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Lab 1

Lab 1: Setting Up the Lab Environment

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 create an instance of Db2 (Lite Plan) at no charge, and without providing any credit card.

In this lab you will perform the following tasks:

1. Create an IBM Cloud Lite account
2. Create an instance of IBM Db2 Lite plan

Step 1: Create an IBM Cloud Lite account

Now let us introduce you to IBM Cloud (formerly Bluemix). IBM Cloud is IBM's innovative cloud computing platform which combines the 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 infrastructures. 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 instructions below to create an IBM Cloud Lite account.

1. Sign up for IBM Cloud at <https://cocl.us/db0101en-db2>

If you already have an IBM Cloud account (perhaps you created it for another course), you can skip this step and simply log in.

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.

Step 2: Create 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 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 may be referred to in this course. However, for our labs, 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 create 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>

[In case you start in the IBM Cloud catalog, ensure you select the Db2 service and not another paid Db2 variant like Db2 Warehouse or Db2 Hosted]



2. Make sure the **region/location selected is Dallas/London** since the Lite plan is not yet available in other regions

3. **Select the Lite plan** as your Pricing Plans, then click on the **Create** button

Note: If the Create button is greyed out / not clickable - ensure you performed steps 2 and 3 above

IBM Cloud

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Db2 Lite IBM Service IAM-enabled

Author: IBM • Date of last update: 09/25/2019

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Summary

Db2 Free

Region: Dallas

Plan: Lite

Service name: Db2-f0

Resource group: Default

Create

Add to estimate

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FEEDBACK

PLAN	FEATURES	PRICING
✓ Lite	200 MB of data storage 5 simultaneous connections Shared multitenant system	Free
Flex (Recommended)	Scalable RAM, CPU and storage. Flexible pricing. 1 core dedicated virtual machine	\$189.00 USD/Instance \$189.00 USD/Instance (Artificially High Price - Not Real)

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 30 days by email. If you do not re-extend, your free account is cleaned out a further 60 days later. This helps provide free resources for everyone.

Lite plan services are deleted after 30 days of inactivity.

It will spin for a few seconds (typically less than 30s) and then your instance of Db2 service should be created successfully and you should see a screen like the following:

[Getting started](#)[Manage](#)[Service credentials](#)[Connections](#)[Resource list](#) /Resource group: Default Location: London [Add Tags](#)

Getting started with Db2 on Cloud

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IBM® Db2® on Cloud is an SQL database that is provisioned for you in the cloud. You can use Db2 on Cloud just as you would use any database software, but without the time and expense of hardware setup or software installation and maintenance.



Important: Create credentials. For those of you new to IBM Cloud, after creating the service you must create a user name and password by clicking the **Create Credentials** button when you start the service. Technically, you can log in to the web console without credentials, but you need the user name and password to use many of the Db2 tools.

You can also install a local Db2 database by using the [free Db2 Developer Edition download](#). It rapidly installs a ready-to-go developer edition of Db2 with tools inside a Docker container (Docker not required; it automatically installs any necessary components).



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