

**MantisBT Install & User guide**

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## What is a bug tracking system?

## Bug tracking is the process of capturing, reporting, and managing data on bugs that occur in software (also called errors and exceptions). The goal is to maintain high product quality, using two types of services: task management systems and bug capturing tools.

## Nobody's perfect, and that goes for software too. Bugs and software errors have damaged many reputations and are responsible for massive costs both in lost revenue and hours wasted digging through logs. Better bug tracking could have prevented a great deal of heartache all around the world.

## From a development standpoint, bugs come with the territory, as software projects grow in features they also grow in complexity. The time taken to discover and fix them becomes crucial to the product’s stability and the whole business success.

## Why MantisBT?

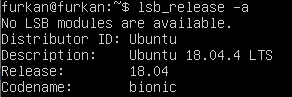
## 

## MantisBT is an open source issue tracker that provides a delicate balance between simplicity and power. Users are able to get started in minutes and start managing their projects while collaborating with their teammates and clients effectively.

## You can keep your team and clients updated with notifications on issue updates, resolution, or comments. In addition you can also customize the issue fields and notifications. It is clear and simple and easy to implement.

## Prerequisites

* An Ubuntu 18.04 operating system with minimal installation.

You can check it by entering the command: ***lsb\_release -a***

* A sudo user with root privileges.

## Install LAMP Server

Mantis requires **Apache2, PHP** and **Database Server** to be installed on your server.

## 2.1 Apache

## Install apache web server:

## *sudo apt install apache2 -y*

## Now let's check your apache service:

## *sudo systemctl status apache2*

## 2.2 PHP

## Mantis is written in PHP so you need to install PHP and other required modules in your system:

## 

* Mantis is written in PHP so you need to install PHP and other required modules in your system:

## *sudo apt install wget php php-cli php-fpm php-mysql php-zip php-gd php-mbstring php-curl php-xml php-pear php-bcmath*

## Check your php version:

## *php -v*

## 2.3 MariaDB

## Next, install the MariaDB server:

## *sudo apt install mariadb-server mariadb-client*

## Now, start MariaDB service and enable it to start at boot time. Then check your MariaDB service status:

## *sudo systemctl start mariadb*

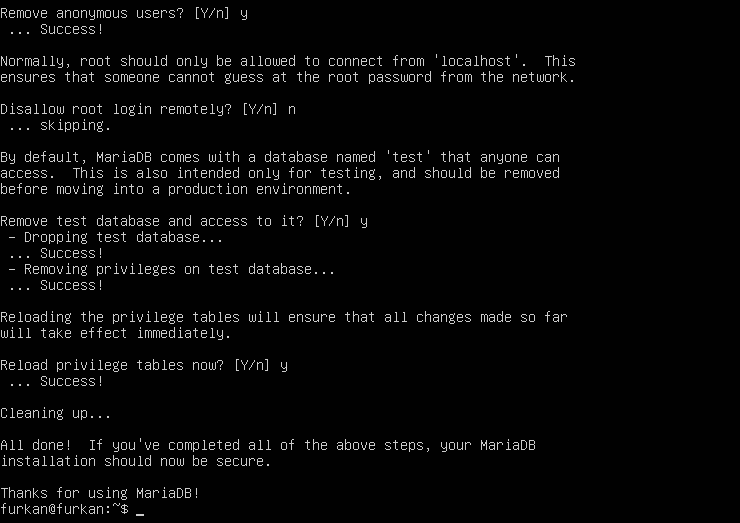
## *sudo systemctl enable mariadb*

## *sudo systemctl status mariadb*

* Next, secure MariaDB installation with the following command:

***sudo mysql\_secure\_installation***

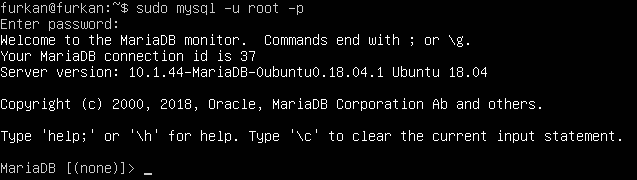
Answer all the questions as you can see below:

 *Set root password? [Y/n] Y  
 New password:  
 Re-enter new password:  
 Remove anonymous users? [Y/n] Y  
 Disallow root login remotely? [Y/n] Y  
 Remove test database and access to it? [Y/n] Y  
 Reload privilege tables now? [Y/n] Y*

* Your MariaDB installation is now secure.

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* Next, log into MariaDB console as shown below:

 ***sudo mysql -u root -p***

* Create a database for Mantis:

***MariaDB [(none)]> CREATE DATABASE mantisdb;***

* Next, create a user and password with the following command:

***MariaDB [(none)]>CREATE USER team02@'localhost' IDENTIFIED BY ‘team02’;***

* Then, grant privileges to the mantisdb database with the following command:

***MariaDB [(none)]>GRANT ALL PRIVILEGES ON mantisdb.\* TO 'furkan'@'localhost'***

***IDENTIFIED BY 'furkan' WITH GRANT OPTION;***

* Next, run following command to reload privileges table:

***MariaDB [(none)]>FLUSH PRIVILEGES;***

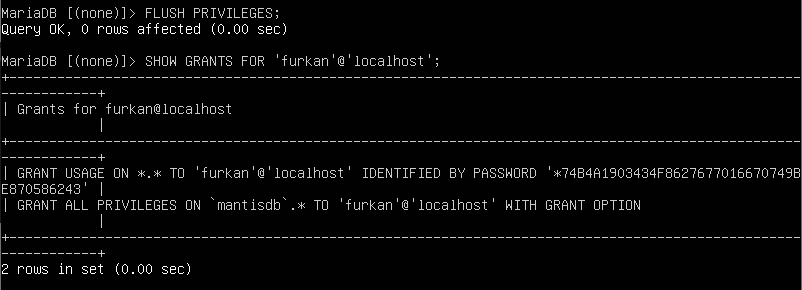
* Check your userlistSELE

***Mariadb [(none)]> SELECT User, Host FROM mysql.user;***



* Check grants of the user:

***Mariadb [(none)]> SHOW GRANTS FOR 'furkan'@'localhost';***



* Now, run exit from MariaDB console with the following command:

***MariaDB [(none)]>exit;***

## Install MantisBT

## You can download the latest version of the mantis from their official website. You can download it with the ‘wget’ command:

## *wget https://excellmedia.dl.sourceforge.net/project/mantisbt/mantis-stable/2.22.1/mantisbt-2.22.1.zip*

## After downloading Mantis BT, extract the downloaded file and move it to your apache web root directory using following commands:

## *unzip mantisbt-2.22.1.zip*

## 

## *sudo mv mantisbt-2.22.1 /var/www/html/mantis/*

## Set proper permissions for your mantis directory:

## *sudo chown -R www-data:www-data /var/www/html/mantis*

## Run following command to create an apache virtual host file for Mantis:

## *sudo vim /etc/apache2/sites-available/mantis.conf*

## Now add the following lines in the mantis.conf:

***<VirtualHost \*:80>  
    ServerAdmin admin@172.27.66.129   
    DocumentRoot "/var/www/html/mantis"  
    ServerName 172.27.66.129  
    ServerAlias 172.27.66.129  
    ErrorLog "/var/log/apache2/mantis-error\_log"  
    CustomLog "/var/log/apache2/mantis-access\_log" combined  
        <Directory "/var/www/html/mantis/">  
            DirectoryIndex index.php index.html  
            Options FollowSymLinks  
            AllowOverride All  
            Require all granted  
        </Directory>  
</VirtualHost>***

* Save and close the file. Then enable the virtual host with the following command:

## *sudo a2ensite mantis.conf*

* Finally, restart the apache service by running the following command.

## *sudo systemctl restart apache2*

## Connecting MantisBT

## Connect to your new Mantis system via:

## [*http://server\_ip\_or\_name/zabbix*](http://server_ip_or_name/zabbix)

## *(if you don’t remember your ip-address, just type ‘ip a’)*

## 

## Login MantisBT

## We were welcomed by the login page of the system.

## Default login for administrator:

## Username: administrator

## Password: root

## We changed it to:

## Username: administrator

## Password: ThePuppetMaster123

## You have successfully logged in to the system!

## 

## Create Users

## Administrators have access to create new user accounts. The steps to do that are:

## *Click ‘Manage’ on Main Menu.*

## *Click ‘Manage Users’.*

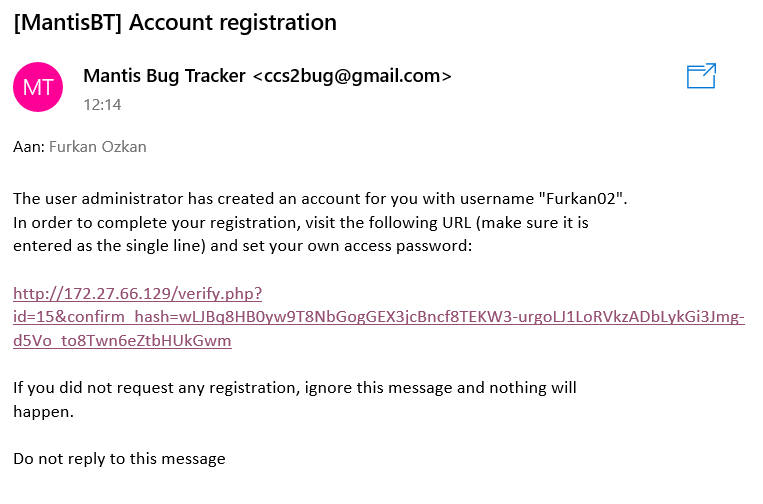
## *Click ‘Create New Account’ button.*

## *Enter user name, email address, access level. Other fields are optional.*

## *Click ‘Create Users’ button.*

## 

* You will receive a registration link, click on it:



* Set your password:

## Managing users (permissions & privileges)

## We have different types of user categories. Of course, the admin has all rights, he can manage and control all users. If you want to know who has which rights, follow these steps:

## *Click ‘Manage’ on Main Menu.*

## *Click ‘Manage Configuration’*

## *Click ‘Permissions Report’*

## The admin can control the permissions of each group:

## Create project

## To start, we must have a project where we can assign bugs. So follow these steps to create a new project:

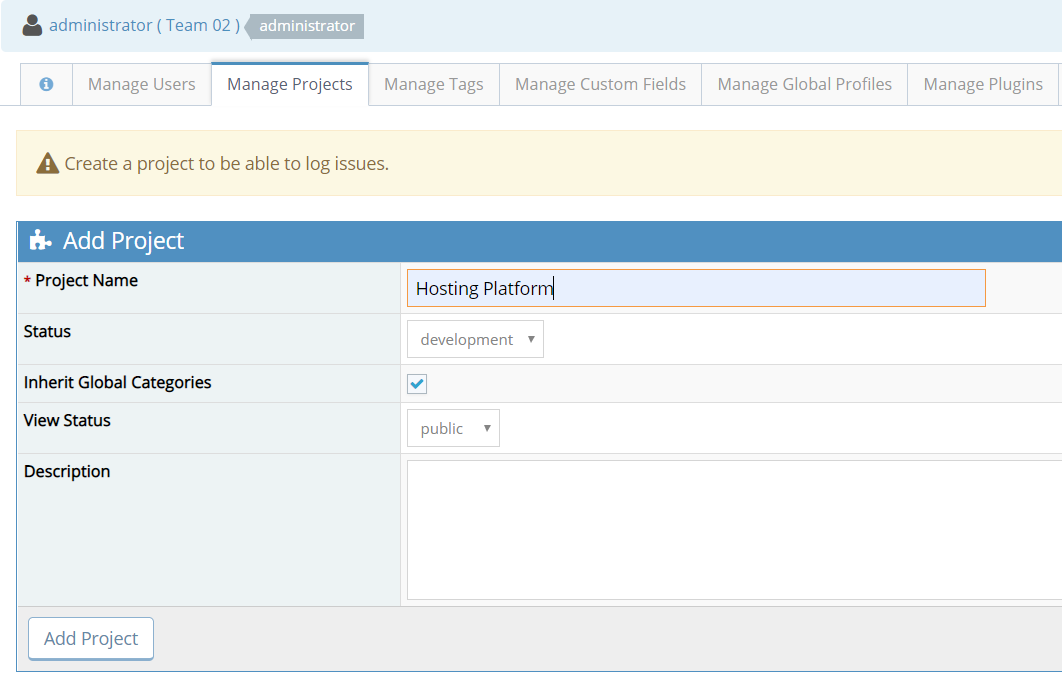
## *Click ‘Manage’ on Main Menu.*

## *Click ‘Manage projects’.*

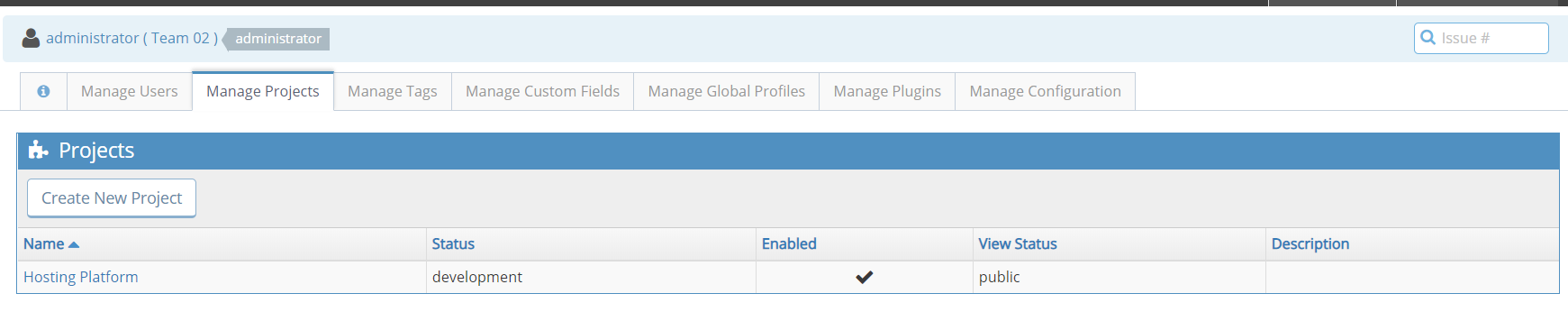
## *Click the ‘create new project’ button.*

## 

## *Enter a project name.*



* You have successfully created a new project!



## Create an issue

## After you created a new project, you can report your first issue by following these steps (creating an issue with as the admin):

## *Click ‘Report Issue’ on Main Menu.*

## *Enter the ‘category’ (where is the problem related to), ‘summary’ (a summery of the issue), ‘description’ (a description of the issue). The other fields are optional.*

## 

## After you have assigned an issue to a project you will automatically receive an email:

## 

## If you click on the link you will be redirected to the page with the details of the issue:

## Another user can see the issues from the ‘my view’ tab:

## 

## You change the status to whatever you’d like:

## 

## 

## Resources

## <https://www.youtube.com/watch?v=n0xy4ED51DI&t=455s>

## <https://support.mantishub.com/hc/en-us/articles/203574829-Creating-User-Accounts>

## <https://www.mantisbt.org/forums/viewtopic.php?t=26374>

## <https://mariadb.com/kb/en/show-databases/>

## <https://www.howtoforge.com/how-to-install-and-configure-mantis-bug-tracker-on-ubuntu/>

## <https://computingforgeeks.com/how-to-install-and-configure-mantis-bug-tracker-on-ubuntu-18-04/>

* <https://airbrake.io/what-is-bug-tracking>
* <https://www.mantisbt.org/>
* <https://www.linuxlinks.com/Bugzilla/>