Source Control, Scripts, Connections, and Code Tracking

# Introduction

This document serves as a guide for keeping track of code changes, source control, code backup, scripts, and use/setup/reproduce source connections in the IICS environments (DEV, QA, PROD).  
  
This contains the correct pattern and way to extract the current code (sources, mappings, mapping tasks, and task-flows) from DEV and then, Import the code to other environments.  
  
The virtual-machine credentials of all environments to find Scripts and also backup them in Donaldson Share-Point.  
  
Updating the objects correctly and making it possible to roll back at some previous point.  
  
Also here, the user might be able to find Connections tab support to manage existing and new sources to be used in IICS items during the workflow.

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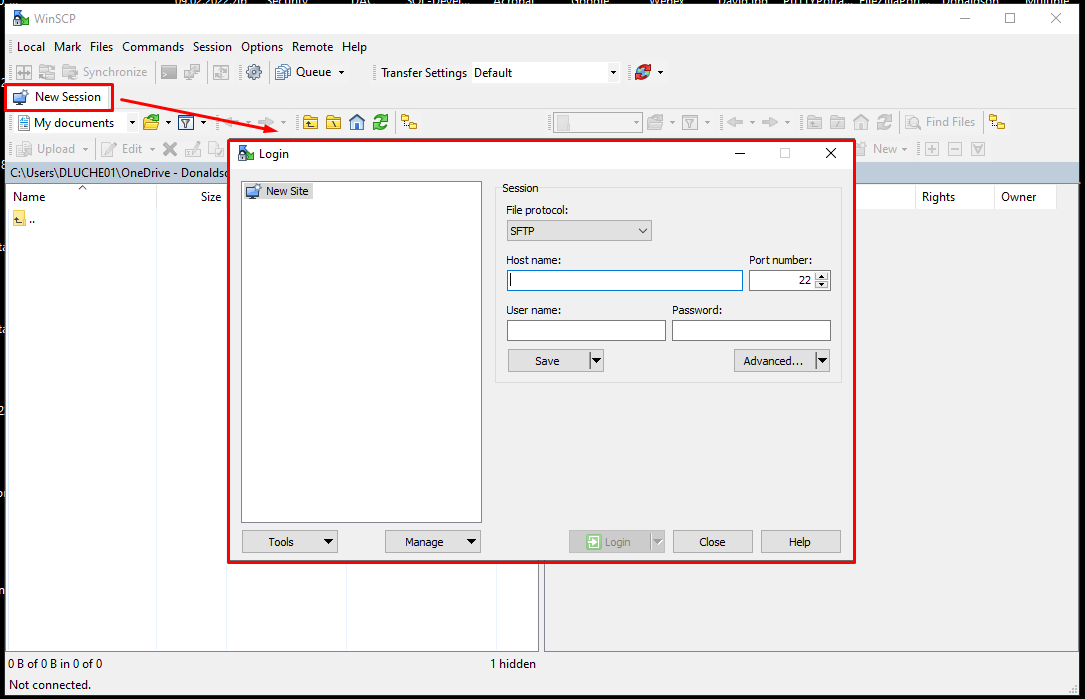
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Physical Informatica Directory (DEV/QA/PROD)  
The Informatica Files can be accessed with any FTP tool/application.  
In this case, the user will be using the WinSCP tool.

[Download here](https://winscp.net/eng/downloads.php)



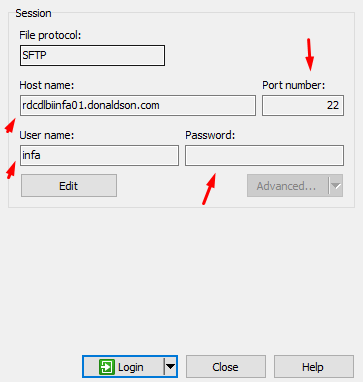
* Once the tool is installed, the connection window will pop up.  
  If it doesn’t just click on the “New Session” icon.   
  Keep in mind doing this through **Donaldson Citrix VDI.**



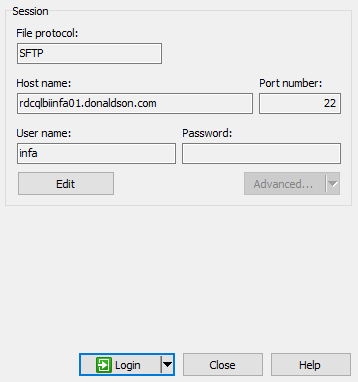
At this time the user might need the specific credentials for each Environment (DEV/QA/PROD).

## SFTP Credentials

* Use these credentials for DEV:  
  File protocol: SFTP  
  Host name: rdcdlbiinfa01.donaldson.com  
  Port number: 22  
  User name: infa  
  Password: Data4DCI

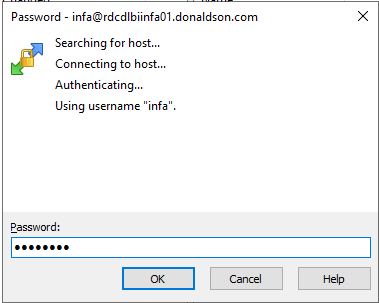


* Use these credentials for QA:  
  File protocol: SFTP  
  Host name: rdcqlbiinfa01.donaldson.com   
  Port number: 22  
  User name: infa  
  Password: Data4DCI

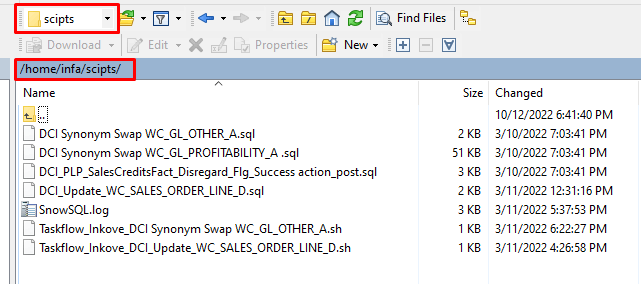
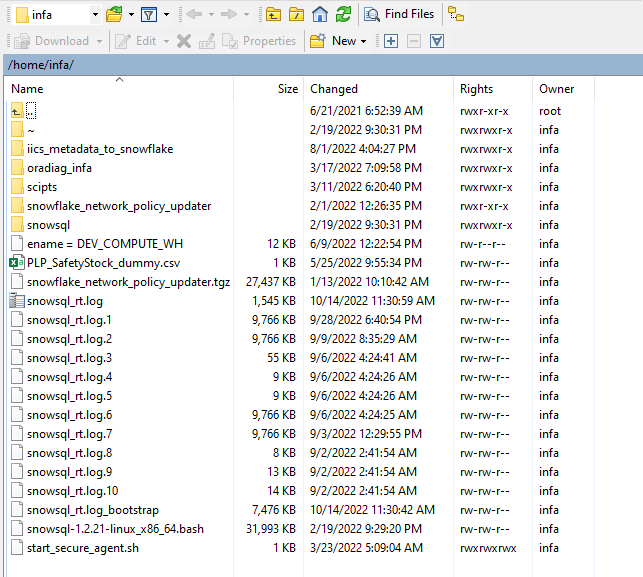


* Use these credentials for PROD:  
  File protocol: SFTP  
  Host name: MISSING INFORMATION  
  Port number: 22  
  User name: MISSING INFORMATION  
  Password: MISSING INFORMATION

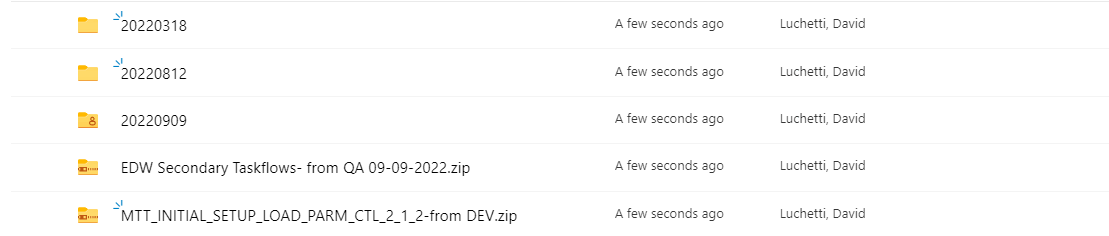
All the sessions might ask to confirm the password after clicking log-in  
  
And ask what specific folder you want to join. Leave that <none>.



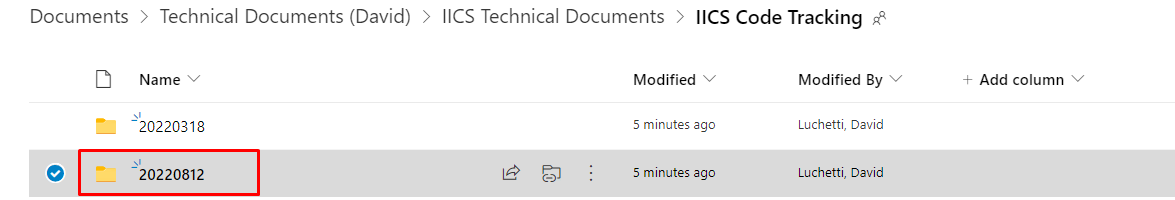
Once connected all files can e found on the right side of the screen:  
  
With the specific directories separated by subject…  
Click on “**scripts**” to see the scripts folder.



Code/Source Backup (File Path)  
The last version of Dev Imports will all be placed in the [IICS Code Tracking SharePoint](https://donaldson.sharepoint.com/:f:/r/sites/IT-Project-Mgmt-Office-Enterprise-Data-Platform/Shared%20Documents/Technical%20Documents%20(David)/IICS%20Technical%20Documents/IICS%20Code%20Tracking?csf=1&web=1&e=Mx6P4K) folder in which the path should be like this:  
  
Therefore the user might be able to find previous code Extraction done by developers and saved.

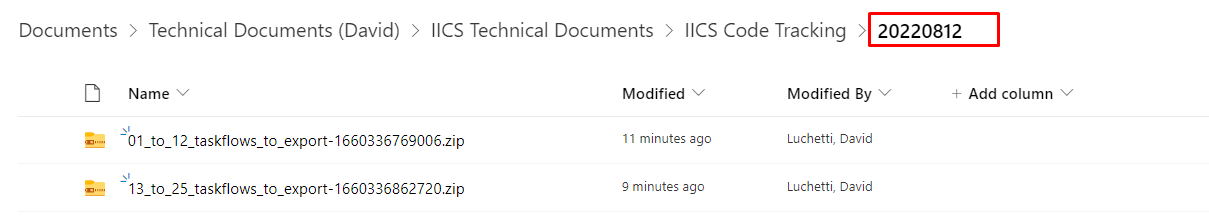


All Backup Exports shall be named after their own Exportation Date, for example:  
If the user opens the folder 20220812 which stands for the DEV items exportation that occurred on 08/12/2022.



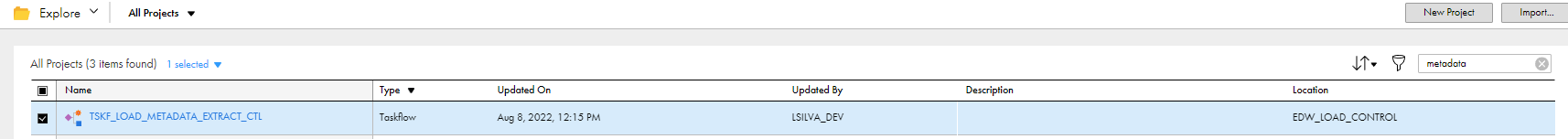
Opening it, the user will find each Exportation accordingly to what was selected to export.

In this case: All Main Execution Plan Taskflows (01-25), that was developed by the time the exportation was requested.  
  
**Mind that all exportations that can be found in the IICS Code Tracking directory were done by Demand and this process can be re-done if needed through this guide.**



Export Process (any environment)

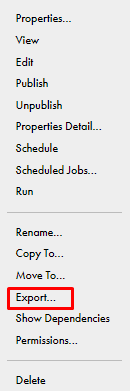
* To export any item from, for example, Development to Q.A. The process must be like this:  
  Once Logged into IICS Development Organization in the Browser tool.  
  The user must follow these steps:  
  First, the user must find in Explorer, Informatica Browser tool, what item exactly will be exported:



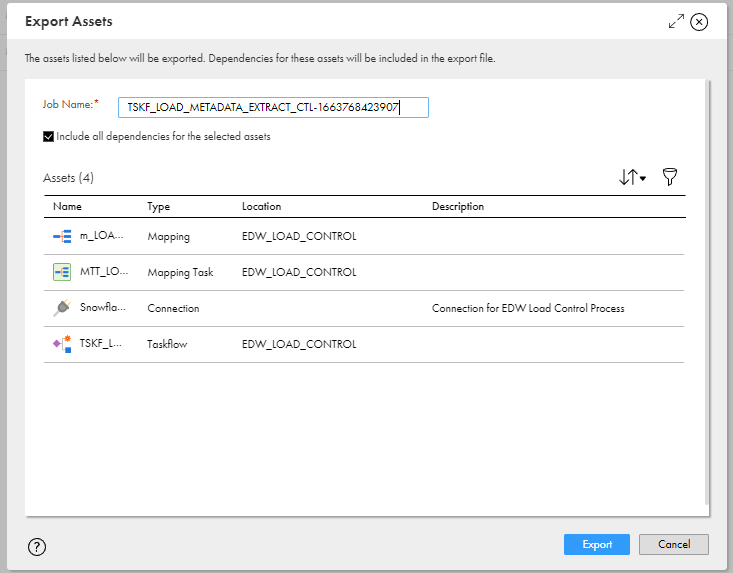
* Then, click on the three dots icon at the end of the field bar.



* Once this was done. A new options window will pop up on the screen with the “Export” option to click.



* Once “Export” is selected the Export Assets window will open on the screen as well.



The user must keep in mind that the “Include all dependencies for the selected assets” must be checked before actually exporting.



To carry all dependencies(mapping tasks, mappings, commands, and connections) that compose this selected asset.  
In this case:  
The IICS Metadata Task-flow



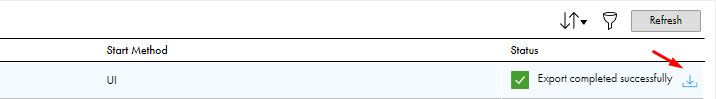
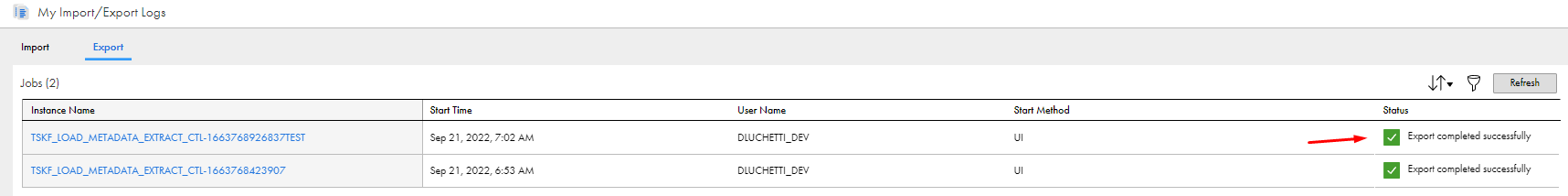
* Once the user clicks “Export”. This green window will appear at the top of the page.  
  Then the user will be able to watch the process by clicking on the “My Import/Export Logs”   
    
  If the user wasn’t able to click the quick pop-up green window. The user can also go through the “My Import / Export Logs” option on the left top of the screen.



* Once the Exportation Job becomes DONE!   
  In this case: The Metadata Extraction.

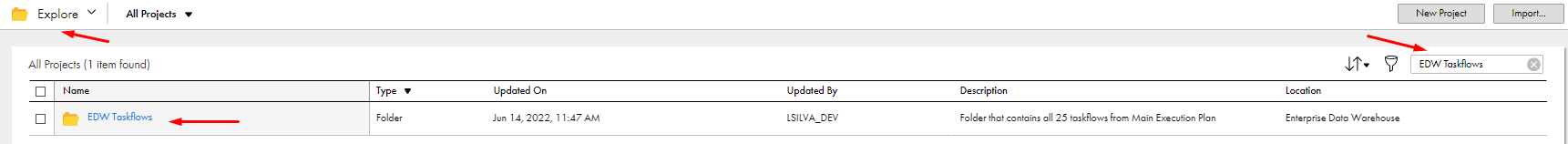


The user must download it through the download icon that will appear when passing the cursor in between the field bar. Right at the end of it.  
  
This creates and downloads a zip file with the content to the user’s own machine.

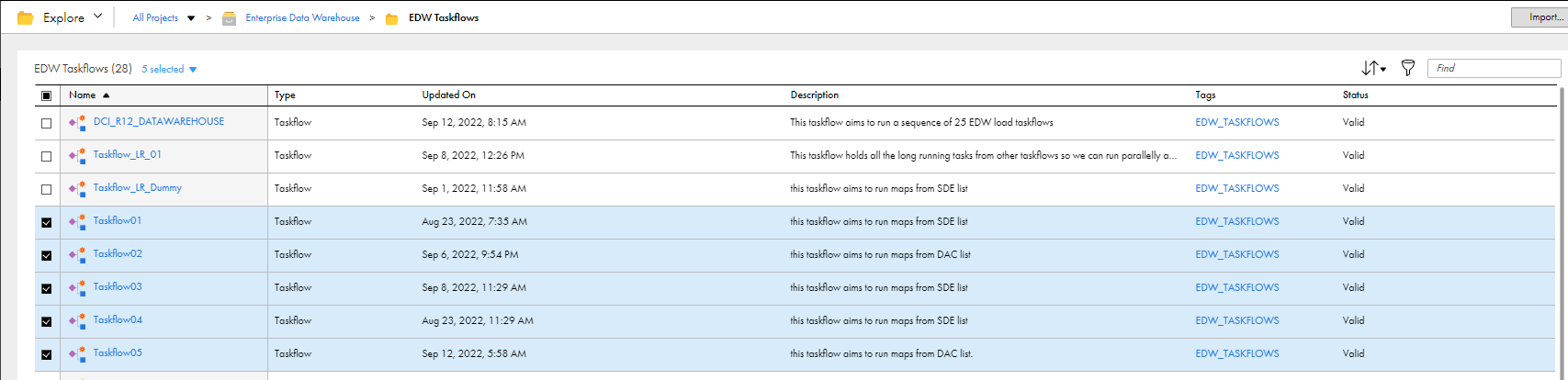


Multiple Exports  
To export multiple objects, for example, more than one task flow at the same time, the process works the same with a slight difference in the selection part.  
When choosing the items you want to Export, **they all must be in the same File Directory**.  
For example:  
In this case, the user is exporting items from **EDW Task-flows** located in the **Enterprise Data Warehouse** directory.  
Let’s suppose that the user wants to Export the Task-flows 01 to 05:

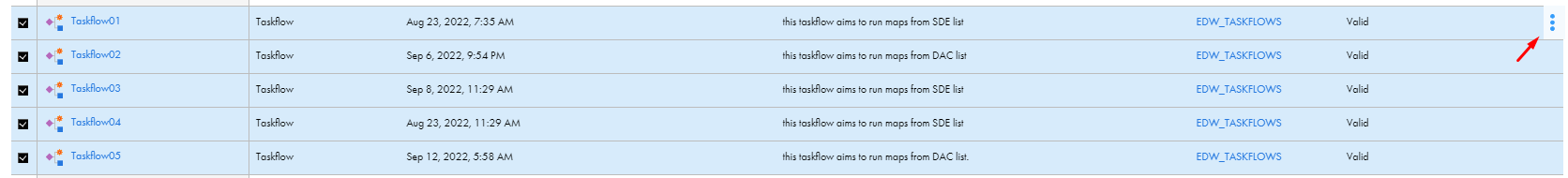
* Once, the user must reach the located directory that all of them are (once again, they al**l MUST** be in the **SAME FILE DIRECTORY**), in this case, EDW Task-flows, this can be done by typing the directory name (“EDW Taskflows”), at the explorer blank field for search.



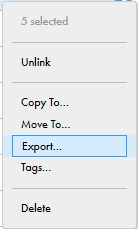
* Once in the directory. The user must select the desired items to export(in this case 01 to 05).



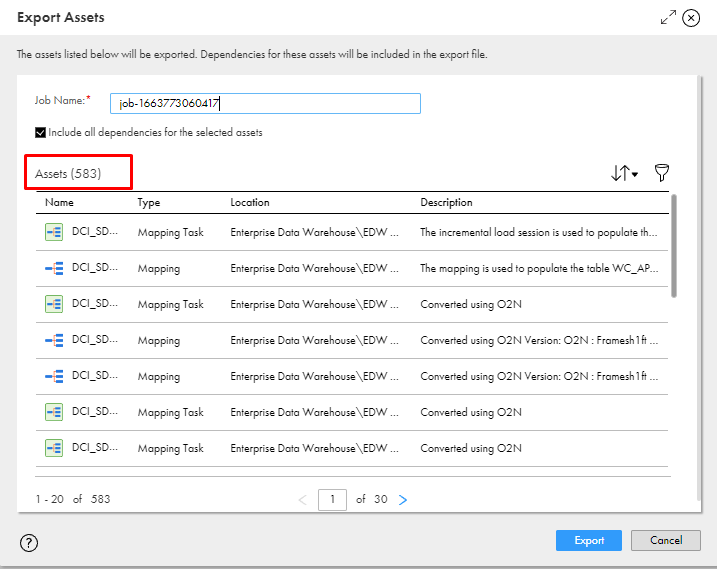
* Then, without unselecting any of them, click on the three dots that will appear once the cursor passes through the end of the line and also the end of any selected item.



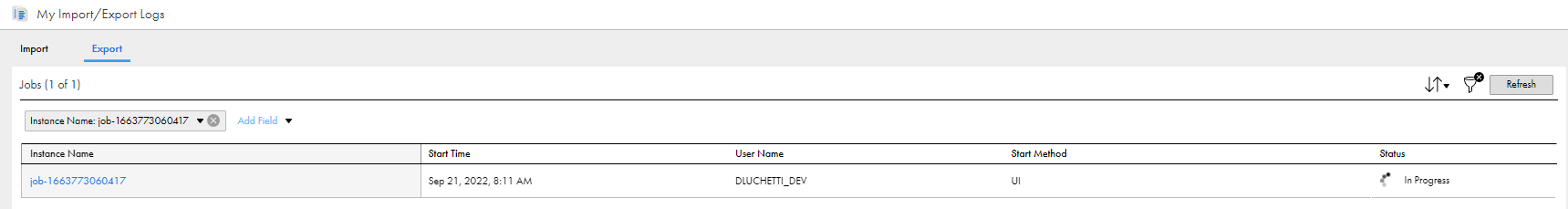
* Then click Export also like the previous One-item exportation process.



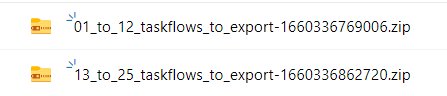
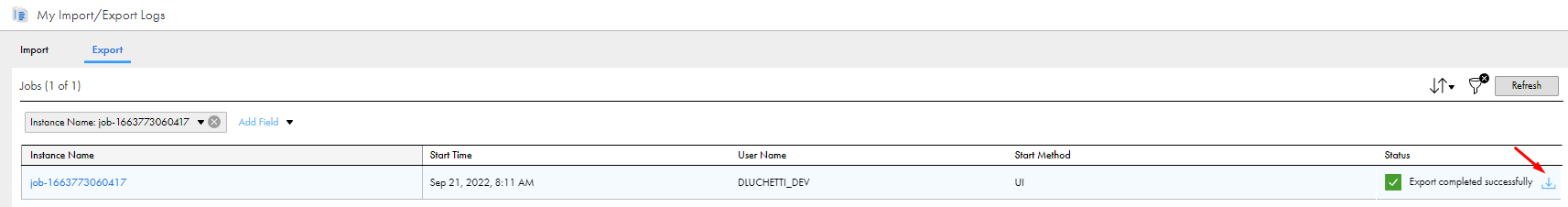
* Then the IICS will compile all selected items and their own assets in order to export them together.



* Then once hitting “Export” this will also be able available to be downloaded at the “My Import / Export Logs” once it’s ready.   
  Because exporting more than one item and all the assets that come with it might take more time than usual. Due to the number of assets.

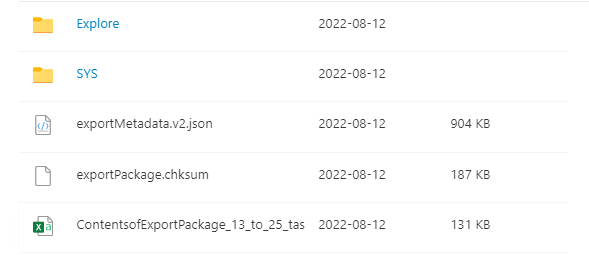


* After being compiled, the item will also be available to be downloaded as a zip file just like the one-item exportation.  
    
  Separated Exports  
  As the user was able to see previously:  
  There are two exportation zip files in this archive.  
    
  Because it is important to keep in mind that:  
  Exporting all task flows at once might cause a time-out drop in IICS’s browser tool due to the volume of data.  
  This issue can corrupt the compacted(zip) files, impacting the main process of both on backing-up o Source Control and Code Tracking.



# Export Content

By clicking inside each object or objects Export zip, the user will always find these 5 standard items(depending on the developer export settings):  
  
Explore  
SYS  
exportMetadata.v2.json



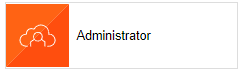
exportPackage.chksum

ContentsofExportPackage\_13\_to\_25\_t

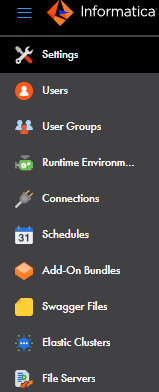
Import Process (any environment)  
In the process of importing any previously exported item from any other environment.  
The user must first follow these steps:

Source Connection Setup (All Orgs/Environments)

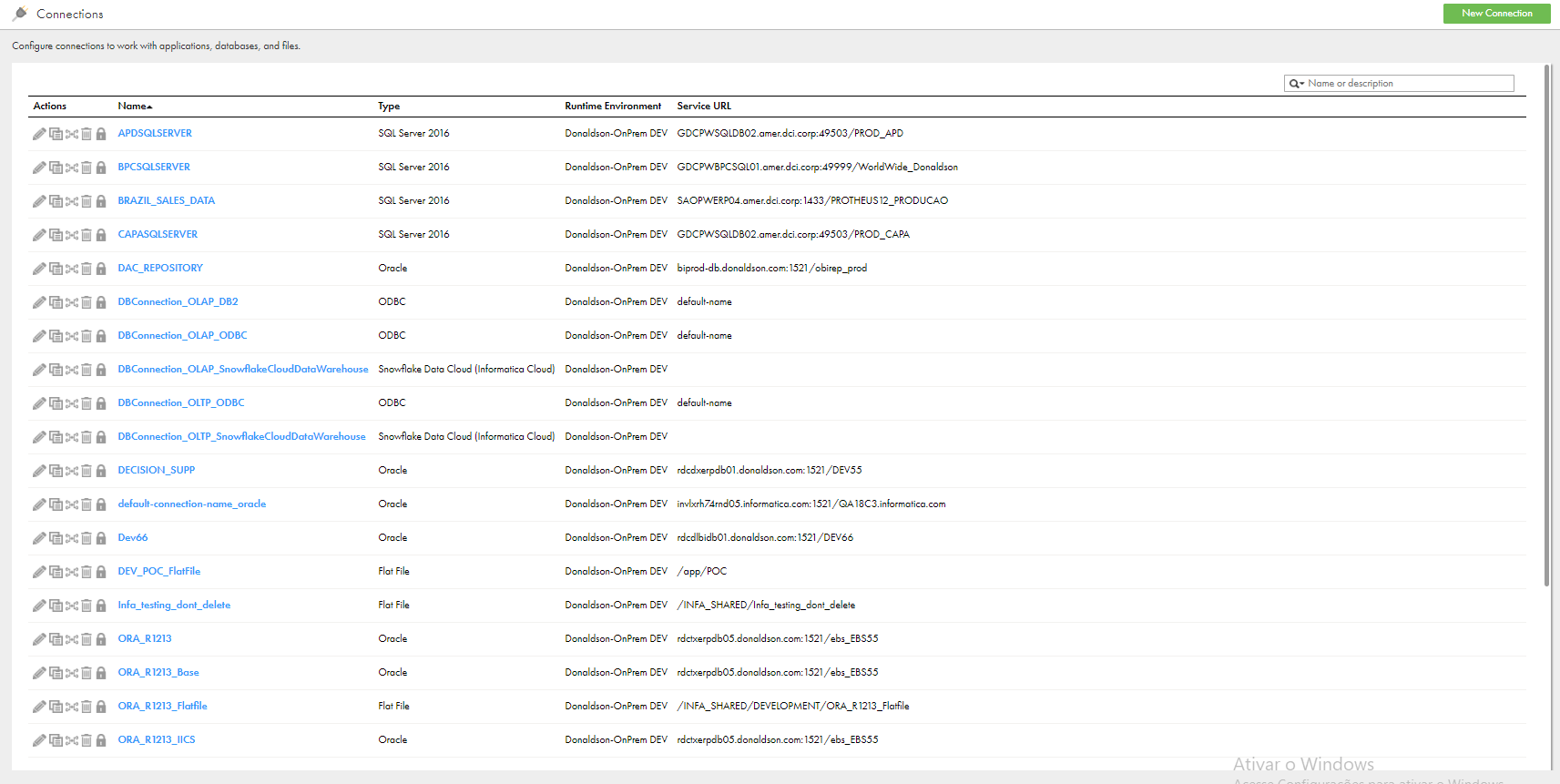
Any connection that might be used as a source in any mapping must first be done and set up through the Informatica Administrator menu.



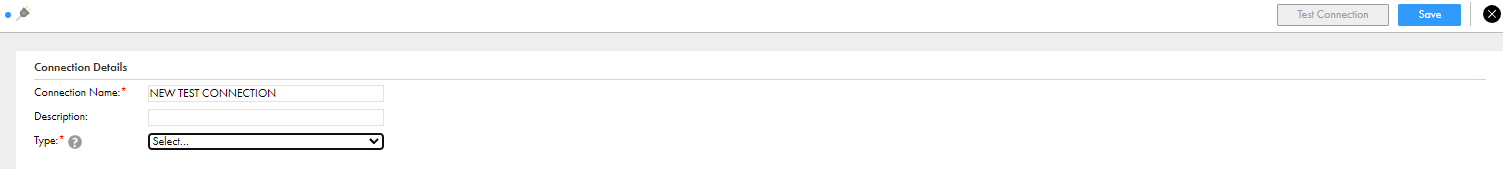
* Selecting the “Connections” tab in the Administrator menu.



* The user might be able to visualize a list of all the Source Connections created and their own specifications in each connection.

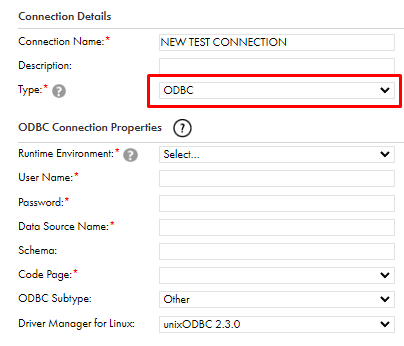


The user can even create any desired connection by clicking on the green “New Connection” button on the upper-right side of the page.  
  
This item will lead to a “New Connection” screen that makes it possible to create connections with particular specifications such as “Name”,” Description”, and “Type”.



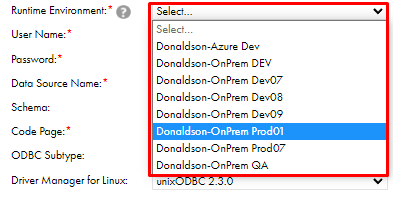
The use of “Type” field must be used according to the type of java connection or API that the IICS will reach when any database listener receives the access request.

For example, in this case, an Oracle Database connector:

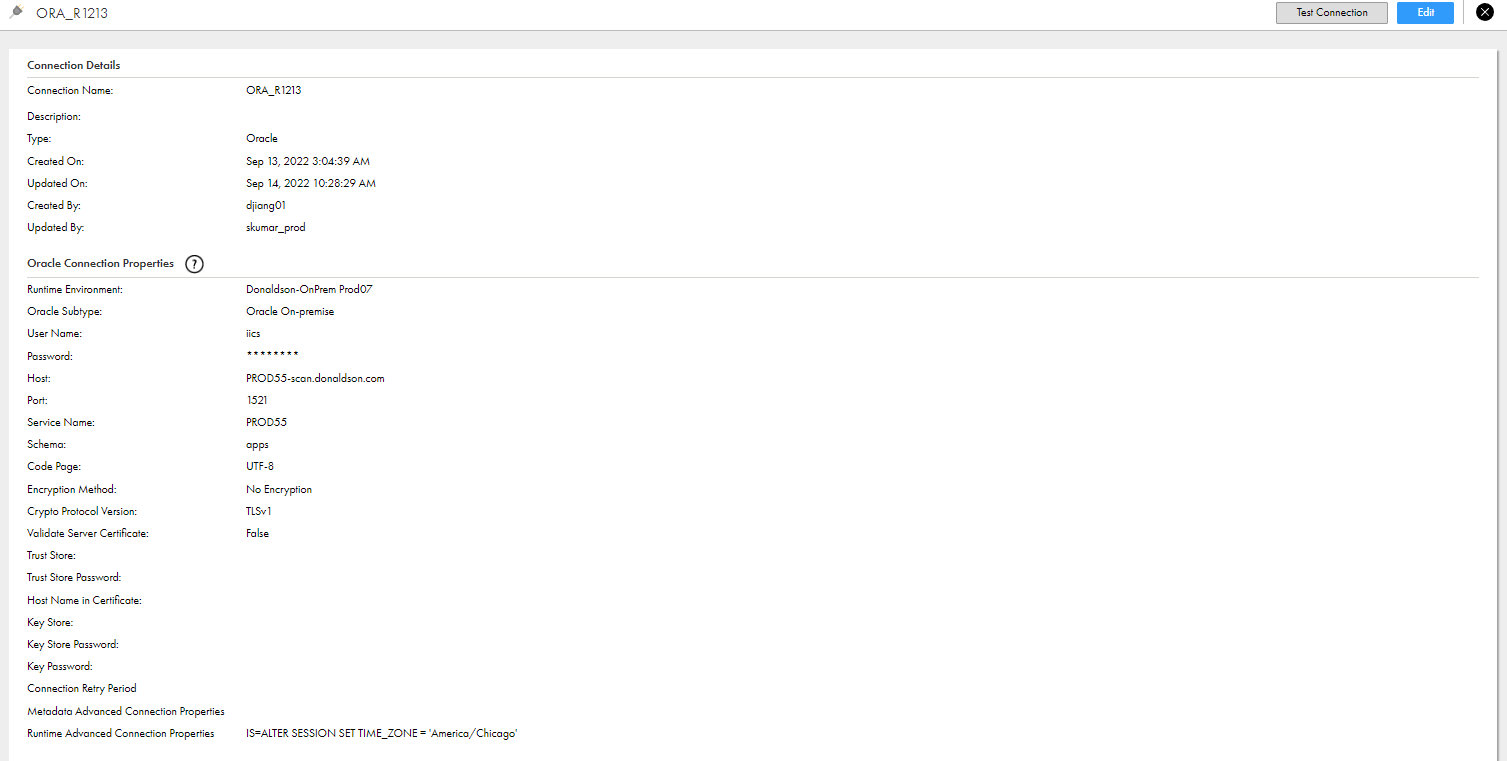


Ask the tool Admin to correctly fulfill the connection specifications such as “Runtime Environment”, “User Name”, “Password”, “Data Source Name”, “Schema”, “Code Page”(usually UTF-8), and also in this specific connector “ODBC Subtype” along with “Driver Manager for Linux”(can be found in some others).

The tool also makes it possible to test the Database Connection before saving it. On the upper-right side of the screen.



ORA\_R1213  
Connection Setup and BackupThe ORA\_R1213: **This Oracle connection might be used in most of the mapping as a Source.**  
The connection can be found in the same previous subject in the list of connections part. [Mentioned](#_Source_Connection_Setup) before in this same document.   
  
This connection must be kept with these specifications in all three environments.  
**Remind changing the Runtime Environment of the connection and also redirect the other specifications to the** **desired environment. Ask the tool admin for more information.  
This image below stands for a PROD SAMPLE screenshot (production connection sample of specifications setup):**



Donaldson Environments Scripts Directories  
(Virtual Machines path DEV/Q.A./PROD)  
  
All three environment Informatica files and Scripts can be accessed from any file-transfer tool installed in the Users Citrix VDI.  
To access the content, each environment has its own credentials.

* Development (DEV) environment credentials:
* Quality Assurance (Q.A.) environment credentials:
* Production (PROD) environment credentials:

Scripts Folder:  
Important Files:  
Must be copied