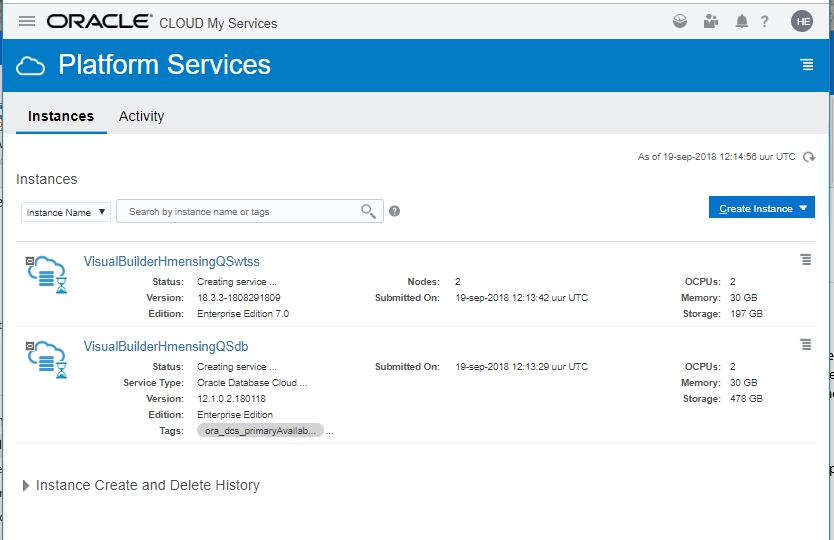




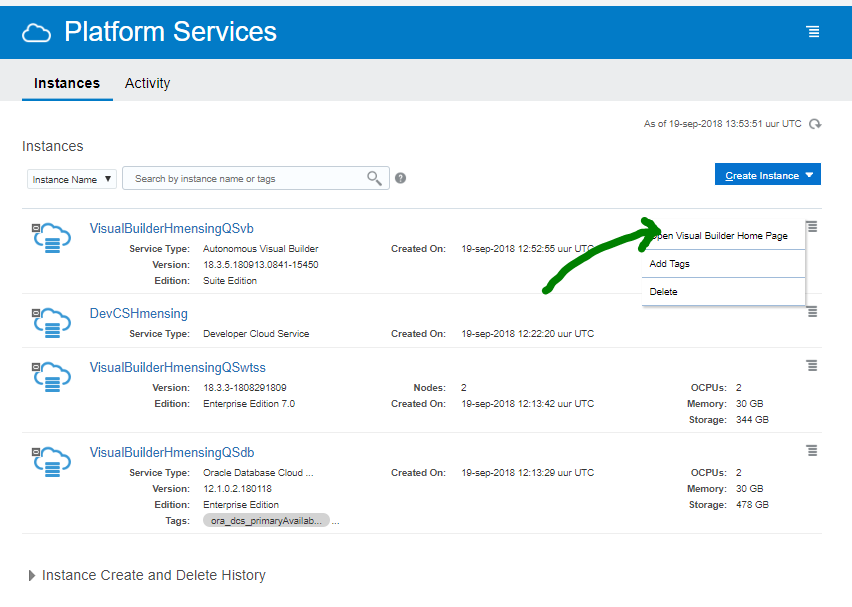


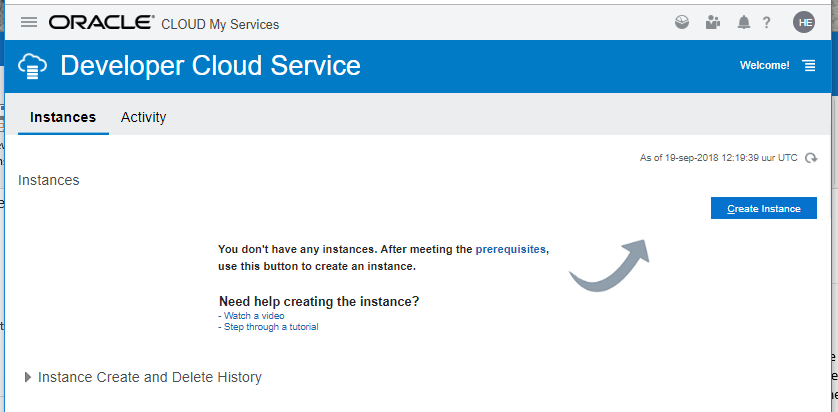


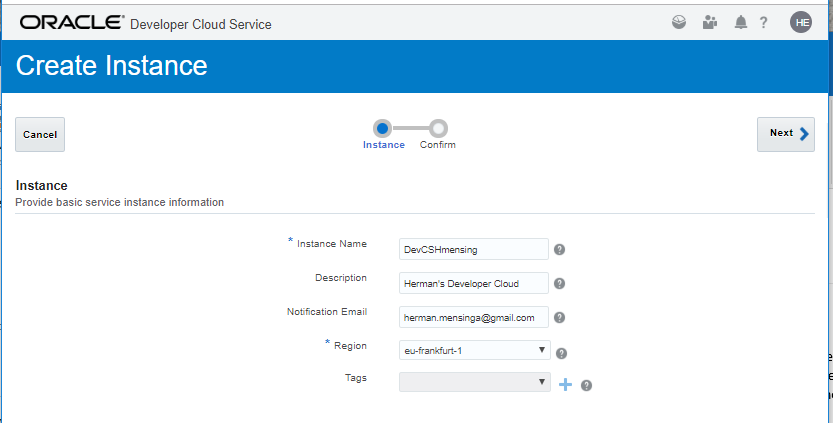


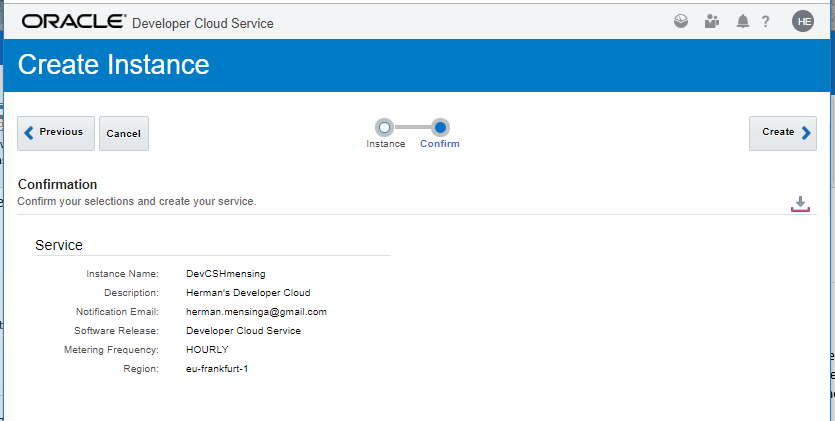


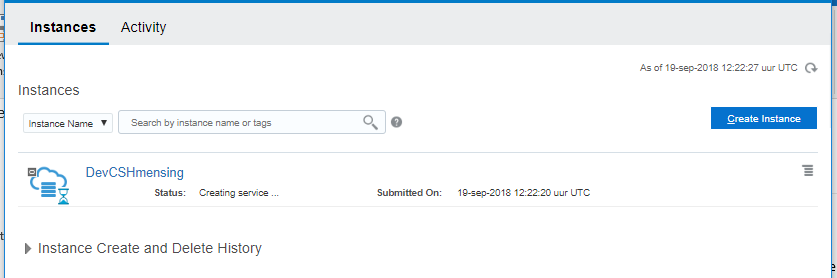
This takes 15 minutes



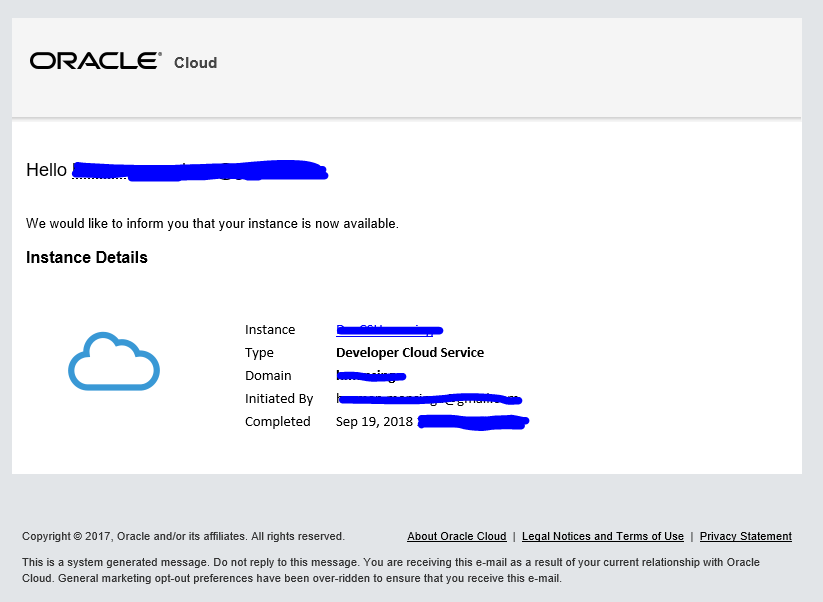


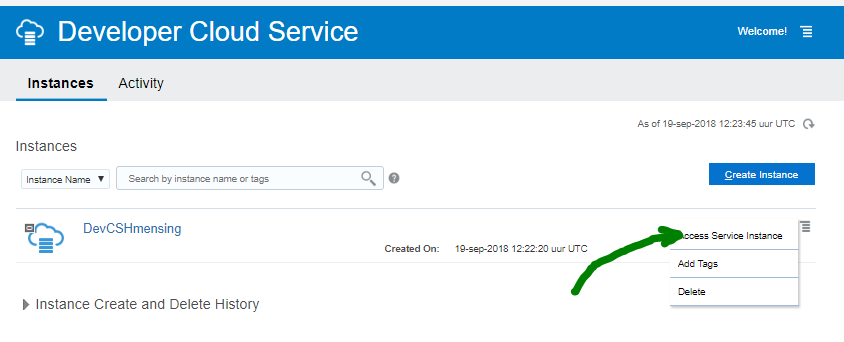


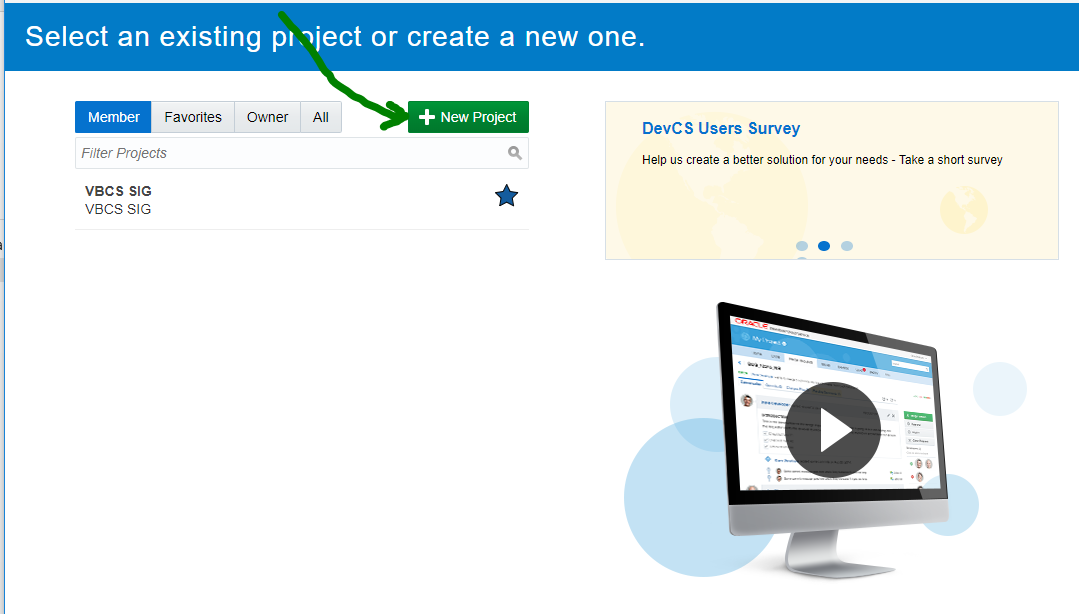


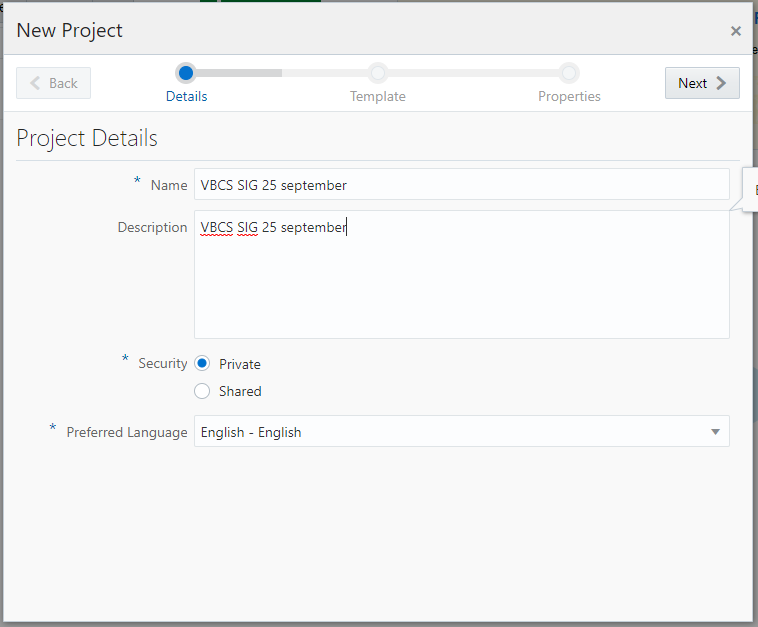


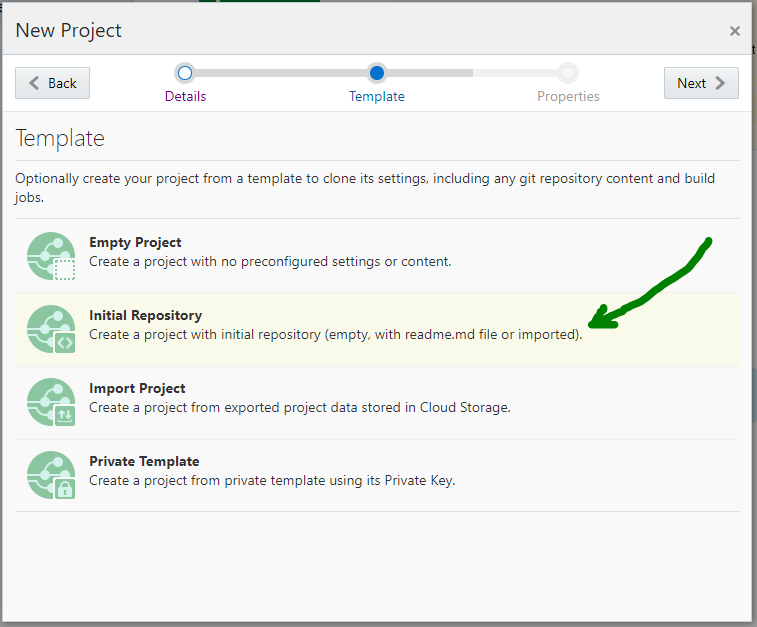
Mail

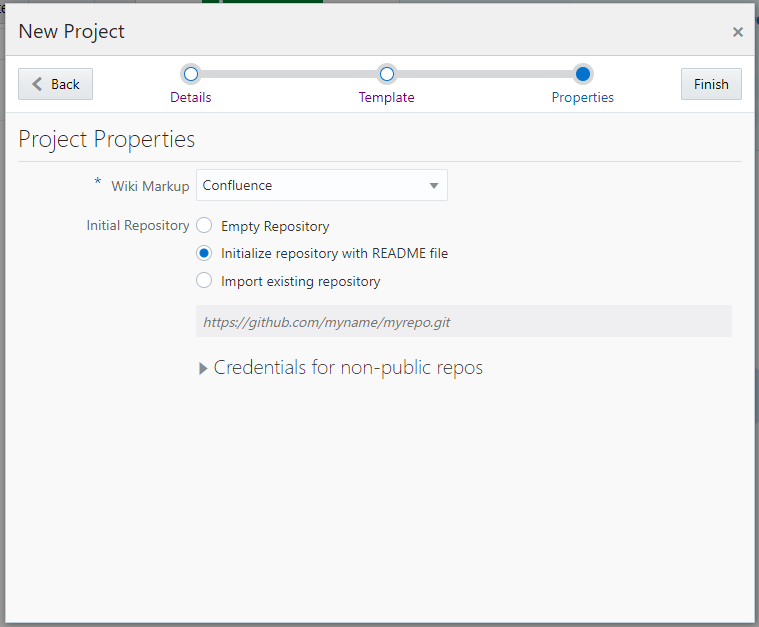


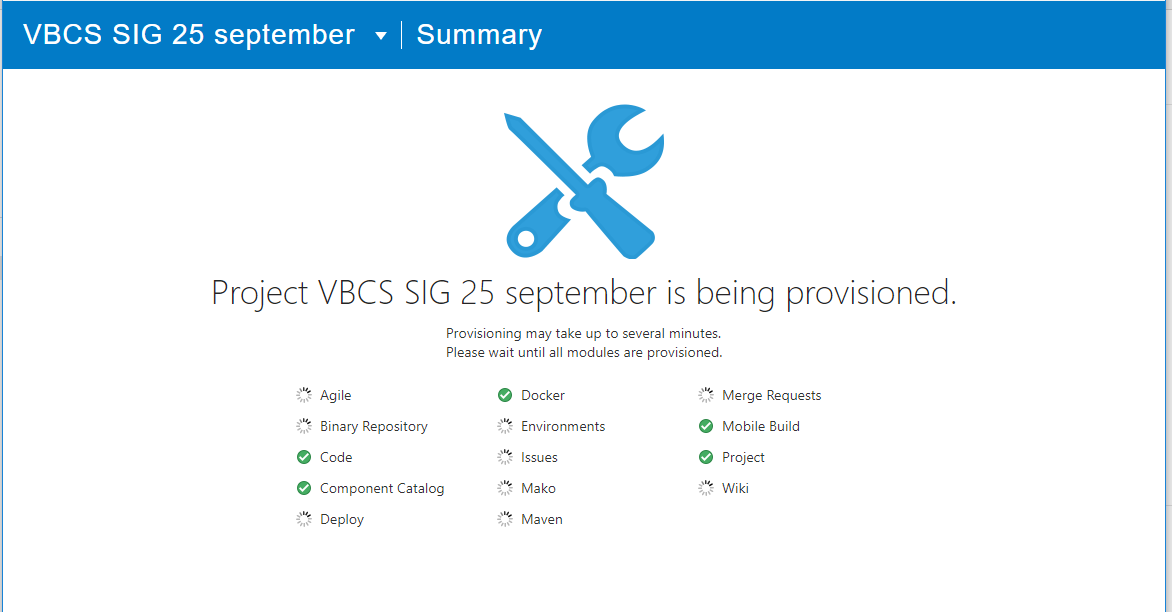


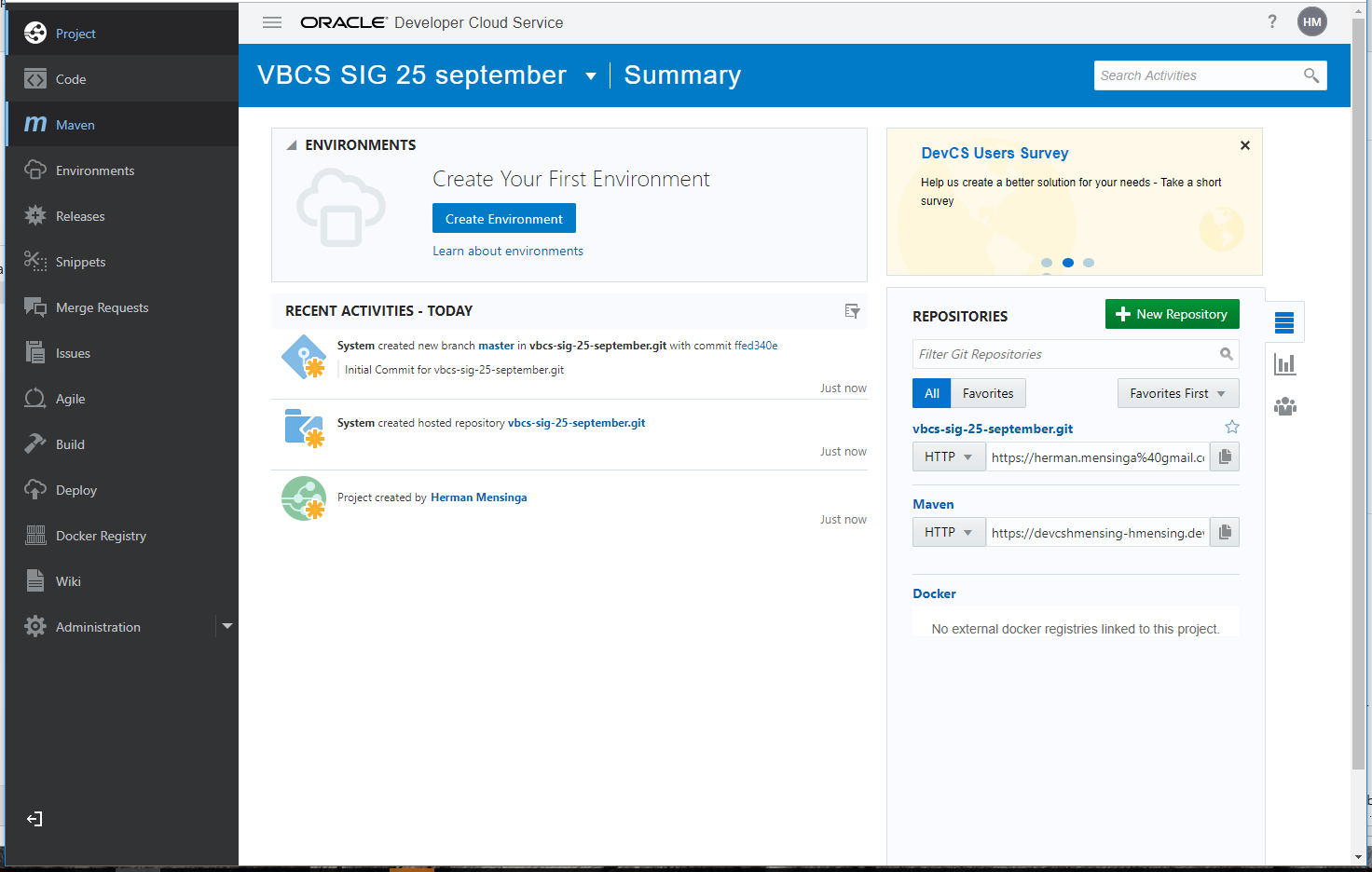












Clone it like you do normally 😊