

AI-03008 Redmine Setup Ubuntu

Owner	Ⓒ Rigel Arcayan
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What is Redmine, what's the story of the application and founder? Is it really free or there's a catch? How Redmine get their revenue? Provide a Step by Step on the setup and installation for Ubuntu.

Redmine is an open-source, web-based project management and issue-tracking application. It's written in the **Ruby on Rails** framework and offers a wide range of features for managing projects, collaborating with teams, and tracking tasks. 🧑

Story and Founder

Redmine was founded by **Jean-Philippe Lang**. The initial release was on June 25, 2006. The design was heavily influenced by Trac, another project management software. It was created as a project management tool for a company that Lang worked for. Redmine is now a community-maintained project with a large group of volunteers contributing to its development. The project itself is managed using its own Redmine instance.

Is Redmine really free?

Yes, **Redmine is genuinely free**. It is licensed under the **GNU General Public License (GPL) v2**, which means you can download, use, modify, and distribute the software for free, including for commercial purposes. There's no catch regarding licensing fees.

The "catch" you might encounter is the cost of **self-hosting**. Since you have to install and manage Redmine on your own server, you are responsible for any associated costs, such as:

- **Hosting:** The cost of the server or hosting service where Redmine will run.
 - **Plugins & Customizations:** While many plugins are free, some third-party vendors sell advanced plugins with extra features.
 - **Support:** If you need professional support for installation, configuration, or troubleshooting, you may need to pay for a third-party service provider.
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How Redmine gets its revenue

Redmine itself, as an open-source project, doesn't generate revenue. Its development and maintenance are supported by **community volunteers, donations, and companies that use it and contribute back**. The "revenue" in the Redmine ecosystem comes from other businesses that provide paid services around the free software. These include:

- **Managed Hosting:** Companies that offer to host and maintain Redmine for a monthly fee. This removes the hassle of self-hosting for businesses.
 - **Consulting & Implementation:** Services that help companies set up, configure, and customize Redmine to their specific needs.
 - **Paid Plugins & Extensions:** Developers create and sell proprietary plugins that add advanced features (like enhanced reporting, resource management, or CRM functionality) that aren't included in the core Redmine application.
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Step-by-Step Installation on Ubuntu

This guide provides a general overview for installing Redmine on a fresh Ubuntu server. The specific commands may vary slightly depending on your Ubuntu and Redmine versions.

1. Prerequisites

First, you'll need to install the necessary software packages for the Redmine application and its dependencies. This includes a web server (like Apache or Nginx), a database server (like MySQL or PostgreSQL), and Ruby.

1. Update and install packages: Bash

```
sudo apt-get update
sudo apt-get install -y ruby-full ruby-bundler build-essential git
sudo apt-get install -y apache2 libapache2-mod-passenger mysql-server libmysqlclient-dev
```

During the MySQL installation, you'll be prompted to create a password for the root user.

2. Database Setup

Create a dedicated database and user for Redmine.

1. Log in to MySQL: Bash

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

Enter the root password you created.

2. Create the database and user: SQL

```
CREATE DATABASE redmine CHARACTER SET utf8mb4;
CREATE USER 'redmine'@'localhost' IDENTIFIED BY 'your_password';
GRANT ALL PRIVILEGES ON redmine.* TO 'redmine'@'localhost';
FLUSH PRIVILEGES;
EXIT;
```

Note: Replace `your_password` with a strong password.

3. Redmine Installation

Now, download and configure the Redmine application.

1. Download and extract Redmine: Bash

```
cd /opt
sudo wget http://www.redmine.org/releases/redmine-latest.tar.gz
sudo tar -xvzf redmine-latest.tar.gz
sudo mv redmine-* redmine
```

2. Configure the database connection: Bash/YAML

```
sudo cp /opt/redmine/config/database.yml.example /opt/redmine/config/database.yml
sudo nano /opt/redmine/config/database.yml
```

In the file, find the `production:` section and enter your database details:

```
production:
  adapter: mysql2
  database: redmine
  host: localhost
  username: redmine
  password: "your_password"
```

3. Install dependencies: Bash

```
cd /opt/redmine
sudo bundle install --without development test
```

4. Generate a secret token: Bash

```
sudo bundle exec rake generate_secret_token
```

5. Run database migrations and load default data: Bash

```
sudo bundle exec rake db:migrate RAILS_ENV=production
sudo bundle exec rake redmine:load_default_data RAILS_ENV=production
```

You'll be prompted to select a language for the default data.

4. Web Server Configuration

Configure Apache to serve the Redmine application.

1. Configure file permissions: Bash

```
sudo chown -R www-data:www-data /opt/redmine
sudo chmod -R 755 /opt/redmine
```

2. Create a new Apache configuration file: BashApache

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

Add the following content:

```
<VirtualHost *:80>
  ServerName your_domain_or_ip
  DocumentRoot /opt/redmine/public
  <Directory /opt/redmine/public>
    Allow from all
    Require all granted
    Options -MultiViews
  </Directory>
</VirtualHost>
```

3. Enable the site and restart Apache: Bash

```
sudo a2ensite redmine
sudo systemctl restart apache2
```

You should now be able to access your Redmine instance by navigating to your server's IP address or domain name in a web browser. The default login is `admin` with a password of `admin`. You will be prompted to change it on your first login.