

Creating a Db2 Warehouse on Cloud instance in Bluemix



Selecting the Db2 Warehouse on Cloud icon in the DSX Lab #1 notebook creates a new tab with the following screen. Note: if your Bluemix credentials are already loaded you will be brought directly to the Db2 Warehouse on Cloud create screen.

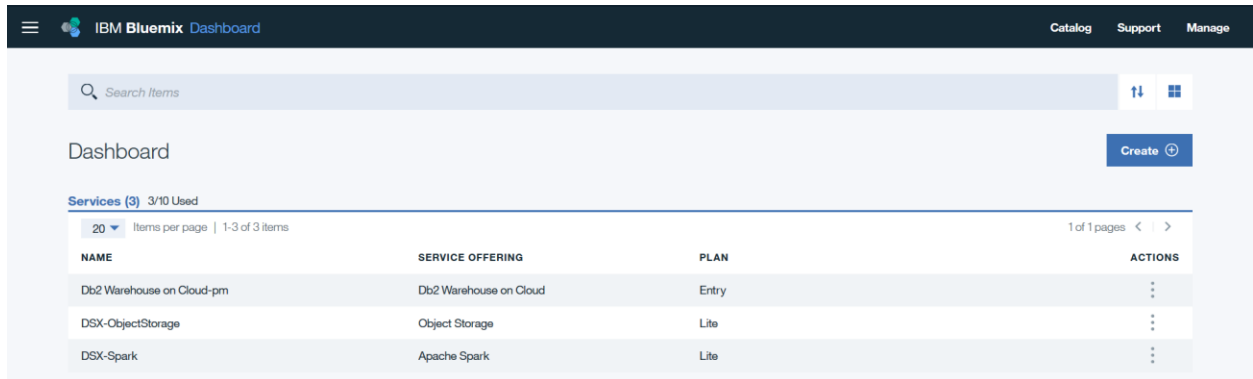
The screenshot shows the IBM Bluemix Catalog page for 'Db2 Warehouse on Cloud'. The page includes a header with 'IBM Bluemix Catalog', 'Docs', 'Catalog', 'Log In', and 'Sign Up' buttons. Below the header, there's a 'View all' link and the title 'Db2 Warehouse on Cloud'. The main content area is divided into two columns. The left column contains a description of the service, its features, and a 'View Docs' link. The right column contains a 'Features' section with four bullet points: 'Fully managed, safe, and secure', 'Highly Available (HA) with MPP', 'Compatible with Netezza and Oracle', and 'Built for the hybrid cloud'. Below the features, there's an 'Images' section with a carousel of screenshots showing the user interface. At the bottom, there's a 'Need Help? Contact Bluemix Sales' link and a 'Sign up to Create' button.

Select **Log In**

Log In should log you into Bluemix using your DSX credentials and bring you to the Db2 Warehouse on Cloud create screen

The screenshot shows the IBM Bluemix Catalog page for 'Db2 Warehouse on Cloud', specifically the 'Create' screen. The page includes a header with 'IBM Bluemix Catalog', 'Catalog', 'Support', and 'Manage' buttons. Below the header, there's a 'View all' link and the title 'Db2 Warehouse on Cloud'. The main content area is divided into two columns. The left column contains a description of the service, its features, and a 'View Docs' link. The right column contains a 'Service name' field with the value 'Db2 Warehouse on Cloud-5j', a 'Select region to deploy in:' dropdown menu with 'US South' selected, a 'Choose an organization:' dropdown menu with 'jpatter@us.ibm.com' selected, and a 'Choose a space:' dropdown menu with 'DEMO' selected. Below these fields, there's a 'Features' section with four bullet points: 'Fully managed, safe, and secure', 'Highly Available (HA) with MPP', 'Compatible with Netezza and Oracle', and 'Built for the hybrid cloud'. At the bottom, there's a 'Need Help? Contact Bluemix Sales' link, an 'Estimate Monthly Cost Cost Calculator' link, and a 'Create' button.

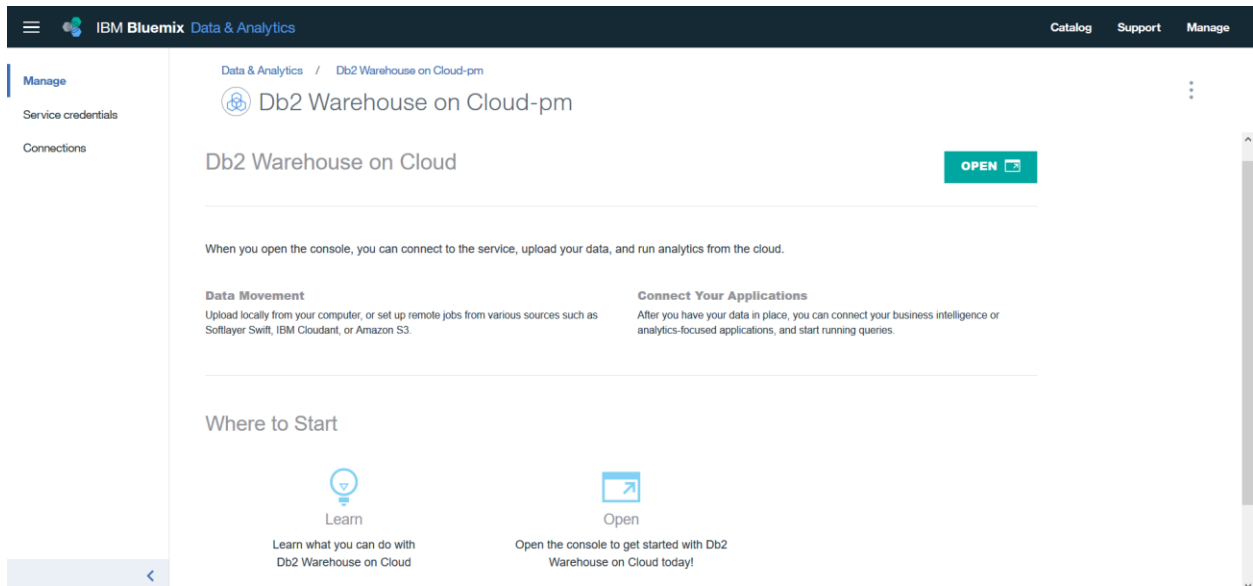
Provide a name for the Db2 Warehouse on Cloud service or take the default. **Create** the Db2 Warehouse on Cloud instance – you will be directed to the Dashboard and see something similar to (or you may go directly to the Db2 Warehouse on Cloud service screen as shown on the next page)



The screenshot shows the IBM Bluemix Dashboard. At the top, there's a navigation bar with the IBM Bluemix logo and 'Dashboard' text. On the right, there are links for 'Catalog', 'Support', and 'Manage'. Below the navigation bar is a search bar labeled 'Search Items'. The main content area is titled 'Dashboard' and includes a 'Create' button. A section titled 'Services (3) 3/10 Used' displays a table of services. The table has columns for 'NAME', 'SERVICE OFFERING', 'PLAN', and 'ACTIONS'. The services listed are 'Db2 Warehouse on Cloud-pm', 'DSX-ObjectStorage', and 'DSX-Spark'.

NAME	SERVICE OFFERING	PLAN	ACTIONS
Db2 Warehouse on Cloud-pm	Db2 Warehouse on Cloud	Entry	⋮
DSX-ObjectStorage	Object Storage	Lite	⋮
DSX-Spark	Apache Spark	Lite	⋮

Select the **Db2 Warehouse on Cloud** service – this brings you to the following



The screenshot shows the IBM Bluemix Data & Analytics page for 'Db2 Warehouse on Cloud-pm'. The page has a left sidebar with 'Manage', 'Service credentials', and 'Connections'. The main content area is titled 'Db2 Warehouse on Cloud' and includes an 'OPEN' button. Below the title, there's a description: 'When you open the console, you can connect to the service, upload your data, and run analytics from the cloud.' There are two sections: 'Data Movement' and 'Connect Your Applications'. At the bottom, there's a 'Where to Start' section with two options: 'Learn' (Learn what you can do with Db2 Warehouse on Cloud) and 'Open' (Open the console to get started with Db2 Warehouse on Cloud today!).

Db2 Warehouse on Cloud **OPEN**

When you open the console, you can connect to the service, upload your data, and run analytics from the cloud.

Data Movement
Upload locally from your computer, or set up remote jobs from various sources such as Softlayer Swift, IBM Cloudant, or Amazon S3.

Connect Your Applications
After you have your data in place, you can connect your business intelligence or analytics-focused applications, and start running queries.

Where to Start

Learn
Learn what you can do with Db2 Warehouse on Cloud

Open
Open the console to get started with Db2 Warehouse on Cloud today!

Select **OPEN** to open the Db2 Warehouse on Cloud console.

IBM Db2 Warehouse on Cloud
Load
Explore
Run SQL
Analyze
0%
dsxspare3@gmail.com
Upgrade

Quick stats

Connect to Db2 Warehouse on Cloud

Select a client

Select a client for details about getting your applications connected to Db2 Warehouse on Cloud.

Load activity

STATUS	SOURCE	FILENAME	TARGET	REQUESTED BY	ROWS LOADED	ROWS REJECTED
You have no recent load jobs						

Load data

Close the Quick Tour and select **Load**

IBM Db2 Warehouse on Cloud
Load
Explore
Run SQL
Analyze
0%
dsxspare3@gmail.com
Upgrade

Source
Target
Define
Finalize
Next

Select a data source

My computer
A single delimited text file (CSV).
Amazon S3
SoftLayer Swift
More ways to load
Lift

File selection

Drag a file here or [browse files](#)

☐ High-speed loads powered by Aspera

Browse files and select the **DQIM-SupplyChain-Data.csv** file which you should have downloaded previously.

IBM Db2 Warehouse on Cloud | Load | Explore | Run SQL | Analyze | 0% | dash10135 | Upgrade

Source | Target | Define | Finalize

You are loading the file **DQIM-SupplyChain-Data.csv**

My computer
A single delimited text file (CSV).

S3 Amazon S3
SoftLayer Swift

More ways to load
Lift

File selection
Drag a file here or [browse files](#)

High-speed loads powered by Aspera

Selected file
DQIM-SupplyChain-Data.csv

Next

Select **Next**.

Select the schema. Select the one that has **DASH** in it.

Source | Target

You are loading the file **DQIM-SupplyChain-Data.csv**

Select a load target

Schema
Find a schema

DASH10135 ✓

ERRORSCHEMA

GOSALES Sample

GOSALESDW Sample

GOSALESHR Sample

GOSALESMR Sample

GOSALESRT Sample

SAMPLES Sample

ST_INFORMTN_SCHEMA

Select **New Table** and enter **SUPPLYCHAIN** for the table name

Source | Target | Define | Finalize

You are loading the file **DQIM-SupplyChain-Data.csv**

Select a load target

Schema
Find a schema

DASH10135 ✓

ERRORSCHEMA

GOSALES Sample

GOSALESDW Sample

GOSALESHR Sample

GOSALESMR Sample

GOSALESRT Sample

SAMPLES Sample

ST_INFORMTN_SCHEMA

Table
Find a table in DASH10135

SUPPLYCHAIN

SUPPLYCHAIN_PREDICT

Create a new table
SUPPLYCHAIN

Create

Select Create

IBM Db2 Warehouse on Cloud

Load

Explore

Run SQL

Analyze

0%

dash10135

Upgrade

Source

Target

Define

Finalize

Back

Next

You are loading the file **DQIM-SupplyChain-Data.csv** into **DASH10135.SUPPLYCHAIN**

Select a load target

Schema

Find a schema

DASH10135

ERRORSCHEMA

GOSALES *Sample*

GOSALESDW *Sample*

GOSALESHR *Sample*

GOSALESMR *Sample*

GOSALESRT *Sample*

SAMPLES *Sample*

ST_INFORMTN_SCHEMA

Table

Find a table in DASH10135

New Table

SUPPLYCHAIN

SUPPLYCHAIN_PREDICT

Table definition

SUPPLYCHAIN

21.8K+ rows (704 KB)

Updated on 2/22/2018 at 12:45:14 AM

Append new data

Overwrite table with new data

COLUMN NAME

DATA TYPE

NULLAB...

Report #

VARCHAR

Y

Title

VARCHAR

Y

Report Type

VARCHAR

Y

Category

VARCHAR

Y

Severity

VARCHAR

Y

Date Discovered

VARCHAR

Y

Date Reported

VARCHAR

Y

Select Next

IBM Db2 Warehouse on Cloud

Load

Explore

Run SQL

Analyze

0%

dash10135

Upgrade

Source

Target

Define

Finalize

Back

Next

You are loading the file **DQIM-SupplyChain-Data.csv** into **DASH10135.SUPPLYCHAIN**

Define table

Code page (character encoding): 1208

Separator: ,

Header in first row: ☒

Time & date format:

	REPORT #	TITLE	REPORT TYPE	CATEGORY	SEVERITY	D
	VARCHAR	VARCHAR	VARCHAR	VARCHAR	VARCHAR	V
1	A2UN-1-100422411	A2UN-1-92251791 Post SPIR Update	DQIM	CAT II	High	11/
2	A2UN-1-100616351	Duplicate Inventory: 2AF:0076/13-5070 requires PN/SN updates to EOTS Assy	DQIM	CAT II	Low	11/
3	A2UN-1-101732671	Holes for P5 folting AARI MOD	DQIM	CAT I	Medium	12/
4	A2UN-1-103416581	Substitute of GUC	Supply Chain	CAT II	Low	12/
5	A2UN-1-14584147	Variances in EEL and ALIS 1.0.3	DQIM	CAT II	Low	2/1
6	A2UN-1-15064451	Update 2WSH72412-0003 Serial Number for 2BF:21 (VK01, 168719)	DQIM	CAT II	Low	3/2
7	A2UN-1-15066921	Update 2GHH42015-0003 Serial Number for 2AF:23 (10-5011)	DQIM	CAT II	Low	3/2
8	A2UN-1-15066921	Update 2FV000000066 Serial Number for 2AF:23 (10-5011)	DQIM	CAT II	Low	3/2

Select Next

IBM Db2 Warehouse on Cloud

LoadExploreRun SQLAnalyze

0%

dash10135

Upgrade

Source

Target

Define

Finalize

Back

Begin Load

You are loading the file *DQIM-SupplyChain-Data.csv* into *DASH10135.SUPPLYCHAIN*

Review settings

Summary

Code page:

1208

Separator:

,

Header in first row:

Yes

Time format:

HH:MM:SS (Default)

Date format:

YYYY-MM-DD (Default)

Timestamp format:

HH:MM:SS (Default)

String delimiter:

" (Default)

Option

Maximum number of warnings

1000

Select Begin Load

IBM Db2 Warehouse on Cloud

LoadExploreRun SQLAnalyze

0%

dash10135

Upgrade

Load details

COMPLETE

My computer

DQIM-SupplyChain-Data.csv

Target

DASH10135.SUPPLYCHAIN

View Table

Load More Data

Status

Settings

Errors 0

Warnings 0

21,884

21,884

0

Rows read

Rows loaded

Rows rejected

Start time

2/22/2018 at 12:45:13 AM EST

End time

2/22/2018 at 12:45:15 AM EST

The data load job succeeded.

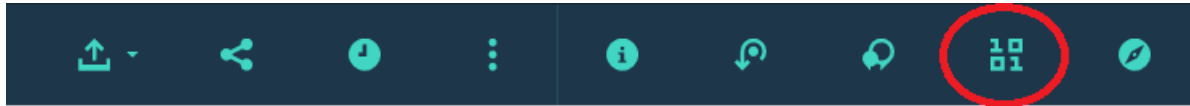
You can now work with your data.

No errors

Now that a Db2 Warehouse on Cloud instance has been created, add it as a source to DSX in the next section.

Adding Db2 Warehouse on Cloud as a DSX Data Source

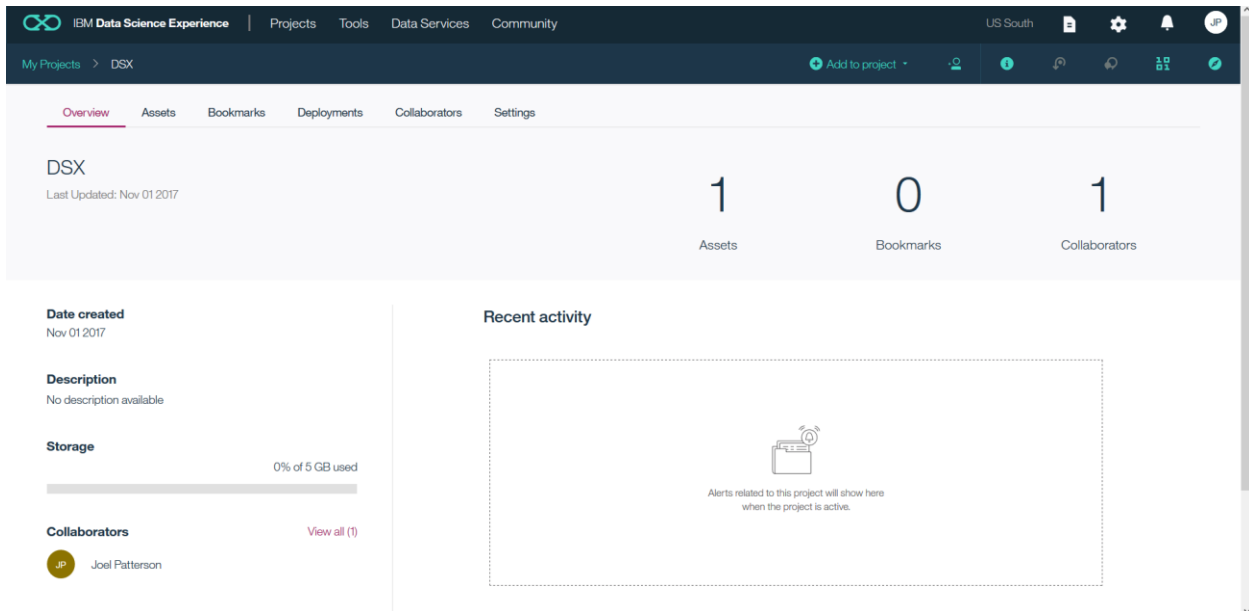
Click the box of 1's and 0's which allows you to insert file or data connections. Select the **Connections** tab.

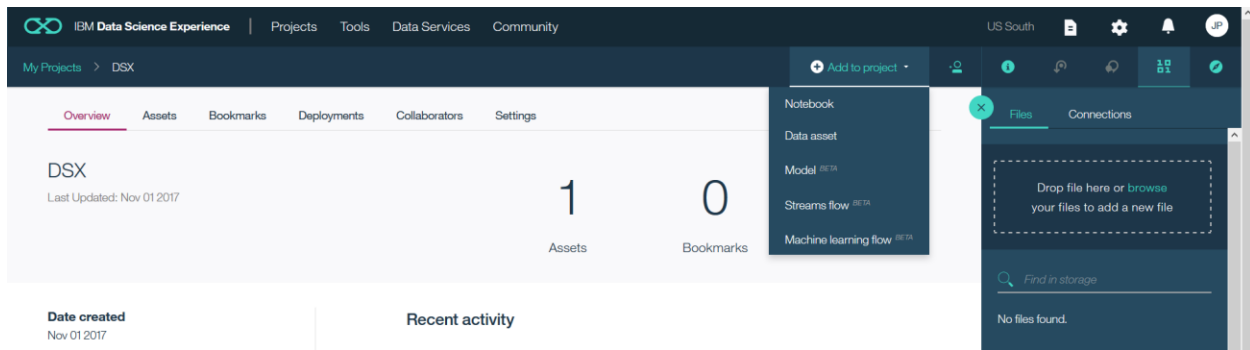


You should not have any connections defined.

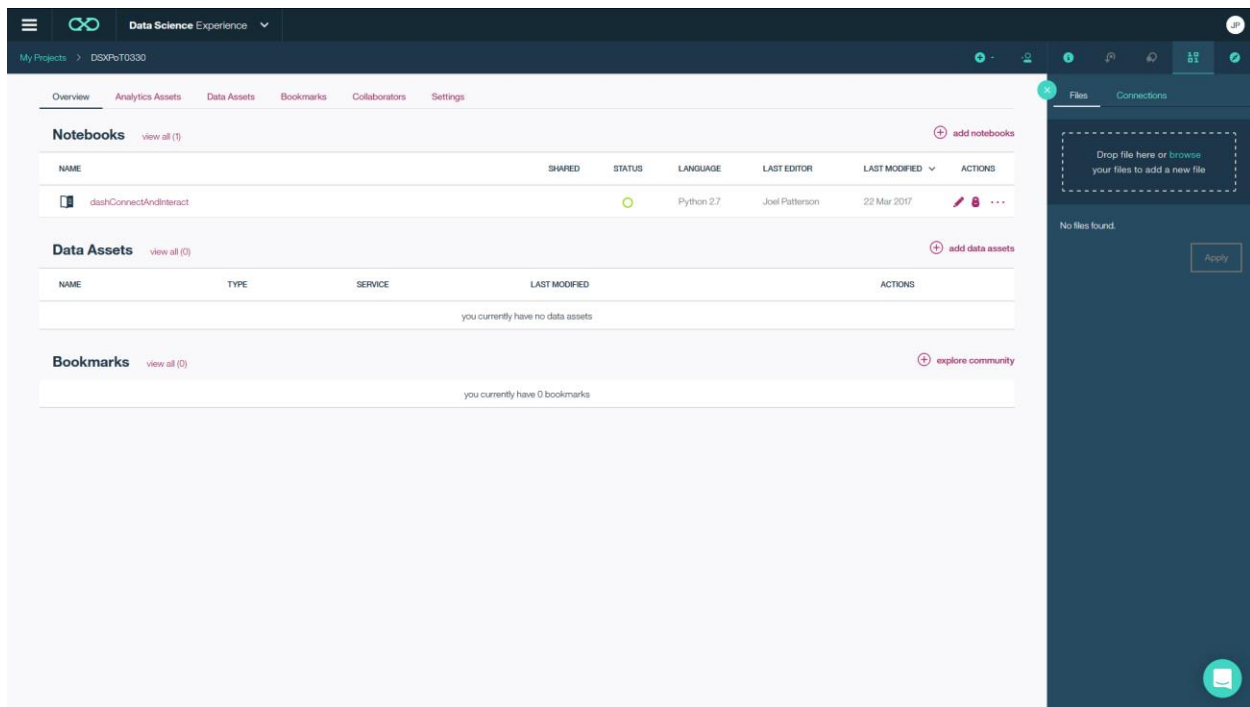


Select **project page** to create a new tab in your browser displaying the project page:

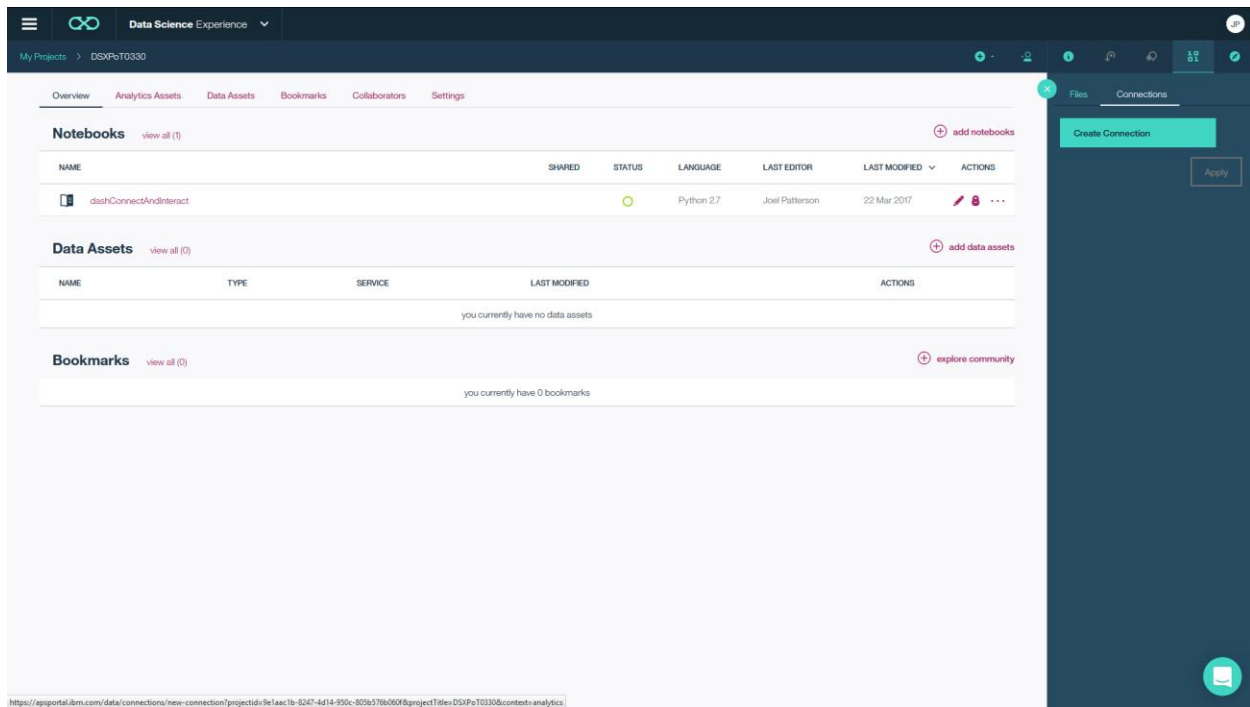




Select **Data asset**



Select **Connections**.



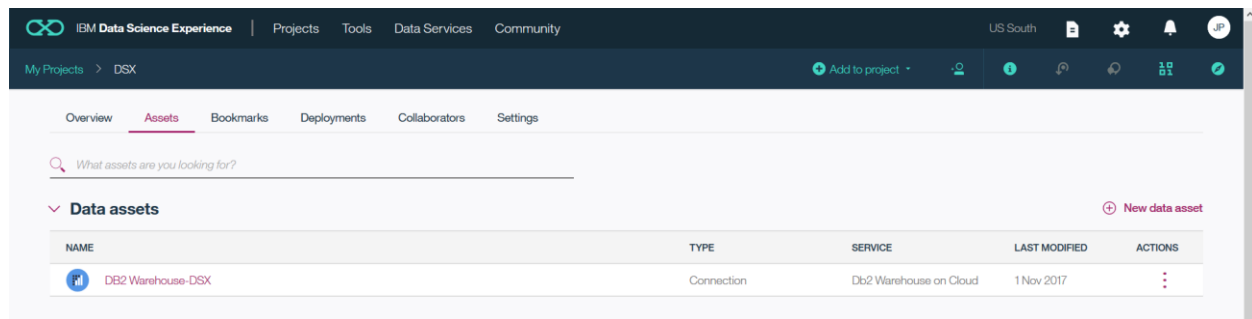
Select Create Connection

The screenshot shows the 'Create Connection' form in the IBM Data Science Experience interface. The form includes the following fields and options:

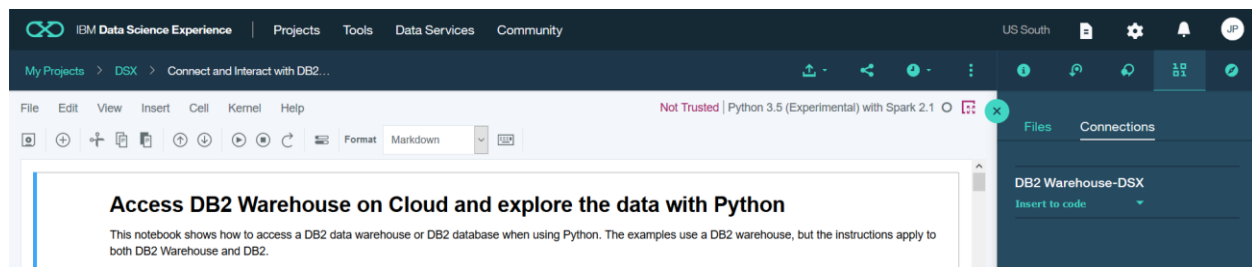
- Name:** Db2 Warehouse on Cloud
- Description:** Connection description
- Service Category:** Data Service (selected), External
- Service Instance:** Db2 Warehouse on Cloud: Db2 Warehouse on Cloud-ita
- Database:** BLUDB
- Buttons:** Create, Cancel

Pick a name for your **Db2 Warehouse on Cloud** connection, an optional description, and then select the **Service Instance** (name will be what you picked when creating the instance) and **Database** (BLUDB).

Create.



The connection will now show in your list of **Data Assets**.



And will automatically update in the list of **Connections** for your notebook.