

Software Engineering (CS301)
Software User Manual
BeyondBooks

Group 1
(Hackstreet Boys)

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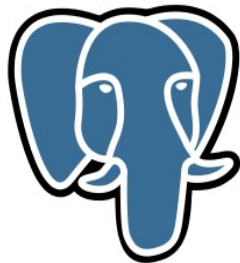


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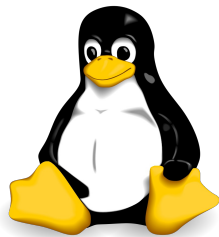


Instruction Manual

(5th semester)



Software Engineering Project



BeyondBooks



Course : Software Engineering
Instructor : Prof. Asim Banerjee

Abstract

This document instructs how to install and setup the server for the website and use this software. This project is part of the Software Engineering course(CS301/2) at Indian Institute of Information Technology, Vadodara.

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0.1 Introduction

As freshers, we wanted to have as many books as possible at minimum price. Now as third year students, we want to get rid of all the unnecessary books accumulated over this period of two years. To bring all the buyers and sellers under one roof we took up this project. Not only it will provide the means to buy and sell books and also a space for discussion regarding course related material. All the steps listed below are crucial for the software to run on your system. Not following any of these may lead to the software not working.

0.2 System Environment

- Development: Android SDK
- Database Management: PostgreSQL
- Server: Apache2

0.3 Setting Up a Local Web Server

The website executes on a web server running PHP. So before you start using website you need following programs(softwares) installed on computer/system :

- Apache2 web server
- PHP engine
- PostgreSQL database server
- pgAdminIII

Based on the platform, like if you are using **Linux** you have to follow the given procedures:

0.3.1 Installing Apache2 server

»Open Terminal(◊ Ctrl+Alt+T) and type the given commands:

```
sudo apt-get update
sudo apt-get install apache2
```

»How to Find your Server's IP address. You can run the following command to reveal your server's IP address:

```
ifconfig eth0 | grep inet | awk '{ print $2 }'
```

Note :- If you are using wireless then replace **eth0** with **wlan0**(your environment).

0.3.2 Install PHP

»Open Terminal and type the given command:

```
sudo apt-get install php5 libapache2-mod-php5 php5-mcrypt
```

»For PostgreSQL we have to install PHP module for PostgreSQL, for that type:

```
apt-cache search php5-
```

```
php5-pgsql - PostgreSQL module for php5
```

0.3.3 Install PostgreSQL and Setup Database Server

»»Open Terminal and type the given commands:

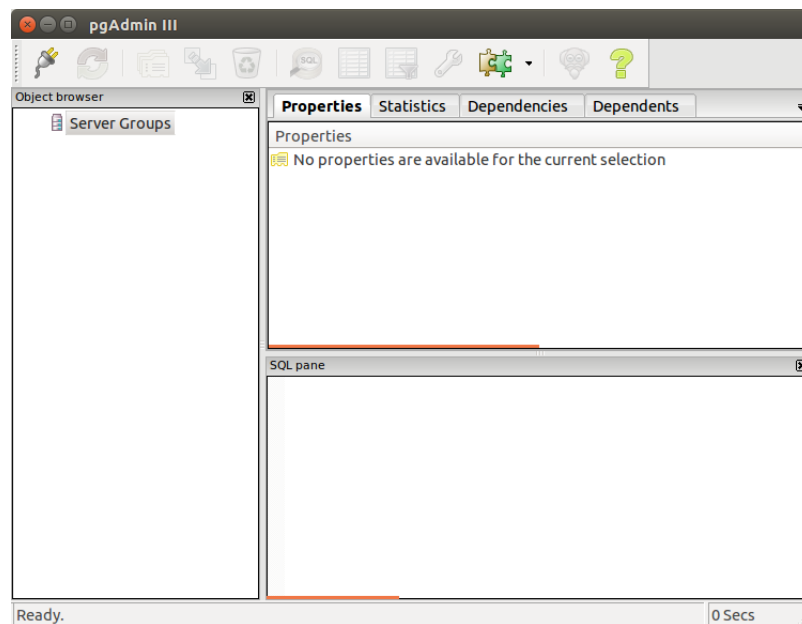
```
sudo apt-get update
sudo apt-get install postgresql postgresql-contrib
```

»»Now type following commands to install Administration tool **pgAdminIII**

```
sudo apt-get install postgresql postgresql-contrib phpPgAdmin
```

Setting up pgAdminIII

»»Open pgAdminIII tool

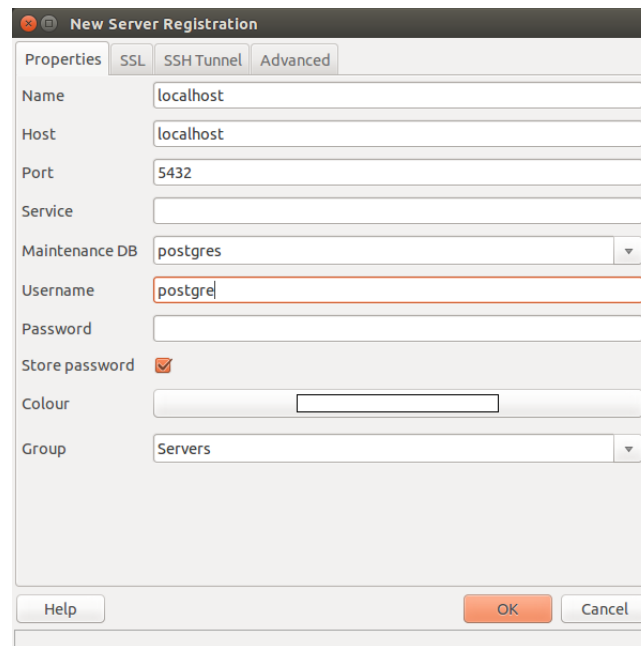


»»Click top-left icon



»»A window pops-out

»»Fill the entries accordingly



»»Once the server is setup then restore the backup file which is included in this software. »»Backup file will create the database and make all the entries which are required.

Running the script

- We will provide **backup file** for the database.
- In pgAdmin, click on the web server you just created.
- Right click on the Database heading, select New Database and name it TITV.
- Right click on this database, and select backup. Browse BeyondBooks folder and select **beyondbooks_db** file and click Restore.
- Now, copy the whole **BeyondBooks** folder in the `/var/www/html/....`
- Now, open terminal type in following commands: `sudo service apache2 start`
- If using the website on the same pc in which database is hosted, open web browser and type `localhost/BeyondBooks/web`.
- If on the different pc (Note - both pc must be connected to the same network), then find the IP address of the pc in which database is created using `ifconfig` command. After that, in the second pc, open `db_conn.php` file and in place of `localhost`, type the IP of the first pc. Follow the above steps.