College Of Engineering Trivandrum

# Application Software Development Lab

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July 30, 2019

**Cycle 1**

**Exp No 0**

<div align="center">

POSTGRESQL INSTALLATION

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# 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**



Figure 1: Update and Upgrade



Figure 2: Update and upgrade

**install vim and wget if not already installed.**

```
sudo apt install -y wget vim
```



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

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:~$
```
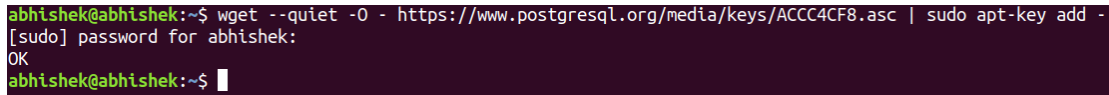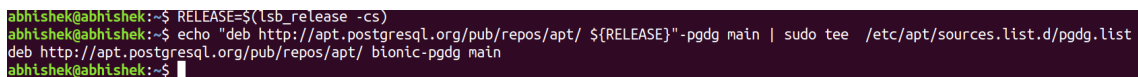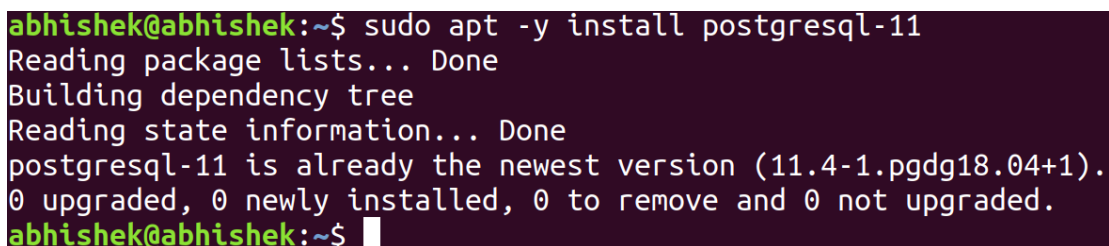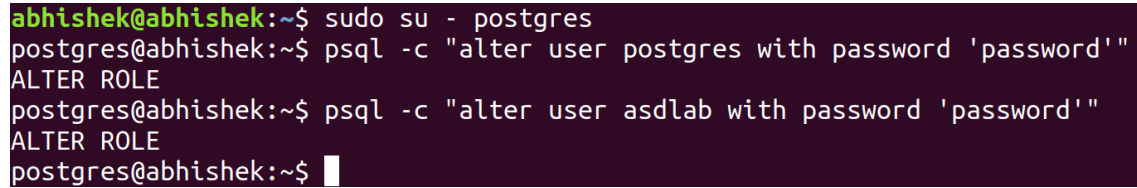
Figure 7: Installing Postgres

# 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'"**



Figure 8: Setting Password

# 5 Result

Successfully installed postgreSQL