Cloudant DB- Create Database

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Project Name :	VirtualEye-Life Guard for swimming Pools to Detect Active Drowning

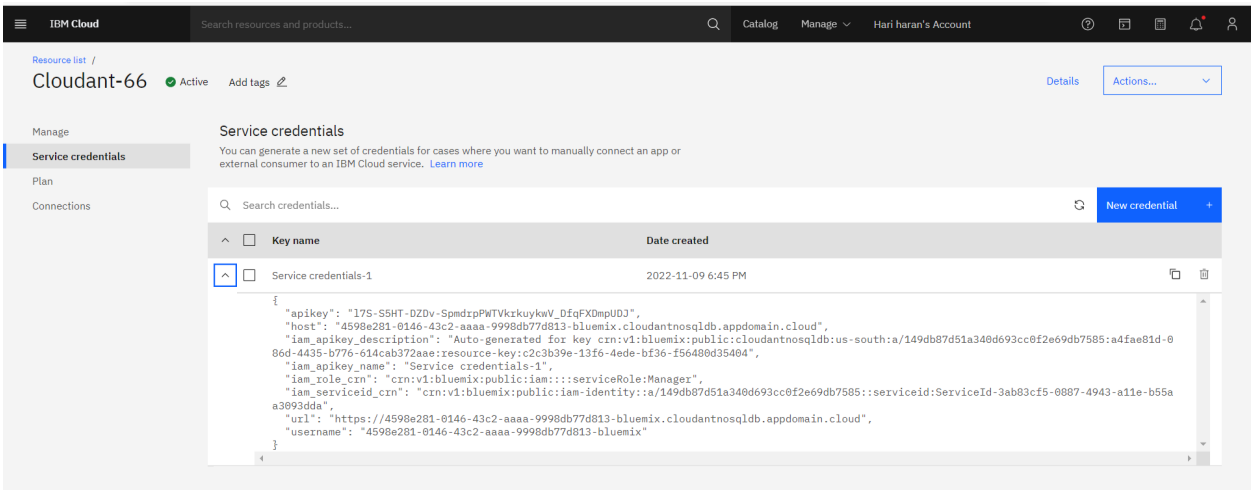
- In order to manage a connection from a local system you must first initialize the connection by constructing a Cloudant client.We need to import the cloudant library.

```
from cloudant.client import Cloudant
```

- IBM Cloud Identity & Access Management enables you to securely authenticate users and control access to all cloud resources consistently in the IBM Bluemix Cloud Platform.

```
# Authenticate using an IAM API key
client = Cloudant.iam('username','apikey', connect=True)
```

In the above cloudant.iam() method we have to give username & apikey to build the connection with cloudant DB.



- Once a connection is established you can then create a database, open an existing database.

- Create a database as my_database.

```
# Create a database using an initialized client
my_database = client.create_database('my_database')
```

Creating Database

API module that maps to a Cloudant or CouchDB database instance.

cloudant.database.CloudantDatabase

Bases: `cloudant.database.CouchDatabase`

Encapsulates a Cloudant database. A CloudantDatabase object is instantiated with a reference to a client/session. It supports accessing the documents, and various database features such as the document indexes, changes feed, design documents, etc.

Parameters:

- **client** (*Cloudant*) – Client instance used by the database.
- **database_name** (*str*) – Database name used to reference the database.
- **fetch_limit** (*int*) – Optional fetch limit used to set the max number of documents to fetch per query during iteration cycles. Defaults to 100.
- **partitioned** (*bool*) – Create as a partitioned database. Defaults to `False`.

get_partitioned_search_result(*partition_key*, *ddoc_id*, *index_name*, ***query_params*)

Retrieves the raw JSON content from the remote database based on the partitioned search index on the server, using the query_params provided as query parameters.

See `get_search_result()` method for further details.