

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.

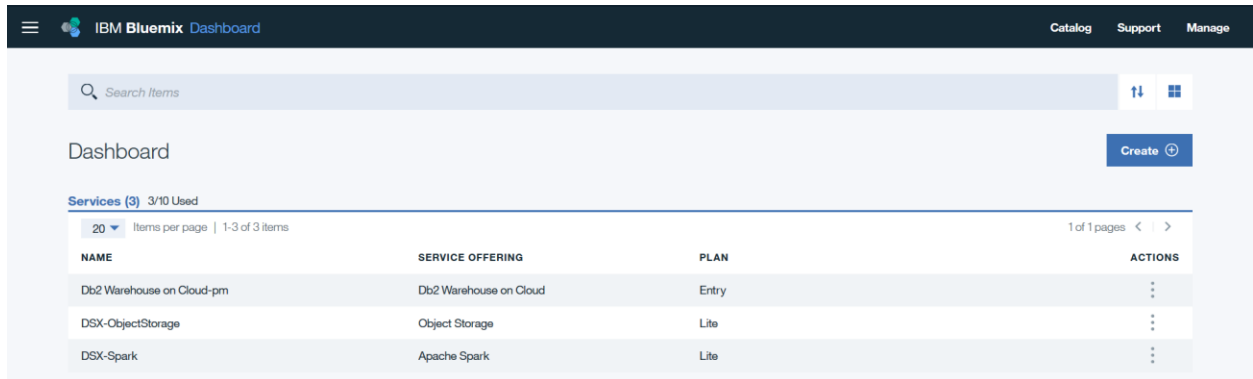
The screenshot shows the IBM Bluemix Catalog page for 'Db2 Warehouse on Cloud'. The page includes a header with 'IBM Bluemix Catalog', 'Docs', 'Catalog', 'Log In', and 'Sign Up' buttons. Below the header, there's a 'View all' link and the title 'Db2 Warehouse on Cloud'. The main content area is divided 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 description and a series of screenshots showing the user interface. At the bottom, there's a 'Need Help? Contact Bluemix Sales' link and a 'Log in' button next to 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'. Below this, there are three dropdown menus: 'Select region to deploy in:' with the value 'US South', 'Choose an organization:' with the value 'jpatter@us.ibm.com', and 'Choose a space:' with the value 'DEMO'. Below these, 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.

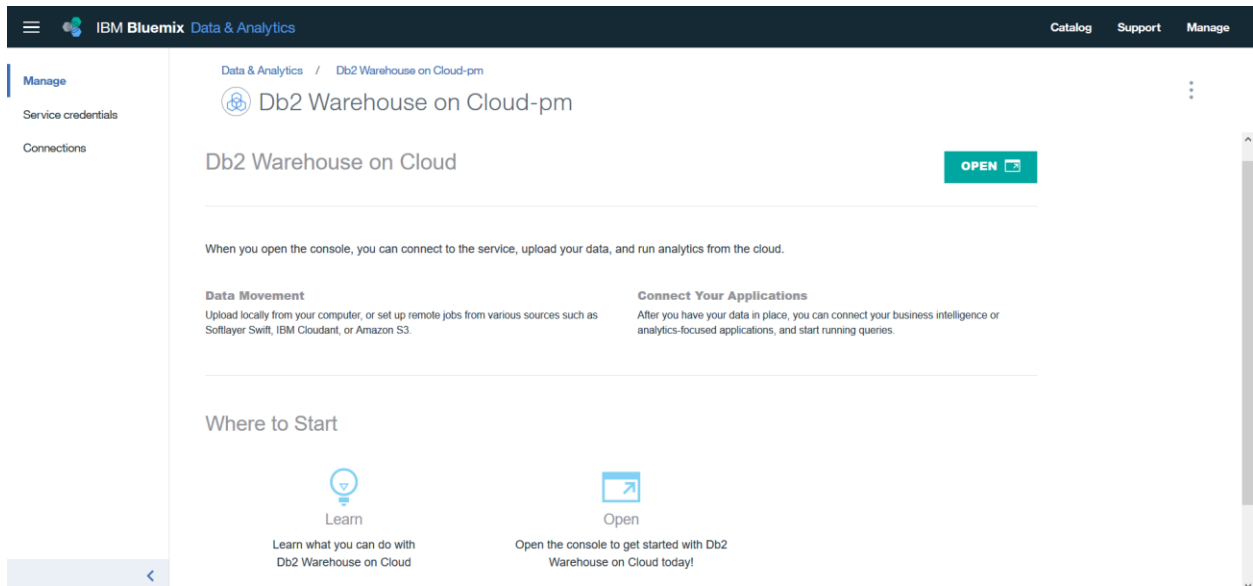
Provide a name for the Db2 Warehouse on Cloud service or take the default. **Create** the Db2 Warehouse on Cloud instance – you will be directed to the Dashboard and see something similar to (or you may go directly to the Db2 Warehouse on Cloud service screen as shown on the next page)



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 Db2 Warehouse on Cloud console page. The top navigation bar includes the IBM Bluemix logo and 'Data & Analytics'. On the right, there are links for 'Catalog', 'Support', and 'Manage'. A left sidebar contains a 'Manage' section with sub-links for 'Service credentials' and 'Connections'. The main content area is titled 'Db2 Warehouse on Cloud-pm' and features a green 'OPEN' button. Below this, there's a paragraph explaining that users can connect to the service, upload data, and run analytics. Two sections, 'Data Movement' and 'Connect Your Applications', provide further details. At the bottom, a 'Where to Start' section offers 'Learn' and 'Open' options with corresponding icons and descriptions.

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 **female_human_trafficking.csv** file which you should have downloaded previously.

IBM Db2 Warehouse on Cloud
Load
Explore
Run SQL
Analyze
0%
dsxsparse3@gmail.com
Upgrade

Source
Target
Define
Finalize

Back
Next

You are loading the file `Female-human-trafficcking.csv` into `DASH14899.FEMALE_HUMAN_TRAFFICKING`

Select a load target

Schema
Find a schema
DASH14899
ERRORSCHEMA
GOSALES Sample
GOSALESDW Sample
GOSALESHR Sample
GOSALESMPR Sample
GOSALESRT Sample
SAMPLES Sample
ST_INFORMTN_SCHEMA

Table
Find a table in DASH14899
FEMALE_HUMAN_TRAFFICKING

New Table

Table definition
FEMALE_HUMAN_TRAFFICKING
No statistics available
Specify the table columns in the next step.

IBM Db2 Warehouse on Cloud

Load

Explore

Run SQL

Analyze

0%

dsxspar3@gmail.com

Upgrade

Source

Target

Define

Finalize

Back

Next

You are loading the file `Female-human-trafficking.csv` into `DASH14899.FEMALE_HUMAN_TRAFFICKING`

Define table

Code page (character encoding): 1208

Separator: ,

Header in first row: ☒

Time & date format:

Detect data types: ☒

Date format: YYYY-MM-DD

Time format: N/A

Timestamp format: N/A

	INTERNAL_ID SMALLINT	VETTING_LEVEL SMALLINT	DESCRIPTION VARCHAR (2)	VETTING_LEVEL_PREDICTION SMALLINT	ALGORITHM_NAME VARCHAR (13)	NAME VARCHAR (27)	GENDER VARCHAR (1)	BIRTH DATE
1	1	100	NA	30	DECISION_TREE	Kathleen Bailey	F	1985-1
2	2	30	NA	30	DECISION_TREE	Kelly Robbins	F	1971-0
3	3	100	NA	30	DECISION_TREE	Linda Stewart	F	1997-0
4	4	100	NA	30	DECISION_TREE	Stacey Courtney Gonzalez	F	1984-0
5	5	30	NA	30	DECISION_TREE	Erika Patie Fowler	F	1998-0
6	6	100	NA	30	DECISION_TREE	Ashlee Fisher	F	1981-0
7	7	100	NA	30	DECISION_TREE	Jacqueline Clark	F	1976-0

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

Source
Target
Define
Finalize
Back
Begin Load

You are loading the file *Female-human-trafficking.csv* into *DASH14899.FEMALE_HUMAN_TRAFFICKING*

Review settings

Summary

Code page: 1208
Separator: ,
Header in first row: Yes
Time format: HH:MM:SS (Default)
Date format: M/D/YYYY
Timestamp format: YYYY-MM-DD HH:MM:SS (Default)
String delimiter: * (Default)

Option

Maximum number of warnings: 1000

Select Begin Load

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

Load details

COMPLETE

My computer
Female-human-trafficking.csv

Target
DASH14899.FEMALE_HUMAN_TRAFFI...

View Table
Load More Data

Status
Settings

1,085

1,085

0

Rows read

Rows loaded

Rows rejected

Start time
10/6/2017 at 9:58:33 AM Eastern Standard Time
End time
10/6/2017 at 9:58:34 AM Eastern Standard Time

Errors

Warnings

Download Log

COMPLETE

My computer
Female-human-trafficki...

Target
DASH14899.FEMALE_...

1,085

1,085

0

Rows read

Rows loaded

Rows rejected

Start time
10/6/2017 at 9:58:33 AM Eastern Standard Time
End time
10/6/2017 at 9:58:34 AM Eastern Standard Time

Errors

Warnings

Download Log

COMPLETE

My computer
Female-human-trafficki...

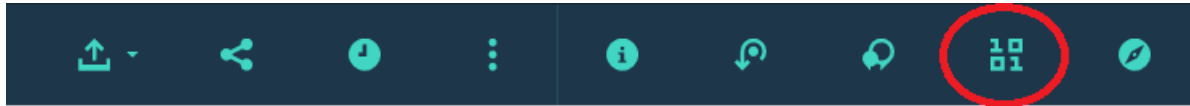
Target
DASH14899.FEMALE_...

The table is now loaded. You may exit Bluemix or close the tab if desired.

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

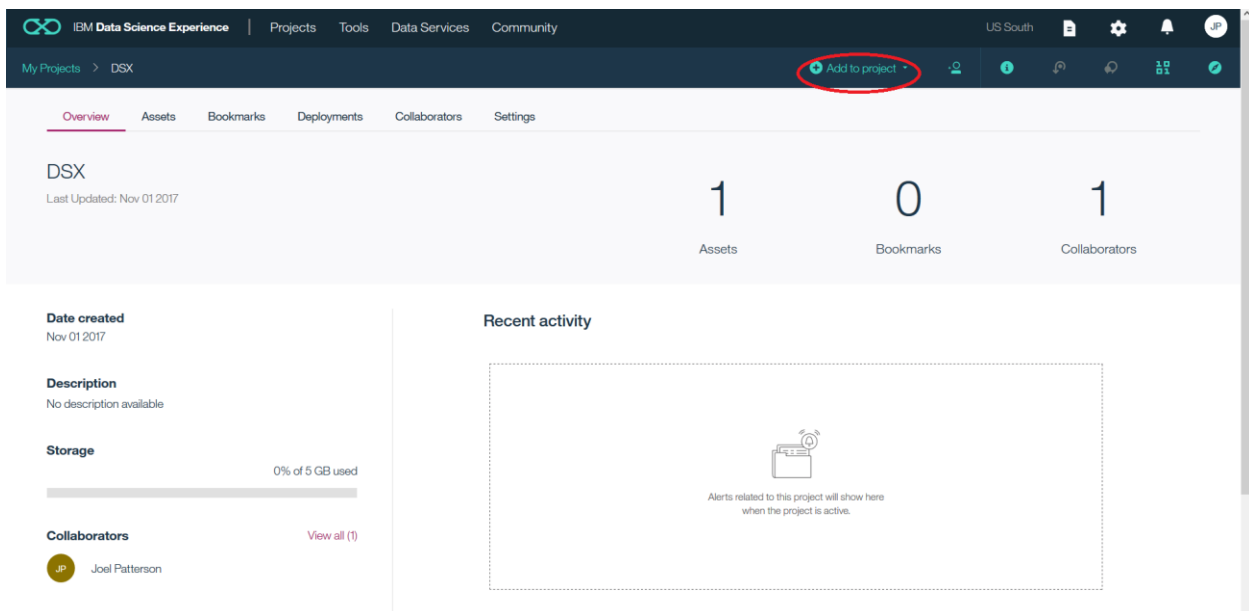
Click the box of 1's and 0's which allows you to insert file or data connections. Select the **Connections** tab.



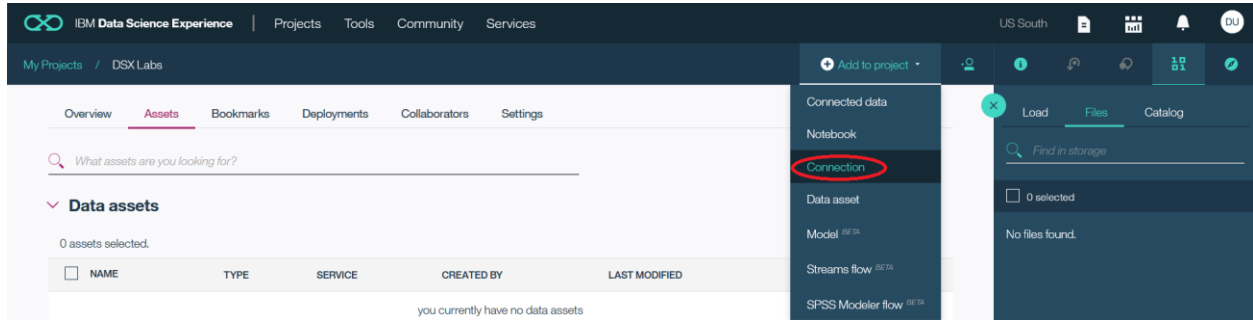
You should not have any connections defined. Select **project page** to create a new tab in your browser displaying the project page.



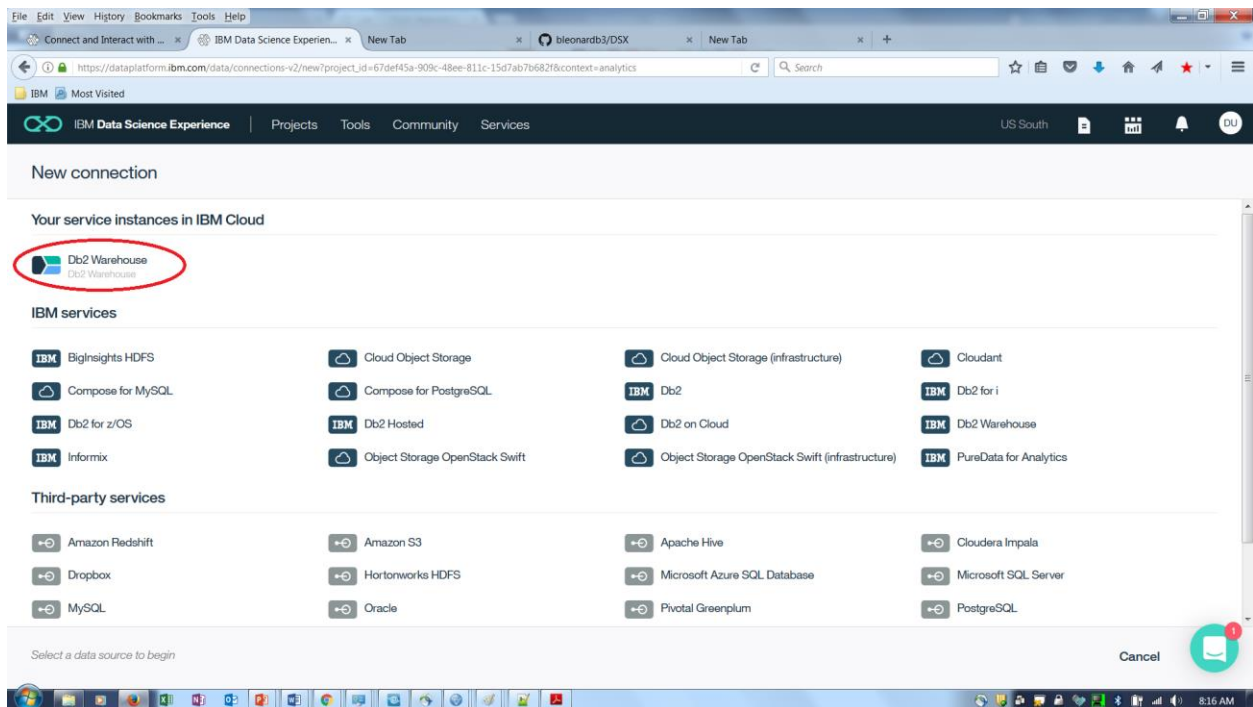
Select **Add to project**.



Select **Connection**



Select the **Db2 Warehouse** option.



Pick a name for your **Db2 Warehouse on Cloud** connection (or keep the default), an optional description, and then click **Create**.

File Edit View History Bookmarks Tools Help

Connect and Interact with ... IBM Data Science Experien... New Tab bleonardb3/DSX New Tab

https://dataplatform.ibm.com/data/connections-v2/new?project_id=67def45a-909c-48ee-811c-15d7ab7b6827&context=analytics

IBM Data Science Experience | Projects Tools Community Services US South

New connection (Db2 Warehouse - Db2 Warehouse)

Connection overview

Name

Db2 Warehouse

Description

IBM Db2 warehouse database on Cloud

Connection details

Hostname or IP Address *

dashdb-entry-yp-dal10-01.services.dal.bluemixn

Username *

dash7237

Secure Gateway

☐ Use a secure gateway

Database *

BLUDB

Password *

Enter information for the selected data source

Cancel **Create**

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

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My Projects / DSX Labs

Add to project

Overview **Assets** Bookmarks Deployments Collaborators Settings

What assets are you looking for?

Data assets

0 assets selected.

NAME	TYPE	SERVICE	CREATED BY	LAST MODIFIED	ACTIONS
Db2 Warehouse	Connection	Project	DSX14000 User	12 Feb 2018, 8:34:13 am	

Load Files Catalog

Find in storage

0 selected

No files found.

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

IBM Data Science Experience | Projects Tools Community Services US South

My Projects / DSX Labs / Connect and Interact with DB2...

File Edit View Insert Cell Kernel Help Trusted | Python 3.5 (Experimental) with Spark 2.1

Format Markdown

Access DB2 Warehouse on Cloud and explore the data with Python

This notebook shows how to access a DB2 data warehouse or DB2 database when using Python. The examples use a DB2 warehouse, but the instructions apply to both DB2 Warehouse and DB2.

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Files **Connections**

Db2 Warehouse

Insert to code

