



IBM Bluemix™

Integrantes:

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¿Qué es?

IBM Bluemix es un PAAS(Platform as a Service) desarrollado por IBM.

Su desarrollo tiene inicios desde finales de 2012, a los 18 meses fue presentado al público y en 2014 fue lanzado como versión beta.

Está basado en la tecnología de Cloud Foundry y se ejecuta sobre la infraestructura de softlayer

Lenguajes y paquetes que soporta

Java

Node.js

GO

PHP

Python(Django, Pyramid)

Ruby(Sinatra, Rails)

Gestores de base de datos que soporta

SQL

DB2: Sistema de gestión de base de datos relacional de IBM

MySQL: Sistema de gestión de base de datos relacional

NoSQL

Cloudant: Servicio de base de datos distribuídas no relacionales

MongoDb:sistema de base de datos NoSQL orientado a documentos

SOLO BASE DE DATOS

Cloudbant

Standard	Scalable throughput & storage Includes 20 GB of free data storage Scale provisioned throughput capacity in increments of 100 lookups/sec, 50 writes/sec, 5 queries/sec	\$1.00 USD / GB of data storage \$0.25 USD / Lookup per second \$0.50 USD / Write per second \$5.00 USD / Query per second
Dedicated Hardware	Add-on premium for a single tenant environment Available in any IBM Cloud location HIPAA readiness option for US locations IP whitelisting Customer-managed encryption keys with Key Protect	\$5,000.00 USD / Instance

MySQL

✓ **Standard**

1GB Storage
102MB RAM
Scales automatically with data
Deploys into the IBM Compose public cloud

GB
\$18.00 USD / 1 - 9
\$16.20 USD / 10 - 24
\$14.40 USD / 25 - 49
\$12.60 USD / 50 - 99
\$10.80 USD / 100 - 499
\$9.00 USD / 500 - 999
\$7.20 USD / 1,000 - 4,999
\$5.40 USD / 5,000+

Enterprise

1GB Storage
102MB RAM
Scales automatically with data
Deploys into a private, isolated, customer-
dedicated cluster

GB
\$18.00 USD / 1 - 9
\$16.20 USD / 10 - 24
\$14.40 USD / 25 - 49
\$12.60 USD / 50 - 99
\$10.80 USD / 100 - 499
\$9.00 USD / 500 - 999
\$7.20 USD / 1,000 - 4,999
\$5.40 USD / 5,000+

DB2

Flex (Recommended)	Scalable RAM, CPU and storage. Flexible pricing. Uses dedicated virtual machines.	\$189.00 USD / Instance \$189.00 USD / Instance (High Availability) \$13.00 USD / GB of RAM \$1.00 USD / GB of Storage \$0.20 USD / 1 million IO operations \$189.00 USD / Instance (Disaster Recovery Node)
Precise Performance 500 (2.8.500)	Dedicated Instance with 8GB RAM and 2 vCPUs. 500 GB of storage for data and logs.	\$250.00 USD / Instance \$500.00 USD / Instance (High Availability) \$250.00 USD / Instance (Disaster Recovery Node)
Precise Performance 1400 (12.128.1400)	Dedicated bare metal Instance with 128GB RAM and 12 Cores. 1.4 TB SSD storage for data and logs	\$4,000.00 USD / Instance \$8,000.00 USD / Instance (High Availability) \$4,000.00 USD / Instance (Disaster Recovery Node)
Precise Performance 10000 (48.1000.10000)	Dedicated bare metal Instance with 1TB RAM and 48 Cores. 11 TB of storage for data and logs	\$18,000.00 USD / Instance \$36,000.00 USD / Instance (High Availability) \$18,000.00 USD / Instance (Disaster Recovery Node)

CREACIÓN DE CUENTA (cuenta free)

Como cualquier cuenta, requiere de un correo para el registro.



Sign up for an IBMid and create your IBM Cloud account

Build on IBM Cloud for free with
no time restrictions

Guaranteed free development with Lite plans

Develop worry-free and at no cost with cap based Lite plan services for as long as you like.

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Skip entering your credit card info and get working in just a few short steps.

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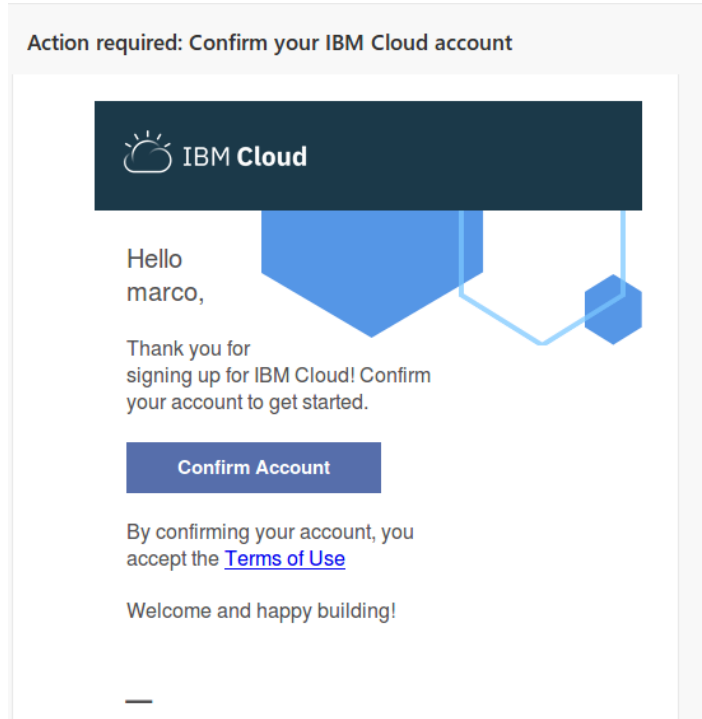
Email*



First Name*

Last Name*

Se envía un enlace de confirmación de la cuenta



Dashboard



IBM Cloud

Catalog

Docs

Support

Manage

Search for resource...

marco Pascual's Account



Catalog

label:lite

Filter

All Categories (52)

Compute (10)

Containers (1)

Networking

Storage (1)

AI (14)

Analytics (4)

Databases (3) >

Developer Tools (7)

Integration (2)

Internet of Things (1)

Security and Identity (3)

Starter Kits (2)

Web and Mobile (2)

Web and Application (2)

Databases



Cloudant

Lite • IBM

A scalable JSON document database for web, mobile, IoT, and serverless applications.



Db2

Lite • IBM

A next generation SQL database. Formerly dashDB For Transactions.



SQL Query

Lite • IBM

Analyze data in Object Storage with ANSI SQL.

FEEDBACK

CÓMO CREAR UNA BD SIMPLE

Service name:

demo002

Choose a region/location to deploy in:

Dallas

Choose an organization:

marcopascualr@outlook.com

Choose a space:

dev

Datacenter Location:

Dallas (Instant activation)**

Specify which datacenter location, you would like the service to be hosted in. **Deploy time depends on available resources.

High Availability Configuration:

If you require high availability, please choose this option

YES NO

Oracle Compatibility Configuration:

If you require Oracle compatibility, please choose this option

YES NO

CÓMO CREAR UNA BD SIMPLE

Pricing Plans

Monthly prices shown are for country or region: [Mexico](#)

PLAN	FEATURES	PRICING
✓ Lite	Shared multitenant system 100 MB of data storage 5 simultaneous connections	Free
<hr/> <p>The Lite plan provides a free Db2 service for development and evaluation. You can continue using the Lite plan for as long as needed, however, users are asked to re-extend their service every 30 days by email. If you do not re-extend, your service is removed 60 days later. This helps provide free resources for everyone.</p> <p>Lite plan services are deleted after 30 days of inactivity.</p>		
Flex (Recommended)	Scalable RAM, CPU and storage. Flexible pricing. Uses dedicated virtual machines.	\$217.35 USD/Instance \$217.35 USD/Instance (High Availability) \$14.95 USD/GB of RAM \$1.15 USD/GB of Storage \$0.23 USD/1

Monthly Cost

[View](#)

Create

CÓMO CREAR UNA BD SIMPLE

Dashboard

RESOURCE GROUP
All Resources ▾

CLOUD FOUNDRY ORG
All Organizations ▾

CLOUD FOUNDRY SPACE
All Spaces ▾

LOCATION
All Locations ▾

CATEGORY
X Databases ▾

Filter by resource name...

Create resource


Services



Name ▲	Location	Resource Group	Plan	Details	Service Offering
demo001	US South	Default	Lite	Provisioned	SQL Query

CÓMO CREAR UNA BD SIMPLE

Dashboard /

 demo002

Location: Dallas

Org: marcopascualr@outlook.com

Space: dev



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

CÓMO CREAR UNA BD SIMPLE

- Manage
- Service credentials**
- Connections

Dashboard /

 demo002


Location: Dallas Org: marcopascualr@outlook.com Space: dev

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.

[Learn more](#)

Service credentials

[New credential](#) 

Items per page **10** | 1-1 of 1 items

1 of 1 pages



1



KEY NAME

DATE CREATED

ACTIONS

acceso1

NOV 5, 2018 - 02:33:45 AM

View credentials 





EXPLORE

Show system schemas [Refresh](#)

Schema

Find a schema



XWP87349

ERRORSCHEMA *Sample*

ST_INFORMTN_SCHEMA *Sample*



HOME

LOAD

EXPLORE

RUN SQL

▼ MONITOR

▼ SETTINGS

▼ CONNECTION INFO

▼ HELP



LOAD



Select a data source

My Computer

A single delimited text file (CSV).

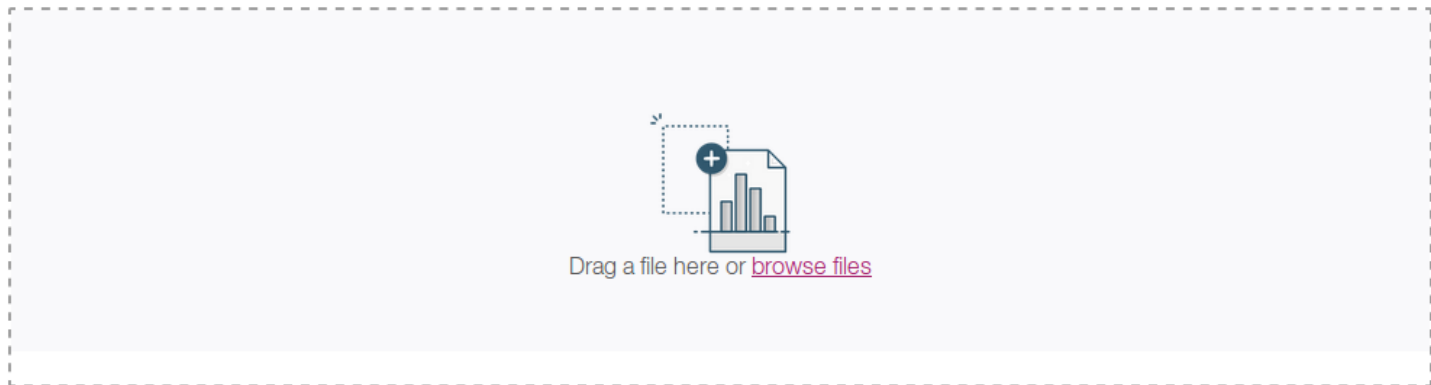
S3 Amazon S3

SoftLayer Swift

Netezza and large CSV file migrations

Lift

File selection



High-speed loads powered by Aspera

Next



Show system schemas



Refresh

Schema

Find a schema

QWF35431 ERRORSCHEMA *Sample*ST_INFORMTN_SCHEMA *Sample*

Table

 New Table

Find a table in QWF35431

COLERA 

Table definition

 Delete Table

COLERA

Approximate 2470
rows (96 KB)

Updated on 11/8/2018 at 4:54:04 AM

COLUMN NAME	DATA TYPE	NULLABLE
pais	VARCHAR	Y
anio	SMALLINT	Y
reportes	VARCHAR	Y

[View Data](#)

EXPLORE

[← Back](#)

QWF35431.COLERA

[🗑 Delete Table](#) [📄 Export to CSV](#)

	PAIS VARCHAR(52)	ANIO SMALLINT	REPORTES VARCHAR(6)
1	Afghanistan	2016	677
2	Afghanistan	2015	58064
3	Afghanistan	2014	45481
4	Afghanistan	2013	3957
5	Afghanistan	2012	12
6	Afghanistan	2011	3733
7	Afghanistan	2010	2369
8	Afghanistan	2009	662
9	Afghanistan	2008	4384
10	Afghanistan	2005	33
11	Afghanistan	2003	41

CADENA DE CONEXIÓN

```
{  
  "hostname": "dashdb-txn-sbox-yp-dal09-04.services.dal.ibm.com",  
  "password": "qqrfb1zl-kwbtfhx",  
  "https_url": "https://dashdb-txn-sbox-yp-dal09-04.services.dal.ibm.com",  
  "port": 50000,  
  "ssldsn": "DATABASE=BLUDB;HOSTNAME=dashdb-txn-sbox-yp-dal09-  
04.services.dal.ibm.com;PORT=50001;PROTOCOL=TCPIP;UID=xwp87349;PWD=qqrfb1zl-kwbtfhx;Security=SSL;",  
  "host": "dashdb-txn-sbox-yp-dal09-04.services.dal.ibm.com",  
  "jdbcurl": "jdbc:db2://dashdb-txn-sbox-yp-dal09-04.services.dal.ibm.com:50000/BLUDB",  
  "uri": "db2://xwp87349:qqrfb1zl-kwbtfhx@dashdb-txn-sbox-yp-dal09-04.services.dal.ibm.com:50000/BLUDB",  
  "db": "BLUDB",  
  "dsn": "DATABASE=BLUDB;HOSTNAME=dashdb-txn-sbox-yp-dal09-  
04.services.dal.ibm.com;PORT=50000;PROTOCOL=TCPIP;UID=xwp87349;PWD=qqrfb1zl-kwbtfhx;",  
  "username": "xwp87349",  
  "ssljdbcurl": "jdbc:db2://dashdb-txn-sbox-yp-dal09-04.services.dal.ibm.com:50001/BLUDB:sslConnection=true;"  
}
```

Ejemplo de conexión

```
$ pip install ibm_db
```

marco@marco-PC: ~/Desktop\$ python3 conecta.py

```
Pais: Afghanistan Anio: 2016 Casos: 677
Pais: Afghanistan Anio: 2015 Casos: 58064
Pais: Afghanistan Anio: 2014 Casos: 45481
Pais: Afghanistan Anio: 2013 Casos: 3957
Pais: Afghanistan Anio: 2012 Casos: 12
Pais: Afghanistan Anio: 2011 Casos: 3733
Pais: Afghanistan Anio: 2010 Casos: 2369
Pais: Afghanistan Anio: 2009 Casos: 662
Pais: Afghanistan Anio: 2008 Casos: 4384
Pais: Afghanistan Anio: 2005 Casos: 33
Pais: Afghanistan Anio: 2003 Casos: 41
Pais: Afghanistan Anio: 2002 Casos: 3
Pais: Afghanistan Anio: 2001 Casos: 4499
Pais: Afghanistan Anio: 2000 Casos: 4330
Pais: Afghanistan Anio: 1999 Casos: 24639
Pais: Afghanistan Anio: 1998 Casos: 10000
Pais: Afghanistan Anio: 1997 Casos: 4170
Pais: Afghanistan Anio: 1995 Casos: 19903
Pais: Afghanistan Anio: 1994 Casos: 38735
Pais: Afghanistan Anio: 1993 Casos: 37046
Pais: Afghanistan Anio: 1965 Casos: 218
Pais: Afghanistan Anio: 1960 Casos: 887
Pais: Albania Anio: 1994 Casos: 626
Pais: Algeria Anio: 2006 Casos: 0
Pais: Algeria Anio: 2005 Casos: 0
Pais: Algeria Anio: 1994 Casos: 118
Pais: Algeria Anio: 1992 Casos: 69
Pais: Algeria Anio: 1990 Casos: 1299
Pais: Algeria Anio: 1989 Casos: 393
Pais: Algeria Anio: 1988 Casos: 699
Pais: Algeria Anio: 1987 Casos: 1507
Pais: Algeria Anio: 1984 Casos: 45
Pais: Algeria Anio: 1983 Casos: 218
Pais: Algeria Anio: 1980 Casos: 614
Pais: Algeria Anio: 1979 Casos: 2513
Pais: Algeria Anio: 1978 Casos: 220
Pais: Algeria Anio: 1977 Casos: 262
Pais: Algeria Anio: 1976 Casos: 286
Pais: Algeria Anio: 1975 Casos: 1165
Pais: Algeria Anio: 1974 Casos: 738
Pais: Algeria Anio: 1973 Casos: 605
Pais: Algeria Anio: 1972 Casos: 646
```

```
marco@marco-PC:~/Desktop$ python3 conecta.py
```

```
Pais: Afghanistan Anio: 2016 Casos: 677  
Pais: Afghanistan Anio: 2015 Casos: 58064  
Pais: Afghanistan Anio: 2014 Casos: 45481  
Pais: Afghanistan Anio: 2013 Casos: 3957  
Pais: Afghanistan Anio: 2012 Casos: 12  
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Pais: Afghanistan Anio: 2000 Casos: 4330  
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Pais: Afghanistan Anio: 1993 Casos: 37046  
Pais: Afghanistan Anio: 1965 Casos: 218  
Pais: Afghanistan Anio: 1960 Casos: 887  
Pais: Albania Anio: 1994 Casos: 626
```


Referencias

<https://www.ibm.com/cloud/>