

Ubuntu 16.04 安装 Gibbon 开源网络教育管理系统

Gibbon 是一个免费的开源网络教育管理系统，可用于解决教师和学生日常问题。Gibbon 是非常灵活，可扩展和可应用的应用程序，具有许多功能，包括在线申请表，信使，计划员，外部评估等等。Gibbon 帮助教师轻松了解每个学生在每个学科中的起伏，并以一切可能的方式帮助学生。Gibbon 有许多模块用于扩展不同类型的学校通常需要的功能。您可以根据您的要求轻松打开或关闭每个模块。

在本教程中，我们将在 Ubuntu 16.04 服务器上逐步安装 Gibbon。

1.1 要求

- 您的服务器已经安装 Ubuntu 16.04 系统。
- 您的服务器上的静态 IP 地址设置为 192.168.15.189
- 您的服务器上具有 sudo 用户设置的非 root 用户。

1.2 更新基本系统

在安装 Gibbon 之前，建议使用最新的稳定版本来更新系统。您可以通过运行以下命令来执行此操作：

```
sudo apt-get update -y
sudo apt-get upgrade -y
```

一旦您的系统更新，请重新启动系统并使用 sudo 用户登录。

1.3 安装 Apache Web Server

Apache Web 服务器需要安装 Gibbon。您可以通过运行以下命令轻松安装 Apache 和其他必需的库：

```
sudo apt-get install apache2 apache2-bin libapache2-mod-php7.0 -y
```

安装 Apache Web 服务器后，启动 Apache 服务，并使用以下命令启动使它在启动时启动：

```
sudo systemctl start apache2
sudo systemctl enable apache2
```

完成后，您可以继续安装 PHP。

1.4 安装 PHP

Gibbon 还需要 PHP 和其他 PHP 库。您可以通过运行以下命令来安装它们：

```
sudo apt-get install php7.0 php7.0-mcrypt php7.0-curl php7.0-gd php7.0-json php7.0-mysql php7.0-xml php7.0-zip -y
```

安装 PHP 后，您将需要调整 PHP 设置。您可以通过编辑 php.ini 文件来执行此操作：

```
sudo nano /etc/php/7.0/cli/php.ini
```

进行以下更改：

```
file_uploads = On
allow_url_fopen = On
display_errors = Off
error_reporting = E_ALL & ~E_NOTICE
```

```
register_globals = off
magic_quotes_gpc = Off
set max_input_vars = 4000
```

完成后保存并关闭文件。

1.5 安装并配置 MariaDB

接下来，MariaDB 需要存储 Gibbon 的数据库。您可以通过运行以下命令来安装它：

```
sudo apt-get install mariadb-server mariadb-client -y
```

安装 MariaDB 之后，您需要先确保安全。您可以通过运行以下命令来保护它：

```
sudo mysql_secure_installation
```

回答以下所有问题：

NOTE: RUNNING ALL PARTS OF THIS SCRIPT IS RECOMMENDED FOR ALL MariaDB
SERVERS IN PRODUCTION USE! PLEASE READ EACH STEP CAREFULLY!

In order to log into MariaDB to secure it, we'll need the current
password for the root user. If you've just installed MariaDB, and
you haven't set the root password yet, the password will be blank,
so you should just press enter here.

Enter current password for root (enter for none):
OK, successfully used password, moving on...

Setting the root password ensures that nobody can log into the MariaDB
root user without the proper authorisation.

You already have a root password set, so you can safely answer 'n'.

Change the root password? [Y/n] **n**

... skipping.

By default, a MariaDB installation has an anonymous user, allowing anyone
to log into MariaDB 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? [Y/n] **Y**
... Success!

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? [Y/n] Y

... Success!

By default, MariaDB 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? [Y/n] Y

- Dropping test database...

... Success!

- Removing privileges on test database...

... Success!

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

Reload privilege tables now? [Y/n] Y

... Success!

Cleaning up...

All done! If you've completed all of the above steps, your MariaDB installation should now be secure.

Thanks for using MariaDB!

安装 MariaDB 后，使用以下命令登录到 MariaDB 控制台：

```
mysql -u root -p
```

输入您的 root 密码并使用以下命令为 Gibbon 创建数据库：

```
MariaDB [(none)]>CREATE DATABASE gibbon_db;
```

为 Gibbon 创建数据库后，使用以下命令创建用户名和密码：

```
MariaDB [(none)]>CREATE USER 'gibbon'@'localhost' IDENTIFIED BY 'password';
```

接下来，使用以下命令向 Gibbon 数据库授予权限：

```
MariaDB [(none)]>GRANT ALL PRIVILEGES ON gibbon_db.* TO 'gibbon'@'localhost';
```

接下来，运行 FLUSH PRIVILEGES 命令，以使权限表由 MariaDB 重新加载，我们可以使用新的证书：

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

最后，使用以下命令退出 MariaDB 控制台：

```
MariaDB [(none)]>\q
```

1.6 开始安装 Gibbon

您可以从他们的官方网站下载最新版本的 Gibbon。运行以下命令下载它：

```
wget https://github.com/GibbonEdu/core/archive/v14.0.00.zip
```

下载 Gibbon 后，使用以下命令解压缩下载的文件：

```
unzip v14.0.00.zip
```

接下来，将提取的目录移动到 Apache Web 根目录：

```
sudo mv core-14.0.00 /var/www/html/gibbon
```

接下来，您将需要更改 gibbon 目录的所有权，并给予必要的权限：

```
sudo chown -R www-data:www-data /var/www/html/gibbon
sudo chmod -R 777 /var/www/html/gibbon
```

接下来，您将需要为 Gibbon 创建一个 Apache 虚拟主机文件。您可以通过在 /etc/apache2/sites-available/ 目录中创建 gibbon.conf 文件：

```
sudo nano /etc/apache2/sites-available/gibbon.conf
```

添加以下行：

```
<VirtualHost *:80>
ServerAdmin admin@yourdomain.com
DocumentRoot "/var/www/html/gibbon/"
ServerName yourdomain.com
ServerAlias www.yourdomain.com
<<Directory "/var/www/html/gibbon/">
Options FollowSymLinks
AllowOverride All
Order allow,deny
allow from all
</Directory>
ErrorLog /var/log/apache2/gibbon-error_log
CustomLog /var/log/apache2/gibbon-access_log common
</VirtualHost>
```

完成后保存并关闭文件，然后使用以下命令启用虚拟主机文件：

```
sudo a2ensite gibbon
```

最后，重新启动 apache2 服务，以便它读取新的 virtualhost 配置：

```
sudo systemctl restart apache2
```

更多详情见请继续阅读下一页的精彩内容：<http://www.linuxidc.com/Linux/2017-07/145590p2.htm>

1.1 访问 Gibbon Web 安装向导

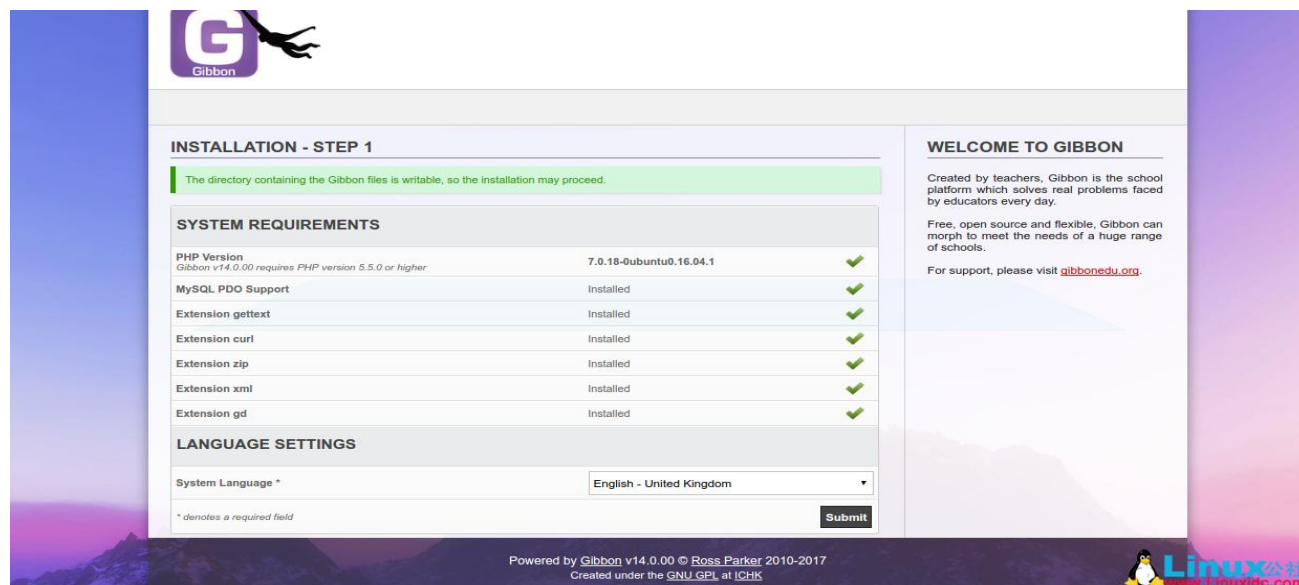
Gibbon 在 80 端口上运行，因此在访问 Gibbon 之前，您将需要通过 UFW 防火墙允许端口 80。默认情况下，UFW 防火墙在 Ubuntu 16.04 中被禁用，因此您需要先启用它。

```
sudo ufw enable
```

然后，通过运行以下命令，通过 UFW 防火墙允许端口 80：

```
sudo ufw allow 80
```

配置防火墙后，打开 Web 浏览器并导航到 URL <http://yourdomain.com>，您将被重定向到 Gibbon Web 安装向导，如下图所示：



The screenshot shows the Gibbon Web installation interface. At the top left is the Gibbon logo. The main content area is titled "INSTALLATION - STEP 1". Below the title, a green message box states: "The directory containing the Gibbon files is writable, so the installation may proceed." Below this is a table of "SYSTEM REQUIREMENTS".

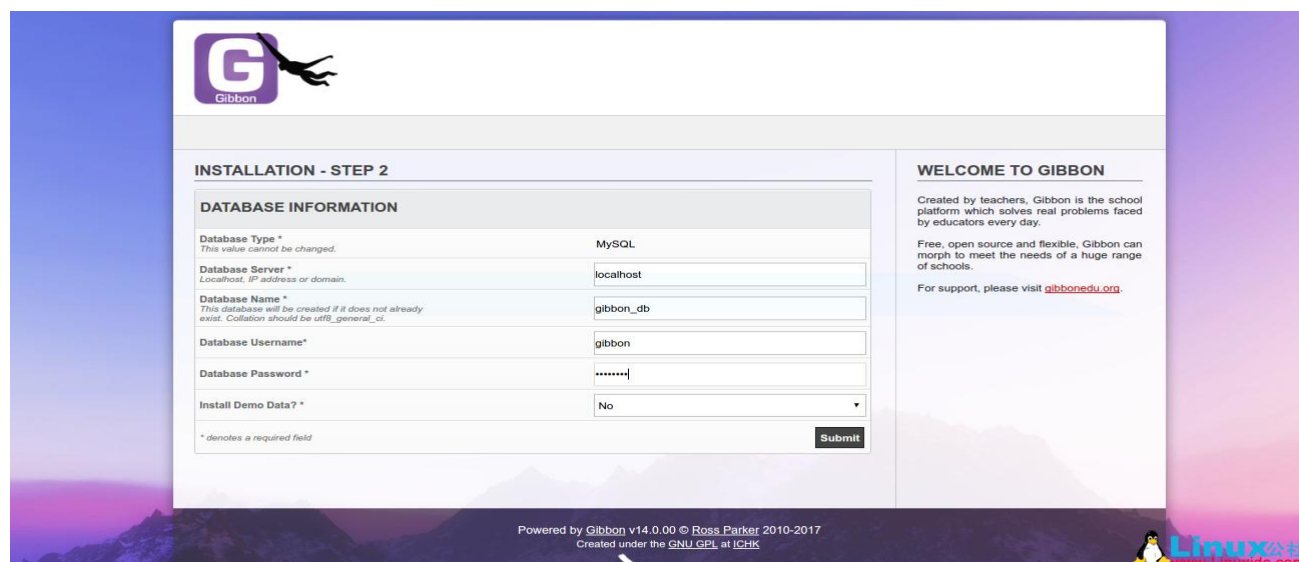
| Requirement | Status | Checkmark |
|--|-------------------------|-----------|
| PHP Version <small>Gibbon v14.0.00 requires PHP version 5.5.0 or higher</small> | 7.0.18-0ubuntu0.16.04.1 | ✓ |
| MySQL PDO Support | Installed | ✓ |
| Extension gettext | Installed | ✓ |
| Extension curl | Installed | ✓ |
| Extension zip | Installed | ✓ |
| Extension xml | Installed | ✓ |
| Extension gd | Installed | ✓ |

Below the requirements table is the "LANGUAGE SETTINGS" section. It contains a dropdown menu for "System Language *" set to "English - United Kingdom". A "Submit" button is at the bottom right of this section. A small note at the bottom left says "* denotes a required field".

On the right side of the interface, there is a "WELCOME TO GIBBON" section. It contains text about Gibbon being created by teachers, its purpose as a school platform, and its open-source nature. It also provides a link for support: gibbonedu.org.

At the bottom of the page, there is a footer that reads: "Powered by Gibbon v14.0.00 © Ross Parker 2010-2017 Created under the GNU GPL at ICHK". On the bottom right, there is a Linux公社 logo and the website www.linuxidc.com.

在这里，检查所有的系统要求，选择英文作为系统语言，然后点击提交按钮，你应该看到如下图像：



The screenshot shows the Gibbon Web installation interface at "INSTALLATION - STEP 2". The main content area is titled "DATABASE INFORMATION". It contains several input fields for database configuration.


| | |
|----------------------|-----------|
| Database Type * | MySQL |
| Database Server * | localhost |
| Database Name * | gibbon_db |
| Database Username * | gibbon |
| Database Password * | ***** |
| Install Demo Data? * | No |

A "Submit" button is located at the bottom right of the database information section. A small note at the bottom left says "* denotes a required field".

On the right side of the interface, there is a "WELCOME TO GIBBON" section, which is identical to the one in Step 1.

At the bottom of the page, there is a footer that reads: "Powered by Gibbon v14.0.00 © Ross Parker 2010-2017 Created under the GNU GPL at ICHK". On the bottom right, there is a Linux公社 logo and the website www.linuxidc.com.

在数据库配置页面中，提供数据库名称，用户名和密码，然后单击提交按钮，您应该看到以下页面：



INSTALLATION - STEP 3

USER ACCOUNT

| | |
|------------------|--------------------------|
| Title | Mr. |
| Surname * | Jethva |
| First Name* | Hitesh |
| Email * | hitjethva@gmail.com |
| Receive Support? | <input type="checkbox"/> |
| Username * | Admin |

The password policy stipulates that passwords must:

- Contain at least one lowercase letter, and one uppercase letter.
- Contain at least one number.
- Must be at least 8 characters in length.

| | |
|------------|------------------------------------|
| Password * | <div>Generate Password</div> ***** |
|------------|------------------------------------|

WELCOME TO GIBBON

Created by teachers, Gibbon is the school platform which solves real problems faced by educators every day.

Free, open source and flexible, Gibbon can morph to meet the needs of a huge range of schools.

For support, please visit gibbonedu.org.

SYSTEM SETTINGS

| | |
|----------------|-----------------------|
| Base URL * | http://192.168.15.189 |
| Base Path * | /var/www/html/gibbon |
| System Name * | Gibbon |
| Install Type * | Testing |

Cutting Edge Code check successful.

| | |
|-------------------------|-----|
| Cutting Edge Code * | No |
| Statistics Collection * | Yes |

ORGANISATION SETTINGS

| | |
|-------------------------|------------------|
| Organisation Name * | Howtoforge |
| Organisation Initials * | Howtoforge |
| Currency * | U.S. Dollar (\$) |

GIBBONEDU.COM VALUE-ADDED SERVICES

| | |
|---------------------------------|--|
| gibbonedu.com Organisation Name | |
| gibbonedu.com Organisation Key | |




MISCELLANEOUS

| | |
|------------|----------------|
| Country * | India |
| Timezone * | Asia/Hong_Kong |

* denotes a required field

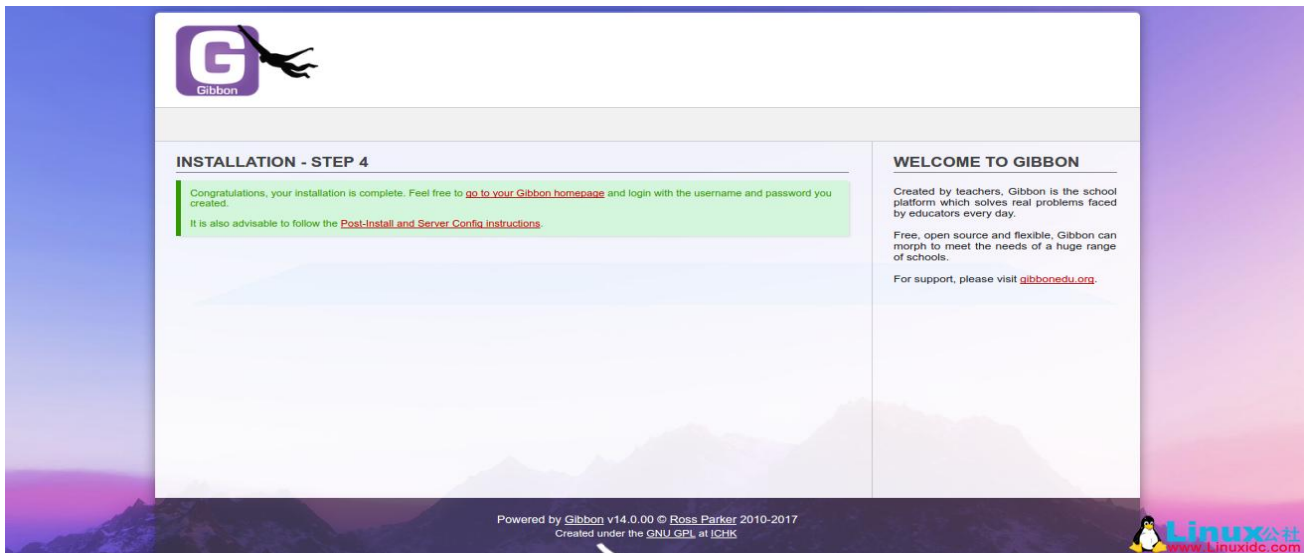
Submit

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Created under the [GNU GPL](#) at [ICPJK](#)

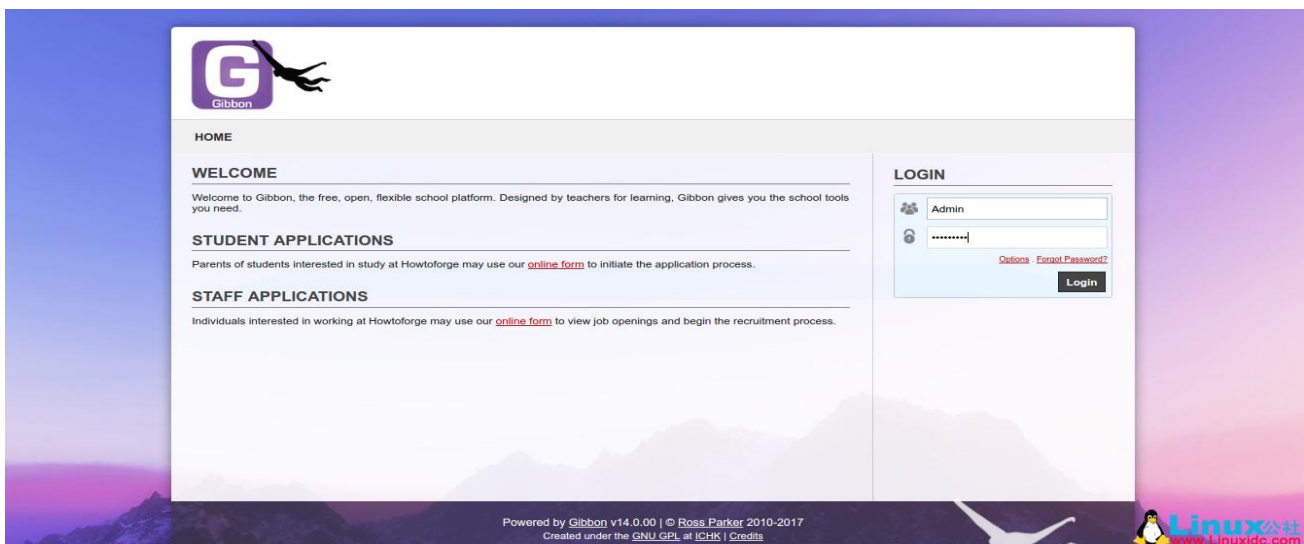


在帐户配置，系统设置和组织设置中，提供所有必要的信息，然后单击提交按钮。Gibbon 安装成功后，您应该看到以下页面：

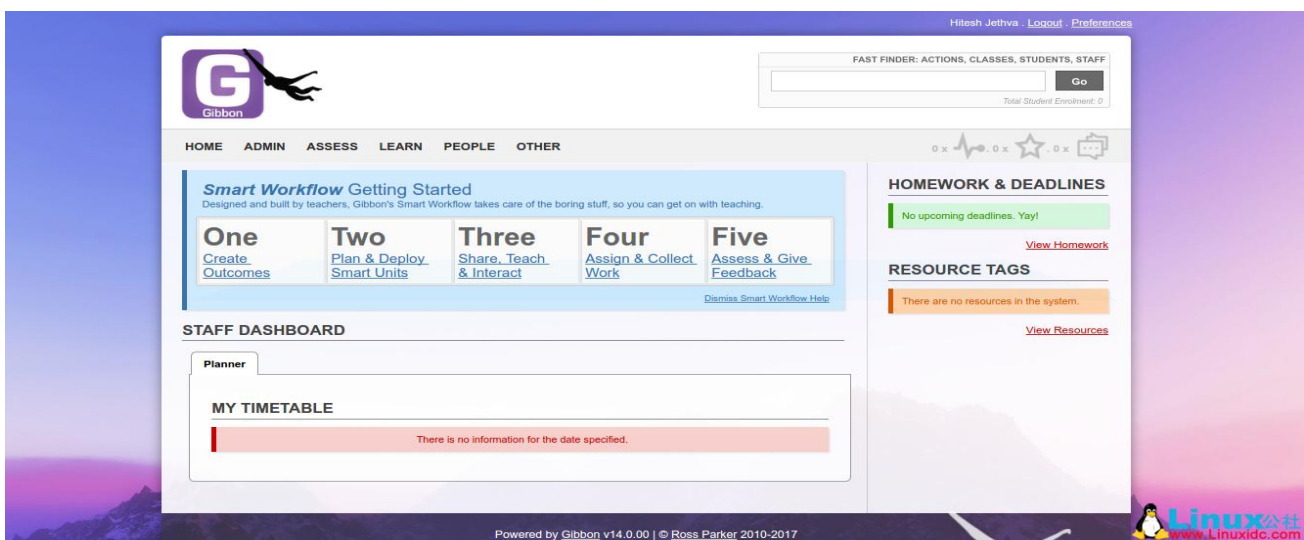
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接下来，点击去您的 Gibbon 主页，您应该看到以下图像中的 Gibbon 登录页面：



提供您的管理员凭据并单击登录按钮，您应该在以下图像中看到 Gibbon 默认仪表板：



安装 Gibbon 后，建议您设置所有 Gibbon 文件的权限，以便它们不可公开写入。您可以通过运行以下命令来执行此操作：

```
sudo chmod -R 755 /var/www/html/gibbon
```

总结

恭喜！您已经在 Ubuntu 16.04 服务器上成功安装并配置了 Gibbon。您可以查看官方 Gibbon 网站了解更多帮助或有用信息。

本文永久更新链接地址：<http://www.linuxidc.com/Linux/2017-07/145590.htm>

欢迎点击这里的链接进入精彩的 **Linux 公社** 网站

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