

# ***DISASTER RECOVERY WITH IBM CLOUD VIRTUAL SERVERS***

## ***Phase 3***

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***Team Members:***

***M.Megalathangamani***

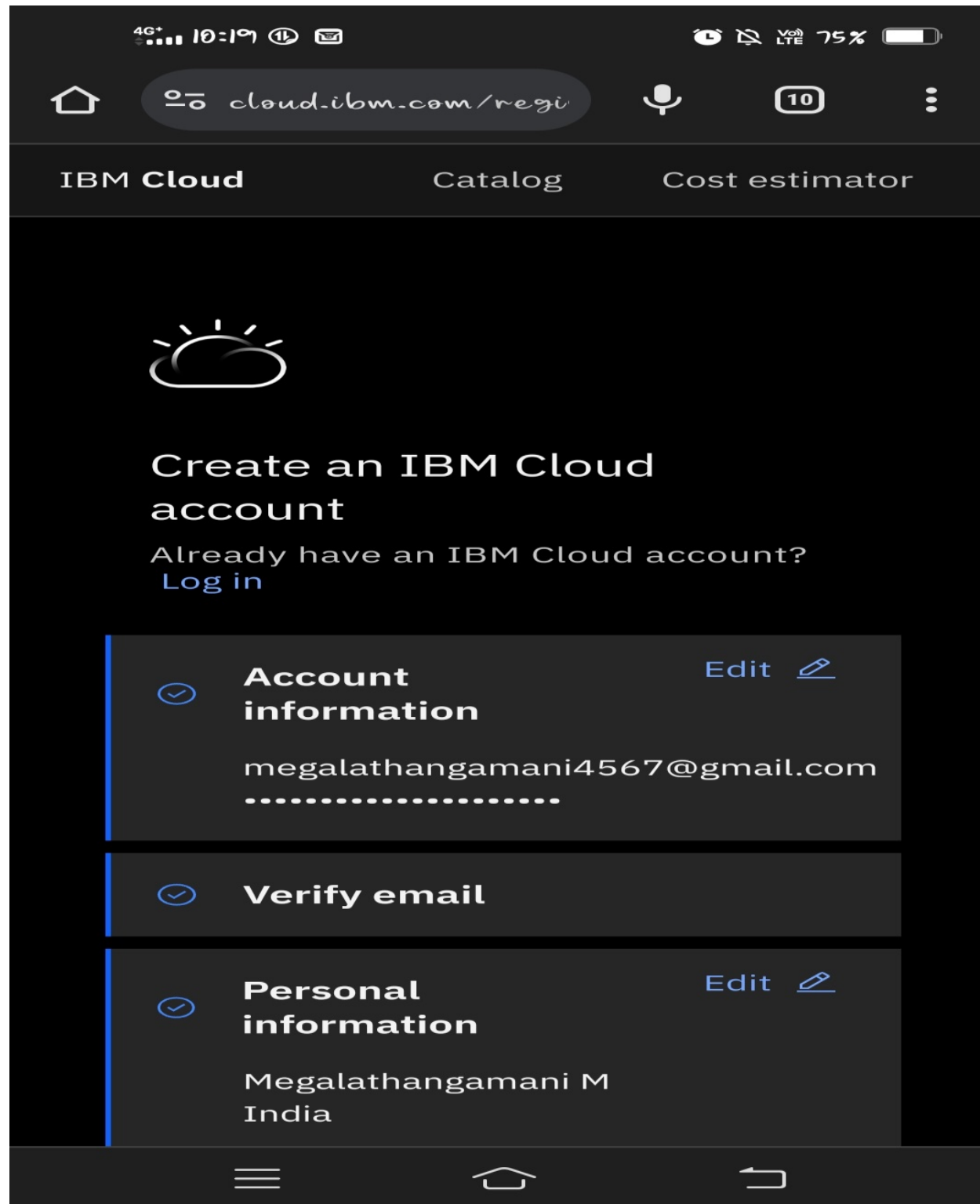
***D.Mavuriya***

***G.Kowsalya***

***G.Mounasakthi***

***A Devika***

## *Step 1: Create an account in the IBM cloud.*



The screenshot shows the IBM Cloud registration page on a mobile device. The status bar at the top displays 4G+ signal, time 10:19, and 75% battery. The browser address bar shows the URL `cloud.ibm.com/regi`. The page header includes links for "IBM Cloud", "Catalog", and "Cost estimator". The main heading is "Create an IBM Cloud account", followed by a link for existing users to "Log in". Below this, a list of three items shows the progress of the registration steps: "Account information" (checked), "Verify email" (checked), and "Personal information" (checked). Each item has an "Edit" link with a pencil icon. The "Account information" section displays the email `megalathangamani4567@gmail.com`. The "Personal information" section displays the name `Megalathangamani M` and the country `India`. The bottom of the screen features a mobile navigation bar with icons for a menu, home, and back.

4G+ 10:19 75%

cloud.ibm.com/regi

IBM Cloud Catalog Cost estimator

Create an IBM Cloud account

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

- Account information [Edit](#)  
megalathangamani4567@gmail.com
- Verify email
- Personal information [Edit](#)  
Megalathangamani M  
India

***STEP 2: Accept all the conditions and continue to create an account.***

4G+ 10:22 74%

IBM Cloud Catalog Cost estimator

## Verify identity

**Apply code** without a code ⓘ

Enter the code that has been provided to you. You can apply the code to only one account, and it can't be removed.

Enter code

180d34b177b6e14c

**Account ID:** 447f13a488184cf ⓘ

Processing your information...

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## ***STEP 3: Using mail ID and password to open the IBM cloud.***

The screenshot displays the IBM Cloud dashboard in a web browser. The browser's address bar shows 'cloud.ibm.com'. The dashboard header includes a search bar, navigation links like 'Catalog' and 'Manage', and a user profile. The main content area is titled 'Dashboard' and features a 'For you' section with several service tiles: 'Build' (highlighted in blue), 'Db2', 'Build with Watson', 'Explore IBM Cloud Shell', 'Get Started with Watson Studio', and 'Use Watson'. Each tile provides a brief description and a 'Popular' badge. Below the 'For you' section, there are three more tiles: 'User access' with a 'Manage users' link, 'News' with a 'View all' link, and 'Planned maintenance' with a 'View all' link. A 'Windows' activation banner is also visible in the bottom right corner of the dashboard. The Windows taskbar at the bottom shows the search bar, several application icons, and the system clock indicating 10:08 AM on 10/26/2023.

IBM Cloud

Search resources and products...

Catalog Manage mavuriya dhanasekera...

Dashboard

Edit dashboard Upgrade account Create resource

For you

Select an option

**Build**  
Explore IBM Cloud with this selection of easy starter tutorials and services.

**Db2**  
Get enterprise-level OLTP performance, 99.99% uptime SLA, automatic backups, compliance options and encryption at rest with Db2.  
Popular 2 min

**Build with Watson**  
Chatbots, insights, recognizers, and more. Explore the AI platform for business.  
Popular 3 min

**Explore IBM Cloud Shell**  
Try a command-driven approach for creating, developing, and deploying a web project.  
Getting started 2 min

**Get Started with Watson Studio**  
Get started with using AI and Cloud Object Storage in 15 minutes.  
Popular 15 min

**User access** Manage users  
Enter email addresses below to jump directly into the invite user setup:

**News** View all  
Enterprise-managed IAM: An SRE team case study  
3 keys to building a robust hybrid cloud risk strategy

**Planned maintenance** View all  
Activate Windows  
Go to Settings to activate Windows.

Type here to search

High UV

10:08 AM 10/26/2023

***STEP 4: Click the (Browse the service)  
To open it. Hence, the catalog page will open here.***

The screenshot displays the IBM Cloud Catalog interface. The browser tabs at the top include 'IBM Cloud', 'Catalog - IBM Cloud', and 'Db2 - IBM Cloud'. The address bar shows 'cloud.ibm.com/catalog'. The navigation bar features the IBM Cloud logo, a search bar, and links for 'Catalog', 'Manage', and user information. The main header area includes 'Sell on IBM Cloud' and 'Catalog settings'.

The 'Catalog' section features a large illustration of a storefront with a person at a laptop, a person at a desk, and various cloud service icons. Below this is a search bar labeled 'Search the catalog...'. The left sidebar lists categories: Compute (30), Containers (11), Networking (30), Storage (22), Converged infrastructure (3), Enterprise applications (3), and AI / Machine Learning (23).

The main content area shows 'Viewing 216 products'. Three product cards are visible:

- Power Virtual Server with VPC landing zone** (By IBM): Build a IBM Cloud® Power Virtual Servers (PowerVS) offering according to the best practices and requirements from the IBM...
- DevSecOps Application Lifecycle Management** (By IBM): DevSecOps provides a set of predefined continuous integration, continuous deployment and continuous compliance...
- Power Virtual Server for SAP HANA** (By IBM): Deploy SAP systems on Power infrastructure for deployable architectures.

The bottom of the screen shows the Windows taskbar with the search bar, task icons, and system tray information including 'Rain coming', '10:10 AM', and '10/26/2023'.

*Choose any database in the catalog.*

The screenshot shows the IBM Cloud Catalog interface. The browser tabs at the top are 'IBM Cloud', 'Catalog - IBM Cloud', and 'Db2 - IBM Cloud'. The address bar shows 'cloud.ibm.com/catalog'. The navigation bar includes 'IBM Cloud', a search bar, and links to 'Catalog', 'Manage', and the user profile 'mavuriya dhanasekera...'. Below the navigation bar is a search bar labeled 'Search the catalog...'. The main content area displays a grid of database services. The 'Db2' service is highlighted with a blue border. The services shown are:

- query and aggregation framework.**  
EU Supported • HIPAA Enabled • IAM-enabled • Service Endpoint Supported • IBM supported
- offer high performance with scalability and security.**  
EU Supported • HIPAA Enabled • IAM-enabled • Service Endpoint Supported • IBM supported
- Satellite Enabled • EU Supported • HIPAA Enabled • IAM-enabled • Service Endpoint Supported • IBM supported**
- Rd**  
**Databases for Redis**  
By IBM  
Redis is a blazingly fast, in-memory data structure store.  
Satellite Enabled • EU Supported • HIPAA Enabled • IAM-enabled • Service Endpoint Supported • IBM supported
- DataStage**  
By IBM  
Create ETL and data pipeline services for real-time, micro-batch, and batch data orchestration.  
Lite • Free • IAM-enabled • IBM supported
- Db2**  
By IBM  
A next generation SQL database. Formerly dashDB For Transactions.  
Lite • Free • EU Supported • HIPAA Enabled • IAM-enabled • IBM supported
- Db2 Warehouse**  
By IBM  
Db2 Warehouse on Cloud is a flexible and powerful data warehouse for enterprise-level
- Dedicated Host for VPC**  
By IBM  
Provision single-tenant hosts that offer dedicated resources and maximum control
- Direct Link Connect**  
By IBM  
Leverage a Service Provider to quickly establish and deliver connectivity to IBM Cloud

The bottom of the screen shows the Windows taskbar with the search bar 'Type here to search', several application icons, and the system tray displaying '33°C Partly sunny', 'ENG', and the time '10:13 AM 10/26/2023'.

## STEP 5: I choose a Db2 database in this catalog.

The screenshot shows the IBM Cloud web interface for the Db2 service catalog. The browser tabs at the top show 'IBM Cloud' and 'Db2 - IBM Cloud'. The address bar displays 'cloud.ibm.com/catalog/services/db2'. The page header includes the IBM Cloud logo, a search bar, and navigation links for 'Catalog' and 'Manage'. The user's name 'mavuriya dhanasekera...' is visible in the top right corner.

The main content area is titled 'Catalog / Db2' and includes a description: 'A next generation SQL database. Formerly dashDB For Transactions.' Below this, there are two tabs: 'Create' (selected) and 'About'.

On the left side, there is a sidebar with the following information:

- Type: Service
- Provider: IBM
- Last updated: 10/19/2023
- Category: Databases
- Compliance: EU Supported, HIPAA Enabled, IAM-enabled
- Location: Sydney, Frankfurt

The 'Create' tab contains the following sections:

- Select a location:** A dropdown menu showing 'Sydney (au-syd)'.
- Select a pricing plan:** A section with a link to 'United States' and a note: 'Displayed prices do not include tax. Monthly prices shown are for country or location: [United States](#)'.
- Table of pricing plans:**

Plan	Features and capabilities	Pricing
Standard	Instance with flexible scaling of compute and storage Base instance starts at 8 GB RAM x 20 GB Storage	\$0.142 USD/Instance-Hour \$0.000282 USD/Gigabyte-Hours \$0.101 USD/Virtual Processor Core-Hour \$0.000031 USD/BACKUP_GIGABYTE_HOURS \$0.10

The right sidebar contains a 'Summary' section with the following details:

- Db2
- Location: Sydney
- Plan: Standard
- Service name: Db2-58
- Resource group: Default

Below the summary, there is a message box stating: 'This paid plan cannot be added to an IBM Cloud trial account. You can add a credit card to create a Pay-As-You-Go account. If a free plan for this service is available, you can choose to add it.'

At the bottom of the right sidebar, there is a checkbox for 'I have read and agree to the following license agreements:' with a link to 'Terms'.

The Windows taskbar at the bottom shows the search bar, taskbar icons, and system tray information including temperature (33°C), weather (Partly sunny), and time (10:08 AM, 10/26/2023).

## STEP 6: Click the resource list to active the Db2.

IBM Cloud

Search resources and products...

Catalog Manage mavuriya dhanasekera...

IBM

Last updated 10/19/2023

Category Databases

Compliance EU Supported HIPAA Enabled IAM-enabled

Location Sydney Frankfurt London Dallas Sao Paulo Toronto Tokyo Milan 01 Montreal 01 Washington DC

Related links API docs Docs Terms

Select a pricing plan

Displayed prices do not include tax. Monthly prices shown are for country or location: [United States](#)

Plan	Features and capabilities	Pricing
Lite	200 MB of data storage 5 simultaneous connections Shared multitenant system	Free
Standard	Instance with flexible scaling of compute and storage Base instance starts at 8 GB RAM x 20 GB Storage	\$0.142 USD/Instance-Hour \$0.000282 USD/Gigabyte-Hours \$0.101 USD/Virtual Processor Core-Hour \$0.000031 USD/BACKUP_GIGABYTE_HOURS \$0.10 USD/SERVICEENDPOINT_INSTANCE_HOURS

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.

Summary

Db2 Free

Location: London

Plan: Lite

Service name: Db2-1e

Resource group: Default

☐ I have read and agree to the following license agreements: [Terms](#)

Create

Activate Windows

Add to estimate



***On this page click the resource list to activate the instance database.***

The screenshot shows the IBM Cloud Resource list page. The browser tabs at the top are 'IBM Cloud', 'Resource list - IBM Cloud', and 'Db2 - IBM Cloud'. The address bar shows 'cloud.ibm.com/resources?search=\*'. The page header includes the IBM Cloud logo, a search bar, and navigation links for 'Catalog' and 'Manage'. The main content area is titled 'Resource list' and features a 'Create resource' button. Below the title is a table with columns: Name, Group, Location, Product, Status, and Tags. The table is filtered by 'Name' and 'Group'. The 'Databases' category is expanded, showing a single resource named 'Db2-1e'.

Name	Group	Location	Product	Status	Tags
Filter by name or IP address...	Filter by group or org...	Filter...	Filter...	Filter...	Filter...
Compute (0)					
Containers (0)					
Networking (0)					
Storage (0)					
Converged infrastructure (0)					
Enterprise applications (0)					
AI / Machine Learning (0)					
Analytics (0)					
Blockchain (0)					
Databases (1)					
Db2-1e	Default	London	Db2	Provision in pro...	

## ***STEP 7: In this Db2 there are 4 options (manage, getting started, service credentials, connections).***

The screenshot shows the IBM Cloud Service Details page for a Db2 instance named 'Db2-1e'. The page is viewed in a web browser with the URL `cloud.ibm.com/services/dashdb-for-transactions/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aeu-gb%3Aa%2F86f442d0a8f74cb1a4a1c19...`. The browser tabs show 'IBM Cloud' and 'Service Details - IBM Cloud'. The page header includes the IBM Cloud logo, a search bar, and navigation links for 'Catalog' and 'Manage'. The user's name 'mavuriya dhanasekera...' is visible in the top right corner. The main content area shows the resource 'Db2-1e' with a status of 'Active' and an 'Add tags' link. A 'Details' link and an 'Actions...' dropdown menu are also present. On the left, a 'Manage' sidebar lists 'Getting started', 'Service credentials', and 'Connections'. The 'Getting started' section provides instructions on finding credentials and includes a 'Go to UI' button and a 'Getting started docs' link. The 'Need help?' section prompts the user to submit a support case, with a 'Support case' button. An 'Activate Windows' watermark is visible in the bottom right corner of the page. The Windows taskbar at the bottom shows the search bar, several application icons, and system tray information including the date and time (10:18 AM, 10/26/2023).

Resource list /  
**Db2-1e** ✓ Active [Add tags](#)

[Details](#) [Actions...](#)

**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".  
Don't see this menu on the left? Click on "Manage in IBM Cloud" to open the IBM Cloud dashboard.

[Go to UI](#) [Getting started docs](#)

**Need help?**

Submit a IBM Cloud Support Case to our team.

[Support case](#)

Activate Windows  
Go to Settings to activate Windows.

Type here to search

NIFTYMID100 -2.05%

10:18 AM  
10/26/2023

Details Actions...

## Connections

You can get  
connect an

☐ Key

Manager

Cancel

Add

No service credentials

Credentials are provided in JSON format. The JSON snippet lists credentials, such as the API key and secret, as well as connection information for the service.

Activate Windows  
Go to Settings to activate Windows.

Db2-1e

Active

Add tags 

### Details

Actions...

Manage

## Getting started

### Service credentials

## Connections

## Service credentials

You can generate a new set of credentials for cases where you want to manually connect an app or external consumer to an IBM Cloud service. [Learn more](#)

Q Search credentials...



## New credential

 $\wedge$  ☐

Key name

Date created

 $\wedge$  ☐

Service credentials-1

2023-10-26 10:20 AM



```
{
  "connection": {
    "cli": {
      "arguments": [
        "-u",
        "fxb08223",
        "-p",
        "LdDty2WWq9IKHmD0",
        "--ssl",
        "--sslCAFile",
        "1dd14d0c-1b52-4f63-a606-53ecba28771d",
        "--authenticationDatabase",
        "admin",
        "--host",
        "55fbc997-9266-4331-afd3-888b05e734c0.bs2io90108kqb1od8lpg.databases.appdomain.cloud:31929"
      ]
    }
  }
}
```

Activate Windows

Go to Settings to activate Windows.

***In this (service credentials -1) having a query like a dataset. Click the manage option.***

The screenshot displays the IBM Cloud web interface. At the top, there are three browser tabs: 'IBM Cloud', 'Service Details - IBM Cloud', and 'bs2ipcul0apon0jufi80lite.db2.c'. The address bar shows the URL: 'cloud.ibm.com/services/dashdb-for-transactions/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aeu-gb%3Aa%2F86f442d0a8f74cb1a4a1c19...'. The main header includes the 'IBM Cloud' logo, a search bar, and navigation links for 'Catalog', 'Manage', and a user profile 'mavuriya dhanasekera...'. Below the header, the resource 'Db2-1e' is shown with a status of 'Active' and an 'Add tags' link. A 'Details' link and an 'Actions...' dropdown menu are also present. The left sidebar contains a 'Manage' section with sub-links: 'Getting started', 'Service credentials', and 'Connections'. The main content area is divided into two panels. The left panel, titled 'Getting started', provides instructions on finding credentials and includes buttons for 'Go to UI' and 'Getting started docs'. The right panel, titled 'Need help?', prompts the user to 'Submit a IBM Cloud Support Case to our team.' and includes a 'Support case' button. At the bottom of the screen, there is a Windows taskbar with various application icons, a search bar, and system information including '30°C Sunny' and the date '10/26/2023'.

IBM Cloud

Service Details - IBM Cloud

bs2ipcul0apon0jufi80lite.db2.c

cloud.ibm.com/services/dashdb-for-transactions/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aeu-gb%3Aa%2F86f442d0a8f74cb1a4a1c19...

IBM Cloud

Search resources and products...

Catalog Manage mavuriya dhanasekera...

Resource list /

Db2-1e Active Add tags

Details Actions...

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".  
Don't see this menu on the left? Click on "Manage in IBM Cloud" to open the IBM Cloud dashboard.

Go to UI

Getting started docs

Need help?

Submit a IBM Cloud Support Case to our team.

Support case

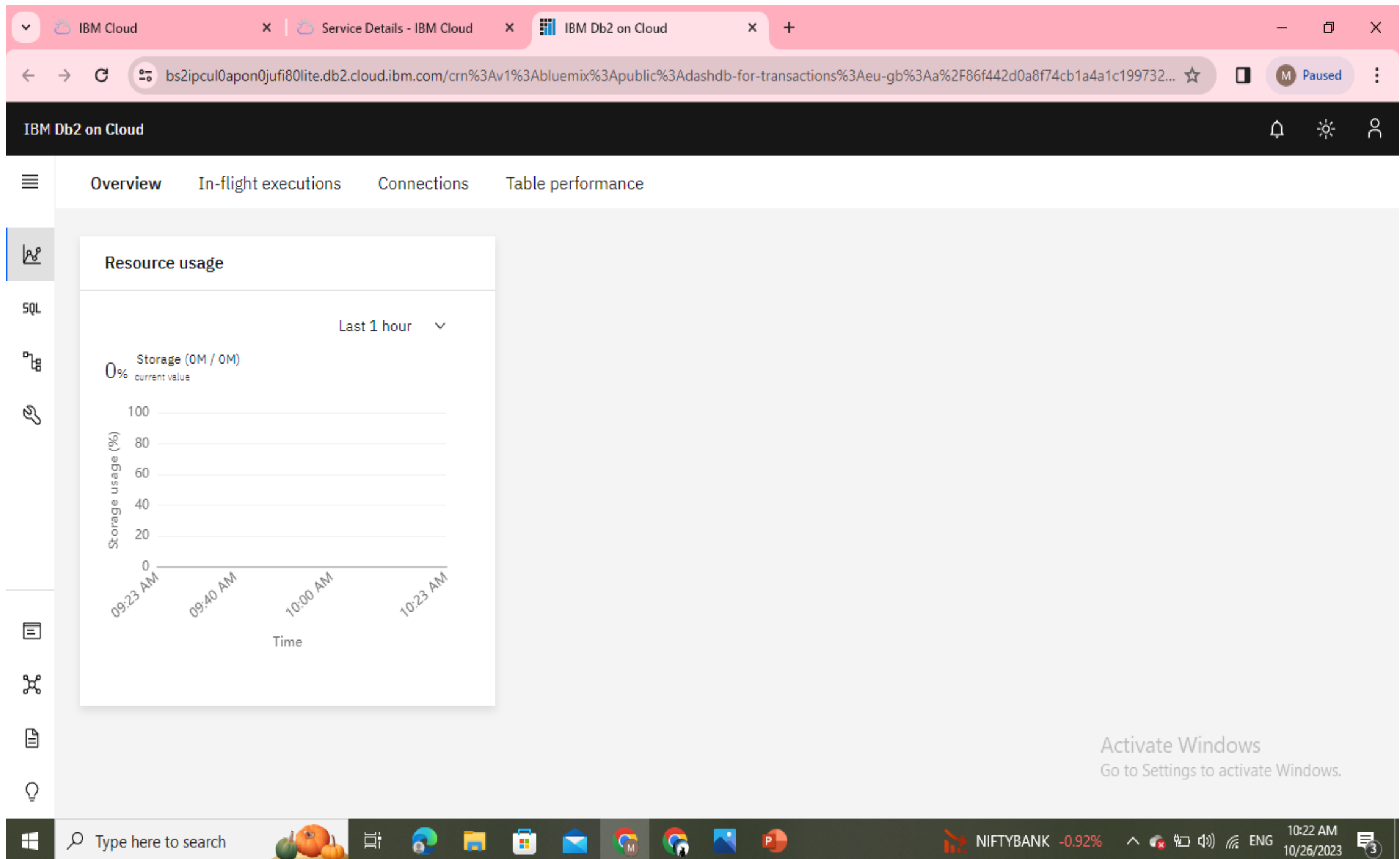
Activate Windows  
Go to Settings to activate Windows.

Type here to search

30°C Sunny

10:20 AM  
10/26/2023

***STEP 8: In this manage option click the (go to UI). It will open the IBM Db2 on the cloud page.***



The screenshot shows the IBM Db2 on Cloud console interface. The top navigation bar includes tabs for 'IBM Cloud', 'Service Details - IBM Cloud', and 'IBM Db2 on Cloud'. The main header displays 'IBM Db2 on Cloud' with a notification bell, settings gear, and user profile icon. Below the header is a horizontal menu with options: 'Load Data', 'Load History', 'Tables', 'Views', 'Indexes', 'Aliases', 'MQTs', 'Sequences', and 'Application objects'. The 'Load Data' section is active, showing a progress bar with four steps: 'Source' (selected), 'Target', 'Define', and 'Finalize'. Under the 'Source' step, it says 'You are loading the file'. The main area is titled 'File selection' and features a large dashed box containing a file icon with a plus sign and a bar chart. On the left side of the 'File selection' area, there is a list of source options: 'My Computer' (with a description: 'A single delimited text file (CSV) without header row.'), 'Amazon S3', and 'Cloud Object Storage'. At the bottom of the console, there is a Windows taskbar with a search bar, various application icons, and system information including '30°C Sunny', '10:23 AM', and '10/26/2023'.

***In this file selection, we need to upload the dataset that we downloaded in the browser. I uploaded the healthcare-related dataset(HeartAttackDataset.csv)the uploading file must be in csv or TXT otherwise it will be in a zip file means it will not upload.***

IBM Db2 on Cloud

Load Data Load History Tables Views Indexes Aliases MQTs Sequences Application objects

Source Target Define Finalize

You are loading the file **annual-enterprise-survey-2021-financial-year-provisional-csv.csv** into **FXB08223.ANNUALENTERPRISESURVEY**

Select a load target

Schema

Find schemas

FXB08223

Table

Find tables in FXB08223

ANNUALENTERPRISESURVEY

Refresh

New table +

Activate Windows

Back Next

Go to Settings to activate Windows.

Type here to search

29°C Sunny

11:02 AM 10/26/2023

***Click the next to open the schema and the table is already created here if need to create the table, click the new table. Click the dataset of (HeartAttackDataset.csv) to show the table definition.***



SQL

Select a load target

Schema

Find schemas

FXB08223

Table

Find tables in FXB08223

ANNUALENTERPRISESURVEY

Source

Target

Define

Finalize

You are loading the file **annual-enterprise-survey-2021-financial-year-provisional-csv.csv** into **FXB08223.ANNUALENTERPRISESURVEY**

Refresh

SQL

Source Target Define Finalize

You are loading the file **annual-enterprise-survey-2021-financial-year-provisional-csv.csv** into **FXB08223.ANNUALENTERPRISESURVEY**

Code page (character encoding): 1208 (UTF-8) Separator: , Header in first row: ☒ Time & date format: Detect data types: ☐

	YEAR VARCHAR(4)	INDUSTRY_AGGREGATION_NZSIOC VARCHAR(27)	INDUSTRY_CODE_NZSIOC VARCHAR(20)	INDUSTRY_NAME_NZSIOC VARCHAR(65)
1	2021	Level 1	99999	All industries
2	2021	Level 1	99999	All industries
3	2021	Level 1	99999	All industries
4	2021	Level 1	99999	All industries
5	2021	Level 1	99999	All industries
6	2021	Level 1	99999	All industries
7	2021	Level 1	99999	All industries
8	2021	Level 1	99999	All industries

Activate Windows  
Go to Settings to activate Windows.

Back Next

***STEP 9 : Here the dataset where created in the table-like row and column format. Finally, we can see the review settings.***

The screenshot displays the IBM Db2 on Cloud console interface. The browser's address bar shows the URL: `bs2ipcul0apon0jufi80lite.db2.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aeu-gb%3Aa%2F86f442d0a8f74cb1a4a1c19973258f...`. The console header includes the title 'IBM Db2 on Cloud' and navigation tabs: 'Load Data', 'Load History', 'Tables', 'Views', 'Indexes', 'Aliases', 'MQTs', 'Sequences', and 'Application objects'. The left sidebar contains icons for various database functions, with 'SQL' and 'Load Data' being prominent. The main content area is titled 'Review settings' and is divided into two sections: 'Summary' and 'Option'. The 'Summary' section lists various settings with their current values and default status: 'Code page: 1208 (Default)', 'Separator: ,', 'Time format: HH:MM:SS (Default)', 'Date format: YYYY-MM-DD (Default)', 'Timestamp format: YYYY-MM-DD HH:MM:SS (Default)', and 'String delimiter: (Default)'. The 'Option' section is titled 'Maximum number of warnings' and has a value of '1000'. At the bottom right of the console, there is a blue button labeled 'Begin Load' and a 'Back' link. A Windows watermark is visible in the bottom right corner of the console area. The Windows taskbar at the bottom shows the search bar, several application icons, and the system tray with the date '10/26/2023' and time '11:02 AM'.

IBM Db2 on Cloud

Load Data Load History Tables Views Indexes Aliases MQTs Sequences Application objects

Source Target Define Finalize

You are loading the file **annual-enterprise-survey-2021-financial-year-provisional-csv.csv** into **FXB08223.ANNUALENTERPRISESURVEY**

### Review settings

#### Summary

Code page:	1208 (Default)
Separator:	,
Time format:	HH:MM:SS (Default)
Date format:	YYYY-MM-DD (Default)
Timestamp format:	YYYY-MM-DD HH:MM:SS (Default)
String delimiter:	(Default)

#### Option

Maximum number of warnings

1000

Activate Windows  
Back Begin Load  
Go to Settings to activate Windows.

Type here to search

NIFTYMID100 -1.98%

ENG 11:02 AM 10/26/2023

IBM Cloud x Service Details - x IBM Db2 on Clo x Find Open Data x CORGIS Data x CSV files for do x CSV files for do x +

bs2ipcul0apon0jufi80lite.db2.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aeu-gb%3Aa%2F86f442d0a8f74cb1a4a1c19973258f... ☆

IBM Db2 on Cloud 6

Load Data Load History Tables Views Indexes Aliases MQTs Sequences Application objects

Load details

My computer Target  
data.csv FXB08223.DATA

COMPLETE View Table Load More Data

Status Settings

4,772 4,772 0  
Rows read Rows loaded Rows rejected

Start time  
10/26/2023 11:52:20 AM

The data load job succeeded.  
You can now work with your data.

Errors 0 Warnings 0

No errors

Activate Windows  
Go to Settings to activate Windows.

Type here to search 31°C 11:51 AM 10/26/2023

***In this 9<sup>th</sup> step, the data-loaded job is successfully completed.***

***Step 10 : Click the Run SQL option to write the query for the created dataset.  
To (get the output) click the run selected.***

The screenshot shows the IBM Db2 on Cloud web interface. The browser address bar displays the URL: `bs2ipcul0apon0jufi80lite.db2.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aeu-gb%3Aa%2F86f442d0a8f74cb1a4a1c19973258f...`. The page title is "IBM Db2 on Cloud".

The interface is divided into several sections:

- Data objects / Saved objects:** A sidebar on the left lists various database objects under the schema "FXB08223", including "Tables" (ANNUALENTERPRISE, ANNUALENTERPRISESURVEY, BUSINESSOPERATIOSSURVEY, DATA, HOSPITALS), "Views", "MQTs", "Aliases", and "Nicknames".
- SQL Editor:** The main area contains a SQL query in a text editor:

```
1 SELECT "FACILITY_NAME", "FACILITY_CITY", "FACILITY_STATE", "FACILITY_TYPE", "RATING_OVERALL", "RATING_
2 FROM "FXB08223"."DATA";
3
```

Buttons for "Syntax assistant", "Run all", and a dropdown menu are visible above the editor.
- History / Results:** Below the editor, the "History" tab is active, showing a table of executed queries. The "Results" tab is also visible.

Script	Date	Status	Runtime
Untitled - 5	Oct 26, 2023 12:09:51 PM	✓ 1	0.007 s
SELECT "FACILITY_NAME", "FACILITY_CITY", "FACILITY_STATE", "FAC...		✓	0.007 s

An "Activate Windows" watermark is visible in the bottom right corner of the application window.

***Again go to the resource list to create the storage.***

IBM Cloud Resource list - IBM Cloud Db2 - IBM Cloud

cloud.ibm.com/resources?search=\*

IBM Cloud Search resources and products... Catalog Manage mavuriya dhanasekera...

### Resource list

Create resource +

Name	Group	Location	Product	Status	Tags
Filter by name or IP address...	Filter by group or org...	Filter...	Filter...	Filter...	Filter...
Compute (0)					
Containers (0)					
Networking (0)					
Storage (0)					
Converged infrastructure (0)					
Enterprise applications (0)					
AI / Machine Learning (0)					
Analytics (0)					
Blockchain (0)					
Databases (1)					
Db2-1e	Default	London	Db2	Provision in pro...	

Activate Windows Go to Settings to activate Windows.

Type here to search

NIFTYMID100 -2.10%

10:16 AM 10/26/2023

***Step 11: Click the object storage in the catalog, for creating the bucket.***

The screenshot shows the IBM Cloud Object Storage console. The left sidebar contains navigation links: Cloud Object Storage, Instances, Integrations, Endpoints, Documentation, and Billing. The main content area is titled 'Cloud Object Storage-cg' and has tabs for Buckets, Service credentials, Instance Usage, and Plan. The 'Buckets' tab is active, displaying a search bar, a 'Create bucket' button, and a table with columns: Name, Public access, Location, Storage class, and Created. Below the table, there is a box icon and the text 'Buckets' followed by instructions: 'Get started by creating a bucket to store unstructured data. A bucket is a container for your data.' The bottom of the screen shows the Windows taskbar with various application icons and the system clock indicating 12:16 PM on 10/26/2023.

IBM Cloud

Search resources and products...

Cloud Object Storage

Instances /

Cloud Object Storage-cg


Details Actions...

Buckets Service credentials Instance Usage Plan

Search

Create bucket +

Name	Public access ⓘ	Location ⓘ	Storage class	Created
------	-----------------	------------	---------------	---------



Buckets

Get started by creating a bucket to store unstructured data. A bucket is a container for your data.

Activate Windows  
Go to Settings to activate Windows.

Type here to search

NIFTY

12:16 PM  
10/26/2023



Cloud Ob x IBM Wats x Service D x IBM Db2 x IBM Db2 x Find Ope x CORGIS D x CSV files x NZ CSV files x

cloud.ibm.com/objectstorage/crn%3Av1%3Abluemix%3Apublic%3Acloud-object-storage%3Aglobal%3Aa%2F86f442d0a8f74cb1a4a1c19973258f19%3Ad6fed2c8-...

IBM Cloud Search resources and products... Catalog Manage mavuriya dhanasekera...

Cloud Object Storage-cg / Create custom bucket

Unique bucket name


bucket-x-345


**Bucket naming rules:**


- Must be unique across the **whole** IBM Cloud Object Storage system
- Do not use any personal information (any part of a name, address, financial or security accounts or SSN)
- Must start and end in alphanumeric characters (3 to 63)
- Characters allowed: lowercase, numbers and nonconsecutive dots and hyphens

**Resiliency** View options

A bucket's resiliency is defined by the endpoint used to create it.

 **Cross Region**  
Highest availability

 **Regional** ✓  
Best performance

 **Single Site**  
Data sovereignty

⚠ Resiliency cannot be modified after provisioning

Cancel Create bucket

Activate Windows  
Go to Settings to activate Windows.

Type here to search

NIFTY 12:18 PM 10/26/2023

***Uploading the dataset in the bucket. We need to give the name for creating a new bucket Configuration is knowing the bucket details. Permission is only for the user.***



Upload success data.csv

2023-10-26 12:19 PM

Transfers

Objects Configuration Permissions

If you're seeing more usage than expected, versions count towards your usage or you may have incomplete uploads [Learn more](#)

Prefix filter				Upload
<input type="checkbox"/>	Object name	Archived ⓘ	Size	Last modified
<input type="checkbox"/>	data.csv <span>Data Engine</span>		802.7 KB	2023-10-26 12:19 PM
Drag and drop files (objects) here or click to upload				

Activate Windows  
Go to Settings to activate Windows.