



Hands-on Lab 1 : Create your IBM Cloud account and Provision your Database instance

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. And best of all you can create a Lite account on IBM Cloud and provision an instance of Db2 (Lite Plan) at no charge, and without providing any credit card information.

Objectives

After completing this lab, you will be able to:

1. Register for IBM Cloud account
2. Create an instance of Db2 Service
3. Locate your IBM Cloud database instance

Exercise 1 : Create an IBM Cloud Lite account

First let us introduce you to IBM Cloud. IBM Cloud is IBM's innovative cloud computing platform which combines platform as a service (PaaS) with infrastructure as a service (IaaS). It includes a rich catalog of cloud services that can be easily integrated with PaaS and IaaS to build business applications rapidly. It lets you quickly create, deploy, and manage your applications in the cloud. You don't have to deal with any of the underlying infrastructure. And you don't have to deal with the hosting and the managing of your cloud-based applications. You can use the tools and languages of your choice. IBM Cloud comes with a catalog full of awesome services, or APIs, from IBM and from third parties that you can use in your applications. You can scale your applications with literally a couple of clicks.

Please follow the steps given below to create an IBM Cloud account.

1. Sign up for IBM Cloud at: <https://cloud.ibm.com/registration>

Note: If you already have an IBM Cloud account (perhaps you created it for another course), you can skip this step and simply log in. If your older IBM Cloud account trial has expired and is asking for a credit card to upgrade, you can instead create a new IBM Cloud account with a different email address.

IBM Cloud

Catalog Docs

Already have an IBM Cloud account? [Log in](#)

Create an account

1. Account information

Email

Password

Next ↓

2. Verify email

3. Personal information

Build for free on IBM Cloud

Develop for free, no credit card required
Apps, AI, analytics, and more. Build with 40+ Lite plan services at no cost to you - ever.

Access the full catalog at your fingertips
Upgrade your account and unlock 190+ unique offerings, plus get a \$200 credit to use with any offering you want.

IBM Cloud

Catalog Docs

Already have an IBM Cloud account? [Log in](#)

Create an account

1. Account information ✓ [Edit](#)

2. Verify email ✓ [Edit](#)

Your email is verified.

3. Personal information ✓ [Edit](#)

Personal account

EN-US

Create account →

IBM may use my contact data to keep me informed of products, services and offerings:
☐ by E-mail ☐ by telephone

Build for free on IBM Cloud

Develop for free, no credit card required
Apps, AI, analytics, and more. Build with 40+ Lite plan services at no cost to you - ever.

Access the full catalog at your fingertips
Upgrade your account and unlock 190+ unique offerings, plus get a \$200 credit to use with any offering you want.

2. As part of the sign-up process you will receive an email in your inbox. You will need to click on the link in this email to **verify your email** and activate your account.
3. Log-in to IBM Cloud by going to the link in step 1.

Exercise 2 : Provision an instance of IBM Db2 Lite plan

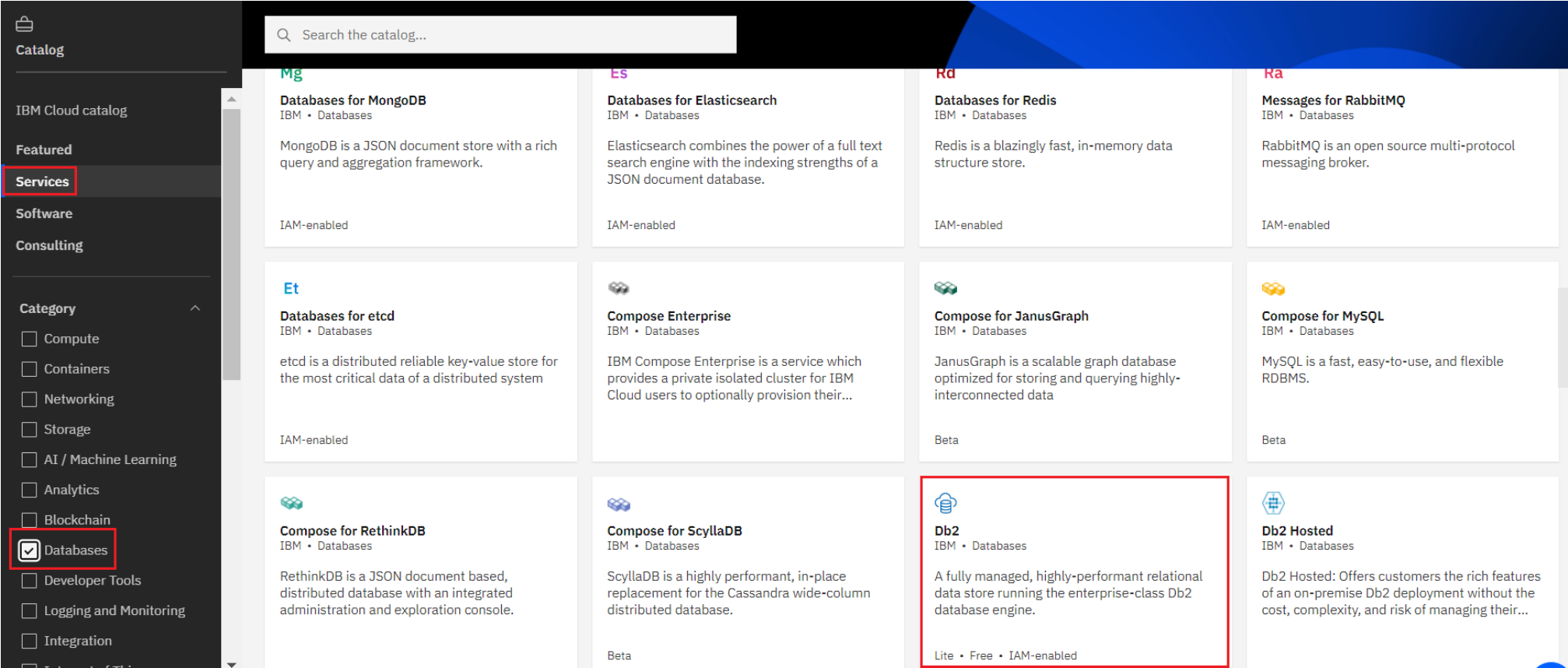
Now let us introduce you to Db2 on Cloud. IBM Db2 is a next generation SQL database provisioned for you in the cloud. You can use Db2 on Cloud just as you would use any database software (RDBMS), but without the overhead and expense of hardware setup or software installation and maintenance. Among the 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 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.

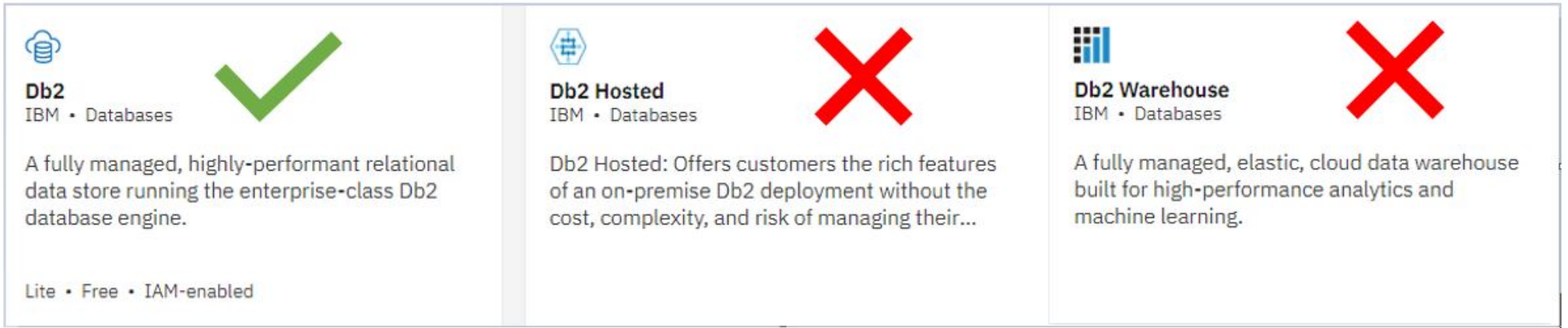
Please follow the steps given below to provision an instance of a Db2 on IBM Cloud.

1. Ensure you are logged in to IBM Cloud and go to: <https://cloud.ibm.com/catalog/services/db2>

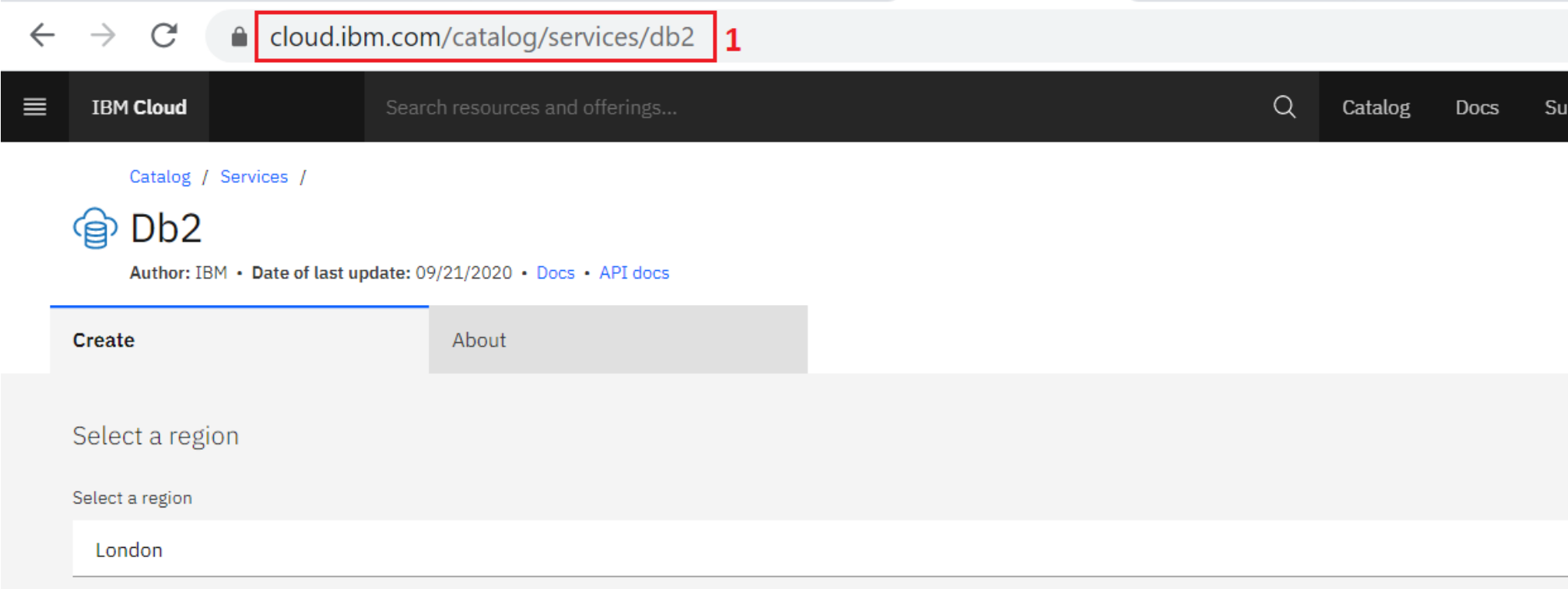
Note: Alternatively, you can click on the **Catalog** menu item and select **Services**, scroll down to the section for **Databases**, and click on the tile for **Db2** service.



IMPORTANT: Make sure you choose **Db2**. Do NOT choose *Db2 Warehouse* or *Db2 Hosted* or *SQL Query*.



Note: Depending on the Country of your IBM Cloud account a region/location to deploy will be pre-selected. For example, if you are in the US, the default Datacenter location will be Dallas. Users from UK will see London and so on. It is best to go with the default location that is closest to you.



2. Scroll down to Pricing Plans and select the **Lite plan** (it's a free plan and does not require credit card).>
3. 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

Lite 2

200 MB of data storage
15 simultaneous connections
Shared multitenant system

Free

✓

The Free plan provides a free Db2 service for development and evaluation. The plan has a set amount of limitations as shown. You can continue using the free plan for as long as needed, however, users are asked to re-extend their free account every 90 days by email. If you do not re-extend, your free account is cleaned out a further 90 days later. This helps provide free resources for everyone.

Lite plan services are deleted after 30 days of inactivity.

3 Create

Add to estimate

View terms

Exercise 3 : Use your database instance

Now that you have created your database instance, you need to know how to get to it and start work.

To access your database instance, go to your IBM Cloud dashboard and click **Services**.

IBM Cloud

Search resources and offerings...

Dashboard

Resource summary

View resources

Services 3

Storage 1

Add more resources +

In the Resource list, click the name of the new database instance.

Resource list

Create

| Name | Group | Location | Status | Tags |
|---------------------------------|---------------------------|-----------|-----------|-----------|
| Filter by name or IP address... | Filter by group or org... | Filter... | Filter... | Filter... |
| Devices (0) | | | | |
| VPC infrastructure (0) | | | | |
| Clusters (0) | | | | |
| Cloud Foundry apps (0) | | | | |
| Cloud Foundry services (0) | | | | |
| Services (2) | | | | |
| Db2-57 | Default | London | Active | — |
| Watson Studio-8i | Default | Tokyo | Active | — |

To manage the tables, queries and relationships in the database instance, on the database instance page, click **Open Console**.

Resource list /

Db2-57

Active

Add tags

Details

Actions...

Getting started

Manage

Service credentials

Connections

Open Console

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”.

Getting Started

Need Help?

Use IBM dW Answers to view recently asked questions or ask your own. Still unable to find an answer? Submit a Bluemix Support Ticket to our team.

IBM dW Answers

Support Ticket

The Console opens in a new tab, showing the existing **Schemas**.

IBM Db2 on Cloud

Storage: 33%

Discover

TABLES

Filter by schema name or table name

Show system schemas

Refresh

Schemas

Select All

New implicit schema

LCT12330 8 tables

AUDIT 0 table

DB2INST1 0 table

ERRORSCHEMA 0 table

IDAX 0 table

SAGAN 0 table

SQL07963 0 table

SQL19599 0 table

SQL35422 0 table

SQL51615 0 table

SQL63079 0 table

SQL67196 0 table

SQL97716 0 table

ST_INFORMTN_SCHEMA 0 table

You can explore the database instance by using the hamburger menu at the upper-left.

IBM Db2 on Cloud

Storage: 33%

LOAD

EXPLORE

RUN SQL

MONITOR

SETTINGS

CONNECTION INFO

HELP

Summary

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

Author(s)

[Rav Ahuja](#)

Other Contributor(s)

Rose Malcolm

Changelog

| Date | Version | Changed by | Change Description |
|-------------|---------|---------------|---|
| 25-Aug-2020 | 8.1 | Malika Singla | Updated Db2 screenshots |
| 25-Aug-2020 | 8.0 | Lavanya | Organized folders in modules |
| 25-Jun-2020 | 7.1 | Steve Hord | Revised Objectives section |
| 05-Jun-2020 | 7.0 | Rose Malcolm | Updated and converted to markdown in GitLab |
| 06-Mar-2020 | 6.1 | Rav Ahuja | Updated with new screenshots |
| 01-May-2018 | 1.0 | Rav Ahuja | Created initial version by adapting Db2 Warehouse lab to Db2 Lite |

© IBM Corporation 2020. All rights reserved.