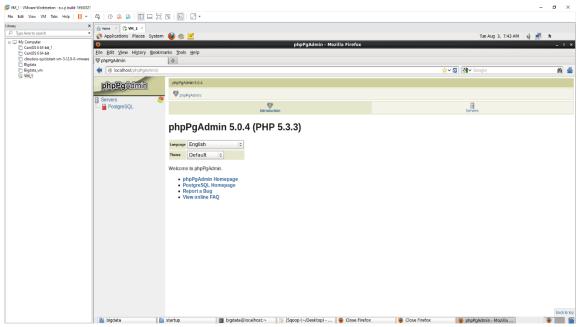
## Sqoop\_Lab

Start your Hadoop HDFS & YARN Makesure you have sqoop installed Inside the sqoop lib check for postgres JDBC

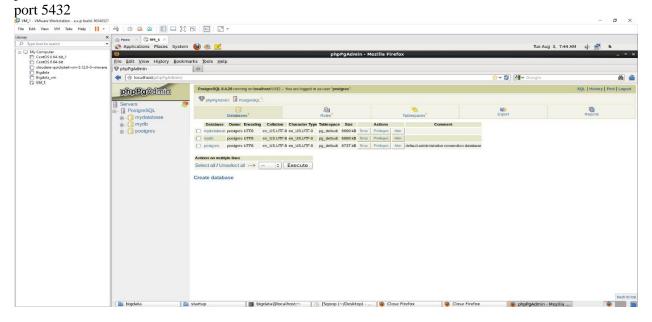
## #postgres access #GUI

http://localhost/phpPgAdmin/



Select postgres username postgres pass:post

username bob pass :bob



```
username postgres
pass:post
(base) [bigdata@localhost ~]$ su root
Password: 123456
[root@localhost bigdata]# su postgres
bash-4.1$ psql
Password: post
psql (9.4.26)
Type "help" for help.
postgres=#
#listing databases in PostgreSQL
postgres=#\1+
                                List of data
bases
 Name | Owner | Encoding | Collate | Ctype | Access privile
ges | Size | Tablespace | Description
mydatabase | postgres | UTF8 | en US.UTF-8 | en US.UTF-8 | =Tc/postgres
  +| 6689 kB | pg_default |
                           | postgres=CTc/pos
     tgres+
                           | mm=CTc/postgres
         mydb | postgres | UTF8 | en_US.UTF-8 | en_US.UTF-8 | =Tc/postgres
  +| 6689 kB | pg_default |
     | postgres=CTc/pos
tgres+
        | bob=CTc/postgres
postgres | postgres | UTF8 | en_US.UTF-8 | en_US.UTF-8 |
  | 6852 kB | pg | default | default administrative connection database
template0 | postgres | UTF8 | en US.UTF-8 | en US.UTF-8 | =c/postgres
  +| 6681 kB | pg_default | unmodifiable empty database
                  | | postgres=CTc/pos
     tgres
       template1 | postgres | UTF8 | en_US.UTF-8 | en_US.UTF-8 | =c/postgres
  +| 6804 kB | pg_default | default template for new databases
       | | postgres=CTc/pos
tgres |
(5 rows)
```

#CLI

```
#listing tables in PostgreSQL
   • \dt or \dt+
postgres=# \dt
    List of relations
Schema | Name | Type | Owner
-----+-----
public | company | table | postgres
public | weather | table | postgres
##To get out of psql, type:
mydb = > \q
postgres=# SELECT version();
   version
PostgreSQL 9.4.26 on x86_64-unknown-linux-gnu, compiled by gcc (GCC) 4.4.7 2012
0313 (Red Hat 4.4.7-23), 64-bit
(1 row)
postgres=# SELECT current date;
#CREATE TABLE
CREATE TABLE COMPANY1(
 ID INT PRIMARY KEY NOT NULL,
 NAME
            TEXT NOT NULL,
 AGE
           INT NOT NULL,
 ADDRESS
             CHAR(50),
 SALARY
             REAL
postgres=# CREATE TABLE COMPANY1(
postgres(# ID INT PRIMARY KEY NOT NULL,
postgres(# NAME TEXT NOT NULL,
postgres(# AGE INT NOT NULL,
postgres(# ADDRESS CHAR(50),
postgres(# SALARY
                      REAL
postgres(#);
CREATE TABLE
INSERT INTO COMPANY1 VALUES (2, 'Ahmed', 25, 'Giza', '20000.00');
INSERT INTO COMPANY1 VALUES (3, 'Lobna', 23, 'Giza', 20000.00);
INSERT INTO COMPANY1 VALUES (1, 'Marwa', 32, 'Cairo', 30000.00);
INSERT INTO COMPANY1 VALUES (4, 'Amal', 32, 'Cairo', 30000.00);
select * FROM COMPANY1;
postgres=# INSERT INTO COMPANY1 VALUES (2, 'Ahmed', 25, 'Giza', '20000.00');
INSERT 01
postgres=# INSERT INTO COMPANY1 VALUES (3, 'Lobna', 23, 'Giza', 20000.00);
INSERT 01
```

```
postgres=# INSERT INTO COMPANY1 VALUES (1, 'Marwa', 32, 'Cairo', 30000.00);
INSERT 01
postgres=# INSERT INTO COMPANY1 VALUES (4, 'Amal', 32, 'Cairo', 30000.00);
INSERT 01
postgres=# select * FROM COMPANY1;
id | name | age |
     salary
---+-----
 2 | Ahmed | 25 | Giza
     | 20000
 3 | Lobna | 23 | Giza
     | 20000
 1 | Marwa | 32 | Cairo
     | 30000
 4 | Amal | 32 | Cairo
     30000
(4 rows)
CREATE TABLE weather2 (
city varchar(80),
temp_lo int, -- low temperature
temp_hi int, -- high temperature
date date
);
postgres=# CREATE TABLE weather2 (
postgres(# city varchar(80),
postgres(# temp_lo int, -- low temperature
postgres(# temp_hi int, -- high temperature
postgres(# date date
postgres(#);
CREATE TABLE
INSERT INTO weather 2 VALUES ('Giza', '20', '40', '2020-8-10');
INSERT INTO weather2 VALUES ('Cairo', '19', '38', '2020-8-11');
INSERT INTO weather2 VALUES ('Alexanderia', '15', '30', '2020-8-11');
INSERT INTO weather 2 VALUES ('Sohag', '22', '43', '2020-8-11');
INSERT INTO weather2 VALUES ('Asuit', '23', '42', '2020-8-11');
SELECT city, temp lo, temp hi, date FROM weather2;
select * FROM weather2;
DROP TABLE weather2;
postgres=# \q
bash-4.1$ exit
exit
[root@localhost bigdata]# exit
(base) [bigdata@localhost ~]$
```

```
#Sqoop
tar -xzvf sqoop-1.4.7.bin_hadoop-2.6.0.tar.gz
#check the JDBC dirver for PostgreSQL
cd /home/bigdata/sqoop-1.4.7.bin_hadoop-2.6.0/lib
```

## #import table from DB to directory on HDFS

```
cd/home/bigdata/sqoop-1.4.7.bin_hadoop-2.6.0/bin
```

```
./sqoop import --connect 'jdbc:postgresql://127.0.0.1:5432/postgres' --username 'postgres' --password post --table 'company1' --target-dir '/sqp1' -m 1
```

## ##check HDFS

(base) [bigdata@localhost ~]\$ hdfs dfs -cat /sqp1/part-m-00000

2,Ahmed,25,Giza,20000.03,Lobna,23,Giza,20000.01,Marwa,32,Cairo,30000.04,Amal,32,Cairo,30000.0