

# DATABASE CONNECTIVITY

Team ID	PNT2022TMID54247
Project Name	Analytics For Hospital Health Data.
Team Members	Jagadeesh R(TL), Karthik K(TM-1), Hariharan C(TM-2), Deepak Raj S(TM-3).

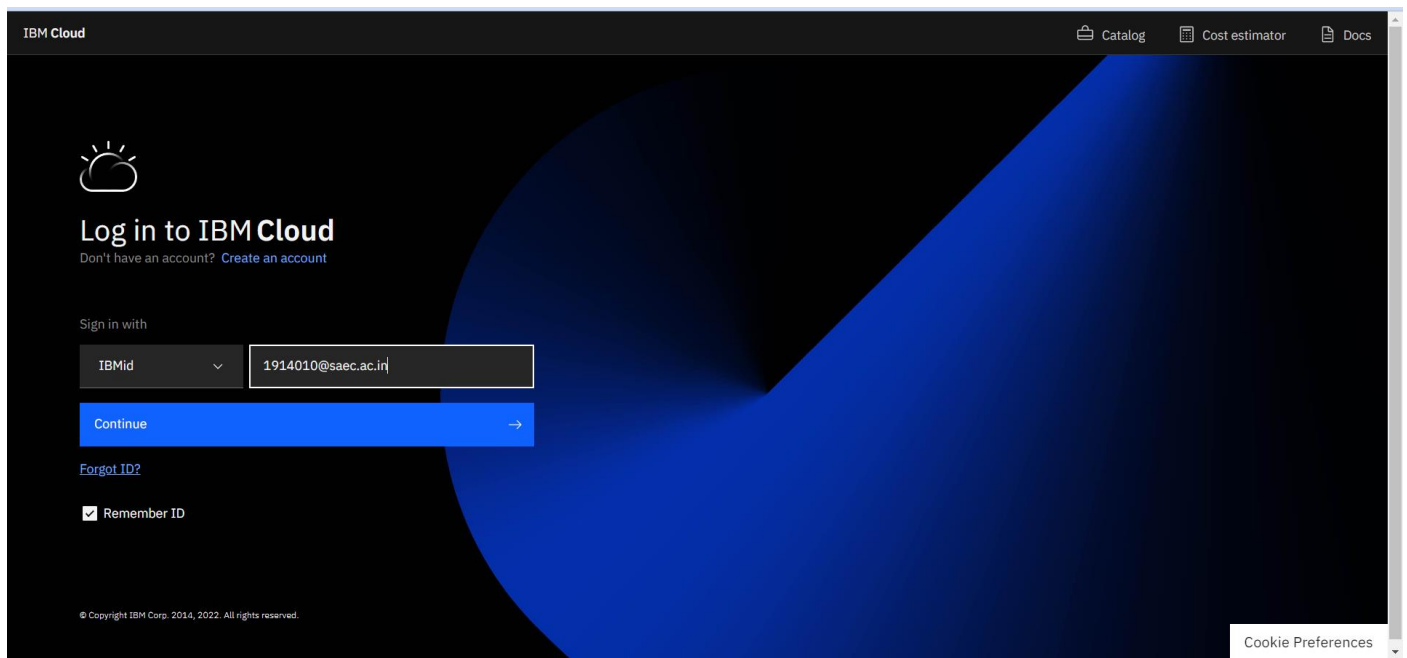
The screenshot shows the IBM Cognos Analytics with Watson interface. The top navigation bar includes the IBM logo, a search bar, and user profile icons. The main content area is divided into three sections:

- Data server connections:** A table with columns 'Name' and 'Modified'. It lists a connection named 'Weather Company' modified on 3/31/2022 at 10:38 PM.
- Select a type:** A list of data sources including Exasol EXASolution, Hive, IBM Big SQL, IBM Cloud Data Engine, IBM Db2, IBM Db2 for i, IBM Db2 Warehouse, IBM Informix Dynamic Se..., IBM Netezza, IBM Planning Analytics, IBM Watson Query, MariaDB, Microsoft SQL Server, and MySQL.
- Exploration and Present data:** Two cards at the bottom right. 'Exploration' describes finding unbiased answers by identifying trends. 'Present data' describes creating sophisticated, multi-page, multi-query dashboards, reports, or stories.

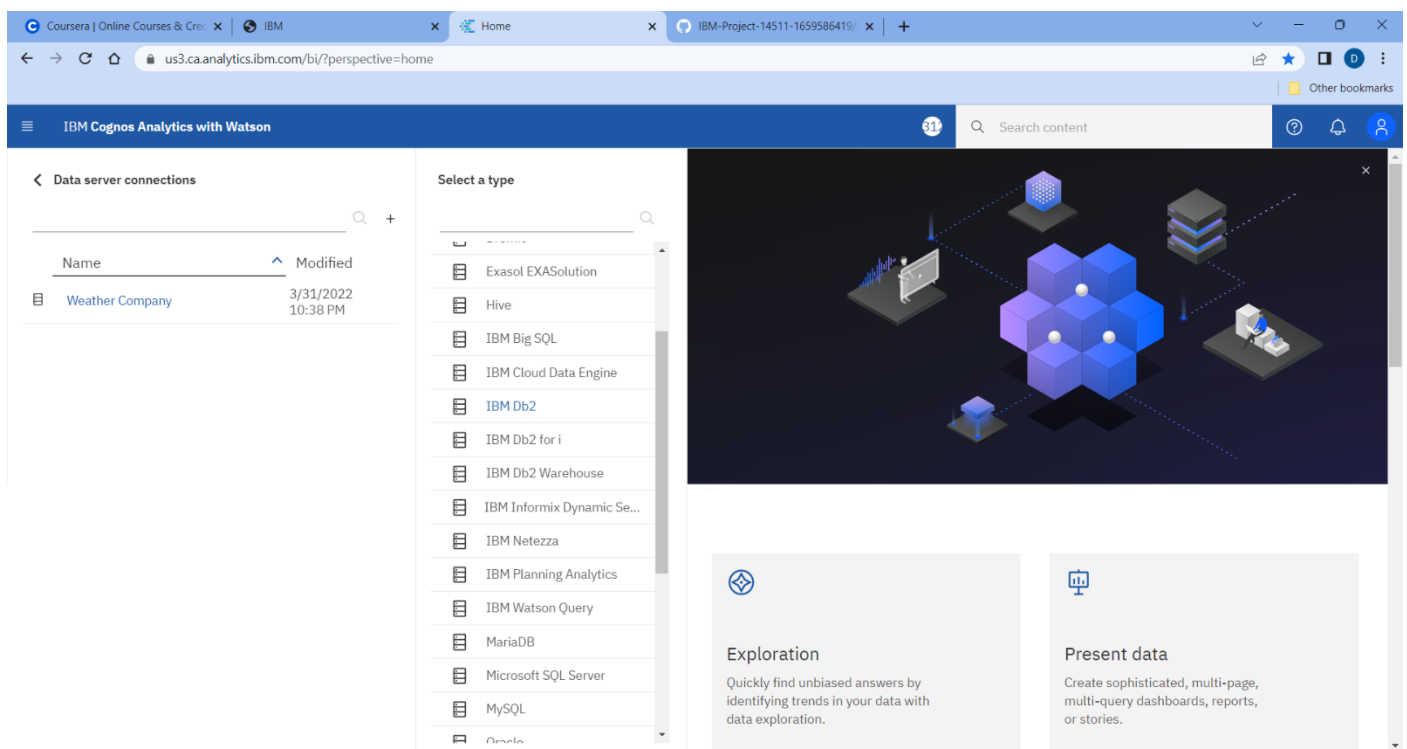
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The screenshot shows the IBM Cognos Analytics with Watson interface. The top navigation bar includes the IBM logo, a search bar, and user profile icons. The main content area is divided into three sections:

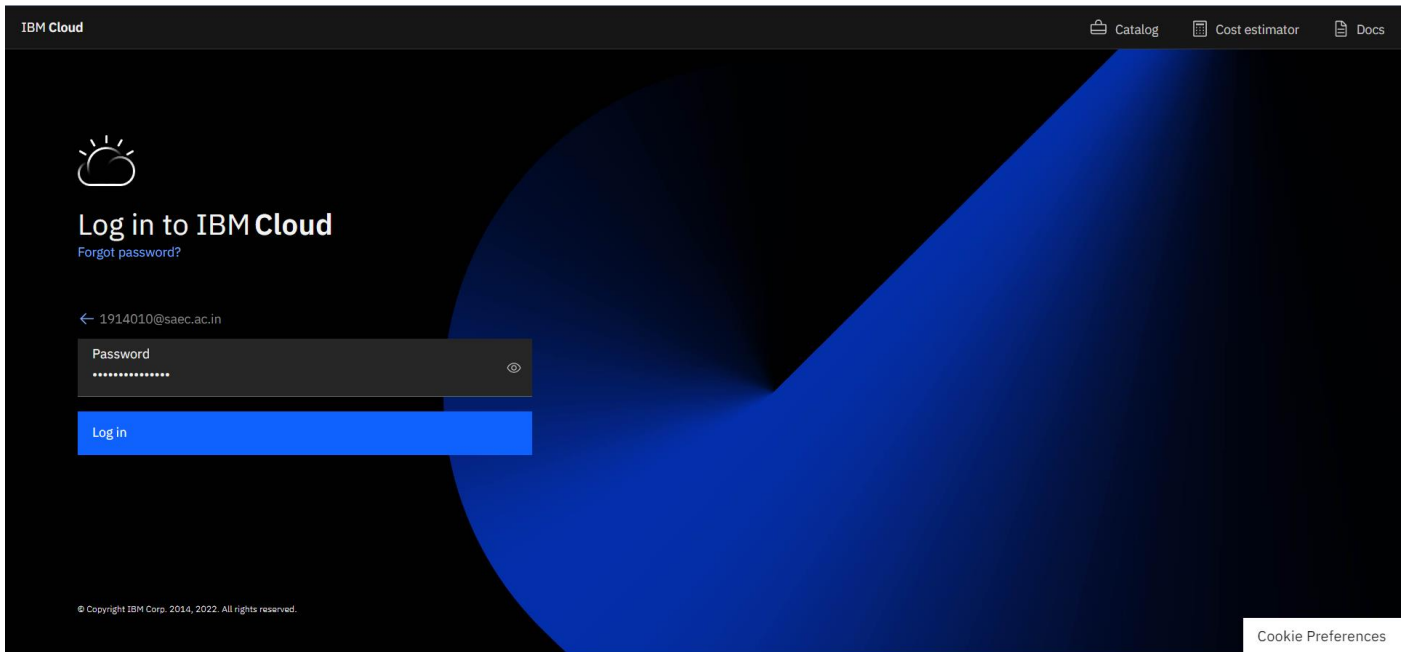
- Home:** A card at the top left with a 'New' button and a 'Upload data' button.
- Content:** A card in the middle left with a 'Recent' button and a 'Manage' button.
- Prepare data, Exploration, and Present data:** Three cards at the bottom. 'Prepare data' describes using data modules to clean and connect data. 'Exploration' describes finding unbiased answers by identifying trends. 'Present data' describes creating sophisticated, multi-page, multi-query dashboards, reports, or stories.



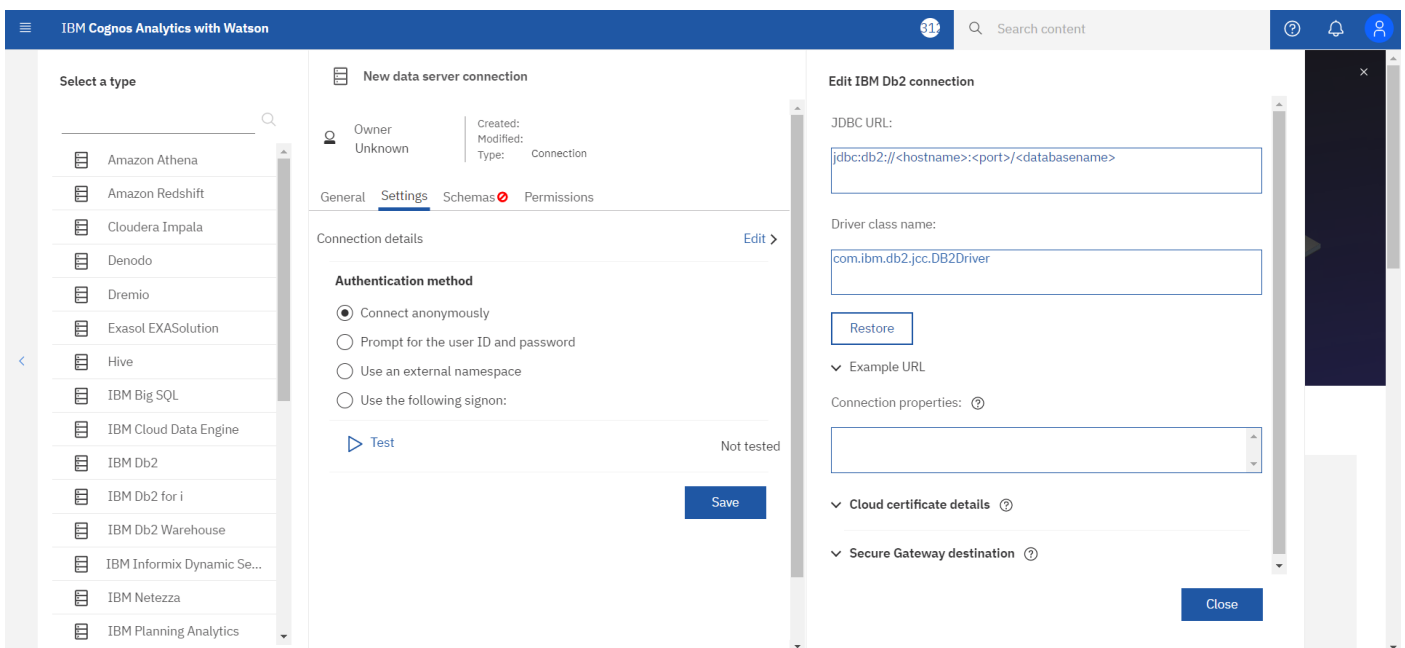
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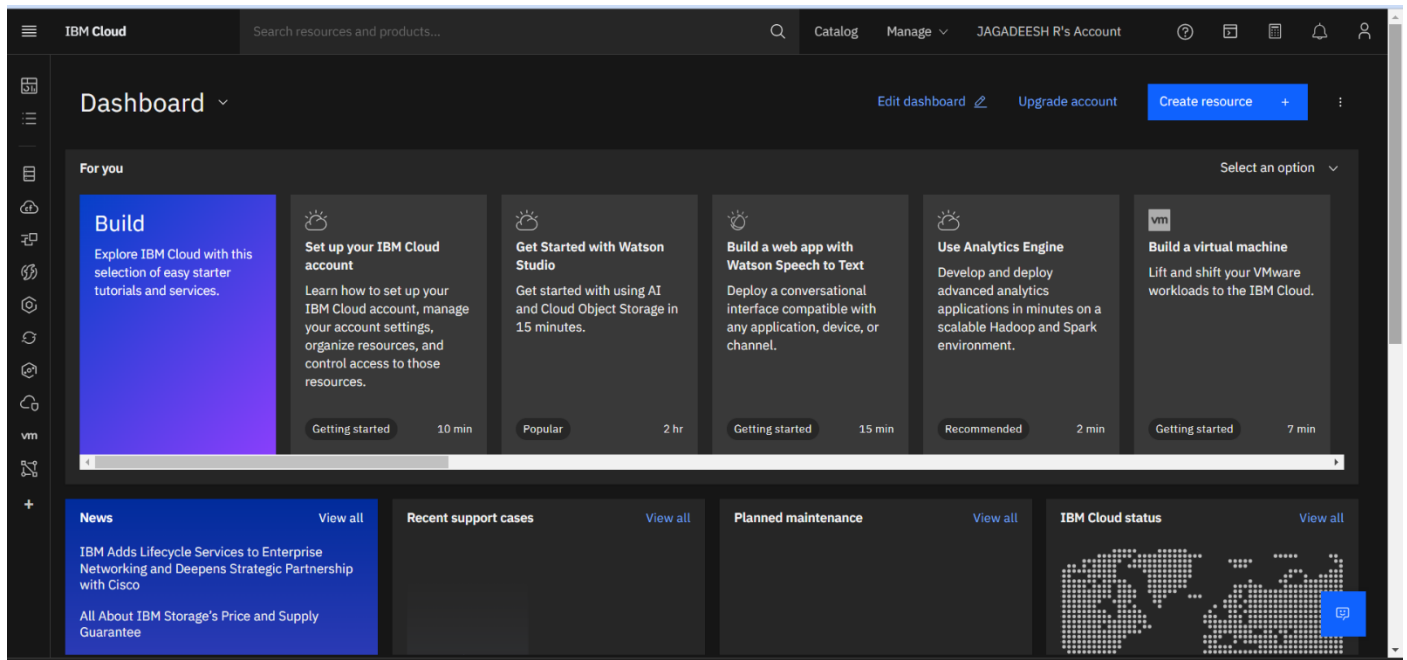


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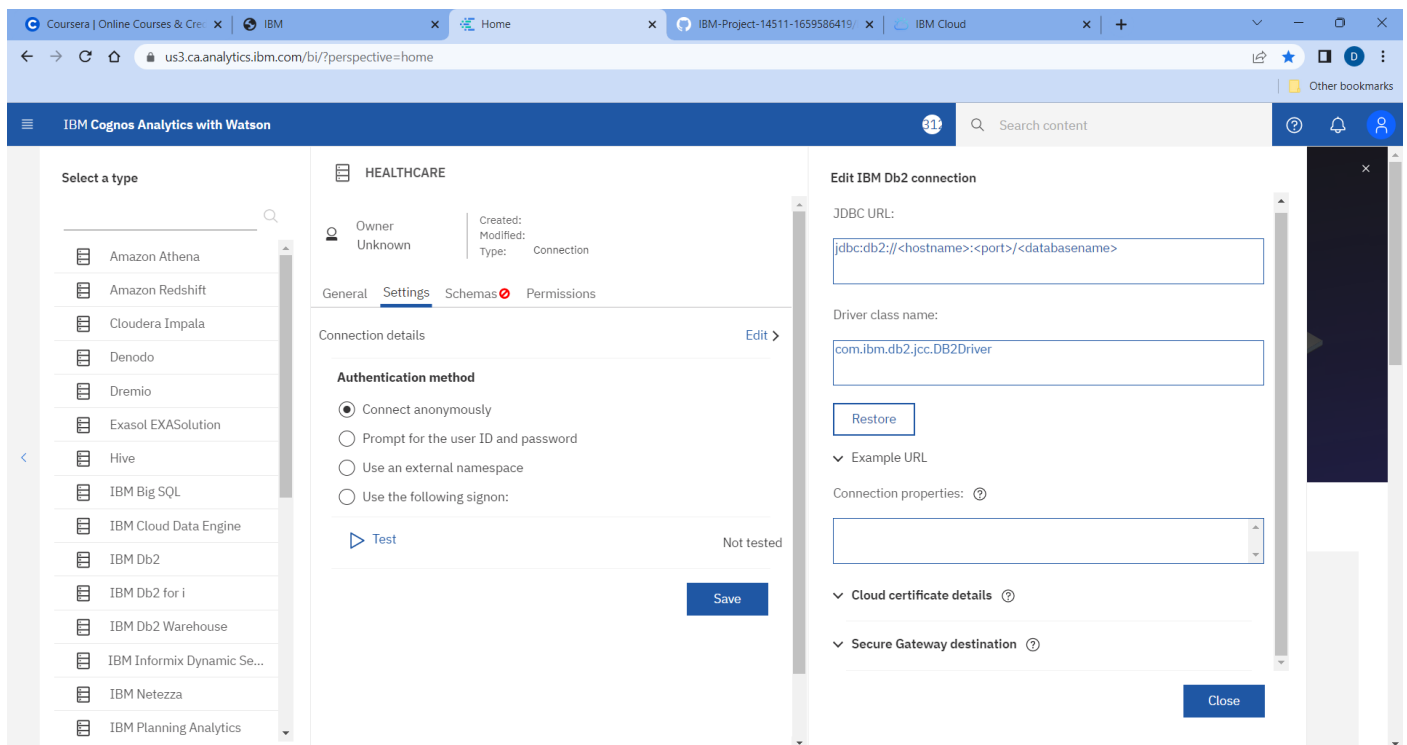


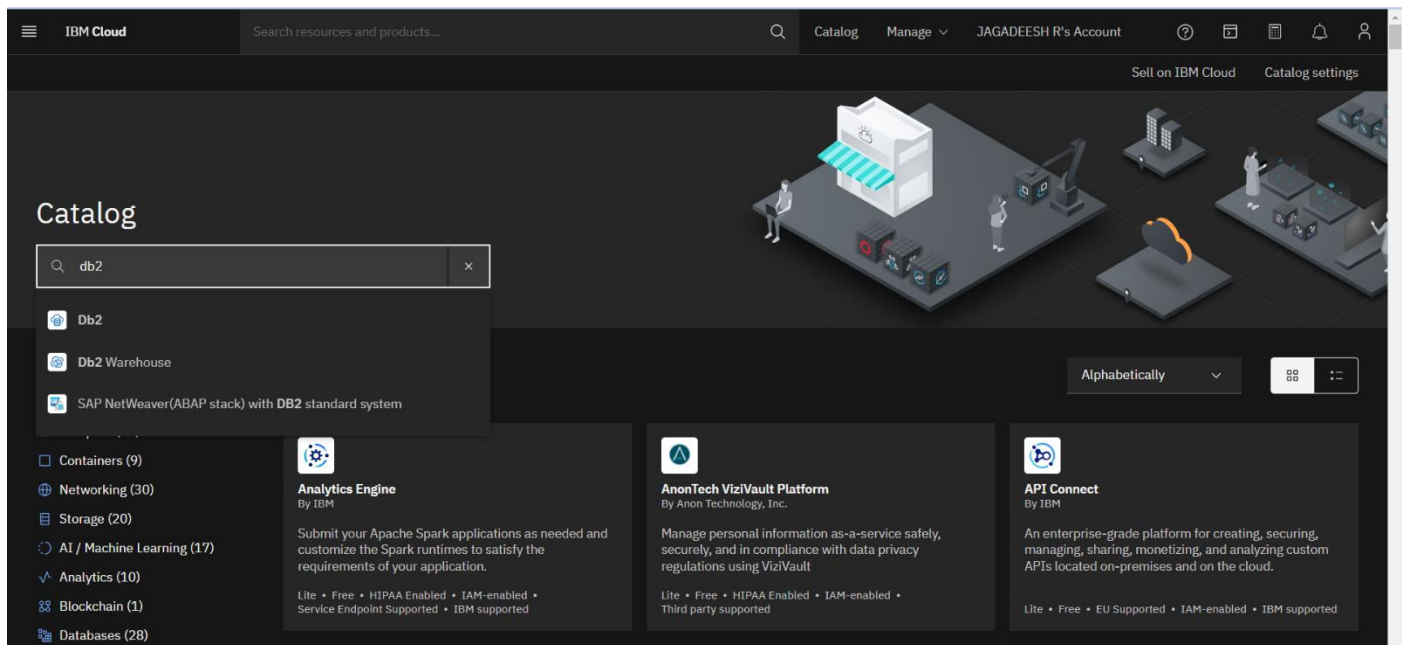
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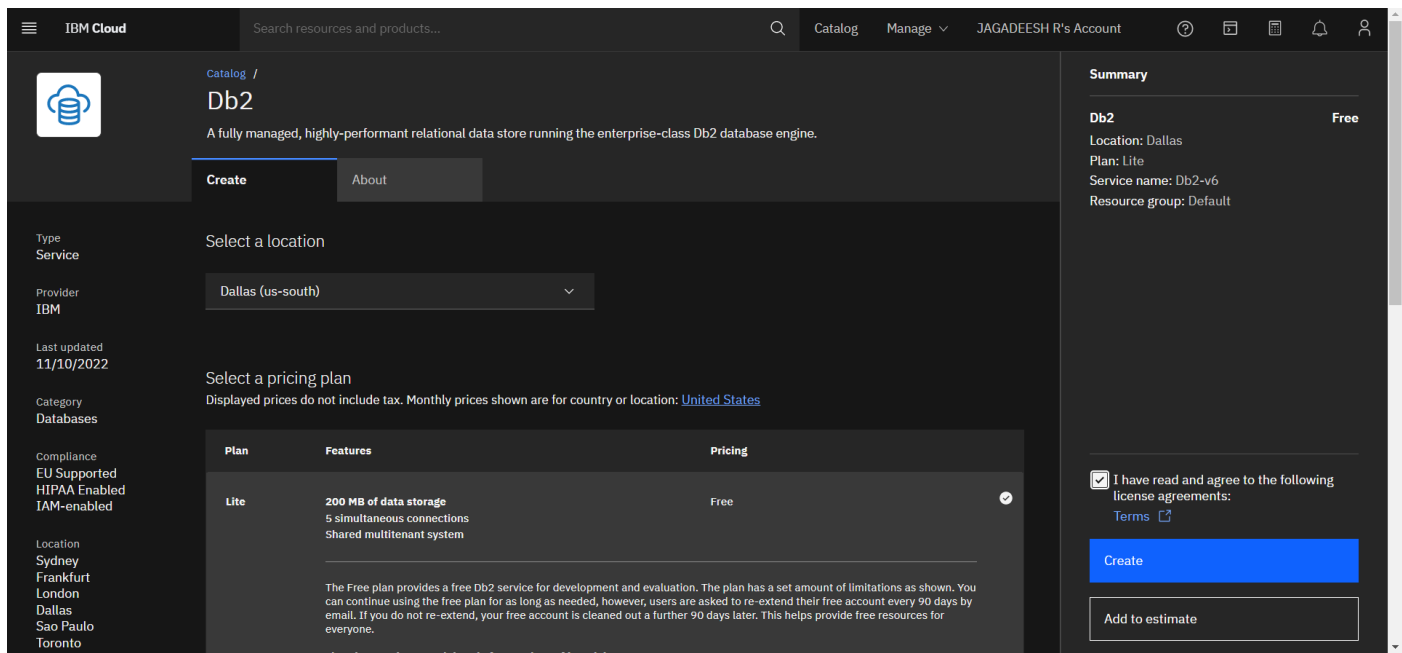


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IBM Cloud

Search resources and products...

Q

Catalog

Manage

JAGADEESH R's Account

?

Enterprise

**Dedicated instance with flexible scaling of compute and storage**  
Base Instance starts at 4 vCPU x 16 GB RAM x 20 GB Storage  
Uses dedicated virtual machines  
HIPAA Enabled

\$1.30 USD/Instance-Hour

\$0.00027 USD/Gigabyte-Hours

\$0.30 USD/Virtual Processor Core-Hour

\$0.00003 USD/BACKUP\_GIGABYTE\_HOURS

\$0.0959

USD/SERVICEENDPOINT\_INSTANCE\_HOURS

Summary

**Db2** **Free**

Location: Dallas

Plan: Lite

Service name: Db2-v6

Resource group: Default

Configure your resource

Service name

Db2-v6

Select a resource group

Default

Tags

Examples: env:dev, version-1

Access management tags

Examples: access:dev, proj:version-1

Email

Please provide an email address where we can reach you for updates

email@example.com

☒ I have read and agree to the following license agreements:

Terms

Create

Add to estimate

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IBM Cloud

Search resources and products...

Q

Catalog

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?

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)					
AI / Machine Learning (0)					
Analytics (0)					
Blockchain (0)					
Databases (1)					
Db2-v6	Default	Dallas	Db2	Active	
Developer tools (0)					
Logging and monitoring (0)					

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IBM Cloud

Search resources and products...

Catalog

Manage

JAGADEESH R's Account

Resource list /

Db2-v6

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

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IBM Cloud

Search resources and products...

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Active

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Details

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Getting started

Service credentials

Connections

Service credentials

You can generate a credential for an app or external component.

Search credentials

Key name

Role

Advanced options

No service credentials found.

Credential snippet lists credentials, such as the API key and secret, as well as connection information for the service.

Create credential

Name: Service credentials-1

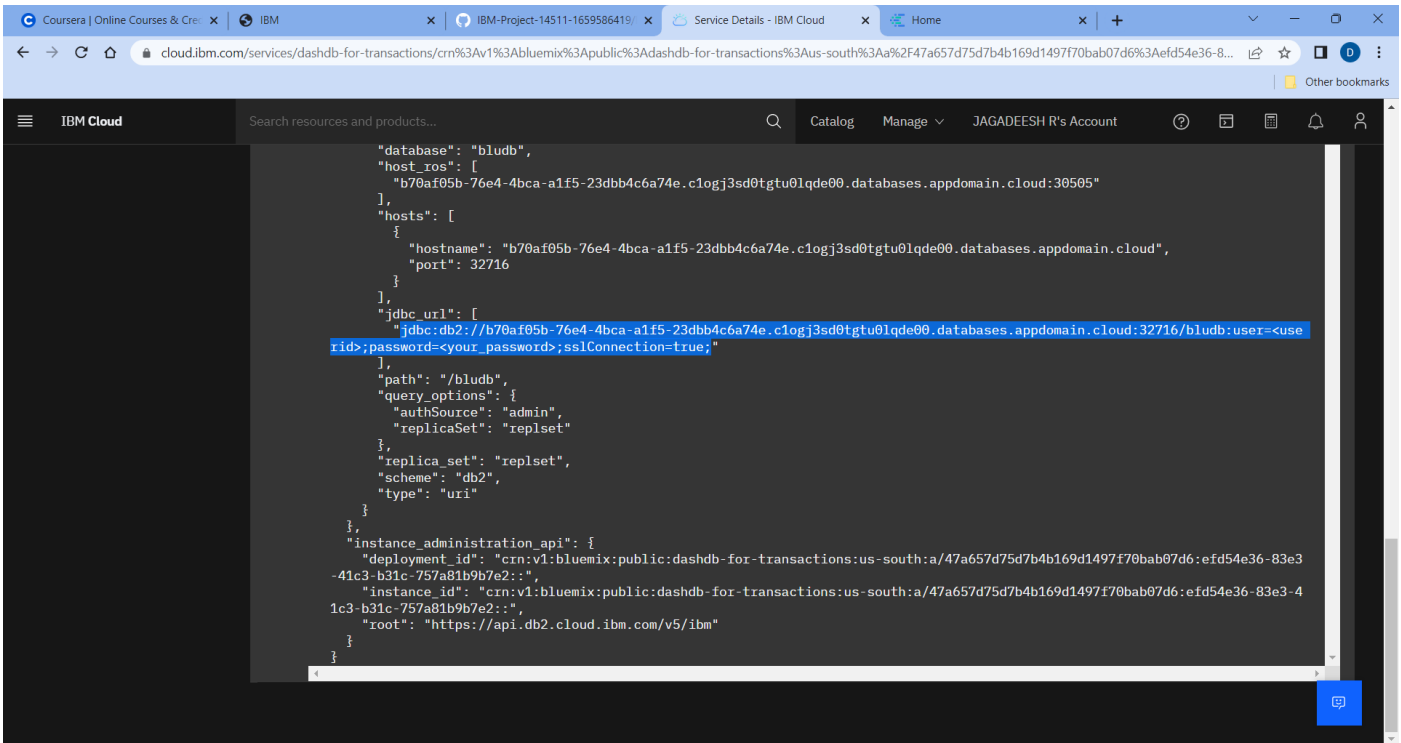
Role: Manager

Advanced options

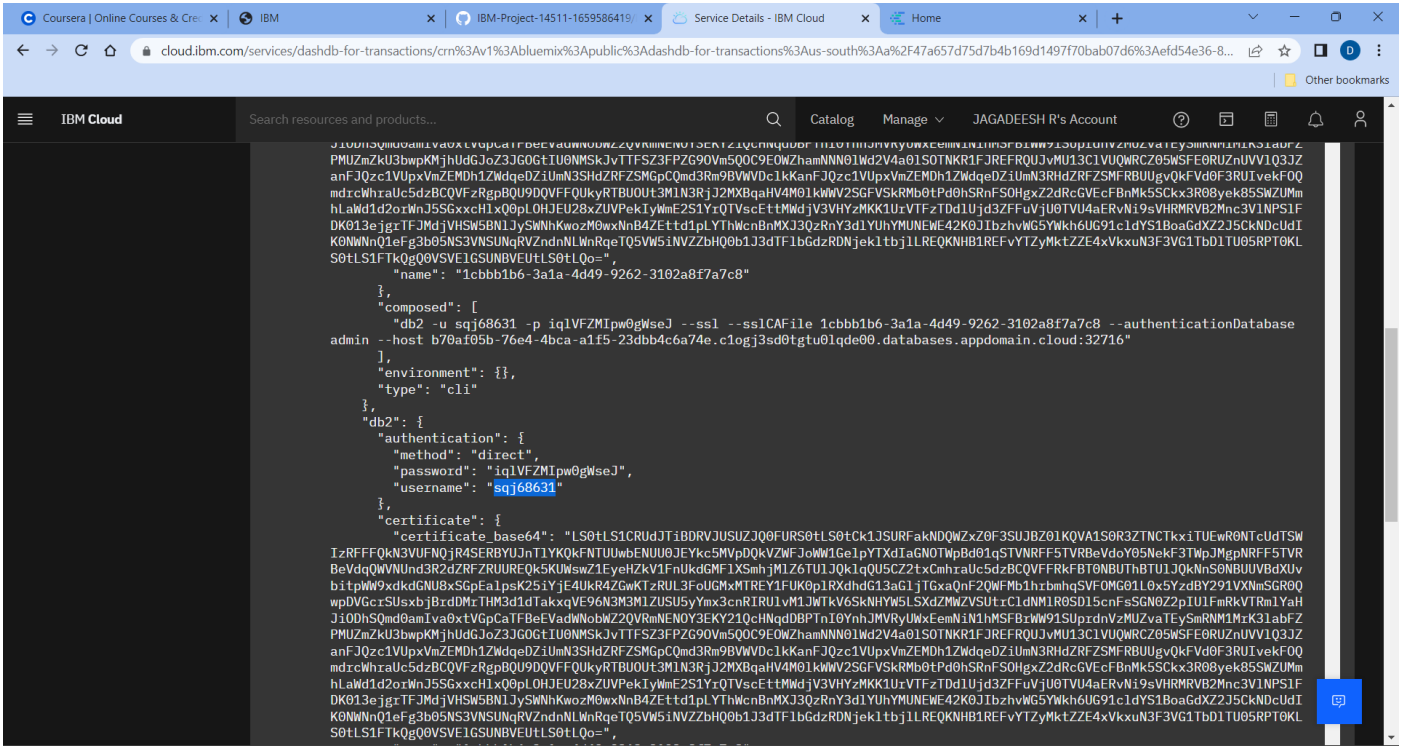
Cancel

Add

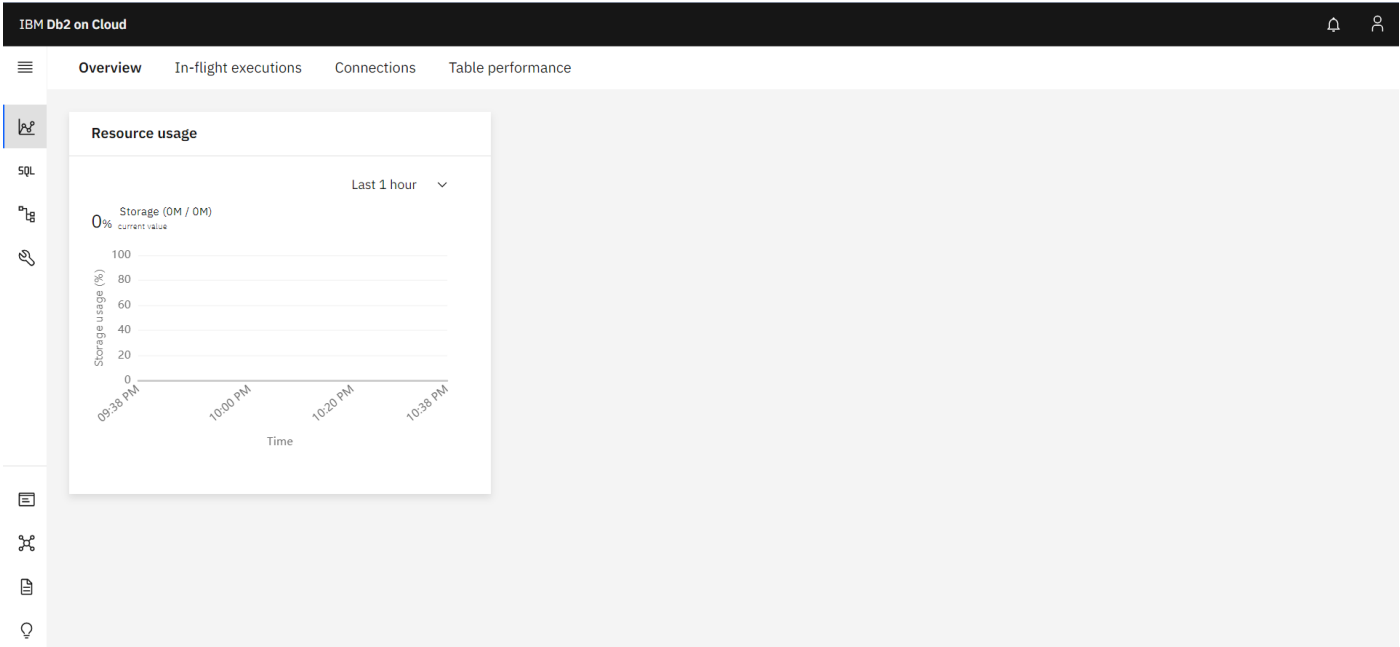
New credential



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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

My Computer  
A single delimited text file (CSV) without header row.

S3 Amazon S3

Cloud Object Storage

### File selection

Drag a file here or browse files

Next

IBM Db2 on Cloud

Load Data

Load History

Tables

Views

Indexes

Aliases

MQTs

Sequences

Application objects

SQL

Load Data

Source

Target

Define

Finalize

You are loading the file **train\_data.csv** into **SQJ68631.HOSPITAL**

Select a load target

Refresh

Schema

Find schemas

SQJ68631

Table

hospital

HOSPITAL

New table +

BackNext

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IBM Db2 on Cloud

Load Data

Load History

Tables

Views

Indexes

Aliases

MQTs

Sequences

Application objects

SQL

Load Data

Source

Target

Define

Finalize

You are loading the file **train\_data.csv** into **SQJ68631.HOSPITAL**

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

	CASE_ID SMALLINT	HOSPITAL_CODE SMALLINT	HOSPITAL_TYPE_CODE VARCHAR(1)	CITY_CODE_HOSPITAL SMALLINT	HOSPITAL_REGION_CODE VARCHAR(1)	AVAILABLE_EXTRA_ROOMS_IN_HOSPITAL SMALLINT	DEPART VARCHA
1	1	8	c	3	Z	3	radiothe
2	2	2	c	5	Z	2	radiothe
3	3	10	e	1	X	2	anesthe
4	4	26	b	2	Y	2	radiothe
5	5	26	b	2	Y	2	radiothe
6	6	23	a	6	X	2	anesthe
7	7	32	f	9	Y	1	radiothe
8	8	23	a	6	X	4	radiothe
9	9	1	d	10	Y	2	gynecolc
10	10	10	e	1	X	2	gynecolc

BackNext



IBM Db2 on Cloud

Load Data

Load History

Tables

Views

Indexes

Aliases

MQTs

Sequences

Application objects

Load details

WARNING

1831 warnings

My computer

train\_data.csv

Target

SQJ68631.HOSPITAL

Status

Settings

No data loaded or rejected.

0

0

0

Rows read

Rows loaded

Rows rejected

Start time

11/11/2022 10:48:13 PM

End time

11/11/2022 10:48:27 PM

The data load job succeeded.

You can now work with your data.

Errors

Warnings 1831

No errors

But, there are 1831 warnings.

Notifications

Clear all

Load completed with minor error

Load train\_data.csv from My Computer to SQJ68631.HOSPITAL

2022/11/11, 10:48 PM

View details

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Coursera | Online Courses

IBM

IBM-Project-14511-16595

Service Details - IBM Cloud

IBM Db2 on Cloud

Home

us3.ca.analytics.ibm.com/bi/?perspective=home

Other bookmarks

IBM Cognos Analytics with Watson

Search content

Data server connections

Name

Modified

New data server conn ... healthcare

11/11/2022 11:05 AM

Weather Company

3/31/2022 10:38 PM

Select a type

IBM Planning Analytics

IBM Watson Query

MariaDB

Microsoft SQL Server

MySQL

Oracle

PostgreSQL

Presto

Progress DataDirect Auto...

Salesforce

Singlestore

Snowflake

Teradata

Trino

Vertica

New data server connection healthcare

General Settings Schemas Permissions

Status

Schema name

Tables loaded

IBMPLOTS

IBMPDQ

IBM\_DSM\_VIEWS

IBM\_RTMON

IBM\_RTMON\_BASELINE

IBM\_RTMON\_DATA

IBM\_RTMON\_EVMON

IBM\_RTMON\_METADATA

PROCMGMT

SQJ68631

ST\_INFORMTN\_SCHEMA

71% loaded

Load metadata

Load options

ards, reports,

Show system schemas

IBM Cognos Analytics with Watson

IBM Cognos Analytics with Watson

IBM Db2 on Cloud

Load DataLoad HistoryTablesViewsIndexesAliasesMQTsSequencesApplication objects

Load details

WARNING1825 warnings

My computertrain\_data.csv

TargetSQJ68631.CASE\_ID

View Table

Load More Data

StatusSettings

318,438318,4380

Rows readRows loadedRows rejected

Start time11/11/2022 11:26:25 PM

End time11/11/2022 11:27:35 PM

The data load job succeeded.

You can now work with your data.

Errors0Warnings1825

No errors

But, there are 1825 warnings.

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IBM Db2 on Cloud

Load DataLoad HistoryTablesViewsIndexesAliasesMQTsSequencesApplication objects

SQJ68631.CASE\_ID

Back

Export to CSV

	CASE_ID SMALLINT	HOSPITAL_CODE SMALLINT	HOSPITAL_TYP... VARCHAR(1)	CITY_CODE_HO... SMALLINT	HOSPITAL_REG... VARCHAR(1)	AVAILABLE_EX... SMALLINT	DEPARTMENT VARCHAR(18)	WARD_TYPE VARCHAR(1)	WARD_FACILIT... VARCHAR(1)	BED_GRADE DECIMAL(3, 1)
1	1	8	c	3	Z	3	radiotherapy	R	F	2.0
2	2	2	c	5	Z	2	radiotherapy	S	F	2.0
3	3	10	e	1	X	2	anesthesia	S	E	2.0
4	4	26	b	2	Y	2	radiotherapy	R	D	2.0
5	5	26	b	2	Y	2	radiotherapy	S	D	2.0
6	6	23	a	6	X	2	anesthesia	S	F	2.0
7	7	32	f	9	Y	1	radiotherapy	S	B	3.0
8	8	23	a	6	X	4	radiotherapy	Q	F	3.0
9	9	1	d	10	Y	2	gynecology	R	B	4.0
10	10	10	e	1	X	2	gynecology	S	E	3.0
11	11	22	g	9	Y	2	radiotherapy	S	B	2.0

Data module

Search

New data module

Navigation paths

Case Id

# Case Id

# Hospital Code

abc Hospital Type Code

City Code Hospital

Hospital ...ion Code

Available...Hospital

abc Department

abc Ward Type

abc Ward Facility Code

Bed Grade

Patientid

City Code Patient

abc Type Of Admission

abc Severity Of Illness

Case Id	Hospital Code	Hospital Type Code	City Code Hospital	Hospital Region Code	Available E...In Hospital	Department
1	8	c	3	Z	3	radiotherapy
2	2	c	5	Z	2	radiotherapy
3	10	e	1	X	2	anesthesia
4	26	b	2	Y	2	radiotherapy
5	26	b	2	Y	2	radiotherapy
6	23	a	6	X	2	anesthesia
7	32	f	9	Y	1	radiotherapy
8	23	a	6	X	4	radiotherapy
9	1	d	10	Y	2	gynecology
10	10	e	1	X	2	gynecology
11	22	g	9	Y	2	radiotherapy
12	26	b	2	Y	4	radiotherapy
13	16	c	3	Z	2	radiotherapy