

The following NEW packages will be installed:

libllvm10 libpq5 postgresql postgresql-12 postgresql-client-12

postgresql-client-common postgresql-common postgresql-contrib sysstat

0 upgraded, 9 newly installed, 0 to remove and 3 not upgraded.

Need to get 30.6 MB of archives.

Success. You can now start the database server using:

```
pg_ctlcluster 12 main start
```

Ver	Cluster	Port	Status	Owner	Data directory	Log file
12	main	5432	down	postgres	/var/lib/postgresql/12/main	/var/log/postgresql/postgresql-12-main.log

NAME

createuser - define a new PostgreSQL user account

SYNOPSIS

```
createuser [connection-option...] [option...]
[username]
```

DESCRIPTION

createuser creates a new PostgreSQL user (or more precisely, a role).

Only superusers and users with CREATEROLE privilege can create new

users, so createuser must be invoked by someone who can connect as a

superuser or a user with CREATEROLE privilege.

If you are logged in as the postgres account, you can create a new user by typing:

```
postgres@server: ~$ createuser --interactive
```

If, instead, you prefer to use sudo for each command without switching from your normal account, type:

```
$ sudo -u postgres createuser --interactive
```

Output

```
Enter name of role to add: bhau
```

```
Shall the new role be a superuser? (y/n) y
```

```
=====  
bhodhi@bhodhi-Lenovo-S20-30:~$ sudo adduser bhau
```

```
Adding user `bhau' ...
```

```
Adding new group `bhau' (1001) ...
```

```
Adding new user `bhau' (1001) with group `bhau' ...
```

```

Creating home directory `/home/bhau' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for bhau
Enter the new value, or press ENTER for the default
    Full Name []:
    Room Number []:
    Work Phone []:
    Home Phone []:
    Other []:
Is the information correct? [Y/n] y

```

```

=====
postgres=# \l
                                List of databases
   Name      |  Owner   | Encoding | Collate | Ctype |
Access privileges
-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+
 postgres    | postgres | UTF8     | en_IN   | en_IN |
 template0   | postgres | UTF8     | en_IN   | en_IN | =c/-
 postgres    |          |          |          |          |
 postgres=CTc/postgres
 template1   | postgres | UTF8     | en_IN   | en_IN | =c/-
 postgres    |          |          |          |          |
 postgres=CTc/postgres

```

```

=====
postgres=# \c exampledb;

```

```

postgres=# \dt or \d

```

The “\dt” command retrieves the list of all the tables/-relations available in the selected database, i.e., “example”.

```

postgres=# \q to quit

```

```

=====
bhodhi@bhodhi-Lenovo-S20-30:~$ sudo -i -u bhau
bhau@bhodhi-Lenovo-S20-30:~$ psql
psql: error: FATAL: database "bhau" does not exist
bhau@bhodhi-Lenovo-S20-30:~$ createdb bhau
bhau@bhodhi-Lenovo-S20-30:~$ psql
psql (12.15 (Ubuntu 12.15-0ubuntu0.20.04.1))
Type "help" for help.

```

```

bhau=# \q

```

```
bhau@bhodhi-Lenovo-S20-30:~$ psql -d postgres
psql (12.15 (Ubuntu 12.15-0ubuntu0.20.04.1))
Type "help" for help.
```

```
postgres=# \l
```

```

                                List of databases
   Name      | Owner      | Encoding | Collate | Ctype |
Access privileges
-----+-----+-----+-----+-----+
 postgres    | postgres   | UTF8     | en_IN   | en_IN |
 template0   | postgres   | UTF8     | en_IN   | en_IN | =c/-
 postgres    |            |          |         |         |
 postgres=CTc/postgres
 template1   | postgres   | UTF8     | en_IN   | en_IN | =c/-
 postgres    |            |          |         |         |
 postgres=CTc/postgres
(4 rows)
```

=====

default authentication method will either be ident or peer.

ident authentication uses the operating system's identification server running at TCP port 113 to verify the user's credentials.

peer authentication on the other hand, is used for local connections and verifies that the logged in username of the operating system matches the username for the Postgres database.

For most systems, the default Postgres user is postgres and a password is not required for authentication. Thus, to add a password, we must first login and connect as the postgres user.

```
$ sudo -u postgres psql
```

If you successfully connected and are viewing the psql prompt, jump down to the Changing the Password section.

If you received an error stating that the database "postgres" doesn't exist, try connecting to the template1 database instead and if successful, continue to Changing the Password.

```
$ sudo -u postgres psql template1
```

If you receive an authentication error when attempting to connect to the psql client, you may need to alter the

Postgres authentication config file (pg_hba.conf).

Open the config file, typically located at /etc/postgresql/-
#.#/main/pg_hba.conf, where #.# is the Postgres version you
are using:

```
$ sudo nano /etc/postgresql/9.3/main/pg_hba.conf
```

The auth config file is a list of authentication rules.
Scroll down the file until you locate the first line
displaying the postgres user in the third column (if such a
line exists). Uncomment the line if necessary (remove the
semicolon), or otherwise if the line is missing entirely,
add the following line to the top of the file and save your
changes:

```
local all postgres peer
```

This authentication rule simply tells Postgres that for
local connections established to all databases for the user
postgres, authenticate using the peer protocol.

Changing the Password

With a connection now established to Postgres at the psql
prompt, issue the ALTER USER command to change the password
for the postgres user:

```
postgres=# ALTER USER postgres PASSWORD 'myPassword';  
ALTER ROLE
```

If successful, Postgres will output a confirmation of ALTER
ROLE as seen above.

Finally, exit the psql client by using the \q command.

```
postgres=# \q
```

You're all done. The default postgres user now has a
password associated with the account for use in your other
applications.

=====