# College Of Engineering Trivandrum

# Application Software Development Lab



Abhishek Manoharan S5 CSE Roll No:2

TVE17CS002

Department of Computer Science July 30, 2019



#### Cycle 1

Exp No 0

#### POSTGRESQL INSTALLATION

#### 1 Step 1 Update system and install dependencies

It is recommended to update your current system packages if it is a new server instance.

sudo apt update && sudo apt -y upgrade

```
abhishek@abhishek:~$ sudo apt update && sudo apt -y upgrade
[sudo] password for abhishek:
Hit:1 http://in.archive.ubuntu.com/ubuntu bionic InRelease
Ign:2 http://dl.google.com/linux/chrome/deb stable InRelease
```

Figure 1: Update and Upgrade

```
Fetched 1,836 kB in 7s (279 kB/s)
Reading package lists... Done
Building dependency tree
Reading state information... Done
All packages are up to date.
Reading package lists... Done
Building dependency tree
Reading state information... Done
Calculating upgrade... Done
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.

abhishek@abhishek:~$
```

Figure 2: Update and upgrade

install vim and wget if not already installed.

sudo apt install -y wget vim

```
abhishek@abhishek:~$ sudo apt install -y wget vim
Reading package lists... Done
Building dependency tree
Reading state information... Done
vim is already the newest version (2:8.0.1453-1ubuntu1.1).
wget is already the newest version (1.19.4-1ubuntu2.2).
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
abhishek@abhishek:~$
```

Figure 3: Installing vim and wget

#### 2 Step 2: Add PostgreSQL 11 APT repository

Before adding repository content to your Ubuntu 18.04, We need to import the repository signing key:

wget-quiet-O-https://www.postgresql.org/media/keys/ACCC4CF8.asc--sudo apt-key add--

```
abhishek@abhishek:~$ wget --quiet -O - https://www.postgresql.org/media/keys/ACCC4CF8.asc | sudo apt-key add -
[sudo] password for abhishek:
OK
abhishek@abhishek:~$
```

Figure 4: Adding repo

After importing GPG key, add repository contents to your Ubuntu 18.04 system:

```
RELEASE=$(lsb_release -cs)
```

echo "deb http://apt.postgresql.org/pub/repos/apt/ \$RELEASE"-pgdg main — sudo tee /etc/apt/sources.list.d/pgdg.list

```
abhishek@abhishek:-$ RELEASE=$(lsb_release -cs)

abhishek@abhishek:-$ echo "deb http://apt.postgresql.org/pub/repos/apt/ ${RELEASE}"-pgdg main | sudo tee /etc/apt/sources.list.d/pgdg.list

deb http://apt.postgresql.org/pub/repos/apt/ bionic-pgdg main

abhishek@abhishek:-$

I
```

Figure 5: Adding repo content

Verify repository file contents cat /etc/apt/sources.list.d/pgdg.list

```
abhishek@abhishek:~$ cat /etc/apt/sources.list.d/pgdg.list
deb http://apt.postgresql.org/pub/repos/apt/ bionic-pgdg main
abhishek@abhishek:~$
```

Figure 6: Verifying repo content

## 3 Step 3: Install PostgreSQL 11 on Ubuntu 18.04

The last installation step is for PostgreSQL 11 packages. Run the following commands to install PostgreSQL 11 on Ubuntu 18.04

```
sudo apt update
```

sudo apt -y install postgresql-11

```
abhishek@abhishek:~$ sudo apt -y install postgresql-11
Reading package lists... Done
Building dependency tree
Reading state information... Done
postgresql-11 is already the newest version (11.4-1.pgdg18.04+1).
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
abhishek@abhishek:~$
```

Figure 7: Installing Postgres

## 4 Step 4: Set PostgreSQL admin user's password and do testing

Set a password for the default admin user sudo su - postgres psql -c "alter user postgres with password 'your password'"

```
abhishek@abhishek:~$ sudo su - postgres
postgres@abhishek:~$ psql -c "alter user postgres with password 'password'"
ALTER ROLE
postgres@abhishek:~$ psql -c "alter user asdlab with password 'password'"
ALTER ROLE
postgres@abhishek:~$
```

Figure 8: Setting Password

#### 5 Result

Successfully installed postgreSQL