

DevOps Assignment

Submitted to-
Sourabh Joshi

Submitted by-
Anushka Agrawal

TASK-1

Installation

Installing postgresql

```
webonise@webonise:~$ sudo sh -c 'echo "deb http://apt.postgresql.org/pub/repos/apt
$(lsb_release -cs)-pgdg main" > /etc/apt/sources.list.d/pgdg.list'
[sudo] password for webonise:
Sorry, try again.
[sudo] password for webonise:
webonise@webonise:~$ sudo sh -c 'echo "deb http://apt.postgresql.org/pub/repos/apt
$(lsb_release -cs)-pgdg main" > /etc/apt/sources.list.d/pgdg.list'
webonise@webonise:~$ wget --quiet -O -
https://www.postgresql.org/media/keys/ACCC4CF8.asc | sudo apt-key add -
OK
webonise@webonise:~$ sudo apt-get update
Hit:1 http://in.archive.ubuntu.com/ubuntu focal InRelease
Hit:2 http://in.archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:3 http://in.archive.ubuntu.com/ubuntu focal-backports InRelease
Hit:4 http://dl.google.com/linux/chrome/deb stable InRelease
Get:5 http://apt.postgresql.org/pub/repos/apt focal-pgdg InRelease [86.7 kB]
Hit:6 http://security.ubuntu.com/ubuntu focal-security InRelease
Get:7 http://apt.postgresql.org/pub/repos/apt focal-pgdg/main amd64 Packages [214 kB]
Hit:8 https://packagecloud.io/slacktechnologies/slack/debian jessie InRelease
Fetched 300 kB in 9s (34.9 kB/s)
Reading package lists... Done
N: Skipping acquire of configured file 'main/binary-i386/Packages' as repository
'http://apt.postgresql.org/pub/repos/apt focal-pgdg InRelease' doesn't support architecture 'i386'
webonise@webonise:~$ sudo apt-get -y install postgresql
Reading package lists... Done
Building dependency tree
```

Reading state information... Done

The following packages were automatically installed and are no longer required:

libfprint-2-tod1 libl1vm10

Use 'sudo apt autoremove' to remove them.

The following additional packages will be installed:

libcommon-sense-perl libjson-perl libjson-xs-perl libpq5
libtypes-serialiser-perl pgdg-keyring postgresql-13 postgresql-client-13
postgresql-client-common postgresql-common sysstat

Suggested packages:

postgresql-doc postgresql-doc-13 isag

The following NEW packages will be installed:

libcommon-sense-perl libjson-perl libjson-xs-perl libpq5
libtypes-serialiser-perl pgdg-keyring postgresql postgresql-13
postgresql-client-13 postgresql-client-common postgresql-common sysstat

0 upgraded, 12 newly installed, 0 to remove and 15 not upgraded.

Need to get 17.8 MB of archives.

After this operation, 59.4 MB of additional disk space will be used.

Get:1 http://in.archive.ubuntu.com/ubuntu focal/main amd64 libcommon-sense-perl amd64
3.74-2build6 [20.1 kB]

Get:2 http://in.archive.ubuntu.com/ubuntu focal/main amd64 libjson-perl all 4.02000-2 [80.9 kB]

Get:3 http://in.archive.ubuntu.com/ubuntu focal/main amd64 libtypes-serialiser-perl all 1.0-1
[12.1 kB]

Get:4 http://in.archive.ubuntu.com/ubuntu focal/main amd64 libjson-xs-perl amd64
4.020-1build1 [83.7 kB]

Get:5 http://in.archive.ubuntu.com/ubuntu focal-updates/main amd64 sysstat amd64
12.2.0-2ubuntu0.1 [448 kB]

Get:6 http://apt.postgresql.org/pub/repos/apt focal-pgdg/main amd64 libpq5 amd64
13.4-1.pgdg20.04+1 [179 kB]

Get:7 http://apt.postgresql.org/pub/repos/apt focal-pgdg/main amd64 pgdg-keyring all 2018.2
[10.7 kB]

Get:8 http://apt.postgresql.org/pub/repos/apt focal-pgdg/main amd64 postgresql-client-common
all 226.pgdg20.04+1 [90.6 kB]

Get:9 http://apt.postgresql.org/pub/repos/apt focal-pgdg/main amd64 postgresql-client-13 amd64
13.4-1.pgdg20.04+1 [1,507 kB]

Get:10 http://apt.postgresql.org/pub/repos/apt focal-pgdg/main amd64 postgresql-common all
226.pgdg20.04+1 [246 kB]

Get:11 http://apt.postgresql.org/pub/repos/apt focal-pgdg/main amd64 postgresql-13 amd64
13.4-1.pgdg20.04+1 [15.1 MB]

Get:12 http://apt.postgresql.org/pub/repos/apt focal-pgdg/main amd64 postgresql all
13+226.pgdg20.04+1 [65.2 kB]

Fetched 17.8 MB in 41s (435 kB/s)

Preconfiguring packages ...

Selecting previously unselected package libcommon-sense-perl.
(Reading database ... 183633 files and directories currently installed.)

Preparing to unpack .../00-libcommon-sense-perl_3.74-2build6_amd64.deb ...

Unpacking libcommon-sense-perl (3.74-2build6) ...

Selecting previously unselected package libjson-perl.
Preparing to unpack .../01-libjson-perl_4.02000-2_all.deb ...

Unpacking libjson-perl (4.02000-2) ...

Selecting previously unselected package libtypes-serialiser-perl.
Preparing to unpack .../02-libtypes-serialiser-perl_1.0-1_all.deb ...

Unpacking libtypes-serialiser-perl (1.0-1) ...

Selecting previously unselected package libjson-xs-perl.
Preparing to unpack .../03-libjson-xs-perl_4.020-1build1_amd64.deb ...

Unpacking libjson-xs-perl (4.020-1build1) ...

Selecting previously unselected package libpq5:amd64.
Preparing to unpack .../04-libpq5_13.4-1.pgdg20.04+1_amd64.deb ...

Unpacking libpq5:amd64 (13.4-1.pgdg20.04+1) ...

Selecting previously unselected package pgdg-keyring.
Preparing to unpack .../05-pgdg-keyring_2018.2_all.deb ...

Unpacking pgdg-keyring (2018.2) ...

Selecting previously unselected package postgresql-client-common.
Preparing to unpack .../06-postgresql-client-common_226.pgdg20.04+1_all.deb ...

Unpacking postgresql-client-common (226.pgdg20.04+1) ...

Selecting previously unselected package postgresql-client-13.
Preparing to unpack .../07-postgresql-client-13_13.4-1.pgdg20.04+1_amd64.deb ...

Unpacking postgresql-client-13 (13.4-1.pgdg20.04+1) ...

Selecting previously unselected package postgresql-common.
Preparing to unpack .../08-postgresql-common_226.pgdg20.04+1_all.deb ...

Adding 'diversion of /usr/bin/pg_config to /usr/bin/pg_config.libpq-dev by postgresql-common'

Unpacking postgresql-common (226.pgdg20.04+1) ...

Selecting previously unselected package postgresql-13.
Preparing to unpack .../09-postgresql-13_13.4-1.pgdg20.04+1_amd64.deb ...

Unpacking postgresql-13 (13.4-1.pgdg20.04+1) ...

Selecting previously unselected package postgresql.
Preparing to unpack .../10-postgresql_13+226.pgdg20.04+1_all.deb ...

Unpacking postgresql (13+226.pgdg20.04+1) ...

Selecting previously unselected package sysstat.
Preparing to unpack .../11-sysstat_12.2.0-2ubuntu0.1_amd64.deb ...

Unpacking sysstat (12.2.0-2ubuntu0.1) ...

```
Setting up pgdg-keyring (2018.2) ...
Removing apt.postgresql.org key from trusted.gpg: OK
Setting up libpq5:amd64 (13.4-1.pgdg20.04+1) ...
Setting up libcommon-sense-perl (3.74-2build6) ...
Setting up libtypes-serialiser-perl (1.0-1) ...
Setting up libjson-perl (4.02000-2) ...
Setting up sysstat (12.2.0-2ubuntu0.1) ...
```

```
Creating config file /etc/default/sysstat with new version
update-alternatives: using /usr/bin/sar.sysstat to provide /usr/bin/sar (sar) in auto mode
Created symlink /etc/systemd/system/multi-user.target.wants/sysstat.service →
/lib/systemd/system/sysstat.service.
Setting up postgresql-client-common (226.pgdg20.04+1) ...
Setting up libjson-xs-perl (4.020-1build1) ...
Setting up postgresql-client-13 (13.4-1.pgdg20.04+1) ...
update-alternatives: using /usr/share/postgresql/13/man/man1/psql.1.gz to provide
/usr/share/man/man1/psql.1.gz (psql.1.gz) in auto mode
Setting up postgresql-common (226.pgdg20.04+1) ...
Adding user postgres to group ssl-cert
```

```
Creating config file /etc/postgresql-common/createcluster.conf with new version
Building PostgreSQL dictionaries from installed myspell/hunspell packages...
    en_us
Removing obsolete dictionary files:
Created symlink /etc/systemd/system/multi-user.target.wants/postgresql.service →
/lib/systemd/system/postgresql.service.
Setting up postgresql-13 (13.4-1.pgdg20.04+1) ...
Creating new PostgreSQL cluster 13/main ...
/usr/lib/postgresql/13/bin/initdb -D /var/lib/postgresql/13/main --auth-local peer --auth-host md5
The files belonging to this database system will be owned by user "postgres".
This user must also own the server process.
```

```
The database cluster will be initialized with locale "en_IN".
The default database encoding has accordingly been set to "UTF8".
The default text search configuration will be set to "english".
```

Data page checksums are disabled.

```
fixing permissions on existing directory /var/lib/postgresql/13/main ... ok
creating subdirectories ... ok
```

```
selecting dynamic shared memory implementation ... posix
selecting default max_connections ... 100
selecting default shared_buffers ... 128MB
selecting default time zone ... Asia/Kolkata
creating configuration files ... ok
running bootstrap script ... ok
performing post-bootstrap initialization ... ok
syncing data to disk ... ok
```

Success. You can now start the database server using:

```
pg_ctlcluster 13 main start
```

```
Ver Cluster Port Status Owner  Data directory      Log file
13 main    5432 down  postgres /var/lib/postgresql/13/main
/var/log/postgresql/postgresql-13-main.log
update-alternatives: using /usr/share/postgresql/13/man/man1/postmaster.1.gz to provide
/usr/share/man/man1/postmaster.1.gz (postmaster.1.gz) in auto mode
Setting up postgresql (13+226.pgdg20.04+1) ...
Processing triggers for systemd (245.4-4ubuntu3.11) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.2) ...
```

Installing mysql

```
webonise@webonise:~$ sudo apt instal mysql-server
E: Invalid operation instal
webonise@webonise:~$ sudo apt install mysql-server
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
libfprint-2-tod1 liblvm10
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
libaio1 libcgi-fast-perl libcgipm-perl libevent-core-2.1-7
libevent-pthreads-2.1-7 libfcgi-perl libhtml-template-perl libmecab2
mecab-ipadic mecab-ipadic-utf8 mecab-utils mysql-client-8.0
mysql-client-core-8.0 mysql-server-8.0 mysql-server-core-8.0
Suggested packages:
```

libipc-sharedcache-perl mailx tinyca

The following NEW packages will be installed:

libaio1 libcgi-fast-perl libcgi-pm-perl libevent-core-2.1-7
libevent-pthreads-2.1-7 libfcgi-perl libhtml-template-perl libmecab2
mecab-ipadic mecab-ipadic-utf8 mecab-utils mysql-client-8.0
mysql-client-core-8.0 mysql-server mysql-server-8.0 mysql-server-core-8.0

0 upgraded, 16 newly installed, 0 to remove and 15 not upgraded.

Need to get 31.4 MB of archives.

After this operation, 261 MB of additional disk space will be used.

Do you want to continue? [Y/n] y

Get:1 http://in.archive.ubuntu.com/ubuntu focal-updates/main amd64 mysql-client-core-8.0
amd64 8.0.26-0ubuntu0.20.04.2 [4,222 kB]
Get:2 http://in.archive.ubuntu.com/ubuntu focal-updates/main amd64 mysql-client-8.0 amd64
8.0.26-0ubuntu0.20.04.2 [22.0 kB]
Get:3 http://in.archive.ubuntu.com/ubuntu focal/main amd64 libaio1 amd64 0.3.112-5 [7,184 B]
Get:4 http://in.archive.ubuntu.com/ubuntu focal/main amd64 libevent-core-2.1-7 amd64
2.1.11-stable-1 [89.1 kB]
Get:5 http://in.archive.ubuntu.com/ubuntu focal/main amd64 libevent-pthreads-2.1-7 amd64
2.1.11-stable-1 [7,372 B]
Get:6 http://in.archive.ubuntu.com/ubuntu focal/main amd64 libmecab2 amd64 0.996-10build1
[233 kB]
Get:7 http://in.archive.ubuntu.com/ubuntu focal-updates/main amd64 mysql-server-core-8.0
amd64 8.0.26-0ubuntu0.20.04.2 [18.5 MB]
Get:8 http://in.archive.ubuntu.com/ubuntu focal-updates/main amd64 mysql-server-8.0 amd64
8.0.26-0ubuntu0.20.04.2 [1,329 kB]
Get:9 http://in.archive.ubuntu.com/ubuntu focal/main amd64 libcgi-pm-perl all 4.46-1 [186 kB]
Get:10 http://in.archive.ubuntu.com/ubuntu focal/main amd64 libfcgi-perl amd64 0.79-1 [33.1
kB]
Get:11 http://in.archive.ubuntu.com/ubuntu focal/main amd64 libcgi-fast-perl all 1:2.15-1 [10.5
kB]
Get:12 http://in.archive.ubuntu.com/ubuntu focal/main amd64 libhtml-template-perl all 2.97-1
[59.0 kB]
Get:13 http://in.archive.ubuntu.com/ubuntu focal/main amd64 mecab-utils amd64
0.996-10build1 [4,912 B]
Get:14 http://in.archive.ubuntu.com/ubuntu focal/main amd64 mecab-ipadic all
2.7.0-20070801+main-2.1 [6,714 kB]
Get:15 http://in.archive.ubuntu.com/ubuntu focal/main amd64 mecab-ipadic-utf8 all
2.7.0-20070801+main-2.1 [4,380 B]
Get:16 http://in.archive.ubuntu.com/ubuntu focal-updates/main amd64 mysql-server all
8.0.26-0ubuntu0.20.04.2 [9,540 B]

Fetched 31.4 MB in 1s (28.9 MB/s)

Preconfiguring packages ...

Selecting previously unselected package mysql-client-core-8.0.
(Reading database ... 185748 files and directories currently installed.)

Preparing to unpack .../00-mysql-client-core-8.0_8.0.26-0ubuntu0.20.04.2_amd64.d
eb ...

Unpacking mysql-client-core-8.0 (8.0.26-0ubuntu0.20.04.2) ...

Selecting previously unselected package mysql-client-8.0.

Preparing to unpack .../01-mysql-client-8.0_8.0.26-0ubuntu0.20.04.2_amd64.deb ..

Unpacking mysql-client-8.0 (8.0.26-0ubuntu0.20.04.2) ...

Selecting previously unselected package libaio1:amd64.

Preparing to unpack .../02-libaio1_0.3.112-5_amd64.deb ...

Unpacking libaio1:amd64 (0.3.112-5) ...

Selecting previously unselected package libevent-core-2.1-7:amd64.

Preparing to unpack .../03-libevent-core-2.1-7_2.1.11-stable-1_amd64.deb ...

Unpacking libevent-core-2.1-7:amd64 (2.1.11-stable-1) ...

Selecting previously unselected package libevent-pthreads-2.1-7:amd64.

Preparing to unpack .../04-libevent-pthreads-2.1-7_2.1.11-stable-1_amd64.deb ...

Unpacking libevent-pthreads-2.1-7:amd64 (2.1.11-stable-1) ...

Selecting previously unselected package libmecab2:amd64.

Preparing to unpack .../05-libmecab2_0.996-10build1_amd64.deb ...

Unpacking libmecab2:amd64 (0.996-10build1) ...

Selecting previously unselected package mysql-server-core-8.0.

Preparing to unpack .../06-mysql-server-core-8.0_8.0.26-0ubuntu0.20.04.2_amd64.d
eb ...

Unpacking mysql-server-core-8.0 (8.0.26-0ubuntu0.20.04.2) ...

Selecting previously unselected package mysql-server-8.0.

Preparing to unpack .../07-mysql-server-8.0_8.0.26-0ubuntu0.20.04.2_amd64.deb ..

Unpacking mysql-server-8.0 (8.0.26-0ubuntu0.20.04.2) ...

Selecting previously unselected package libcgi-pm-perl.

Preparing to unpack .../08-libcgi-pm-perl_4.46-1_all.deb ...

Unpacking libcgi-pm-perl (4.46-1) ...

Selecting previously unselected package libfcgi-perl.

Preparing to unpack .../09-libfcgi-perl_0.79-1_amd64.deb ...

Unpacking libfcgi-perl (0.79-1) ...

Selecting previously unselected package libcgi-fast-perl.

Preparing to unpack .../10-libcgi-fast-perl_1%3a2.15-1_all.deb ...

Unpacking libcgi-fast-perl (1:2.15-1) ...

Selecting previously unselected package libhtml-template-perl.
Preparing to unpack .../11-libhtml-template-perl_2.97-1_all.deb ...
Unpacking libhtml-template-perl (2.97-1) ...
Selecting previously unselected package mecab-utils.
Preparing to unpack .../12-mecab-utils_0.996-10build1_amd64.deb ...
Unpacking mecab-utils (0.996-10build1) ...
Selecting previously unselected package mecab-ipadic.
Preparing to unpack .../13-mecab-ipadic_2.7.0-20070801+main-2.1_all.deb ...
Unpacking mecab-ipadic (2.7.0-20070801+main-2.1) ...
Selecting previously unselected package mecab-ipadic-utf8.
Preparing to unpack .../14-mecab-ipadic-utf8_2.7.0-20070801+main-2.1_all.deb ...
Unpacking mecab-ipadic-utf8 (2.7.0-20070801+main-2.1) ...
Selecting previously unselected package mysql-server.
Preparing to unpack .../15-mysql-server_8.0.26-0ubuntu0.20.04.2_all.deb ...
Unpacking mysql-server (8.0.26-0ubuntu0.20.04.2) ...
Setting up libmecab2:amd64 (0.996-10build1) ...
Setting up mysql-client-core-8.0 (8.0.26-0ubuntu0.20.04.2) ...
Setting up libcgi-pm-perl (4.46-1) ...
Setting up libhtml-template-perl (2.97-1) ...
Setting up mecab-utils (0.996-10build1) ...
Setting up libevent-core-2.1-7:amd64 (2.1.11-stable-1) ...
Setting up mysql-client-8.0 (8.0.26-0ubuntu0.20.04.2) ...
Setting up libfcgi-perl (0.79-1) ...
Setting up libaio1:amd64 (0.3.112-5) ...
Setting up libevent-pthreads-2.1-7:amd64 (2.1.11-stable-1) ...
Setting up mecab-ipadic (2.7.0-20070801+main-2.1) ...
Compiling IPA dictionary for Mecab. This takes long time...
reading /usr/share/mecab/dic/ipadic/unk.def ... 40
emitting double-array: 100% #####/usr/share/mecab/dic/ipadic/model.def is not found. skipped.
reading /usr/share/mecab/dic/ipadic/Adj.csv ... 27210
reading /usr/share/mecab/dic/ipadic/Adverb.csv ... 3032
reading /usr/share/mecab/dic/ipadic/Noun.verbal.csv ... 12146
reading /usr/share/mecab/dic/ipadic/Others.csv ... 2
reading /usr/share/mecab/dic/ipadic/Noun.nai.csv ... 42
reading /usr/share/mecab/dic/ipadic/Noun.adverbal.csv ... 795
reading /usr/share/mecab/dic/ipadic/Noun.org.csv ... 16668
reading /usr/share/mecab/dic/ipadic/Postp.csv ... 146
reading /usr/share/mecab/dic/ipadic/Adnominal.csv ... 135
reading /usr/share/mecab/dic/ipadic/Symbol.csv ... 208

```
reading /usr/share/mecab/dic/ipadic/Auxil.csv ... 199
reading /usr/share/mecab/dic/ipadic/Noun.others.csv ... 151
reading /usr/share/mecab/dic/ipadic/Noun.name.csv ... 34202
reading /usr/share/mecab/dic/ipadic/Noun.place.csv ... 72999
reading /usr/share/mecab/dic/ipadic/Verb.csv ... 130750
reading /usr/share/mecab/dic/ipadic/Suffix.csv ... 1393
reading /usr/share/mecab/dic/ipadic/Postp-col.csv ... 91
reading /usr/share/mecab/dic/ipadic/Noun.proper.csv ... 27328
reading /usr/share/mecab/dic/ipadic/Noun.csv ... 60477
reading /usr/share/mecab/dic/ipadic/Noun.number.csv ... 42
reading /usr/share/mecab/dic/ipadic/Conjunction.csv ... 171
reading /usr/share/mecab/dic/ipadic/Interjection.csv ... 252
reading /usr/share/mecab/dic/ipadic/Filler.csv ... 19
reading /usr/share/mecab/dic/ipadic/Noun.demonst.csv ... 120
reading /usr/share/mecab/dic/ipadic/Noun.adjv.csv ... 3328
reading /usr/share/mecab/dic/ipadic/Prefix.csv ... 221
emitting double-array: 100% |#####
reading /usr/share/mecab/dic/ipadic/matrix.def ... 1316x1316
emitting matrix : 100% |#####
```

done!

```
update-alternatives: using /var/lib/mecab/dic/ipadic to provide /var/lib/mecab/d
ic.debian (mecab-dictionary) in auto mode
Setting up libcgi-fast-perl (1:2.15-1) ...
Setting up mysql-server-core-8.0 (8.0.26-0ubuntu0.20.04.2) ...
Setting up mecab-ipadic-utf8 (2.7.0-20070801+main-2.1) ...
Compiling IPA dictionary for Mecab. This takes long time...
reading /usr/share/mecab/dic/ipadic/unk.def ... 40
emitting double-array: 100% |#####
/usr/share/mecab/dic/ipadic/model.def is not found. skipped.
reading /usr/share/mecab/dic/ipadic/Adj.csv ... 27210
reading /usr/share/mecab/dic/ipadic/Adverb.csv ... 3032
reading /usr/share/mecab/dic/ipadic/Noun.verbal.csv ... 12146
reading /usr/share/mecab/dic/ipadic/Others.csv ... 2
reading /usr/share/mecab/dic/ipadic/Noun.nai.csv ... 42
reading /usr/share/mecab/dic/ipadic/Noun.adverbal.csv ... 795
reading /usr/share/mecab/dic/ipadic/Noun.org.csv ... 16668
reading /usr/share/mecab/dic/ipadic/Postp.csv ... 146
reading /usr/share/mecab/dic/ipadic/Adnominal.csv ... 135
reading /usr/share/mecab/dic/ipadic/Symbol.csv ... 208
```

```
reading /usr/share/mecab/dic/ipadic/Auxil.csv ... 199
reading /usr/share/mecab/dic/ipadic/Noun.others.csv ... 151
reading /usr/share/mecab/dic/ipadic/Noun.name.csv ... 34202
reading /usr/share/mecab/dic/ipadic/Noun.place.csv ... 72999
reading /usr/share/mecab/dic/ipadic/Verb.csv ... 130750
reading /usr/share/mecab/dic/ipadic/Suffix.csv ... 1393
reading /usr/share/mecab/dic/ipadic/Postp-col.csv ... 91
reading /usr/share/mecab/dic/ipadic/Noun.proper.csv ... 27328
reading /usr/share/mecab/dic/ipadic/Noun.csv ... 60477
reading /usr/share/mecab/dic/ipadic/Noun.number.csv ... 42
reading /usr/share/mecab/dic/ipadic/Conjunction.csv ... 171
reading /usr/share/mecab/dic/ipadic/Interjection.csv ... 252
reading /usr/share/mecab/dic/ipadic/Filler.csv ... 19
reading /usr/share/mecab/dic/ipadic/Noun.demonst.csv ... 120
reading /usr/share/mecab/dic/ipadic/Noun.adjv.csv ... 3328
reading /usr/share/mecab/dic/ipadic/Prefix.csv ... 221
emitting double-array: 100% |#####
reading /usr/share/mecab/dic/ipadic/matrix.def ... 1316x1316
emitting matrix : 100% |#####
```

done!

update-alternatives: using /var/lib/mecab/dic/ipadic-utf8 to provide /var/lib/me
cab/dic/debian (mecab-dictionary) in auto mode

Setting up mysql-server-8.0 (8.0.26-0ubuntu0.20.04.2) ...

update-alternatives: using /etc/mysql/mysql.cnf to provide /etc/mysql/my.cnf (my
.cnf) in auto mode

Renaming removed key_buffer and myisam-recover options (if present)

mysqld will log errors to /var/log/mysql/error.log

mysqld is running as pid 10228

Created symlink /etc/systemd/system/multi-user.target.wants/mysql.service → /lib
/systemd/system/mysql.service.

Setting up mysql-server (8.0.26-0ubuntu0.20.04.2) ...

Processing triggers for systemd (245.4-4ubuntu3.11) ...

Processing triggers for man-db (2.9.1-1) ...

Processing triggers for libc-bin (2.31-0ubuntu9.2) ...

```
webonise@webonise:~$ git clone sudo sh -c 'echo "deb http://apt.postgresql.org/pub/repos/apt  
$(lsb_release -cs)-pgdg main" > /etc/apt/sources.list.d/pgdg.list'
```

Command 'git' not found, but can be installed with:

```
sudo apt install git
```

```
webonise@webonise:~$ wget --quiet -O -
https://www.postgresql.org/media/keys/ACCC4CF8.asc | sudo apt-key add -
```

```
OK
```

```
webonise@webonise:~$ sudo apt-get update
```

```
Hit:1 http://dl.google.com/linux/chrome/deb stable InRelease
```

```
Hit:2 http://apt.postgresql.org/pub/repos/apt focal-pgdg InRelease
```

```
0% [Working]
```

```
Hit:3 http://in.archive.ubuntu.com/ubuntu focal InRelease
```

```
Hit:4 http://in.archive.ubuntu.com/ubuntu focal-updates InRelease
```

```
Hit:5 http://in.archive.ubuntu.com/ubuntu focal-backports InRelease
```

```
Hit:6 http://security.ubuntu.com/ubuntu focal-security InRelease
```

```
Hit:7 https://packagecloud.io/slacktechnologies/slack/debian jessie InRelease
```

```
Reading package lists... Done
```

```
N: Skipping acquire of configured file 'main/binary-i386/Packages' as repository
```

```
'http://apt.postgresql.org/pub/repos/apt focal-pgdg InRelease' doesn't support architecture 'i386'
```

```
webonise@webonise:~$ sudo apt-get -y install postgresql
```

```
Reading package lists... Done
```

```
Building dependency tree
```

```
Reading state information... Done
```

```
postgresql is already the newest version (13+226.pgdg20.04+1).
```

```
The following packages were automatically installed and are no longer required:
```

```
libfprint-2-tod1 libllvm10
```

```
Use 'sudo apt autoremove' to remove them.
```

```
0 upgraded, 0 newly installed, 0 to remove and 15 not upgraded.
```

```
webonise@webonise:~$
```

```
webonise@webonise:~$ git version
```

Command 'git' not found, but can be installed with:

```
sudo apt install git
```

```
webonise@webonise:~$ sudo apt install git
```

```
Reading package lists... Done
```

```
Building dependency tree
```

```
Reading state information... Done
```

```
The following packages were automatically installed and are no longer required:
```

```
libfprint-2-tod1 libllvm10
```

Use 'sudo apt autoremove' to remove them.

The following additional packages will be installed:

git-man liberror-perl

Suggested packages:

git-daemon-run | git-daemon-sysvinit git-doc git-el git-email git-gui gitk
gitweb git-cvs git-mediawiki git-svn

The following NEW packages will be installed:

git git-man liberror-perl

0 upgraded, 3 newly installed, 0 to remove and 15 not upgraded.

Need to get 5,468 kB of archives.

After this operation, 38.4 MB of additional disk space will be used.

Do you want to continue? [Y/n] y

Get:1 http://in.archive.ubuntu.com/ubuntu focal/main amd64 liberror-perl all 0.17029-1 [26.5 kB]

Get:2 http://in.archive.ubuntu.com/ubuntu focal-updates/main amd64 git-man all 1:2.25.1-1ubuntu3.1 [884 kB]

Get:3 http://in.archive.ubuntu.com/ubuntu focal-updates/main amd64 git amd64 1:2.25.1-1ubuntu3.1 [4,557 kB]

Fetched 5,468 kB in 1s (10.3 MB/s)

Selecting previously unselected package liberror-perl.

(Reading database ... 186119 files and directories currently installed.)

Preparing to unpack .../liberror-perl_0.17029-1_all.deb ...

Unpacking liberror-perl (0.17029-1) ...

Selecting previously unselected package git-man.

Preparing to unpack .../git-man_1%3a2.25.1-1ubuntu3.1_all.deb ...

Unpacking git-man (1:2.25.1-1ubuntu3.1) ...

Selecting previously unselected package git.

Preparing to unpack .../git_1%3a2.25.1-1ubuntu3.1_amd64.deb ...

Unpacking git (1:2.25.1-1ubuntu3.1) ...

Setting up liberror-perl (0.17029-1) ...

Setting up git-man (1:2.25.1-1ubuntu3.1) ...

Setting up git (1:2.25.1-1ubuntu3.1) ...

Processing triggers for man-db (2.9.1-1) ...

Restoring sample database in mysql

```
webonise@webonise:~$ git clone https://github.com/datacharmer/test_db/
```

```
Cloning into 'test_db'...
```

```
remote: Enumerating objects: 116, done.
```

```
remote: Counting objects: 100% (11/11), done.  
remote: Compressing objects: 100% (7/7), done.  
remote: Total 116 (delta 5), reused 8 (delta 4), pack-reused 105  
Receiving objects: 100% (116/116), 74.27 MiB | 17.41 MiB/s, done.  
Resolving deltas: 100% (59/59), done.  
webonise@webonise:~$ create database rest_employee
```

Command 'create' not found, did you mean:

command 'pcreate' from deb pbuilder-scripts (22)

Try: sudo apt install <deb name>

```
webonise@webonise:~$ sudo sh -c 'echo "deb http://apt.postgresql.org/pub/repos/apt  
$(lsb_release -cs)-pgdg main" > /etc/apt/sources.list.d/pgdg.list'  
webonise@webonise:~$ wget --quiet -O -  
https://www.postgresql.org/media/keys/ACCC4CF8.asc | sudo apt-key add -  
OK  
webonise@webonise:~$ sudo apt-get update  
Hit:1 http://dl.google.com/linux/chrome/deb stable InRelease  
Hit:2 http://in.archive.ubuntu.com/ubuntu focal InRelease  
Hit:3 http://in.archive.ubuntu.com/ubuntu focal-updates InRelease  
Hit:4 http://in.archive.ubuntu.com/ubuntu focal-backports InRelease  
Hit:5 http://apt.postgresql.org/pub/repos/apt focal-pgdg InRelease  
Hit:6 http://security.ubuntu.com/ubuntu focal-security InRelease  
Hit:7 https://packagecloud.io/slacktechnologies/slack/debian jessie InRelease  
Reading package lists... Done  
N: Skipping acquire of configured file 'main/binary-i386/Packages' as repository  
'http://apt.postgresql.org/pub/repos/apt focal-pgdg InRelease' doesn't support architecture 'i386'  
webonise@webonise:~$ mysql -u root -p  
Enter password:  
ERROR 1698 (28000): Access denied for user 'root'@'localhost'  
webonise@webonise:~$ mysql -u webonise -p  
Enter password:  
ERROR 1045 (28000): Access denied for user 'webonise'@'localhost' (using password: YES)  
webonise@webonise:~$ sudo mysql -u webonise -p  
Enter password:  
ERROR 1045 (28000): Access denied for user 'webonise'@'localhost' (using password: YES)  
webonise@webonise:~$ pwd  
/home/webonise
```

```
webonise@webonise:~$ ls
Desktop Documents Downloads Music Pictures Public snap Templates test_db Videos
webonise@webonise:~$ cd Desktop
webonise@webonise:~/Desktop$ ls
webonise@webonise:~/Desktop$ cd ..
webonise@webonise:~$ cd test_db
webonise@webonise:~/test_db$ sudo mysql -u webonise -p
[sudo] password for webonise:
Sorry, try again.
[sudo] password for webonise:
Enter password:
ERROR 1045 (28000): Access denied for user 'webonise'@'localhost' (using password: YES)
webonise@webonise:~/test_db$ mysql
ERROR 1045 (28000): Access denied for user 'webonise'@'localhost' (using password: NO)
webonise@webonise:~/test_db$ hostname -f
webonise
webonise@webonise:~/test_db$ sudo apt-get install mysql-server
Reading package lists... Done
Building dependency tree
Reading state information... Done
mysql-server is already the newest version (8.0.26-0ubuntu0.20.04.2).
The following packages were automatically installed and are no longer required:
  libfprint-2-tod1 libllvm10
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 15 not upgraded.
webonise@webonise:~/test_db$ mysql -u root -p
Enter password:
ERROR 1698 (28000): Access denied for user 'root'@'localhost'
webonise@webonise:~/test_db$ mysql -u localhost -p
Enter password:
ERROR 1045 (28000): Access denied for user 'localhost'@'localhost' (using password: YES)
webonise@webonise:~/test_db$ ^C
webonise@webonise:~/test_db$ ^C
webonise@webonise:~/test_db$ sudo mysql -u webonise@webonise -p
Enter password:
ERROR 1045 (28000): Access denied for user 'webonise@webonise'@'localhost' (using
password: YES)
webonise@webonise:~/test_db$ sudo mysql -u webonise@localhost -p
Enter password:
```

ERROR 1045 (28000): Access denied for user 'webonise'@'localhost' (using password: YES)

```
webonise@webonise:~/test_db$ sudo mysql_secure_installation
```

Securing the MySQL server deployment.

Connecting to MySQL using a blank password.

VALIDATE PASSWORD COMPONENT can be used to test passwords and improve security. It checks the strength of password and allows the users to set only those passwords which are secure enough. Would you like to setup VALIDATE PASSWORD component?

Press y|Y for Yes, any other key for No: n

Please set the password for root here.

New password:

Re-enter new password:

By default, a MySQL installation has an anonymous user, allowing anyone to log into MySQL without having to have a user account created for them. This is intended only for testing, and to make the installation go a bit smoother. You should remove them before moving into a production environment.

Remove anonymous users? (Press y|Y for Yes, any other key for No) : n

... skipping.

Normally, root should only be allowed to connect from 'localhost'. This ensures that someone cannot guess at the root password from the network.

Disallow root login remotely? (Press y|Y for Yes, any other key for No) : n

... skipping.

By default, MySQL comes with a database named 'test' that anyone can access. This is also intended only for testing,

and should be removed before moving into a production environment.

Remove test database and access to it? (Press y|Y for Yes, any other key for No) : n

... skipping.

Reloading the privilege tables will ensure that all changes made so far will take effect immediately.

Reload privilege tables now? (Press y|Y for Yes, any other key for No) : y
Success.

All done!

```
webonise@webonise:~/test_db$ mysql -u root -p
```

Enter password:

ERROR 1698 (28000): Access denied for user 'root'@'localhost'

```
webonise@webonise:~/test_db$ mysql -u root -p
```

Enter password:

ERROR 1698 (28000): Access denied for user 'root'@'localhost'

```
webonise@webonise:~/test_db$ sudo mysql < employees.sql
```

[sudo] password for webonise:

INFO

CREATING DATABASE STRUCTURE

INFO

storage engine: InnoDB

INFO

LOADING departments

INFO

LOADING employees

INFO

LOADING dept_emp

INFO

LOADING dept_manager

INFO

LOADING titles

INFO

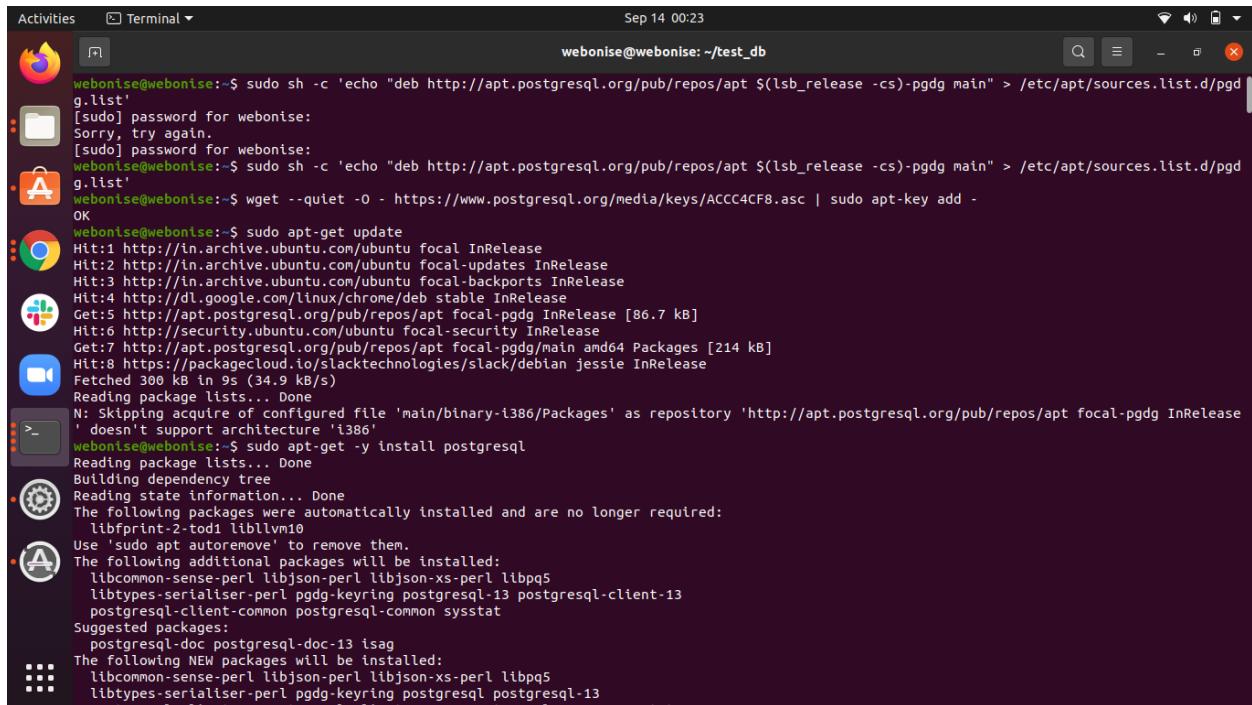
LOADING salaries

data_load_time_diff

00:02:50

```
webonise@webonise:~/test_db$ #!/bin/bash
webonise@webonise:~/test_db$ 
webonise@webonise:~/test_db$ TIMESTAMP=$(date +"%F")
webonise@webonise:~/test_db$ BACKUP_DIR="/backup/databases/$TIMESTAMP"
webonise@webonise:~/test_db$ MYSQL_USER="username"
webonise@webonise:~/test_db$ MYSQL_PASSWORD="userpass"
webonise@webonise:~/test_db$ MYSQL="$(which mysql)"
webonise@webonise:~/test_db$ MYSQLDUMP="$(which mysqldump)"
webonise@webonise:~/test_db$ 
webonise@webonise:~/test_db$ mkdir -p $BACKUP_DIR
mkdir: cannot create directory '/backup': Permission denied
webonise@webonise:~/test_db$ 
webonise@webonise:~/test_db$ find "$BACKUP_DIR" -mtime +3 -type d -exec rm -rf {} \;
find: '/backup/databases/2021-09-13': No such file or directory
webonise@webonise:~/test_db$ 
webonise@webonise:~/test_db$ databases=`$MYSQL -u$MYSQL_USER
-p$MYSQL_PASSWORD -e "show databases" | grep -Ev
"(database|Database|information_schema|performance_schema|phpmyadmin|mysql)"```
mysql: [Warning] Using a password on the command line interface can be insecure.
ERROR 1045 (28000): Access denied for user 'username'@'localhost' (using password: YES)
webonise@webonise:~/test_db$ 
webonise@webonise:~/test_db$ for db in $databases; do
>
> $MYSQLDUMP -u $MYSQL_USER -p$MYSQL_PASSWORD --databases $db >
$BACKUP_DIR/$db.sql
>
> done
webonise@webonise:~/test_db$ sudo mkdir -p $BACKUP_DIR
[sudo] password for webonise:
webonise@webonise:~/test_db$ find "$BACKUP_DIR" -mtime +3 -type d -exec rm -rf {} \;
webonise@webonise:~/test_db$ databases=`$MYSQL -u$MYSQL_USER
-p$MYSQL_PASSWORD -e "show databases" | grep -Ev
"(database|Database|information_schema|performance_schema|phpmyadmin|mysql)"```
mysql: [Warning] Using a password on the command line interface can be insecure.
ERROR 1045 (28000): Access denied for user 'username'@'localhost' (using password: YES)
webonise@webonise:~/test_db$ sudo databases=`$MYSQL -u$MYSQL_USER
-p$MYSQL_PASSWORD -e "show databases" | grep -Ev
"(database|Database|information_schema|performance_schema|phpmyadmin|mysql)"```
mysql: [Warning] Using a password on the command line interface can be insecure.
ERROR 1045 (28000): Access denied for user 'username'@'localhost' (using password: YES)
```

```
usage: sudo -h | -K | -k | -V
usage: sudo -v [-AknS] [-g group] [-h host] [-p prompt] [-u user]
usage: sudo -l [-AknS] [-g group] [-h host] [-p prompt] [-U user] [-u user] [command]
usage: sudo [-AbEHknPS] [-r role] [-t type] [-C num] [-g group] [-h host] [-p prompt] [-T
timeout] [-u user] [VAR=value] [-i|-s] [<command>]
usage: sudo -e [-AknS] [-r role] [-t type] [-C num] [-g group] [-h host] [-p prompt] [-T timeout]
[-u user] file ...
webonise@webonise:~/test_db$
```



```
Activities Terminal Sep 14 00:23
webonise@webonise: ~/test_db
[sudo] password for webonise:
Sorry, try again:
[sudo] password for webonise:
webonise@webonise:~$ sudo sh -c 'echo "deb http://apt.postgresql.org/pub/repos/apt $(lsb_release -cs)-pgdg main" > /etc/apt/sources.list.d/pgdg.list'
[sudo] password for webonise:
webonise@webonise:~$ wget --quiet -O - https://www.postgresql.org/media/keys/ACCC4CF8.asc | sudo apt-key add -
OK
webonise@webonise:~$ sudo apt-get update
Hit:1 http://in.archive.ubuntu.com/ubuntu focal InRelease
Hit:2 http://in.archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:3 http://in.archive.ubuntu.com/ubuntu focal-backports InRelease
Hit:4 http://dl.google.com/linux/chrome/deb stable InRelease
Get:5 http://apt.postgresql.org/pub/repos/apt focal-pgdg InRelease [86.7 kB]
Hit:6 http://security.ubuntu.com/ubuntu focal-security InRelease
Get:7 http://apt.postgresql.org/pub/repos/apt focal-pgdg/main amd64 Packages [214 kB]
Hit:8 https://packagecloud.io/slacktech/slack/debian jessie InRelease
Fetched 300 kB in 9s (34.9 kB/s)
Reading package lists... Done
N: Skipping acquire of configured file 'main/binary-i386/Packages' as repository 'http://apt.postgresql.org/pub/repos/apt focal-pgdg InRelease
' doesn't support architecture 'i386'
webonise@webonise:~$ sudo apt-get -y install postgresql
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  libfprint-2-todl liblvm10
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  libcommon-sense-perl libjson-perl libjson-xs-perl libpq5
  libtypes-serialiser-perl pgdg-keyring postgresql-13 postgresql-client-13
  postgresql-client-common postgresql-common sysstat
Suggested packages:
  postgresql-doc postgresql-doc-13 isag
The following NEW packages will be installed:
  libcommon-sense-perl libjson-perl libjson-xs-perl libpq5
  libtypes-serialiser-perl pgdg-keyring postgresql postgresql-13
```

```
Activities Terminal Sep 14 00:23
webonise@webonise:~/test_db
... skipping sequence of configuration files ...
' doesn't support architecture 'i386'
webonise@webonise:~$ sudo apt-get -y install postgresql
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  libfprint-2-tod1 liblvm10
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  libcommon-sense-perl libjson-xs-perl libpq5
  libtypes-serialiser-perl pgdg-keyring postgresql-13 postgresql-client-13
  postgresql-client-common postgresql-common sysstat
Suggested packages:
  postgresql-doc postgresql-doc-13 lsag
The following NEW packages will be installed:
  libcommon-sense-perl libjson-perl libjson-xs-perl libpq5
  libtypes-serialiser-perl pgdg-keyring postgresql postgresql-13
  postgresql-client-13 postgresql-client-common postgresql-common sysstat
0 upgraded, 12 newly installed, 0 to remove and 15 not upgraded.
Need to get 17.8 MB of archives.
After this operation, 59.4 MB of additional disk space will be used.
Get:1 http://in.archive.ubuntu.com/ubuntu focal/main amd64 libcommon-sense-perl amd64 3.74-2build6 [20.1 kB]
Get:2 http://in.archive.ubuntu.com/ubuntu focal/main amd64 libjson-perl all 4.02000-2 [80.9 kB]
Get:3 http://in.archive.ubuntu.com/ubuntu focal/main amd64 libtypes-serialiser-perl all 1.0-1 [12.1 kB]
Get:4 http://in.archive.ubuntu.com/ubuntu focal/main amd64 libjson-xs-perl amd64 4.020-1build1 [83.7 kB]
Get:5 http://in.archive.ubuntu.com/ubuntu focal-updates/main amd64 sysstat amd64 12.2.0-2ubuntu0.1 [448 kB]
Get:6 http://apt.postgresql.org/pub/repos/apt focal/pgdg/main amd64 libpq5 amd64 13.4-1.pgdg20.04+1 [179 kB]
Get:7 http://apt.postgresql.org/pub/repos/apt focal-pgdf/main amd64 pgdg-keyring all 2018.2 [10.7 kB]
Get:8 http://apt.postgresql.org/pub/repos/apt focal-pgdf/main amd64 postgresql-client-common all 226.pgdg20.04+1 [90.6 kB]
Get:9 http://apt.postgresql.org/pub/repos/apt focal-pgdf/main amd64 postgresql-client-13 amd64 13.4-1.pgdg20.04+1 [1,507 kB]
Get:10 http://apt.postgresql.org/pub/repos/apt focal-pgdf/main amd64 postgresql-common all 226.pgdg20.04+1 [246 kB]
Get:11 http://apt.postgresql.org/pub/repos/apt focal-pgdf/main amd64 postgresql-13 amd64 13.4-1.pgdg20.04+1 [15.1 MB]
Get:12 http://apt.postgresql.org/pub/repos/apt focal-pgdf/main amd64 postgresql all 13+226.pgdg20.04+1 [65.2 kB]
Fetched 17.8 MB in 41s (435 kB/s)
Preconfiguring packages ...
Selecting previously unselected package libcommon-sense-perl.
(Reading database ... 183633 files and directories currently installed.)
Preparing to unpack .../00-libcommon-sense-perl_3.74-2build6_amd64.deb ...

```

```
Activities Terminal Sep 14 00:23
webonise@webonise:~/test_db
... skipping sequence of configuration files ...
Fetched 17.8 MB in 41s (435 kB/s)
Preconfiguring packages ...
Selecting previously unselected package libcommon-sense-perl.
(Reading database ... 183633 files and directories currently installed.)
Preparing to unpack .../00-libcommon-sense-perl_3.74-2build6_amd64.deb ...
Unpacking libcommon-sense-perl (3.74-2build6) ...
Selecting previously unselected package libjson-perl.
Preparing to unpack .../01-libjson-perl_4.02000-2_all.deb ...
Unpacking libjson-perl (4.02000-2) ...
Selecting previously unselected package libtypes-serialiser-perl.
Preparing to unpack .../02-libtypes-serialiser-perl_1.0-1_all.deb ...
Unpacking libtypes-serialiser-perl (1.0-1) ...
Selecting previously unselected package libjson-xs-perl.
Preparing to unpack .../03-libjson-xs-perl_4.020-1build1_amd64.deb ...
Unpacking libjson-xs-perl (4.020-1build1) ...
Selecting previously unselected package libpq5:amd64.
Preparing to unpack .../04-libpq5_13.4-1.pgdg20.04+1_amd64.deb ...
Unpacking libpq5:amd64 (13.4-1.pgdg20.04+1) ...
Selecting previously unselected package pgdg-keyring.
Preparing to unpack .../05-pgdg-keyring_2018.2_all.deb ...
Unpacking pgdg-keyring (2018.2) ...
Selecting previously unselected package postgresql-client-common.
Preparing to unpack .../06-postgresql-client-common_226.pgdg20.04+1_all.deb ...
Unpacking postgresql-client-common (226.pgdg20.04+1) ...
Selecting previously unselected package postgresql-client-13.
Preparing to unpack .../07-postgresql-client-13_13.4-1.pgdg20.04+1_amd64.deb ...
Unpacking postgresql-client-13 (13.4-1.pgdg20.04+1) ...
Selecting previously unselected package postgresql-common.
Preparing to unpack .../08-postgresql-common_226.pgdg20.04+1_all.deb ...
Adding 'diversion of /usr/bin/pg_config to /usr/bin/pg_config.libpq-dev by postgresql-common'
Unpacking postgresql-common (226.pgdg20.04+1) ...
Selecting previously unselected package postgresql-13.
Preparing to unpack .../09-postgresql-13_13.4-1.pgdg20.04+1_amd64.deb ...
Unpacking postgresql-13 (13.4-1.pgdg20.04+1) ...
Selecting previously unselected package postgresql.
Preparing to unpack .../10-postgresql_13+226.pgdg20.04+1_all.deb ...
Unpacking postgresql (13+226.pgdg20.04+1) ...
Selecting previously unselected package sysstat.
```

```
Activities Terminal Sep 14 00:23
webonise@webonise: ~/test_db
Unpacking postgresql (13+226.pgdg20.04+1) ...
Selecting previously unselected package sysstat.
Preparing to unpack .../11-sysstat_12.2.0-2ubuntu0.1_amd64.deb ...
Unpacking sysstat (12.2.0-2ubuntu0.1) ...
Setting up pgdg-keyring (2018.2) ...
Removing apt.postgresql.org key from trusted.gpg: OK
Setting up libpq5:amd64 (13.4-1.pgdg20.04+1) ...
Setting up libcommon-sense-perl (3.74-2build6) ...
Setting up libtypes-serialiser-perl (1.0-1) ...
Setting up libjson-perl (4.02000-2) ...
Setting up sysstat (12.2.0-2ubuntu0.1) ...
Creating config file /etc/default/sysstat with new version
update-alternatives: using /usr/bin/sar.sysstat to provide /usr/bin/sar (sar) in auto mode
Created symlink /etc/systemd/system/multi-user.target.wants/sysstat.service → /lib/systemd/system/sysstat.service.
Setting up postgresql-client-common (226.pgdg20.04+1) ...
Setting up libjson-xs-perl (4.020-1build1) ...
Setting up postgresql-client-i3 (13.4-1.pgdg20.04+1) ...
update-alternatives: using /usr/share/postgresql/13/man/man1/psql.1.gz to provide /usr/share/man/man1/psql.1.gz (psql.1.gz) in auto mode
Setting up postgresql-common (226.pgdg20.04+1) ...
Adding user postgres to group ssl-cert
Creating config file /etc/postgresql-common/createcluster.conf with new version
Building PostgreSQL dictionaries from installed myspell/hunspell packages...
en_us
Removing obsolete dictionary files:
Created symlink /etc/systemd/system/multi-user.target.wants/postgresql.service → /lib/systemd/system/postgresql.service.
Setting up postgresql-i3 (13.4-1.pgdg20.04+1) ...
Creating new PostgreSQL cluster 13/main ...
/usr/lib/postgresql/13/bin/initdb -D /var/lib/postgresql/13/main --auth-local peer --auth-host md5
The files belonging to this database system will be owned by user "postgres".
This user must also own the server process.

The database cluster will be initialized with locale "en_IN".
The default database encoding has accordingly been set to "UTF8".
The default text search configuration will be set to "english".
Data page checksums are disabled.
```

```
Activities Terminal Sep 14 00:24
webonise@webonise: ~/test_db
Data page checksums are disabled.

fixing permissions on existing directory /var/lib/postgresql/13/main ... ok
creating subdirectories ... ok
selecting dynamic shared memory implementation ... posix
selecting default max_connections ... 100
selecting default shared_buffers ... 128MB
selecting default time zone ... Asia/Kolkata
creating configuration files ... ok
running bootstrap script ... ok
performing post-bootstrap initialization ... ok
syncing data to disk ... ok

Success. You can now start the database server using:

    pg_ctlcluster 13 main start

Ver Cluster Port Status Owner    Data directory          Log file
13  main      5432 down   postgres /var/lib/postgresql/13/main /var/log/postgresql/postgresql-13-main.log
update-alternatives: using /usr/share/postgresql/13/man/man1/postmaster.1.gz to provide /usr/share/man/man1/postmaster.1.gz (postmaster.1.gz)
in auto mode
Setting up postgresql (13+226.pgdg20.04+1) ...
Processing triggers for systemd (245.4-4ubuntu3.11) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.2) ...
webonise@webonise:~$ sudo apt instal mysql-server
E: Invalid operation install
webonise@webonise:~$ sudo apt install mysql-server
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  libfprint-2-tod1 libllyvm10
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  libaio1 libbcgi-fast-perl libbcgi-pm-perl libevent-core-2.1-7
  libevent-pthreads-2.1-7 libfcgi-perl libhtml-template-perl libmecab2
  mecab-ipadic mecab-ipadic-utf8 mecab-utils mysql-client-8.0
```

```
Activities Terminal Sep 14 00:24
webonise@webonise: ~/test_db

libaio1 libcgt-past-perl libcglt-pm-perl libevent-core-2.1-7
libevent-pthreads-2.1-7 libfcgi-perl libhtml-template-perl libmecab2
mecab-ipadic mecab-ipadic-utf8 mecab-utils mysql-client-8.0
mysql-client-core-8.0 mysql-server-8.0 mysql-server-core-8.0
Suggested packages:
libipc-sharedcache-perl mailx tinyca
The following NEW packages will be installed:
libaio1 libcglt-fast-perl libcglt-pm-perl libevent-core-2.1-7
libevent-pthreads-2.1-7 libfcgi-perl libhtml-template-perl libmecab2
mecab-ipadic mecab-ipadic-utf8 mecab-utils mysql-client-8.0
mysql-client-core-8.0 mysql-server mysql-server-8.0 mysql-server-core-8.0
0 upgraded, 16 newly installed, 0 to remove and 15 not upgraded.
Need to get 31.4 MB of archives.
After this operation, 261 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://in.archive.ubuntu.com/ubuntu focal-updates/main amd64 mysql-client-core-8.0 amd64 8.0.26-0ubuntu0.20.04.2 [4,222 kB]
Get:2 http://in.archive.ubuntu.com/ubuntu focal-updates/main amd64 mysql-client-8.0 amd64 8.0.26-0ubuntu0.20.04.2 [22.0 kB]
Get:3 http://in.archive.ubuntu.com/ubuntu focal/main amd64 libaio1 amd64 0.3.112-5 [7,184 kB]
Get:4 http://in.archive.ubuntu.com/ubuntu focal/main amd64 libevent-core-2.1-7 amd64 2.1.11-stable-1 [89.1 kB]
Get:5 http://in.archive.ubuntu.com/ubuntu focal/main amd64 libevent-pthreads-2.1-7 amd64 2.1.11-stable-1 [7,372 kB]
Get:6 http://in.archive.ubuntu.com/ubuntu focal/main amd64 libmecab2 amd64 0.996-10build1 [233 kB]
Get:7 http://in.archive.ubuntu.com/ubuntu focal-updates/main amd64 mysql-server-core-8.0 amd64 8.0.26-0ubuntu0.20.04.2 [18.5 kB]
Get:8 http://in.archive.ubuntu.com/ubuntu focal-updates/main amd64 mysql-server-8.0 amd64 8.0.26-0ubuntu0.20.04.2 [1,329 kB]
Get:9 http://in.archive.ubuntu.com/ubuntu focal/main amd64 libcglt-pm-perl all 4.46-1 [186 kB]
Get:10 http://in.archive.ubuntu.com/ubuntu focal/main amd64 libfcgi-perl amd64 0.79-1 [33.1 kB]
Get:11 http://in.archive.ubuntu.com/ubuntu focal/main amd64 libcglt-fast-perl all 1:2.15-1 [10.5 kB]
Get:12 http://in.archive.ubuntu.com/ubuntu focal/main amd64 libhtml-template-perl all 2.97-1 [59.0 kB]
Get:13 http://in.archive.ubuntu.com/ubuntu focal/main amd64 mecab-utils amd64 0.996-10build1 [4,912 kB]
Get:14 http://in.archive.ubuntu.com/ubuntu focal/main amd64 mecab-ipadic all 2.7.0-20070801+main-2.1 [6,714 kB]
Get:15 http://in.archive.ubuntu.com/ubuntu focal/main amd64 mecab-ipadic-utf8 all 2.7.0-20070801+main-2.1 [4,380 kB]
Get:16 http://in.archive.ubuntu.com/ubuntu focal-updates/main amd64 mysql-server all 8.0.26-0ubuntu0.20.04.2 [9,540 kB]
Fetched 31.4 MB in 1s (28.9 MB/s)
Preconfiguring packages ...
Selecting previously unselected package mysql-client-core-8.0.
(Reading database ... 185748 files and directories currently installed.)
Preparing to unpack .../00-mysql-client-core-8.0_8.0.26-0ubuntu0.20.04.2_amd64.deb ...
eb ...
Unpacking mysql-client-core-8.0 (8.0.26-0ubuntu0.20.04.2) ...
Selecting previously unselected package mysql-client-8.0.
```

```
Activities Terminal Sep 14 00:24
webonise@webonise: ~/test_db

Selecting previously unselected package mysql-client-8.0.
Preparing to unpack .../01-mysql-client-8.0_8.0.26-0ubuntu0.20.04.2_amd64.deb ...
.
Unpacking mysql-client-8.0 (8.0.26-0ubuntu0.20.04.2) ...
Selecting previously unselected package libaio1:amd64.
Preparing to unpack .../02-libaio1_0.3.112-5_amd64.deb ...
Unpacking libaio1:amd64 (0.3.112-5) ...
Selecting previously unselected package libevent-core-2.1-7:amd64.
Preparing to unpack .../03-libevent-core-2.1-7_2.1.11-stable-1_amd64.deb ...
Unpacking libevent-core-2.1-7:amd64 (2.1.11-stable-1) ...
Selecting previously unselected package libevent-pthreads-2.1-7:amd64.
Preparing to unpack .../04-libevent-pthreads-2.1-7_2.1.11-stable-1_amd64.deb ...
Unpacking libevent-pthreads-2.1-7:amd64 (2.1.11-stable-1) ...
Selecting previously unselected package libmecab2:amd64.
Preparing to unpack .../05-libmecab2_0.996-10build1_amd64.deb ...
Unpacking libmecab2:amd64 (0.996-10build1) ...
Selecting previously unselected package mysql-server-core-8.0.
Preparing to unpack .../06-mysql-server-core-8.0_8.0.26-0ubuntu0.20.04.2_amd64.deb ...
eb ...
Unpacking mysql-server-core-8.0 (8.0.26-0ubuntu0.20.04.2) ...
Selecting previously unselected package mysql-server-8.0.
Preparing to unpack .../07-mysql-server-8.0_8.0.26-0ubuntu0.20.04.2_amd64.deb ...
.
Unpacking mysql-server-8.0 (8.0.26-0ubuntu0.20.04.2) ...
Selecting previously unselected package libcglt-pm-perl.
Preparing to unpack .../08-libcglt-pm-perl_4.46-1_all.deb ...
Unpacking libcglt-pm-perl (4.46-1) ...
Selecting previously unselected package libfcgi-perl.
Preparing to unpack .../09-libfcgi-perl_0.79-1_amd64.deb ...
Unpacking libfcgi-perl (0.79-1) ...
Selecting previously unselected package libcglt-fast-perl.
Preparing to unpack .../10-libcglt-fast-perl_1%3a2.15-1_all.deb ...
Unpacking libcglt-fast-perl (1:2.15-1) ...
Selecting previously unselected package libhtml-template-perl.
Preparing to unpack .../11-libhtml-template-perl_2.97-1_all.deb ...
Unpacking libhtml-template-perl (2.97-1) ...
Selecting previously unselected package mecab-utils.
Preparing to unpack .../12-mecab-utils_0.996-10build1_amd64.deb ...
Unpacking mecab-utils (0.996-10build1) ...
```

```
Activities Terminal Sep 14 00:25
Preparing to unpack .../12-mecab-utils_0.996-10build1_amd64.deb ...
Unpacking mecab-utils (0.996-10build1) ...
Selecting previously unselected package mecab-ipadic.
Preparing to unpack .../13-mecab-ipadic_2.7.0-20070801+main-2.1_all.deb ...
Unpacking mecab-ipadic (2.7.0-20070801+main-2.1) ...
Selecting previously unselected package mecab-ipadic-utf8.
Preparing to unpack .../14-mecab-ipadic-utf8_2.7.0-20070801+main-2.1_all.deb ...
Unpacking mecab-ipadic-utf8 (2.7.0-20070801+main-2.1) ...
Selecting previously unselected package mysql-server.
Preparing to unpack .../15-mysql-server_8.0.26-0ubuntu0.20.04.2_all.deb ...
Unpacking mysql-server (8.0.26-0ubuntu0.20.04.2) ...
Setting up libmecab2:amd64 (0.996-10build1) ...
Setting up mysql-client-core-8.0 (8.0.26-0ubuntu0.20.04.2) ...
Setting up libcgipm-perl (4.46-1) ...
Setting up libhtml-template-perl (2.97-1) ...
Setting up mecab-utils (0.996-10build1) ...
Setting up libevent-core-2.1-7:amd64 (2.1.11-stable-1) ...
Setting up mysql-client-8.0 (8.0.26-0ubuntu0.20.04.2) ...
Setting up libfcgi-perl (0.79-1) ...
Setting up libai01:amd64 (0.3.112-5) ...
Setting up libevent-threads-2.1-7:amd64 (2.1.11-stable-1) ...
Setting up mecab-ipadic (2.7.0-20070801+main-2.1) ...
Compiling IPA dictionary for Mecab. This takes long time...
reading /usr/share/mecab/dic/ipadic/unk.def ... 40
emitting double-array: 100% [#####
/usr/share/mecab/dic/ipadic/model.def is not found. skipped.
reading /usr/share/mecab/dic/ipadic/Adj.csv ... 27210
reading /usr/share/mecab/dic/ipadic/Adverb.csv ... 3032
reading /usr/share/mecab/dic/ipadic/Noun.verbal.csv ... 12146
reading /usr/share/mecab/dic/ipadic/Others.csv ... 2
reading /usr/share/mecab/dic/ipadic/Noun.nat.csv ... 42
reading /usr/share/mecab/dic/ipadic/Noun.adverbial.csv ... 795
reading /usr/share/mecab/dic/ipadic/Noun.org.csv ... 16668
reading /usr/share/mecab/dic/ipadic/Postp.csv ... 146
reading /usr/share/mecab/dic/ipadic/Adnominal.csv ... 135
reading /usr/share/mecab/dic/ipadic/Symbol.csv ... 208
reading /usr/share/mecab/dic/ipadic/AuxL.csv ... 199
reading /usr/share/mecab/dic/ipadic/Noun.others.csv ... 151
reading /usr/share/mecab/dic/ipadic/Noun.name.csv ... 34283
```

```
Activities Terminal Sep 14 00:25
Preparing to unpack .../12-mecab-utils_0.996-10build1_amd64.deb ...
Unpacking mecab-utils (0.996-10build1) ...
Selecting previously unselected package mecab-ipadic.
Preparing to unpack .../13-mecab-ipadic_2.7.0-20070801+main-2.1_all.deb ...
Unpacking mecab-ipadic (2.7.0-20070801+main-2.1) ...
Selecting previously unselected package mecab-ipadic-utf8.
Preparing to unpack .../14-mecab-ipadic-utf8_2.7.0-20070801+main-2.1_all.deb ...
Unpacking mecab-ipadic-utf8 (2.7.0-20070801+main-2.1) ...
Selecting previously unselected package mysql-server.
Preparing to unpack .../15-mysql-server_8.0.26-0ubuntu0.20.04.2_all.deb ...
Unpacking mysql-server (8.0.26-0ubuntu0.20.04.2) ...
Setting up libmecab2:amd64 (0.996-10build1) ...
Setting up mysql-client-core-8.0 (8.0.26-0ubuntu0.20.04.2) ...
Setting up libcgipm-perl (4.46-1) ...
Setting up libhtml-template-perl (2.97-1) ...
Setting up mecab-utils (0.996-10build1) ...
Setting up libevent-core-2.1-7:amd64 (2.1.11-stable-1) ...
Setting up mysql-client-8.0 (8.0.26-0ubuntu0.20.04.2) ...
Setting up libfcgi-perl (0.79-1) ...
Setting up libai01:amd64 (0.3.112-5) ...
Setting up libevent-threads-2.1-7:amd64 (2.1.11-stable-1) ...
Setting up mecab-ipadic (2.7.0-20070801+main-2.1) ...
Compiling IPA dictionary for Mecab. This takes long time...
reading /usr/share/mecab/dic/ipadic/unk.def ... 40
emitting double-array: 100% [#####
/usr/share/mecab/dic/ipadic/model.def is not found. skipped.
reading /usr/share/mecab/dic/ipadic/Adj.csv ... 27210
reading /usr/share/mecab/dic/ipadic/Adverb.csv ... 3032
reading /usr/share/mecab/dic/ipadic/Noun.verbal.csv ... 12146
reading /usr/share/mecab/dic/ipadic/Others.csv ... 2
reading /usr/share/mecab/dic/ipadic/Noun.nat.csv ... 42
reading /usr/share/mecab/dic/ipadic/Noun.adverbial.csv ... 795
reading /usr/share/mecab/dic/ipadic/Noun.org.csv ... 16668
reading /usr/share/mecab/dic/ipadic/Postp.csv ... 146
reading /usr/share/mecab/dic/ipadic/Adnominal.csv ... 135
reading /usr/share/mecab/dic/ipadic/Symbol.csv ... 208
reading /usr/share/mecab/dic/ipadic/AuxL.csv ... 199
reading /usr/share/mecab/dic/ipadic/Noun.others.csv ... 151
reading /usr/share/mecab/dic/ipadic/Noun.name.csv ... 34283
```

Activities Terminal Sep 14 00:25 webonise@webonise: ~/test_db

```
reading '/usr/share/mecab/dic/ipadic/Noun.number.csv' ... 42
reading '/usr/share/mecab/dic/ipadic/Conjunction.csv' ... 171
reading '/usr/share/mecab/dic/ipadic/Interjection.csv' ... 252
reading '/usr/share/mecab/dic/ipadic/Filler.csv' ... 19
reading '/usr/share/mecab/dic/ipadic/Noun.demonst.csv' ... 120
reading '/usr/share/mecab/dic/ipadic/Noun.adjv.csv' ... 3328
reading '/usr/share/mecab/dic/ipadic/Prefix.csv' ... 221
emitting double-array: 100% [#####
reading '/usr/share/mecab/dic/ipadic/matrix.def' ... 1316x1316
emitting matrix      : 100% [#####
done!
update-alternatives: using /var/lib/mecab/dic/ipadic-utf8 to provide /var/lib/me
cab/dic.debian (mecab-dictionary) in auto mode
Setting up mysql-server-8.0 (8.0.26-0ubuntu0.20.04.2) ...
update-alternatives: using /etc/mysql/mysql.cnf to provide /etc/mysql/my.cnf (my
.cnf) in auto mode
Renaming removed key_buffer and myisam-recover options (if present)
mysqld will log errors to /var/log/mysql/error.log
mysqld is running as pid 10228
Created symlink /etc/systemd/system/multi-user.target.wants/mysql.service → /lib
/systemd/system/mysql.service.
Setting up mysql-server (8.0.26-0ubuntu0.20.04.2) ...
Processing triggers for systemd (245.4-4ubuntu3.11) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.2) ...
webonise@webonise:~$ git clone sudo sh -c 'echo "deb http://apt.postgresql.org/pub/repos/apt $(lsb_release -cs)-pgdg main" > /etc/apt/sources.list.d/pgdg.list'
Command 'git' not found, but can be installed with:
sudo apt install git
webonise@webonise:~$ wget --quiet -O - https://www.postgresql.org/media/keys/ACCC4CF8.asc | sudo apt-key add -
OK
webonise@webonise:~$ sudo apt-get update
Hit:1 http://dl.google.com/linux/chrome/deb stable InRelease
```

Activities Terminal Sep 14 00:25 webonise@webonise: ~/test_db

```
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.2) ...
webonise@webonise:~$ git clone sudo sh -c 'echo "deb http://apt.postgresql.org/pub/repos/apt $(lsb_release -cs)-pgdg main" > /etc/apt/sources.list.d/pgdg.list'
Command 'git' not found, but can be installed with:
sudo apt install git
webonise@webonise:~$ wget --quiet -O - https://www.postgresql.org/media/keys/ACCC4CF8.asc | sudo apt-key add -
OK
webonise@webonise:~$ sudo apt-get update
Hit:1 http://dl.google.com/linux/chrome/deb stable InRelease
Hit:2 http://apt.postgresql.org/pub/repos/apt focal-pgdg InRelease
 0% [Working]
Hit:3 http://in.archive.ubuntu.com/ubuntu focal InRelease
Hit:4 http://in.archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:5 http://in.archive.ubuntu.com/ubuntu focal-backports InRelease
Hit:6 http://security.ubuntu.com/ubuntu focal-security InRelease
Hit:7 https://packagecloud.io/slacktechnologies/slack/debian jessie InRelease
Reading package lists... Done
N: Skipping acquire of configured file 'main/binary-i386/Packages' as repository 'http://apt.postgresql.org/pub/repos/apt focal-pgdg InRelease
  ' doesn't support architecture 'i386'.
webonise@webonise:~$ sudo apt-get -y install postgresql
Reading package lists...
Building dependency tree
Reading state information... Done
postgresql is already the newest version (13+226.pgdg20.04+1).
The following packages were automatically installed and are no longer required:
  libfbprint-2-todl liblilmv10
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 15 not upgraded.
webonise@webonise:~$ 
webonise@webonise:~$ git version
Command 'git' not found, but can be installed with:
sudo apt install git
```

Activities Terminal Sep 14 00:26 webonise@webonise: ~/test_db

```
use sudo apt autoremove to remove them.
0 upgraded, 0 newly installed, 0 to remove and 15 not upgraded.
webonise@webonise:~$ webonise@webonise:~$ git version
Command 'git' not found, but can be installed with:
  sudo apt install git
webonise@webonise:~$ sudo apt install git
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  libfprint-2-todl liblvm10
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  git-man liberror-perl
Suggested packages:
  git-daemon-run | git-daemon-sysvinit git-doc git-el git-email git-gui gitk
  gitweb git-cvs git-mediawiki git-svn
The following NEW packages will be installed:
  git git-man liberror-perl
0 upgraded, 3 newly installed, 0 to remove and 15 not upgraded.
Need to get 5,468 kB of archives.
After this operation, 38.4 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://in.archive.ubuntu.com/ubuntu focal/main amd64 liberror-perl all 0.17029-1 [26.5 kB]
Get:2 http://in.archive.ubuntu.com/ubuntu focal-updates/main amd64 git-man all 1:2.25.1-1ubuntu3.1 [884 kB]
Get:3 http://in.archive.ubuntu.com/ubuntu focal-updates/main amd64 git amd64 1:2.25.1-1ubuntu3.1 [4,557 kB]
Fetched 5,468 kB in 1s (10.3 MB/s)
Selecting previously unselected package liberror-perl.
(Reading database ... 186119 files and directories currently installed.)
Preparing to unpack .../liberror-perl_0.17029-1_all.deb ...
Unpacking liberror-perl (0.17029-1) ...
Selecting previously unselected package git-man.
Preparing to unpack .../git-man_1%3a2.25.1-1ubuntu3.1_all.deb ...
Unpacking git-man (1:2.25.1-1ubuntu3.1) ...
Selecting previously unselected package git.

```

Activities Terminal Sep 14 00:26 webonise@webonise: ~/test_db

```
Unpacking git (1:2.25.1-1ubuntu3.1) ...
Setting up liberror-perl (0.17029-1) ...
Setting up git-man (1:2.25.1-1ubuntu3.1) ...
Setting up git (1:2.25.1-1ubuntu3.1) ...
Processing triggers for man-db (2.9.1-1) ...
webonise@webonise:~$ git clone https://github.com/datacharmer/test_db/
Cloning into 'test_db'...
remote: Enumerating objects: 116, done.
remote: Counting objects: 100% (11/11), done.
remote: Compressing objects: 100% (7/7), done.
remote: Total 116 (delta 5), reused 8 (delta 4), pack-reused 105
Receiving objects: 100% (116/116), 74.27 MiB | 17.41 MiB/s, done.
Resolving deltas: 100% (59/59), done.
webonise@webonise:~$ create database rest_employee
Command 'create' not found, did you mean:
  command 'pcreate' from deb pbuilder-scripts (22)
Try: sudo apt install <deb name>
webonise@webonise:~$ sudo sh -c 'echo "deb http://apt.postgresql.org/pub/repos/apt $(lsb_release -cs)-pgdg main" > /etc/apt/sources.list.d/pgdg.list'
webonise@webonise:~$ wget --quiet -O - https://www.postgresql.org/media/keys/ACCC4CF8.asc | sudo apt-key add -
OK
webonise@webonise:~$ sudo apt-get update
Hit:1 http://dl.google.com/linux/chrome/deb stable InRelease
Hit:2 http://in.archive.ubuntu.com/ubuntu focal InRelease
Hit:3 http://in.archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:4 http://in.archive.ubuntu.com/ubuntu focal-backports InRelease
Hit:5 http://apt.postgresql.org/pub/repos/apt focal-pgdg InRelease
Hit:6 http://security.ubuntu.com/ubuntu focal-security InRelease
Hit:7 https://packagecloud.io/slacktechnologies/slack/debian jessie InRelease
Reading package lists... Done
N: Skipping acquire of configured file 'main/binary-i386/Packages' as repository 'http://apt.postgresql.org/pub/repos/apt focal-pgdg InRelease
  ' doesn't support architecture 'i386'
webonise@webonise:~$ mysql -u root -p
Enter password:
```

```
Activities Terminal Sep 14 00:26
[webonise@webonise: ~/test_db]
... skipping because configuration file /etc/mysql/debian.cnf does not support architecture 'i386'
webonise@webonise:~$ mysql -u root -p
Enter password:
ERROR 1698 (28000): Access denied for user 'root'@'localhost'
webonise@webonise:~$ mysql -u webonise -p
Enter password:
ERROR 1045 (28000): Access denied for user 'webonise'@'localhost' (using password: YES)
webonise@webonise:~$ sudo mysql -u webonise -p
Enter password:
ERROR 1045 (28000): Access denied for user 'webonise'@'localhost' (using password: YES)
webonise@webonise:~$ pwd
/home/webonise
webonise@webonise:~$ ls
Desktop Documents Downloads Music Pictures Public snap Templates test_db Videos
webonise@webonise:~$ cd Desktop
webonise@webonise:~/Desktop$ ls
webonise@webonise:~/Desktop$ cd ..
webonise@webonise:~/cd test_db
webonise@webonise:~/test_db$ sudo mysql -u webonise -p
[sudo] password for webonise:
Sorry, try again.
[sudo] password for webonise:
Enter password:
ERROR 1045 (28000): Access denied for user 'webonise'@'localhost' (using password: YES)
webonise@webonise:~/test_db$ mysql
ERROR 1045 (28000): Access denied for user 'webonise'@'localhost' (using password: NO)
webonise@webonise:~/test_db$ hostname -f
webonise
webonise@webonise:~/test_db$ sudo apt-get install mysql-server
Reading package lists... Done
Building dependency tree
Reading state information... Done
mysql-server is already the newest version (8.0.26-0ubuntu0.20.04.2).
The following packages were automatically installed and are no longer required:
  libfbprint-2-tod1 libbluvm10
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 15 not upgraded.
webonise@webonise:~/test_db$ mysql -u root -p
```

```
Activities Terminal Sep 14 00:26
[webonise@webonise: ~/test_db]
... skipping because configuration file /etc/mysql/debian.cnf does not support architecture 'i386'
webonise@webonise:~$ sudo mysql -u webonise -p
[sudo] password for webonise:
Sorry, try again.
[sudo] password for webonise:
Enter password:
ERROR 1045 (28000): Access denied for user 'webonise'@'localhost' (using password: YES)
webonise@webonise:~$ mysql
ERROR 1045 (28000): Access denied for user 'webonise'@'localhost' (using password: NO)
webonise@webonise:~/test_db$ hostname -f
webonise
webonise@webonise:~/test_db$ sudo apt-get install mysql-server
Reading package lists... Done
Building dependency tree
Reading state information... Done
mysql-server is already the newest version (8.0.26-0ubuntu0.20.04.2).
The following packages were automatically installed and are no longer required:
  libfbprint-2-tod1 libbluvm10
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 15 not upgraded.
webonise@webonise:~/test_db$ mysql -u root -p
Enter password:
ERROR 1698 (28000): Access denied for user 'root'@'localhost'
webonise@webonise:~/test_db$ mysql -u localhost -p
Enter password:
ERROR 1045 (28000): Access denied for user 'localhost'@'localhost' (using password: YES)
webonise@webonise:~/test_db$ ^C
webonise@webonise:~/test_db$ ^C
webonise@webonise:~/test_db$ sudo mysql -u webonise -p
Enter password:
ERROR 1045 (28000): Access denied for user 'webonise'@'localhost' (using password: YES)
webonise@webonise:~/test_db$ sudo mysql -u webonise@localhost -p
Enter password:
ERROR 1045 (28000): Access denied for user 'webonise@localhost'@'localhost' (using password: YES)
webonise@webonise:~/test_db$ sudo mysql_secure_installation

Securing the MySQL server deployment.

Connecting to MySQL using a blank password.
```

Activities Terminal Sep 14 00:27

```
webonise@webonise:~/test_db$ sudo mysql -u webonise@localhost -p
Enter password:
ERROR 1045 (28000): Access denied for user 'webonise'@'localhost' (using password: YES)
webonise@webonise:~/test_db$ sudo mysql_secure_installation

Securing the MySQL server deployment.

Connecting to MySQL using a blank password.

VALIDATE PASSWORD COMPONENT can be used to test passwords
and improve security. It checks the strength of password
and allows the users to set only those passwords which are
secure enough. Would you like to setup VALIDATE PASSWORD component?

Press y|Y for Yes, any other key for No: n
Please set the password for root here.

New password:

Re-enter new password:
By default, a MySQL installation has an anonymous user,
allowing anyone to log into MySQL without having to have
a user account created for them. This is intended only for
testing, and to make the installation go a bit smoother.
You should remove them before moving into a production
environment.

Remove anonymous users? (Press y|Y for Yes, any other key for No) : n
... skipping.

Normally, root should only be allowed to connect from
'localhost'. This ensures that someone cannot guess at
the root password from the network.

Disallow root login remotely? (Press y|Y for Yes, any other key for No) : n
... skipping.
```

Activities Terminal Sep 14 00:38

```
webonise@webonise:~/test_db$ ... skipping.

... skipping.

Normally, root should only be allowed to connect from
'localhost'. This ensures that someone cannot guess at
the root password from the network.

Disallow root login remotely? (Press y|Y for Yes, any other key for No) : n
... skipping.

By default, MySQL comes with a database named 'test' that
anyone can access. This is also intended only for testing,
and should be removed before moving into a production
environment.

Remove test database and access to it? (Press y|Y for Yes, any other key for No) : n
... skipping.

Reloading the privilege tables will ensure that all changes
made so far will take effect immediately.

Reload privilege tables now? (Press y|Y for Yes, any other key for No) : y
Success.

All done!
webonise@webonise:~/test_db$ mysql -u root -p
Enter password:
ERROR 1098 (28000): Access denied for user 'root'@'localhost'
webonise@webonise:~/test_db$ mysql -u root -p
Enter password:
ERROR 1098 (28000): Access denied for user 'root'@'localhost'
webonise@webonise:~/test_db$ sudo mysql < employees.sql
[sudo] password for webonise:
INFO
INFO
CREATING DATABASE STRUCTURE
INFO
storage engine: InnoDB
```

Activities Terminal Sep 14 00:39 webonise@webonise: ~/test_db

```
All done!
webonise@webonise:~/test_db$ mysql -u root -p
Enter password:
ERROR 1698 (28000): Access denied for user 'root'@'localhost'
webonise@webonise:~/test_db$ mysql -u root -p
Enter password:
ERROR 1698 (28000): Access denied for user 'root'@'localhost'
webonise@webonise:~/test_db$ sudo mysql < employees.sql
[sudo] password for webonise:
INFO
CREATING DATABASE STRUCTURE
INFO
storage engine: InnoDB
INFO
LOADING departments
INFO
LOADING employees
INFO
LOADING dept_emp
INFO
LOADING dept_manager
INFO
LOADING titles
INFO
LOADING salaries
data load_time_diff
00:02:50
webonise@webonise:~/test_db$ #!/bin/bash
webonise@webonise:~/test_db$ TIMESTAMP=$(date +"%F")
webonise@webonise:~/test_db$ BACKUP_DIR="/backup/databases/$TIMESTAMP"
webonise@webonise:~/test_db$ MYSQL_USER="username"
webonise@webonise:~/test_db$ MYSQL_PASSWORD="userpass"
webonise@webonise:~/test_db$ MYSQL=$(which mysql)
webonise@webonise:~/test_db$ MYSQLDUMP=$(which mysqldump)
webonise@webonise:~/test_db$ mkdir -p $BACKUP_DIR
mkdir: cannot create directory '/backup': Permission denied
```

Activities Terminal Sep 14 00:39 webonise@webonise: ~/test_db

```
data_code_change_start
00:02:50
webonise@webonise:~/test_db$ #!/bin/bash
webonise@webonise:~/test_db$ TIMESTAMP=$(date +"%F")
webonise@webonise:~/test_db$ BACKUP_DIR="/backup/databases/$TIMESTAMP"
webonise@webonise:~/test_db$ MYSQL_USER="username"
webonise@webonise:~/test_db$ MYSQL_PASSWORD="userpass"
webonise@webonise:~/test_db$ MYSQL=$(which mysql)
webonise@webonise:~/test_db$ MYSQLDUMP=$(which mysqldump)
webonise@webonise:~/test_db$ mkdir -p $BACKUP_DIR
mkdir: cannot create directory '/backup': Permission denied
webonise@webonise:~/test_db$ find "$BACKUP_DIR" -mtime +3 -type d -exec rm -rf {} \;
find: '/backup/databases/2021-09-13': No such file or directory
webonise@webonise:~/test_db$ databases=$MYSQL -u$MYSQL_USER -p$MYSQL_PASSWORD -e "show databases" | grep -Ev "(database|Database|information_schema|performance_schema|phpmyadmin|mysql)"
mysql: [Warning] Using a password on the command line interface can be insecure.
ERROR 1045 (28000): Access denied for user 'username'@'localhost' (using password: YES)
webonise@webonise:~/test_db$ for db in $databases; do
>   $MYSQLDUMP -u $MYSQL_USER -p$MYSQL_PASSWORD --databases $db > $BACKUP_DIR/$db.sql
> done
webonise@webonise:~/test_db$ sudo mkdir -p $BACKUP_DIR
[sudo] password for webonise:
webonise@webonise:~/test_db$ find "$BACKUP_DIR" -mtime +3 -type d -exec rm -rf {} \;
webonise@webonise:~/test_db$ databases=$MYSQL -u$MYSQL_USER -p$MYSQL_PASSWORD -e "show databases" | grep -Ev "(database|Database|information_schema|performance_schema|phpmyadmin|mysql)"
mysql: [Warning] Using a password on the command line interface can be insecure.
ERROR 1045 (28000): Access denied for user 'username'@'localhost' (using password: YES)
webonise@webonise:~/test_db$ sudo databases=$MYSQL -u$MYSQL_USER -p$MYSQL_PASSWORD -e "show databases" | grep -Ev "(database|Database|information_schema|performance_schema|phpmyadmin|mysql)"
mysql: [Warning] Using a password on the command line interface can be insecure.
ERROR 1045 (28000): Access denied for user 'username'@'localhost' (using password: YES)
usage: sudo -h | -K | -k | -V
```

```

Activities Terminal Sep 14 00:39
webonise@webonise:~/test_db

webonise@webonise:~/test_db$ MYSQL_USER="username"
webonise@webonise:~/test_db$ MYSQL_PASSWORD="userpass"
webonise@webonise:~/test_db$ MYSQL=$(which mysql)
webonise@webonise:~/test_db$ MYSQLDUMP=$(which mysqldump)
webonise@webonise:~/test_db$ mkdir -p $BACKUP_DIR
mkdir: cannot create directory '/backup': Permission denied
webonise@webonise:~/test_db$ find "$BACKUP_DIR" -mtime +3 -type d -exec rm -rf {} \;
find: '/Backup/databases/2021-09-13': No such file or directory
webonise@webonise:~/test_db$ databases=$MYSQL -u$MYSQL_USER -p$MYSQL_PASSWORD -e "show databases" | grep -Ev "(database|Database|information_schema|performance_schema|phpmyadmin|mysql)"
mysql: [Warning] Using a password on the command line interface can be insecure.
ERROR 1045 (28000): Access denied for user 'username'@'localhost' (using password: YES)
webonise@webonise:~/test_db$ for db in $databases; do
> $MYSQLDUMP -u $MYSQL_USER -p$MYSQL_PASSWORD --databases $db > $BACKUP_DIR/$db.sql
> done
webonise@webonise:~/test_db$ sudo mkdir -p $BACKUP_DIR
[sudo] password for webonise:
webonise@webonise:~/test_db$ find "$BACKUP_DIR" -mtime +3 -type d -exec rm -rf {} \;
webonise@webonise:~/test_db$ databases=$MYSQL -u$MYSQL_USER -p$MYSQL_PASSWORD -e "show databases" | grep -Ev "(database|Database|information_schema|performance_schema|phpmyadmin|mysql)"
mysql: [Warning] Using a password on the command line interface can be insecure.
ERROR 1045 (28000): Access denied for user 'username'@'localhost' (using password: YES)
webonise@webonise:~/test_db$ sudo databases=$MYSQL -u$MYSQL_USER -p$MYSQL_PASSWORD -e "show databases" | grep -Ev "(database|Database|information_schema|performance_schema|phpmyadmin|mysql)"
mysql: [Warning] Using a password on the command line interface can be insecure.
ERROR 1045 (28000): Access denied for user 'username'@'localhost' (using password: YES)
usage: sudo -h | -K | -k | -V
usage: sudo -v [-AknS] [-g group] [-h host] [-p prompt] [-u user]
usage: sudo -l [-AknS] [-g group] [-h host] [-p prompt] [-U user] [-u user] [command]
usage: sudo [-AbEhknPs] [-r role] [-t type] [-c num] [-g group] [-h host] [-p prompt] [-T timeout] [-u user] [VAR=value] [-i|-s] [<command>]
usage: sudo -e [-AknS] [-r role] [-t type] [-c num] [-g group] [-h host] [-p prompt] [-T timeout] [-u user] file ...
webonise@webonise:~/test_db$ 
```

Restoring sample database in postgres

webonise@webonise:~\$ wget

https://github.com/arinpro/postgres-sample-db-dvdrental/raw/master/dvdrental_backup.tar

--2021-09-13 15:25:38--

https://github.com/arinpro/postgres-sample-db-dvdrental/raw/master/dvdrental_backup.tar

Resolving github.com (github.com)... 13.234.176.102

Connecting to github.com (github.com)|13.234.176.102|:443... connected.

HTTP request sent, awaiting response... 302 Found

Location:

https://raw.githubusercontent.com/arinpro/postgres-sample-db-dvdrental/master/dvdrental_backup.tar [following]

--2021-09-13 15:25:44--

https://raw.githubusercontent.com/arinpro/postgres-sample-db-dvdrental/master/dvdrental_backup.tar

Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.111.133, 185.199.110.133, 185.199.108.133, ...

Connecting to raw.githubusercontent.com (raw.githubusercontent.com)|185.199.111.133|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 2835456 (2.7M) [application/octet-stream]

Saving to: 'dvdrental_backup.tar'

dvdrental_backup.ta 100%[=====>] 2.70M 9.19MB/s in 0.3s

2021-09-13 15:25:45 (9.19 MB/s) - 'dvdrental_backup.tar' saved [2835456/2835456]

```
webonise@webonise:~$ createdb dvdrental
```

createdb: error: could not connect to database template1: FATAL: role "webonise" does not exist

```
webonise@webonise:~$ psql
```

psql: error: FATAL: role "webonise" does not exist

```
webonise@webonise:~$ sudo psql < dvdrental
```

bash: dvdrental: No such file or directory

```
webonise@webonise:~$ pwd
```

/home/webonise

```
webonise@webonise:~$ ls
```

Desktop Documents Downloads dvdrental_backup.tar Music Pictures Public snap

Templates test_db Videos

```
webonise@webonise:~$ cd dvdrental_backup.tar
```

bash: cd: dvdrental_backup.tar: Not a directory

```
webonise@webonise:~$ tar -xvf dvdrental_backup.tar
```

toc.dat

3057.dat

3065.dat

3059.dat

3067.dat

3069.dat

3055.dat

3061.dat

3062.dat

3063.dat

3071.dat

3073.dat

3075.dat

3077.dat

3079.dat

3081.dat

restore.sql

```
webonise@webonise:~$ create db dvdrental
```

Command 'create' not found, did you mean:

command 'pcreate' from deb pbuilder-scripts (22)

Try: sudo apt install <deb name>

```
webonise@webonise:~$ sudo psql < create db dvdrental
bash: create: No such file or directory
webonise@webonise:~$ psql
psql: error: FATAL: role "webonise" does not exist
webonise@webonise:~$ postgres=# CREATE DATABASE dvdrental
CREATE: command not found
webonise@webonise:~$ psql dbname < restore.sql
psql: error: FATAL: role "webonise" does not exist
webonise@webonise:~$ create user webonise superuser
```

Command 'create' not found, did you mean:

command 'pcreate' from deb pbuilder-scripts (22)

Try: sudo apt install <deb name>

```
webonise@webonise:~$ psql < create user webonise superuser
bash: create: No such file or directory
webonise@webonise:~$ psql < createuser webonise superuser
bash: createuser: No such file or directory
webonise@webonise:~$ sudo -u postgres createuser --superuser webonise
[sudo] password for webonise:
webonise@webonise:~$ psql dbname < restore.sql
psql: error: FATAL: database "dbname" does not exist
webonise@webonise:~$ pg_dump restore > restore.sql
pg_dump: error: connection to database "restore" failed: FATAL: database "restore" does not
exist
webonise@webonise:~$ la
3055.dat 3063.dat 3073.dat .bash_history Desktop .local .profile
.sudo_as_admin_successful .wget-hsts
3057.dat 3065.dat 3075.dat .bash_logout Documents .mozilla Public Templates
.zoom
3059.dat 3067.dat 3077.dat .bashrc Downloads Music restore.sql test_db
3061.dat 3069.dat 3079.dat .cache dvdrental_backup.tar Pictures snap toc.dat
3062.dat 3071.dat 3081.dat .config .gnupg .pki .ssh Videos
```

```
webonise@webonise:~$ ls
3055.dat 3061.dat 3065.dat 3071.dat 3077.dat Desktop  dvdrental_backup.tar Public
Templates Videos
3057.dat 3062.dat 3067.dat 3073.dat 3079.dat Documents Music          restore.sql
test_db
3059.dat 3063.dat 3069.dat 3075.dat 3081.dat Downloads Pictures      snap      toc.dat
webonise@webonise:~$ cd devdrental_backup.tar
bash: cd: devdrental_backup.tar: No such file or directory
webonise@webonise:~$ cd dvdrental_backup.tar
bash: cd: dvdrental_backup.tar: Not a directory
webonise@webonise:~$ pg_dump restore > restore.sql
pg_dump: error: connection to database "restore" failed: FATAL: database "restore" does not
exist
webonise@webonise:~$ psql dbname < restore.sql
psql: error: FATAL: database "dbname" does not exist
webonise@webonise:~$ postgres=# CREATE DATABASE dvdrental
CREATE: command not found
webonise@webonise:~$ sudo psql < create_db_dvdrental
bash: create: No such file or directory
webonise@webonise:~$
```

```
webonise@webonise:~$ su - postgres
Password:
su: Authentication failure
webonise@webonise:~$ sudo - postgres
[sudo] password for webonise:
sudo: -: command not found
webonise@webonise:~$ sudo su - postgres
postgres@webonise:~$ psql
psql (13.4 (Ubuntu 13.4-1.pgdg20.04+1))
Type "help" for help.
```

```
postgres=# CREATE DATABASE dvdrental;
CREATE DATABASE
postgres=# exit
postgres@webonise:~$ C:\>cd C:\Program Files\PostgreSQL\12\bin
C:>cd: command not found
postgres@webonise:~$ cd C:\Program Files\PostgreSQL\12\bin
```

```
-bash: cd: too many arguments
postgres@webonise:~$ ls
13
postgres@webonise:~$ pwd
/var/lib/postgresql
postgres@webonise:~$ cd 13
postgres@webonise:~/13$ ls
main
postgres@webonise:~/13$ cd ..
postgres@webonise:~$ cd ..
postgres@webonise:/var/lib$ cd ..
postgres@webonise:/var$ cd ..
postgres@webonise:$ pwd
/
postgres@webonise:$ cd usr
postgres@webonise:/usr$ ls
bin games include lib lib32 lib64 libexec libx32 local sbin share src
postgres@webonise:/usr$ cd lib
postgres@webonise:/usr/lib$ ls
accountsservice firmware libmcrypt.a os-release
SYSLINUX
apache2 gcc libmcrypt.la packagekit
    syslinux-legacy
apg gdm3 libmcrypt.so pcmciautils
sysstat
apparmor gettext libmcrypt.so.4 php
systemd
apt ghostscript libmcrypt.so.4.4.8 pkgconfig
sysusers.d
aspell girepository-1.0 libqmi pkg-config.multiarch
tc
bfd-plugins git-core libreoffice pm-utils
terminfo
binfmt.d gnome-initial-setup linux policykit-1
thunderbird
bluetooth gnome-session linux-boot-probes postgresql
thunderbird-addons
bolt gnome-settings-daemon-3.0 linux-sound-base pppd
tmpfiles.d
```

brltty	gnome-shell	locale	pulse-13.99.1
ubiquity			
cgi-bin	gnupg	lp_solve	python2.7
ubuntu-adantage			
cnf-update-db	gnupg2	lsb	python3
ubuntu-release-upgrader			
command-not-found	gold-ld	man-db	python3.8
udev			
compat-ld	groff	mecab	python3.9
udisks2			
console-setup	grub	memtest86+	
recovery-mode		ufw	
cpp	grub-legacy	mime	rhythmbox
unity-settings-daemon-1.0			
crda	gst-install-plugins-helper	modprobe.d	rsyslog
update-notifier			
cups	gvfs	modules	rygel
upower			
dbus-1.0	hdparm	modules-load.d	sasl2
valgrind			
debug	ibus	mysql	shotwell
vino			
dpkg	init	netplan	slack
X11			
eject	initramfs-tools	networkd-dispatcher	snapd
x86_64-linux-gnu			
emacsen-common	ispell	NetworkManager	
software-properties	xorg		
environment.d	kernel	nginx	
speech-dispatcher-modules	xserver-xorg-video-intel		
evolution-data-server	klibc	nvidia	ssl
file	klibc-xcgdUApi-P9SoPhW_fi5gXfvWpw.so	openssh	sudo
firefox	language-selector	os-prober	sysctl.d
firefox-addons	libmbmim	os-probes	syslinux

```
postgres@webonise:/usr/lib$ cd postgresql
```

```
postgres@webonise:/usr/lib/postgresql$ ls
```

13

```
postgres@webonise:/usr/lib/postgresql$ cd 13
```

```
postgres@webonise:/usr/lib/postgresql/13$ ls
```

bin lib

```
postgres@webonise:/usr/lib/postgresql/13$ cd bin
postgres@webonise:/usr/lib/postgresql/13/bin$ pwd
/usr/lib/postgresql/13/bin
postgres@webonise:/usr/lib/postgresql/13/bin$ pg_restore -U postgres -d dvdrental
C:\sampledb\dvdrental.tar
pg_restore: error: could not open input file "C:sampledbdvdrental.tar": No such file or directory
postgres@webonise:/usr/lib/postgresql/13/bin$ pg_restore -U postgres -d dvdrental dvdrental.tar
pg_restore: error: could not open input file "dvdrental.tar": No such file or directory
postgres@webonise:/usr/lib/postgresql/13/bin$ pg_restore -U postgres -d dvdrental
desktop\dvdrental.tar
pg_restore: error: could not open input file "desktopdvdrental.tar": No such file or directory
postgres@webonise:/usr/lib/postgresql/13/bin$ psql
psql (13.4 (Ubuntu 13.4-1.pgdg20.04+1))
Type "help" for help.
```

```
postgres=# \q
postgres@webonise:/usr/lib/postgresql/13/bin$ pg_restore --dbname=dvdrental --verbose
dvdrental.tar
pg_restore: error: could not open input file "dvdrental.tar": No such file or directory
postgres@webonise:/usr/lib/postgresql/13/bin$ pg_restore --dbname=dvdrental --verbose
dvdrental_backup.tar
pg_restore: error: could not open input file "dvdrental_backup.tar": No such file or directory
postgres@webonise:/usr/lib/postgresql/13/bin$ cd /u01
-bash: cd: /u01: No such file or directory
postgres@webonise:/usr/lib/postgresql/13/bin$ cd /u01
-bash: cd: /u01: No such file or directory
postgres@webonise:/usr/lib/postgresql/13/bin$ cd $HOME
postgres@webonise:~$ pwd
/var/lib/postgresql
postgres@webonise:~$ cd C\
> ^C
postgres@webonise:~$ pwd
/var/lib/postgresql
postgres@webonise:~$ cd /
postgres@webonise:$ pwd
/
postgres@webonise:$ dir
backup boot dev home lib32 libx32 media opt root sbin srv tmp var
bin cdrom etc lib lib64 lost+found mnt proc run snap sys usr
postgres@webonise:$ cd home
```

```
postgres@webonise:/home$ dir
webonise
postgres@webonise:/home$ cd webonise
postgres@webonise:/home/webonise$ pwd
/home/webonise
postgres@webonise:/home/webonise$ dir
3055.dat 3061.dat 3065.dat 3071.dat      3077.dat Desktop  dvdrental_backup.tar Public
Templates Videos
3057.dat 3062.dat 3067.dat 3073.dat      3079.dat Documents Music          restore.sql
test_db
3059.dat 3063.dat 3069.dat 3075.dat      3081.dat Downloads Pictures        snap
    toc.dat

postgres@webonise:/home/webonise$ cd /usr/lib/postgresql/13/bin
postgres@webonise:/usr/lib/postgresql/13/bin$ pg_restore --dbname=dvdrental --verbose
/home/webonise/dvdrental_backup.tar
pg_restore: connecting to database for restore
pg_restore: creating TYPE "public.mpaa_rating"
pg_restore: creating DOMAIN "public.year"
pg_restore: creating FUNCTION "public._group_concat(text, text)"
pg_restore: creating FUNCTION "public.film_in_stock(integer, integer)"
pg_restore: creating FUNCTION "public.film_not_in_stock(integer, integer)"
pg_restore: creating FUNCTION "public.get_customer_balance(integer, timestamp without time zone)"
pg_restore: creating FUNCTION "public.inventory_held_by_customer(integer)"
pg_restore: creating FUNCTION "public.inventory_in_stock(integer)"
pg_restore: creating FUNCTION "public.last_day(timestamp without time zone)"
pg_restore: creating FUNCTION "public.last_updated()"
pg_restore: creating SEQUENCE "public.customer_customer_id_seq"
pg_restore: creating TABLE "public.customer"
pg_restore: creating FUNCTION "public.rewards_report(integer, numeric)"
pg_restore: creating AGGREGATE "public.group_concat(text)"
pg_restore: creating SEQUENCE "public.actor_actor_id_seq"
pg_restore: creating TABLE "public.actor"
pg_restore: creating SEQUENCE "public.category_category_id_seq"
pg_restore: creating TABLE "public.category"
pg_restore: creating SEQUENCE "public.film_film_id_seq"
pg_restore: creating TABLE "public.film"
pg_restore: creating TABLE "public.film_actor"
pg_restore: creating TABLE "public.film_category"
pg_restore: creating VIEW "public.actor_info"
```

pg_restore: creating SEQUENCE "public.address_address_id_seq"
pg_restore: creating TABLE "public.address"
pg_restore: creating SEQUENCE "public.city_city_id_seq"
pg_restore: creating TABLE "public.city"
pg_restore: creating SEQUENCE "public.country_country_id_seq"
pg_restore: creating TABLE "public.country"
pg_restore: creating VIEW "public.customer_list"
pg_restore: creating VIEW "public.film_list"
pg_restore: creating SEQUENCE "public.inventory_inventory_id_seq"
pg_restore: creating TABLE "public.inventory"
pg_restore: creating SEQUENCE "public.language_language_id_seq"
pg_restore: creating TABLE "public.language"
pg_restore: creating VIEW "public.nicer_but_slower_film_list"
pg_restore: creating SEQUENCE "public.payment_payment_id_seq"
pg_restore: creating TABLE "public.payment"
pg_restore: creating SEQUENCE "public.rental_rental_id_seq"
pg_restore: creating TABLE "public.rental"
pg_restore: creating VIEW "public.sales_by_film_category"
pg_restore: creating SEQUENCE "public.staff_staff_id_seq"
pg_restore: creating TABLE "public.staff"
pg_restore: creating SEQUENCE "public.store_store_id_seq"
pg_restore: creating TABLE "public.store"
pg_restore: creating VIEW "public.sales_by_store"
pg_restore: creating VIEW "public.staff_list"
pg_restore: processing data for table "public.actor"
pg_restore: processing data for table "public.address"
pg_restore: processing data for table "public.category"
pg_restore: processing data for table "public.city"
pg_restore: processing data for table "public.country"
pg_restore: processing data for table "public.customer"
pg_restore: processing data for table "public.film"
pg_restore: processing data for table "public.film_actor"
pg_restore: processing data for table "public.film_category"
pg_restore: processing data for table "public.inventory"
pg_restore: processing data for table "public.language"
pg_restore: processing data for table "public.payment"
pg_restore: processing data for table "public.rental"
pg_restore: processing data for table "public.staff"
pg_restore: processing data for table "public.store"
pg_restore: executing SEQUENCE SET actor_actor_id_seq

pg_restore: executing SEQUENCE SET address_address_id_seq
pg_restore: executing SEQUENCE SET category_category_id_seq
pg_restore: executing SEQUENCE SET city_city_id_seq
pg_restore: executing SEQUENCE SET country_country_id_seq
pg_restore: executing SEQUENCE SET customer_customer_id_seq
pg_restore: executing SEQUENCE SET film_film_id_seq
pg_restore: executing SEQUENCE SET inventory_inventory_id_seq
pg_restore: executing SEQUENCE SET language_language_id_seq
pg_restore: executing SEQUENCE SET payment_payment_id_seq
pg_restore: executing SEQUENCE SET rental_rental_id_seq
pg_restore: executing SEQUENCE SET staff_staff_id_seq
pg_restore: executing SEQUENCE SET store_store_id_seq
pg_restore: creating CONSTRAINT "public.actor actor_pkey"
pg_restore: creating CONSTRAINT "public.address address_pkey"
pg_restore: creating CONSTRAINT "public.category category_pkey"
pg_restore: creating CONSTRAINT "public.city city_pkey"
pg_restore: creating CONSTRAINT "public.country country_pkey"
pg_restore: creating CONSTRAINT "public.customer customer_pkey"
pg_restore: creating CONSTRAINT "public.film_actor film_actor_pkey"
pg_restore: creating CONSTRAINT "public.film_category film_category_pkey"
pg_restore: creating CONSTRAINT "public.film film_pkey"
pg_restore: creating CONSTRAINT "public.inventory inventory_pkey"
pg_restore: creating CONSTRAINT "public.language language_pkey"
pg_restore: creating CONSTRAINT "public.payment payment_pkey"
pg_restore: creating CONSTRAINT "public.rental rental_pkey"
pg_restore: creating CONSTRAINT "public.staff staff_pkey"
pg_restore: creating CONSTRAINT "public.store store_pkey"
pg_restore: creating INDEX "public.film_fulltext_idx"
pg_restore: creating INDEX "public.idx_actor_last_name"
pg_restore: creating INDEX "public.idx_fk_address_id"
pg_restore: creating INDEX "public.idx_fk_city_id"
pg_restore: creating INDEX "public.idx_fk_country_id"
pg_restore: creating INDEX "public.idx_fk_customer_id"
pg_restore: creating INDEX "public.idx_fk_film_id"
pg_restore: creating INDEX "public.idx_fk_inventory_id"
pg_restore: creating INDEX "public.idx_fk_language_id"
pg_restore: creating INDEX "public.idx_fk_rental_id"
pg_restore: creating INDEX "public.idx_fk_staff_id"
pg_restore: creating INDEX "public.idx_fk_store_id"
pg_restore: creating INDEX "public.idx_last_name"

```
pg_restore: creating INDEX "public.idx_store_id_film_id"
pg_restore: creating INDEX "public.idx_title"
pg_restore: creating INDEX "public.idx_unq_manager_staff_id"
pg_restore: creating INDEX "public.idx_unq_rental_rental_date_inventory_id_customer_id"
pg_restore: creating TRIGGER "public.film_film_fulltext_trigger"
pg_restore: creating TRIGGER "public.actor_last_updated"
pg_restore: creating TRIGGER "public.address_last_updated"
pg_restore: creating TRIGGER "public.category_last_updated"
pg_restore: creating TRIGGER "public.city_last_updated"
pg_restore: creating TRIGGER "public.country_last_updated"
pg_restore: creating TRIGGER "public.customer_last_updated"
pg_restore: creating TRIGGER "public.film_last_updated"
pg_restore: creating TRIGGER "public.film_actor_last_updated"
pg_restore: creating TRIGGER "public.film_category_last_updated"
pg_restore: creating TRIGGER "public.inventory_last_updated"
pg_restore: creating TRIGGER "public.language_last_updated"
pg_restore: creating TRIGGER "public.rental_last_updated"
pg_restore: creating TRIGGER "public.staff_last_updated"
pg_restore: creating TRIGGER "public.store_last_updated"
pg_restore: creating FK CONSTRAINT "public.customer_customer_address_id_fkey"
pg_restore: creating FK CONSTRAINT "public.film_actor_film_actor_actor_id_fkey"
pg_restore: creating FK CONSTRAINT "public.film_actor_film_actor_film_id_fkey"
pg_restore: creating FK CONSTRAINT "public.film_category_film_category_category_id_fkey"
pg_restore: creating FK CONSTRAINT "public.film_category_film_category_film_id_fkey"
pg_restore: creating FK CONSTRAINT "public.film_film_language_id_fkey"
pg_restore: creating FK CONSTRAINT "public.address_fk_address_city"
pg_restore: creating FK CONSTRAINT "public.city_fk_city"
pg_restore: creating FK CONSTRAINT "public.inventory_inventory_film_id_fkey"
pg_restore: creating FK CONSTRAINT "public.payment_payment_customer_id_fkey"
pg_restore: creating FK CONSTRAINT "public.payment_payment_rental_id_fkey"
pg_restore: creating FK CONSTRAINT "public.payment_payment_staff_id_fkey"
pg_restore: creating FK CONSTRAINT "public.rental_rental_customer_id_fkey"
pg_restore: creating FK CONSTRAINT "public.rental_rental_inventory_id_fkey"
pg_restore: creating FK CONSTRAINT "public.rental_rental_staff_id_key"
pg_restore: creating FK CONSTRAINT "public.staff_staff_address_id_fkey"
pg_restore: creating FK CONSTRAINT "public.store_store_address_id_fkey"
pg_restore: creating FK CONSTRAINT "public.store_store_manager_staff_id_fkey"
postgres@webonise:/usr/lib/postgresql/13/bin$
```

Activities Terminal ▾ Sep 14 18:15 webonise@webonise: ~

```
webonise@webonise:~$ su - postgres
Password:
su: Authentication failure
webonise@webonise:~$ sudo - postgres
[sudo] password for webonise:
sudo: -: command not found
webonise@webonise:~$ sudo su - postgres
postgres@webonise:~$ psql
psql (13.4 (Ubuntu 13.4-1.pgdg20.04+1))
Type "help" for help.

postgres=# CREATE DATABASE dvdrental;
CREATE DATABASE
postgres# exit
postgres@webonise:~$ C:\>cd C:\Program Files\PostgreSQL\12\bin
C:>cd: command not found
postgres@webonise:~$ cd C:\Program Files\PostgreSQL\12\bin
-bash: cd: too many arguments
postgres@webonise:~$ ls
13
postgres@webonise:~$ pwd
/var/lib/postgresql
postgres@webonise:~$ cd 13
postgres@webonise:~/13$ ls
main
postgres@webonise:~/13$ cd ..
postgres@webonise:~$ cd ..
postgres@webonise:/var/lib$ cd ..
postgres@webonise:/var$ cd ..
postgres@webonise:/$ pwd
/
postgres@webonise:/$ cd usr
postgres@webonise:/usr$ ls
bin games include lib lib32 lib64 libexec libx32 local sbin share src
postgres@webonise:/usr$ cd lib
postgres@webonise:/usr/lib$ ls
accountsservice firmware libmcrypt.a os-release SYSLINUX
apache2 gcc libmcrypt.la packagekit syslinux-legacy
--
```

Activities Terminal Sep 14 18:16 webonise@webonise: ~

```
postgres@webonise:/$ pwd
/
postgres@webonise:/$ cd usr
postgres@webonise:/usr$ ls
bin games include lib lib32 lib64 libexec libx32 local sbin share src
postgres@webonise:/usr$ cd lib
postgres@webonise:/usr/lib$ ls
accountsservice firmware libmcrypt.a os-release SYSLINUX
apache2 gcc libmcrypt.la packagekit syslinux-legacy
apg gdm3 libmcrypt.so pcmciautils sysstat
apparmor gettext libmcrypt.so.4 php systemd
apt ghostsript libmcrypt.so.4.4.8 pkgconfig sysusers.d
aspell git-core libreoffice pm-utils tc
bfd-plugins gnome-initial-setup linux policykit-1 terminfo
binfmt.d gnome-session linux-boot-probes postgresql thunderbird
bluetooth gnome-settings-daemon-3.0 linux-sound-base pppd thunderbird-addons
bolt gnome-shell locale pulse-13.99.1 python2.7 tmpfiles.d ubiquity
brltty gnmugnup lp_solve python3 ubuntu-advantage
cgt-bin gnupg2 lsb python3.8 ubuntu-release-upgrader
cnf-update-db groff man-db python3.9 udev
command-not-found gold-ld mecab rhythmbox unity-settings-daemon-1.0
compat-ld grub mntest86+ recovery-mode update-notifier
console-setup grub2 modules rygel upower
cpp grub-legacy modules-load.d sasl2 valgrind
crda gst-install-plugins-helper NetworkManager slack vino
cups gvfs nvidia sshd X11
dbus-1.0 hdparm openssh sudo xorg
debug ibus netplan sysctl.d xserver-xorg-video-intel
dpkg init NetworkManager ssl
eject initramfs-tools nvidia
emacs-common ispell openssh
environment.d kernel os-prober
evolution-data-server klibc pg_restore
file klibc-xcgduApi-P9SoPhW_fi5gXfvWpw.so os-probes
firefox language-selector
firefox-addons libmbim
postgres@webonise:/usr/lib$ cd postgresql
postgres@webonise:/usr/lib/postgresql$ ls
13
```

Activities Terminal Sep 14 18:16 webonise@webonise: ~

```
postgres@webonise:/usr/lib$ cd postgresql
postgres@webonise:/usr/lib/postgresql$ ls
13
postgres@webonise:/usr/lib/postgresql$ cd 13
postgres@webonise:/usr/lib/postgresql/13$ ls
bin lib
postgres@webonise:/usr/lib/postgresql/13$ cd bin
postgres@webonise:/usr/lib/postgresql/13/bin$ pwd
/usr/lib/postgresql/13/bin
postgres@webonise:/usr/lib/postgresql/13/bin$ pg_restore -U postgres -d dvdrental C:\sampledb\dvdrental.tar
pg_restore: error: could not open input file "C:\sampledb\dvdrental.tar": No such file or directory
postgres@webonise:/usr/lib/postgresql/13/bin$ pg_restore -U postgres -d dvdrental dvdrental.tar
pg_restore: error: could not open input file "dvdrental.tar": No such file or directory
postgres@webonise:/usr/lib/postgresql/13/bin$ pg_restore -U postgres -d dvdrental desktop\dvdrental.tar
pg_restore: error: could not open input file "desktop\dvdrental.tar": No such file or directory
postgres@webonise:/usr/lib/postgresql/13/bin$ psql
psql (13.4 (Ubuntu 13.4-1.pgdg20.04+1))
Type "help" for help.

postgres=# \q
postgres@webonise:/usr/lib/postgresql/13/bin$ pg_restore --dbname=dvdrental --verbose dvdrental.tar
pg_restore: error: could not open input file "dvdrental.tar": No such file or directory
postgres@webonise:/usr/lib/postgresql/13/bin$ pg_restore --dbname=dvdrental --verbose dvdrental_backup.tar
pg_restore: error: could not open input file "dvdrental_backup.tar": No such file or directory
postgres@webonise:/usr/lib/postgresql/13/bin$ cd /u01
-bash: cd: /u01: No such file or directory
postgres@webonise:/usr/lib/postgresql/13/bin$ cd /u01
-bash: cd: /u01: No such file or directory
postgres@webonise:/usr/lib/postgresql/13/bin$ cd $HOME
postgres@webonise:~$ pwd
/var/lib/postgresql
postgres@webonise:~$ cd C:\
> ^C
postgres@webonise:~$ pwd
/var/lib/postgresql
postgres@webonise:~$ cd /
postgres@webonise:~$ pwd
/
postgres@webonise:~$ ls
```

Activities Terminal Sep 14 18:16 webonise@webonise: ~

```
postgres=# \q
postgres@webonise:/usr/lib/postgresql/13/bin$ pg_restore --dbname=dvrental --verbose dvrental.tar
pg_restore: error: could not open input file "dvrental.tar": No such file or directory
postgres@webonise:/usr/lib/postgresql/13/bin$ pg_restore --dbname=dvrental --verbose dvrental_backup.tar
pg_restore: error: could not open input file "dvrental_backup.tar": No such file or directory
postgres@webonise:/usr/lib/postgresql/13/bin$ cd /u01
-bash: cd: /u01: No such file or directory
postgres@webonise:/usr/lib/postgresql/13/bin$ cd /u01
-bash: cd: /u01: No such file or directory
postgres@webonise:/usr/lib/postgresql/13/bin$ cd $HOME
postgres@webonise:~$ pwd
/var/lib/postgresql
postgres@webonise:~$ cd C:\
> ^C
postgres@webonise:~$ pwd
/var/lib/postgresql
postgres@webonise:~$ cd /
postgres@webonise:~$ pwd
/
postgres@webonise:/$ dir
backup boot dev home lib32 libx32 media opt root sbin srv tmp var
bin cdrom etc lib lib64 lost+found mnt proc run snap sys usr
postgres@webonise:/$ cd home
postgres@webonise:/home$ dir
webonise
postgres@webonise:/home$ cd webonise
postgres@webonise:/home/webonise$ pwd
/home/webonise
postgres@webonise:/home/webonise$ dir
3055.dat 3061.dat 3065.dat 3071.dat 3077.dat Desktop dvrental_backup.tar Public Templates Videos
3057.dat 3062.dat 3067.dat 3073.dat 3079.dat Documents Music restore.sql test_db
3059.dat 3063.dat 3069.dat 3075.dat 3081.dat Downloads Pictures snap toc.dat
postgres@webonise:/home/webonise$ cd /usr/lib/postgresql/13/bin
postgres@webonise:/usr/lib/postgresql/13/bin$ pg_restore --dbname=dvrental --verbose /home/webonise/dvrental_backup.tar
pg_restore: connecting to database for restore
pg_restore: creating TYPE "public.mpaa_rating"
pg_restore: creating DOMAIN "public.year"
```

Activities Terminal Sep 14 18:18 webonise@webonise: ~

```
postgres@webonise:/home/webonise$ cd /usr/lib/postgresql/13/bin
postgres@webonise:/usr/lib/postgresql/13/bin$ pg_restore --dbname=dvrental --verbose /home/webonise/dvrental_backup.tar
pg_restore: connecting to database for restore
pg_restore: creating TYPE "public.mpaa_rating"
pg_restore: creating DOMAIN "public.year"
pg_restore: creating FUNCTION "public._group_concat(text, text)"
pg_restore: creating FUNCTION "public.film_in_stock(integer, integer)"
pg_restore: creating FUNCTION "public.film_not_in_stock(integer, integer)"
pg_restore: creating FUNCTION "public.get_customer_balance(integer, timestamp without time zone)"
pg_restore: creating FUNCTION "public.inventory_held_by_customer(integer)"
pg_restore: creating FUNCTION "public.inventory_in_stock(integer)"
pg_restore: creating FUNCTION "public.last_day(timestamp without time zone)"
pg_restore: creating FUNCTION "public.last_updated()"
pg_restore: creating SEQUENCE "public.customer_customer_id_seq"
pg_restore: creating TABLE "public.customer"
pg_restore: creating FUNCTION "public.rewards_report(integer, numeric)"
pg_restore: creating AGGREGATE "public.group_concat(text)"
pg_restore: creating SEQUENCE "public.actor_actor_id_seq"
pg_restore: creating TABLE "public.actor"
pg_restore: creating SEQUENCE "public.category_category_id_seq"
pg_restore: creating TABLE "public.category"
pg_restore: creating SEQUENCE "public.film_film_id_seq"
pg_restore: creating TABLE "public.film"
pg_restore: creating TABLE "public.film_actor"
pg_restore: creating TABLE "public.film_category"
pg_restore: creating VIEW "public.actor_info"
pg_restore: creating SEQUENCE "public.address_address_id_seq"
pg_restore: creating TABLE "public.address"
pg_restore: creating SEQUENCE "public.city_city_id_seq"
pg_restore: creating TABLE "public.city"
pg_restore: creating SEQUENCE "public.country_country_id_seq"
pg_restore: creating TABLE "public.country"
pg_restore: creating VIEW "public.customer_list"
pg_restore: creating VIEW "public.film_list"
pg_restore: creating SEQUENCE "public.inventory_inventory_id_seq"
pg_restore: creating TABLE "public.inventory"
pg_restore: creating SEQUENCE "public.language_language_id_seq"
pg_restore: creating TABLE "public.language"
pg_restore: creating VIEW "public.movie_genre"
pg_restore: creating SEQUENCE "public.movie_genre_id_seq"
pg_restore: creating TABLE "public.movie_genre"
pg_restore: creating SEQUENCE "public.role_role_id_seq"
pg_restore: creating TABLE "public.role"
pg_restore: creating SEQUENCE "public.staff_staff_id_seq"
pg_restore: creating TABLE "public.staff"
pg_restore: creating SEQUENCE "public.store_store_id_seq"
pg_restore: creating TABLE "public.store"
```

```
Activities Terminal Sep 14 18:18 webonise@webonise: ~
pg_restore: creating TABLE "public.tilm_category"
pg_restore: creating VIEW "public.actor_info"
pg_restore: creating SEQUENCE "public.address_address_id_seq"
pg_restore: creating TABLE "public.address"
pg_restore: creating SEQUENCE "public.city_city_id_seq"
pg_restore: creating TABLE "public.city"
pg_restore: creating SEQUENCE "public.country_country_id_seq"
pg_restore: creating TABLE "public.country"
pg_restore: creating VIEW "public.customer_list"
pg_restore: creating VIEW "public.film_list"
pg_restore: creating SEQUENCE "public.inventory_inventory_id_seq"
pg_restore: creating TABLE "public.inventory"
pg_restore: creating SEQUENCE "public.language_language_id_seq"
pg_restore: creating TABLE "public.language"
pg_restore: creating VIEW "public.nicer_but_slower_film_list"
pg_restore: creating SEQUENCE "public.payment_payment_id_seq"
pg_restore: creating TABLE "public.payment"
pg_restore: creating SEQUENCE "public.rental_rental_id_seq"
pg_restore: creating TABLE "public.rental"
pg_restore: creating VIEW "public.sales_by_film_category"
pg_restore: creating SEQUENCE "public.staff_staff_id_seq"
pg_restore: creating TABLE "public.staff"
pg_restore: creating SEQUENCE "public.store_store_id_seq"
pg_restore: creating TABLE "public.store"
pg_restore: creating VIEW "public.sales_by_store"
pg_restore: creating VIEW "public.staff_list"
pg_restore: processing data for table "public.actor"
pg_restore: processing data for table "public.address"
pg_restore: processing data for table "public.category"
pg_restore: processing data for table "public.city"
pg_restore: processing data for table "public.country"
pg_restore: processing data for table "public.customer"
pg_restore: processing data for table "public.film"
pg_restore: processing data for table "public.film_actor"
pg_restore: processing data for table "public.film_category"
pg_restore: processing data for table "public.inventory"
pg_restore: processing data for table "public.language"
pg_restore: processing data for table "public.payment"
pg_restore: processing data for table "public.rental"
pg_restore: processing data for table "public.staff"
pg_restore: processing data for table "public.store"
pg_restore: executing SEQUENCE SET actor_actor_id_seq
pg_restore: executing SEQUENCE SET address_address_id_seq
pg_restore: executing SEQUENCE SET category_category_id_seq
pg_restore: executing SEQUENCE SET city_city_id_seq
pg_restore: executing SEQUENCE SET country_country_id_seq
pg_restore: executing SEQUENCE SET customer_customer_id_seq
pg_restore: executing SEQUENCE SET film_film_id_seq
pg_restore: executing SEQUENCE SET inventory_inventory_id_seq
pg_restore: executing SEQUENCE SET language_language_id_seq
pg_restore: executing SEQUENCE SET payment_payment_id_seq
pg_restore: executing SEQUENCE SET rental_rental_id_seq
pg_restore: executing SEQUENCE SET staff_staff_id_seq
pg_restore: executing SEQUENCE SET store_store_id_seq
pg_restore: creating CONSTRAINT "public.actor_actor_pkey"
pg_restore: creating CONSTRAINT "public.address_address_pkey"
pg_restore: creating CONSTRAINT "public.category_category_pkey"
pg_restore: creating CONSTRAINT "public.city_city_pkey"
```

```
Activities Terminal Sep 14 18:18 webonise@webonise: ~
pg_restore: creating SEQUENCE "public.staff_staff_id_seq"
pg_restore: creating TABLE "public.staff"
pg_restore: creating SEQUENCE "public.store_store_id_seq"
pg_restore: creating TABLE "public.store"
pg_restore: creating VIEW "public.sales_by_store"
pg_restore: creating VIEW "public.staff_list"
pg_restore: processing data for table "public.actor"
pg_restore: processing data for table "public.address"
pg_restore: processing data for table "public.category"
pg_restore: processing data for table "public.city"
pg_restore: processing data for table "public.country"
pg_restore: processing data for table "public.customer"
pg_restore: processing data for table "public.film"
pg_restore: processing data for table "public.film_actor"
pg_restore: processing data for table "public.film_category"
pg_restore: processing data for table "public.inventory"
pg_restore: processing data for table "public.language"
pg_restore: processing data for table "public.payment"
pg_restore: processing data for table "public.rental"
pg_restore: processing data for table "public.staff"
pg_restore: processing data for table "public.store"
pg_restore: executing SEQUENCE SET actor_actor_id_seq
pg_restore: executing SEQUENCE SET address_address_id_seq
pg_restore: executing SEQUENCE SET category_category_id_seq
pg_restore: executing SEQUENCE SET city_city_id_seq
pg_restore: executing SEQUENCE SET country_country_id_seq
pg_restore: executing SEQUENCE SET customer_customer_id_seq
pg_restore: executing SEQUENCE SET film_film_id_seq
pg_restore: executing SEQUENCE SET inventory_inventory_id_seq
pg_restore: executing SEQUENCE SET language_language_id_seq
pg_restore: executing SEQUENCE SET payment_payment_id_seq
pg_restore: executing SEQUENCE SET rental_rental_id_seq
pg_restore: executing SEQUENCE SET staff_staff_id_seq
pg_restore: executing SEQUENCE SET store_store_id_seq
pg_restore: creating CONSTRAINT "public.actor_actor_pkey"
pg_restore: creating CONSTRAINT "public.address_address_pkey"
pg_restore: creating CONSTRAINT "public.category_category_pkey"
pg_restore: creating CONSTRAINT "public.city_city_pkey"
```

```
Activities Terminal Sep 14 18:18 webonise@webonise: ~ pg_restore: creating CONSTRAINT "public.country_country_pkey" pg_restore: creating CONSTRAINT "public.customer_customer_pkey" pg_restore: creating CONSTRAINT "public.film_actor_film_actor_pkey" pg_restore: creating CONSTRAINT "public.film_category_film_category_pkey" pg_restore: creating CONSTRAINT "public.film_film_pkey" pg_restore: creating CONSTRAINT "public.inventory_inventory_pkey" pg_restore: creating CONSTRAINT "public.language_language_pkey" pg_restore: creating CONSTRAINT "public.payment_payment_pkey" pg_restore: creating CONSTRAINT "public.rental_rental_pkey" pg_restore: creating CONSTRAINT "public.staff_staff_pkey" pg_restore: creating CONSTRAINT "public.store_store_pkey" pg_restore: creating INDEX "public.idx_film_fulltext_idx" pg_restore: creating INDEX "public.idx_actor_last_name" pg_restore: creating INDEX "public.idx_fk_address_id" pg_restore: creating INDEX "public.idx_fk_city_id" pg_restore: creating INDEX "public.idx_fk_country_id" pg_restore: creating INDEX "public.idx_fk_customer_id" pg_restore: creating INDEX "public.idx_fk_film_id" pg_restore: creating INDEX "public.idx_fk_inventory_id" pg_restore: creating INDEX "public.idx_fk_language_id" pg_restore: creating INDEX "public.idx_fk_rental_id" pg_restore: creating INDEX "public.idx_fk_staff_id" pg_restore: creating INDEX "public.idx_fk_store_id" pg_restore: creating INDEX "public.idx_last_name" pg_restore: creating INDEX "public.idx_store_id_film_id" pg_restore: creating INDEX "public.idx_title" pg_restore: creating INDEX "public.idx_unq_manager_staff_id" pg_restore: creating INDEX "public.idx_unq_rental_rental_date_inventory_id_customer_id" pg_restore: creating TRIGGER "public.film_film_fulltext_trigger" pg_restore: creating TRIGGER "public.actor_last_updated" pg_restore: creating TRIGGER "public.address_last_updated" pg_restore: creating TRIGGER "public.category_last_updated" pg_restore: creating TRIGGER "public.city_last_updated" pg_restore: creating TRIGGER "public.country_last_updated" pg_restore: creating TRIGGER "public.customer_last_updated" pg_restore: creating TRIGGER "public.film_last_updated" pg_restore: creating TRIGGER "public.film_actor_last_updated" pg_restore: creating TRIGGER "public.film_category_last_updated"
```

```
Activities Terminal Sep 14 18:19
webonise@webonise: ~
pg_restore: creating INDEX "public.idx_store_id_film_id"
pg_restore: creating INDEX "public.idx_title"
pg_restore: creating INDEX "public.idx_unq_manager_staff_id"
pg_restore: creating INDEX "public.idx_unq_rental_rental_date_inventory_id_customer_id"
pg_restore: creating TRIGGER "public.film_film_fulltext_trigger"
pg_restore: creating TRIGGER "public.actor_last_updated"
pg_restore: creating TRIGGER "public.address_last_updated"
pg_restore: creating TRIGGER "public.category_last_updated"
pg_restore: creating TRIGGER "public.city_last_updated"
pg_restore: creating TRIGGER "public.country_last_updated"
pg_restore: creating TRIGGER "public.customer_last_updated"
pg_restore: creating TRIGGER "public.film_last_updated"
pg_restore: creating TRIGGER "public.film_actor_last_updated"
pg_restore: creating TRIGGER "public.film_category_last_updated"
pg_restore: creating TRIGGER "public.inventory_last_updated"
pg_restore: creating TRIGGER "public.language_last_updated"
pg_restore: creating TRIGGER "public.rental_last_updated"
pg_restore: creating TRIGGER "public.staff_last_updated"
pg_restore: creating TRIGGER "public.store_last_updated"
pg_restore: creating FK CONSTRAINT "public.customer_customer_address_id_fkey"
pg_restore: creating FK CONSTRAINT "public.film_actor_film_actor_actor_id_fkey"
pg_restore: creating FK CONSTRAINT "public.film_actor_film_actor_film_id_fkey"
pg_restore: creating FK CONSTRAINT "public.film_category_film_category_category_id_fkey"
pg_restore: creating FK CONSTRAINT "public.film_film_language_id_fkey"
pg_restore: creating FK CONSTRAINT "public.address_fk_address_city"
pg_restore: creating FK CONSTRAINT "public.city_fk_city"
pg_restore: creating FK CONSTRAINT "public.inventory_inventory_film_id_fkey"
pg_restore: creating FK CONSTRAINT "public.payment_payment_customer_id_fkey"
pg_restore: creating FK CONSTRAINT "public.payment_payment_rental_id_fkey"
pg_restore: creating FK CONSTRAINT "public.payment_payment_staff_id_fkey"
pg_restore: creating FK CONSTRAINT "public.rental_rental_customer_id_fkey"
pg_restore: creating FK CONSTRAINT "public.rental_rental_inventory_id_fkey"
pg_restore: creating FK CONSTRAINT "public.rental_rental_staff_id_fkey"
pg_restore: creating FK CONSTRAINT "public.staff_staff_address_id_fkey"
pg_restore: creating FK CONSTRAINT "public.store_store_address_id_fkey"
pg_restore: creating FK CONSTRAINT "public.store_store_manager_staff_id_fkey"
postgreSQL@webonise:/usr/lib/postgresql/13/bin$
```

```
webonise@webonise:~$ sudo su - postgres
```

```
[sudo] password for webonise:
```

```
postgres@webonise:~$ psql
```

```
psql (13.4 (Ubuntu 13.4-1.pgdg20.04+1))
```

```
Type "help" for help.
```

```
postgres=#
```

```
postgres=# \c dvdrental
```

```
You are now connected to database "dvdrental" as user "postgres".
```

```
dvdrental=# conninfo
```

```
dvdrental-# \dt+
```

List of relations

Schema	Name	Type	Owner	Persistence	Size	Description
public	actor	table	postgres	permanent	40 kB	
public	address	table	postgres	permanent	88 kB	
public	category	table	postgres	permanent	8192 bytes	
public	city	table	postgres	permanent	64 kB	
public	country	table	postgres	permanent	8192 bytes	
public	customer	table	postgres	permanent	96 kB	
public	film	table	postgres	permanent	464 kB	
public	film_actor	table	postgres	permanent	272 kB	
public	film_category	table	postgres	permanent	72 kB	
public	inventory	table	postgres	permanent	232 kB	
public	language	table	postgres	permanent	8192 bytes	
public	payment	table	postgres	permanent	896 kB	
public	rental	table	postgres	permanent	1232 kB	
public	staff	table	postgres	permanent	16 kB	
public	store	table	postgres	permanent	8192 bytes	

(15 rows)

```
dvdrental-#
```

Activities Terminal ▾ Sep 14 18:26

```
webonise@webonise:~$ sudo su - postgres
[sudo] password for webonise:
postgres@webonise:~$ psql
psql (13.4 (Ubuntu 13.4-1.pgdg20.04+1))
Type "help" for help.

postgres=# \c dvdrental
You are now connected to database "dvdrental" as user "postgres".
dvdrental=# \conninfo
dvdrental-# \dt+
           List of relations
 Schema |   Name    | Type  | Owner | Persistence | Size | Description
-----+-----+-----+-----+-----+-----+-----+
 public | actor    | table | postgres | permanent | 40 kB
 public | address  | table | postgres | permanent | 88 kB
 public | category | table | postgres | permanent | 8192 bytes
 public | city     | table | postgres | permanent | 64 kB
 public | country  | table | postgres | permanent | 8192 bytes
 public | customer | table | postgres | permanent | 96 kB
 public | film     | table | postgres | permanent | 464 kB
 public | film_actor | table | postgres | permanent | 272 kB
 public | film_category | table | postgres | permanent | 72 kB
 public | inventory | table | postgres | permanent | 232 kB
 public | language  | table | postgres | permanent | 8192 bytes
 public | payment   | table | postgres | permanent | 896 kB
 public | rental    | table | postgres | permanent | 1232 kB
 public | staff     | table | postgres | permanent | 16 kB
 public | store     | table | postgres | permanent | 8192 bytes
(15 rows)
dvdrental-#
```

Activities Terminal ▾ Sep 14 19:26

```
The following additional packages will be installed:
  binfmt-support
The following NEW packages will be installed:
  binfmt-support ksh
0 upgraded, 2 newly installed, 0 to remove and 23 not upgraded.
Need to get 856 kB of archives.
After this operation, 3,046 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://in.archive.ubuntu.com/ubuntu focal/universe amd64 binfmt-support amd64 2.2.0-2 [58.2 kB]
Get:2 http://in.archive.ubuntu.com/ubuntu focal/universe amd64 ksh amd64 2020.0.0-5 [798 kB]
Fetched 856 kB in 0s (5,909 kB/s)
Selecting previously unselected package binfmt-support.
(Reading database ... 197405 files and directories currently installed.)
Preparing to unpack .../binfmt-support_2.2.0-2_amd64.deb ...
Unpacking binfmt-support (2.2.0-2) ...
Selecting previously unselected package ksh.
Preparing to unpack .../ksh_2020.0.0-5_amd64.deb ...
Unpacking ksh (2020.0.0-5) ...
Setting up binfmt-support (2.2.0-2) ...
Created symlink /etc/systemd/system/multi-user.target.wants/binfmt-support.service → /lib/systemd/system/binfmt-support.service.
Setting up ksh (2020.0.0-5) ...
update-alternatives: using /usr/bin/ksh2020 to provide /bin/ksh (ksh) in auto mode
update-alternatives: using /usr/bin/shcomp2020 to provide /usr/bin/shcomp (shcomp) in auto mode
Processing triggers for mime-support (3.64ubuntu1) ...
Processing triggers for gnome-menus (3.36.0-1ubuntu1) ...
Processing triggers for systemd (245.4-4ubuntu3.11) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for desktop-file-utils (0.24-1ubuntu3) ...
webonise@webonise:~$ ksh dbbackup.sh
dbbackup.sh: line 5: postgres: not found
dbbackup.sh: line 6: dvdrental: not found
Pulling Database dvdrental
/usr/lib/postgresql/13/bin/pg_dump: option requires an argument -- 'd'
Try "pg_dump --help" for more information.
Done
Clearing old backups
Clearing Done
webonise@webonise:~$
```

Activities Terminal Sep 14 00:48 webonise@webonise: ~

```
webonise@webonise:~$ wget https://github.com/arinpro/postgres-sample-db-dvdrental/raw/master/dvrental_backup.tar
--2021-09-13 15:25:38-- https://github.com/arinpro/postgres-sample-db-dvdrental/raw/master/dvrental_backup.tar
Resolving github.com (github.com)... 13.234.176.102
Connecting to github.com (github.com)|13.234.176.102|:443... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://raw.githubusercontent.com/arinpro/postgres-sample-db-dvdrental/master/dvrental_backup.tar [following]
--2021-09-13 15:25:44-- https://raw.githubusercontent.com/arinpro/postgres-sample-db-dvdrental/master/dvrental_backup.tar
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.111.133, 185.199.110.133, 185.199.108.133, ...
Connecting to raw.githubusercontent.com (raw.githubusercontent.com)|185.199.111.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 2835456 (2.7M) [application/octet-stream]
Saving to: 'dvrental_backup.tar'

dvrental_backup.tar 100%[=====] 2.70M 9.19MB/s in 0.3s

2021-09-13 15:25:45 (9.19 MB/s) - 'dvrental_backup.tar' saved [2835456/2835456]

webonise@webonise:~$ createdb dvrental
createdb: error: could not connect to database template1: FATAL:  role "webonise" does not exist
webonise@webonise:~$ psql
psql: error: FATAL: role "webonise" does not exist
webonise@webonise:~$ sudo psql < dvrental
bash: dvrental: No such file or directory
webonise@webonise:~$ pwd
/home/webonise
webonise@webonise:~$ ls
Desktop Documents Downloads dvrental_backup.tar Music Pictures Public snap Templates test_db Videos
webonise@webonise:~$ cd dvrental_backup.tar
bash: cd: dvrental_backup.tar: Not a directory
webonise@webonise:~$ tar -xvf dvrental_backup.tar
toc.dat
3057.dat
3065.dat
3059.dat
3067.dat
3069.dat
3055.dat
3061.dat
3062.dat
```

Activities Terminal Sep 14 00:49 webonise@webonise: ~

```
webonise@webonise:~$ cd dvrental_backup.tar
bash: cd: dvrental_backup.tar: Not a directory
webonise@webonise:~$ tar -xvf dvrental_backup.tar
toc.dat
3057.dat
3065.dat
3059.dat
3067.dat
3069.dat
3055.dat
3061.dat
3062.dat
3063.dat
3071.dat
3073.dat
3075.dat
3077.dat
3079.dat
3081.dat
restore.sql
webonise@webonise:~$ create db dvrental
Command 'create' not found, did you mean:
  command 'pcreate' from deb pbuilder-scripts (22)
Try: sudo apt install <deb name>
webonise@webonise:~$ sudo psql < create db dvrental
bash: create: No such file or directory
webonise@webonise:~$ psql
psql: error: FATAL: role "webonise" does not exist
webonise@webonise:~$ postgres=# CREATE DATABASE dvrental
CREATE: command not found
webonise@webonise:~$ psql dbname < restore.sql
psql: error: FATAL: role "webonise" does not exist
webonise@webonise:~$ create user webonise superuser
```

Activities Terminal Sep 14 00:49 webonise@webonise: ~

```
Try: sudo apt install <deb name>

webonise@webonise:~$ sudo psql < create db dvdrental
bash: create: No such file or directory
webonise@webonise:~$ psql
psql: error: FATAL:  role "webonise" does not exist
webonise@webonise:~$ postgres=# CREATE DATABASE dvdrental
CREATE: command not found
webonise@webonise:~$ psql dbname < restore.sql
psql: error: FATAL:  role "webonise" does not exist
webonise@webonise:~$ create user webonise superuser
Command 'create' not found, did you mean:
  command 'pcreate' from deb pbuilder-scripts (22)

Try: sudo apt install <deb name>

webonise@webonise:~$ psql < create user webonise superuser
bash: create: No such file or directory
webonise@webonise:~$ psql < createuser webonise superuser
bash: createuser: No such file or directory
webonise@webonise:~$ sudo -u postgres createuser --superuser webonise
[sudo] password for webonise:
webonise@webonise:~$ psql dbname < restore.sql
psql: error: FATAL:  database "dbname" does not exist
webonise@webonise:~$ pg_dump restore > restore.sql
pg_dump: error: connection to database "restore" failed: FATAL:  database "restore" does not exist
webonise@webonise:~$ la
3055.dat 3063.dat 3063.dat .bash_history Desktop .local .profile .sudo_as_admin_successful .wget-hsts
3057.dat 3065.dat 3075.dat .bash_logout Documents .mozilla Public Templates .zoom
3059.dat 3067.dat 3077.dat .bashrc Downloads Music restore.sql test_db
3061.dat 3069.dat 3079.dat .cache dvdrental_backup.tar Pictures snap toc.dat
3062.dat 3071.dat .config .gnupg .pkt .ssh Videos
webonise@webonise:~$ ls
3055.dat 3061.dat 3065.dat 3071.dat 3077.dat Desktop dvdrental_backup.tar Public Templates Videos
3057.dat 3062.dat 3067.dat 3073.dat 3079.dat Documents Music restore.sql test_db
3059.dat 3063.dat 3069.dat 3075.dat 3081.dat Downloads Pictures snap toc.dat
```

Activities Terminal Sep 14 00:49 webonise@webonise: ~

```
command 'pcreate' from deb pbuilder-scripts (22)

Try: sudo apt install <deb name>

webonise@webonise:~$ psql < create user webonise superuser
bash: create: No such file or directory
webonise@webonise:~$ psql < createuser webonise superuser
bash: createuser: No such file or directory
webonise@webonise:~$ sudo -u postgres createuser --superuser webonise
[sudo] password for webonise:
webonise@webonise:~$ psql dbname < restore.sql
psql: error: FATAL:  database "dbname" does not exist
webonise@webonise:~$ pg_dump restore > restore.sql
pg_dump: error: connection to database "restore" failed: FATAL:  database "restore" does not exist
webonise@webonise:~$ la
3055.dat 3063.dat 3073.dat .bash_history Desktop .local .profile .sudo_as_admin_successful .wget-hsts
3057.dat 3065.dat 3075.dat .bash_logout Documents .mozilla Public Templates .zoom
3059.dat 3067.dat 3077.dat .bashrc Downloads Music restore.sql test_db
3061.dat 3069.dat 3079.dat .cache dvdrental_backup.tar Pictures snap toc.dat
3062.dat 3071.dat .config .gnupg .pkt .ssh Videos
webonise@webonise:~$ ls
3055.dat 3061.dat 3065.dat 3071.dat 3077.dat Desktop dvdrental_backup.tar Public Templates Videos
3057.dat 3062.dat 3067.dat 3073.dat 3079.dat Documents Music restore.sql test_db
3059.dat 3063.dat 3069.dat 3075.dat 3081.dat Downloads Pictures snap toc.dat
webonise@webonise:~$ cd devdvdrental_backup.tar
bash: cd: devdvdrental_backup.tar: No such file or directory
webonise@webonise:~$ cd dvdrental_backup.tar
bash: cd: dvdrental_backup.tar: Not a directory
webonise@webonise:~$ pg_dump restore > restore.sql
pg_dump: error: connection to database "restore" failed: FATAL:  database "restore" does not exist
webonise@webonise:~$ psql dbname < restore.sql
psql: error: FATAL:  database "dbname" does not exist
webonise@webonise:~$ postgres=# CREATE DATABASE dvdrental
CREATE: command not found
webonise@webonise:~$ sudo psql < create db dvdrental
bash: create: No such file or directory
webonise@webonise:~$
```