

# Lab: Create Db2 service instance and Get started with the Db2 console

**Estimated time needed:** 15 minutes

From now on, the hands-on labs for this course require an environment for working with a relational database. To get you up and running quickly we will do so on the Cloud, so you don't have to worry about downloading or installing anything, rather, simply access your database from your web browser. IBM Cloud provides a large number of Data and Analytics services, including IBM Db2, a next generation SQL database.

## Objectives

After completing this lab, you will be able to:

- Use IBM cloud account to create and use resources
- Create an instance of a Db2 service
- Locate and explore the Db2 console

## Pre-requisites

You will need an IBM Cloud account to do this lab. If you have not created one already, click on this [link](#) and follow the instructions to create an IBM Cloud account.

### Task 1: Create an instance of IBM Db2 Lite plan

Now let us introduce you to Db2 on IBM Cloud. IBM Db2 is a next generation SQL database provisioned for you in the cloud. You can use Db2 on IBM Cloud just as you would use any database software (RDBMS), but without the overhead and expense of hardware setup or software installation and maintenance. Among the service plans offered for Db2 on IBM Cloud is the Lite plan, which is free to use. You can use your database instance to store relational data, analyze data using a built-in SQL editor, or by connecting your own apps.

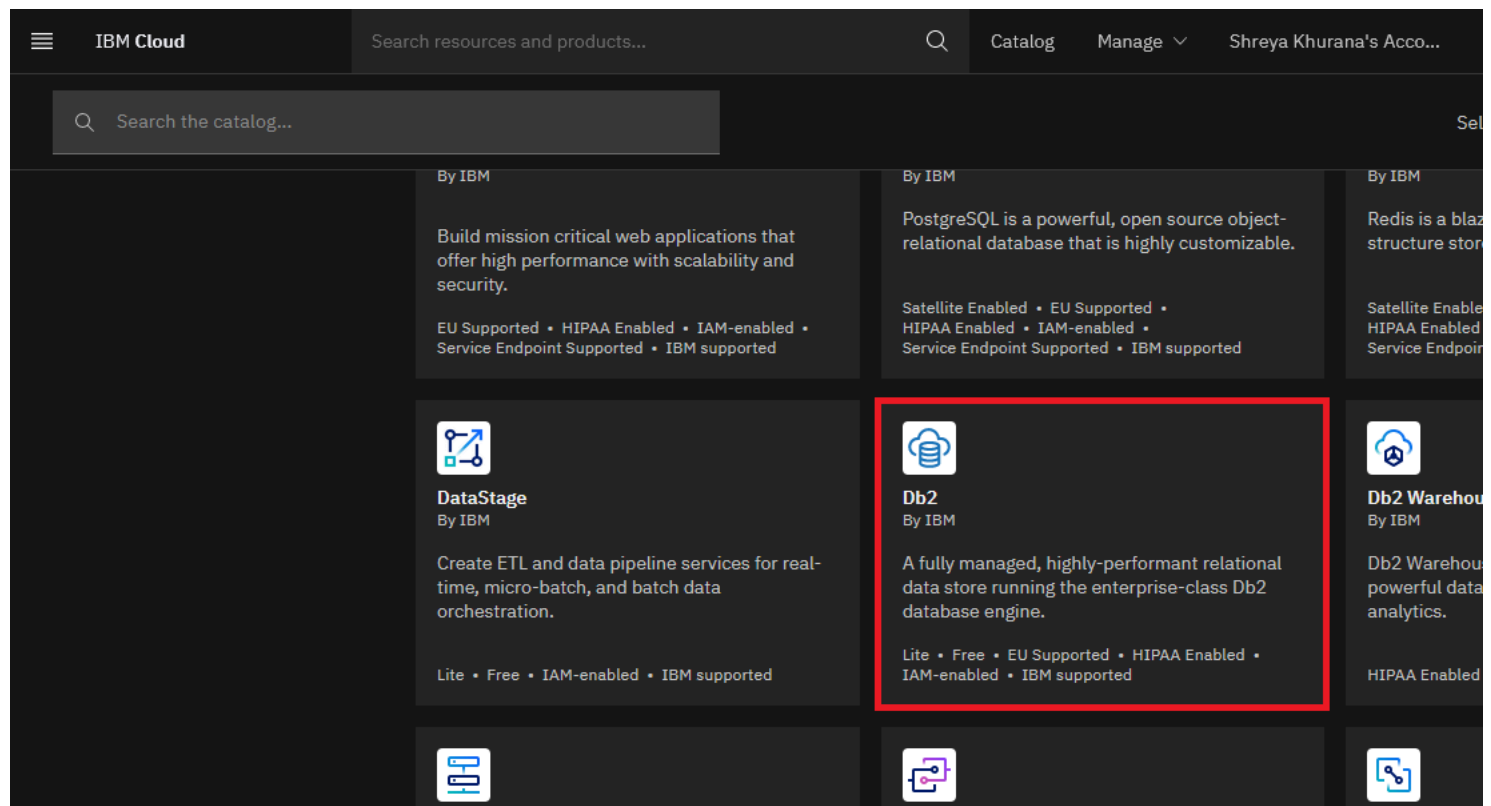
Note that IBM Cloud also provides other variants of Db2 such as Db2 Hosted and Db2 Warehouse on Cloud, which is also referred to in this course. However, for the labs in this course, we will utilize the Db2 service since it comes with a Lite plan which is free to use.

Please follow the steps given below to provision an instance of Db2 on IBM Cloud.

1. Login to [IBM Cloud](#)



2. Go to [the DB2 Services page on IBM Catalog](#).



3. Select a location where you want the service to be hosted.

**Note:** Depending on the Country of your IBM Cloud account, a location to deploy will be pre-selected. For example, if you are in the US, the default region will be Dallas. Users from the UK will see London and so on. Select either **DALLAS** or **LONDON** as the location. Make sure a **Region** is selected as the location, not a **Data center**.

cloud.ibm.com/catalog/services/db2 1

IBM Cloud Search resources and offerings...

Catalog / Services /

Db2

Author: IBM • Date of last update: 09/21/2020 • Docs • API docs

Create About

Select a region

Select a region

London

4. Scroll down to the Pricing Plans section and select the **Lite plan** (it's a free plan, and available only in **DALLAS** and **LONDON** at this point of time) or any other plans as required.
5. Then click on the **Create** button towards the lower-right of the page. It will spin for a few seconds (typically less than 30s) and then you should see a Service Created message indicating that your instance of Db2 was created successfully.

Plan	Features	Pricing
<b>Lite</b> 2	200 MB of data storage 15 simultaneous connections Shared multitenant system	Free
<p>The Free plan provides a free Db2 service for development and evaluation. The plan has a set amount of limits shown. You can continue using the free plan for as long as needed, however, users are asked to re-extend the account every 90 days by email. If you do not re-extend, your free account is cleaned out a further 90 days later to help provide free resources for everyone.</p> <p><b>Lite plan services are deleted after 30 days of inactivity.</b></p>		

## Task 2: Locate and Explore the Db2 console

Now that you have created your database instance, you need to know how to get to it, explore the console and start working with it.

- **NOTE:** You are not required to compose and run any SQL query on this exercise.

1. To access your database instance, go to your IBM Cloud Resource List (you may need to log into IBM Cloud in the process) directly at: [cloud.ibm.com/resources](https://cloud.ibm.com/resources)
  - **Alternative:** Go to your IBM Cloud account (you may need to login to IBM Cloud in the process) at: [cloud.ibm.com](https://cloud.ibm.com) and click **Resource List**.

The screenshot shows the IBM Cloud console interface. On the left, a sidebar contains a 'Resource list' menu item, which is highlighted with a red rectangle. Below it, various service categories are listed, including Classic Infrastructure, Cloud Foundry, Code Engine, Functions, Kubernetes, OpenShift, Satellite, Security and Compliance, VMware, VPC Infrastructure, API Management, and App Development. The main area of the console displays a dashboard with several tiles: 'Explore IBM Cloud Shell', 'Get Started with Watson Studio', and 'Build a Virtual Private Cloud (VPC)'. At the bottom, there are buttons for 'Manage users', 'News', and 'Planned maintenance'.

2. In the Resource list, expand the **Databases** heading and locate and click on your instance of Db2 you provisioned in exercise 2 (the name typically starts with Db2-xx for example Db2-fk, Db2-50, etc.)


The screenshot shows the IBM Cloud console with the 'Resource list' sidebar expanded. The 'Databases' category is selected, and a red rectangle highlights the 'Db2-pg' instance. The instance details are as follows:

Name	Group	Location	Product	Status
Db2-pg	Default	London	Db2	Active

3. Click on the **Go to UI** button.

Resource list /

# Db2-pr

✓ Active Add tags 

**Manage**

Getting started


Service credentials

Connections

## Getting started


Where can I find my credentials?


Get your username and password by clicking the "Service Credentials" link to the left and selecting "New Credentials"


Go to UI 


Getting started docs

4. The Db2 console will open in a new tab in your web browser. Click on the 3-bar menu icon in the top left corner and then click on **RUN SQL**.





 Dashboard


 **Run SQL**


 Data 

Run SQL

 Administration


 About

 APIs

 Documentation

Overview In-flight executions Connections S

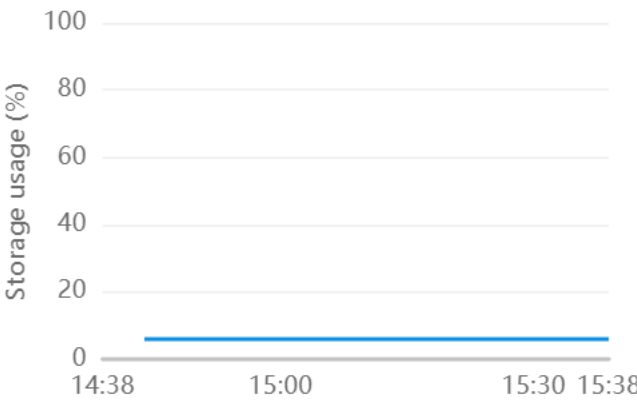
### Resource usage

Last 1 hour 

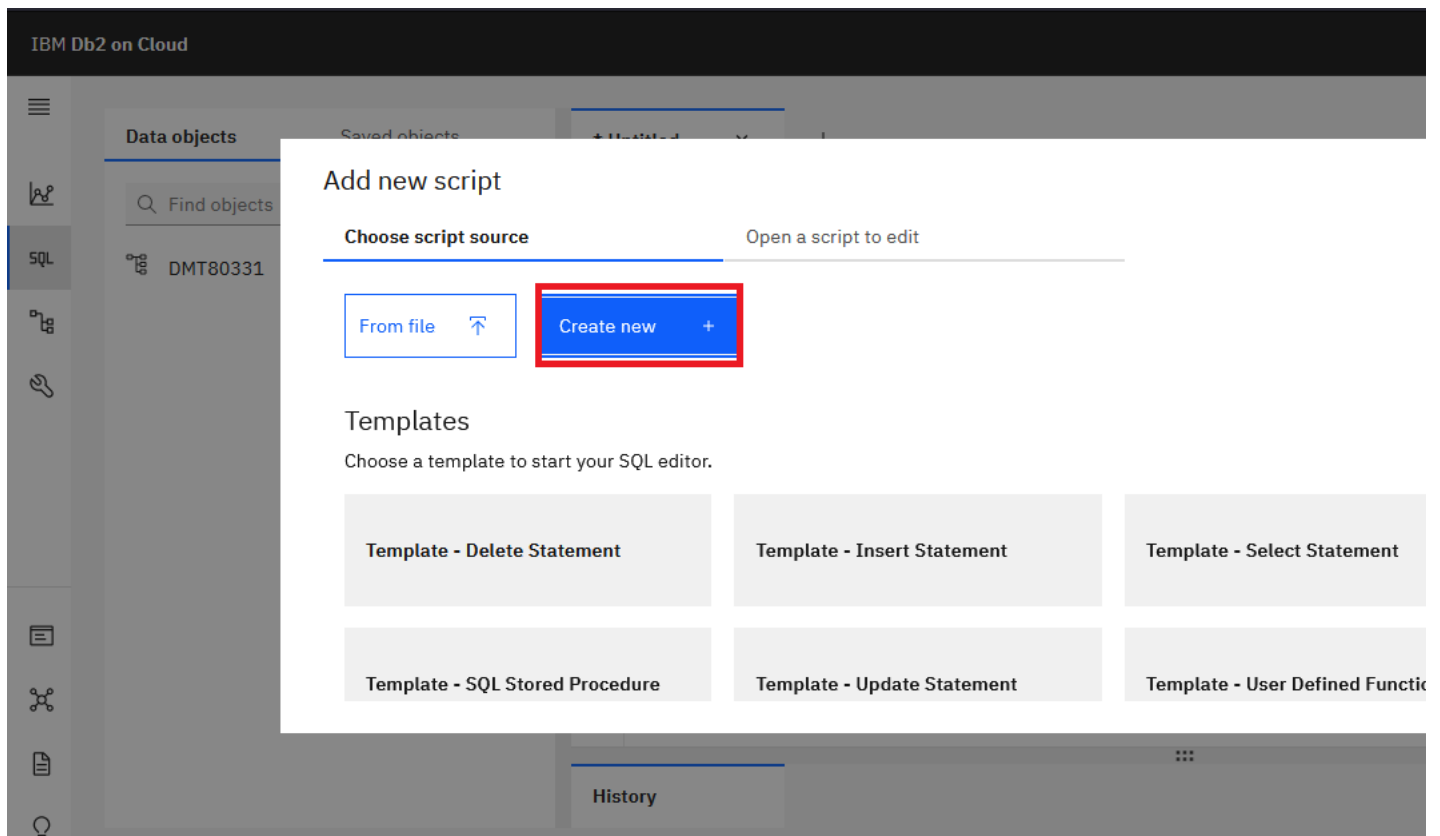
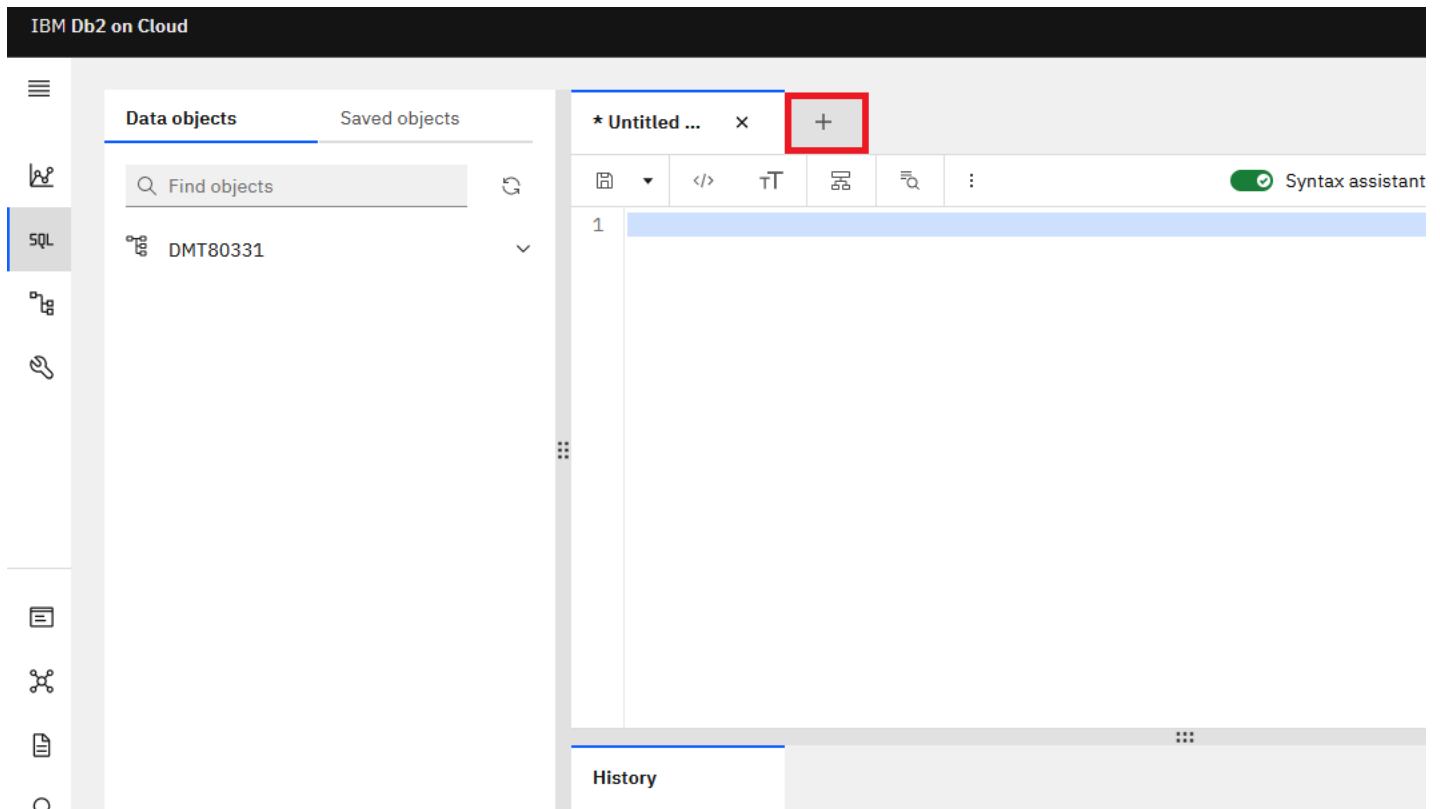
6% Storage (12M / 200M)  
current value

Storage usage (%)

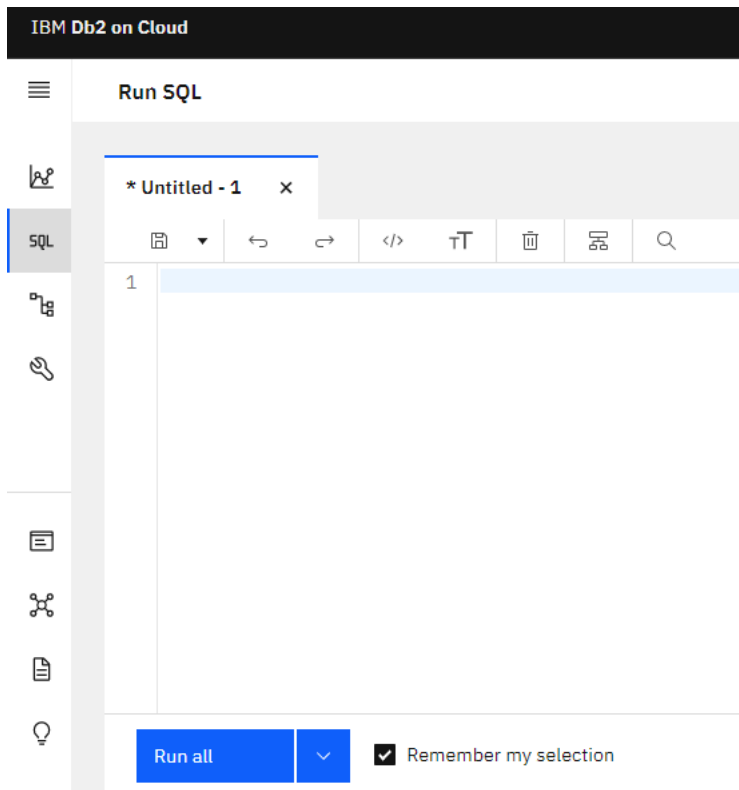
Time



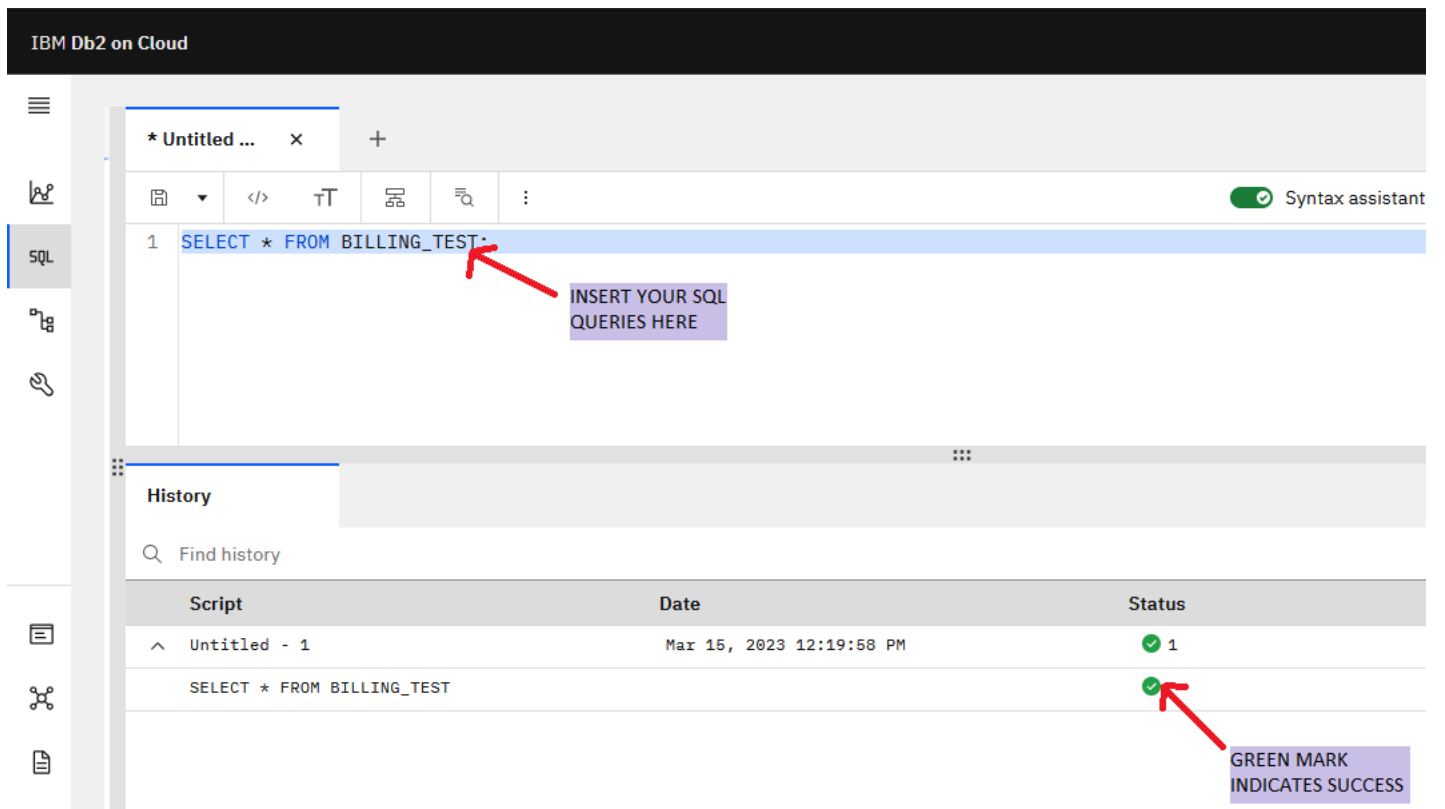
5. On the next screen click on the + button and then click on **Create new**.



6. The SQL editor will open where you can start typing and running queries.



7. The SQL editor has several areas for performing different tasks.



8. Click on the + icon if you want to add a new script for composing queries and then select **Create new**.



9. When you are asked in the upcoming labs, compose the appropriate SQL query for each problem and run by clicking **Run all**.

10. When you will run the script, by looking at the History section of the executed queries you will know whether the SQL statements ran successfully or not.

The screenshot shows the 'History' tab in the IBM Db2 on Cloud interface. It contains a table with the following columns: Script, Date, Status, and Runtime. The table lists three executed queries. The third query, `SELECT * FROM BILLING_TEST`, is highlighted with a red box.

Script	Date	Status	Runtime
Untitled - 1	Mar 14, 2023 6:32:56 PM	✓ 2	0.009 s
INSERT INTO BILLING_TEST VALUES(101, 'CLOTHES', 'INDIA', 'FASHION', 'MARCH', '2000')		✓	0.005 s
SELECT * FROM BILLING_TEST		✓	0.004 s

11. By clicking on each of the executed queries in the History section, you can see the result of that query. If the query has failed, you can see the error details.

The screenshot shows the 'Results' tab in the IBM Db2 on Cloud interface. It displays the result set for the query `SELECT * FROM BILLING_TEST`. The result is a table with columns: CUSTOMERID, CATEGORY, COUNTRY, INDUSTRY, MONTH, and BILLED. The first row shows data for customer 101.

CUSTOMERID	CATEGORY	COUNTRY	INDUSTRY	MONTH	BILLED
101	CLOTHES	INDIA	FASHION	MARCH	2000

## Summary

You can now find your way into and around the database instance, and you will use these skills in later labs.

**Congratulations! You have completed this lab, and you are ready for the next topic.**

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# Skills Network