OrangeScrum

Automated Installation Guide for Ubuntu 18 (PHP 7)

Note: This script will not work on shared hosting, only works on Ubuntu 18 dedicated server only.

Prerequisites:
Hardware:

- RAM: minimum 4 GB
- Processor: Core2duo or Higher
- OS: Ubuntu 18
- Disk Space: 10 GB or Higher

Software:

- Apache 2.4
- PHP = 7.x
- MySQL 5.6 or 5.7
- Wkhtmltopdf
- Imagemagick

PHP Extensions we are using:

Extension Name	Usage
php-cli	PHP CLI is a short for PHP Command Line Interface. So kind of command line work such as running scheduled (CRON), making GUI applications etc. can be done using php-cli. We are using php-cli for CRON.
php-common	PHP common consists of all the common module and .so file that is required to run PHP in a server.
php-dba	Required to handle database connections, key base access, list database connection, etc.
php-enchant	Enchant provide uniformity and conformity on top of all spelling libraries, and implement certain features that may be lacking in any individual provider library.

	So it used spell check.
php-fpm	FPM (FastCGI Process Manager) is an alternative PHP FastCGI implementation with some additional features (mostly) useful for heavy-loaded sites. It is used for making site to load faster.
php-gd	It is used to create and manipulate image files in a variety of different image formats.
php-imap	These functions enable you to operate with the IMAP protocol, as well as the POP3 and local mailbox access methods. We are using this to read email reply from notify email and posting to Orangescrum.
php-intl	It is enabling PHP programmers to perform various locale-aware operations including but not limited to formatting, transliteration, encoding conversion, calendar operations, collation, locating text boundaries and working with locale identifiers, time zones etc. This is required for Orangescrum's multilingual feature.
php-ldap	LDAP is the Lightweight Directory Access Protocol, and is a protocol used to access "Directory Servers". The Directory is a special kind of database that holds information in a tree structure. It **optional**, it required for the LDAP plugin for Orangescrum otherwise not required.
php-mbstring	Multi-byte character handling We are using this in the php functions such as trim, split, splice, etc.
php-mysql	Used to connect MySQL database from PHP environment using the PDO library.
php-pdo	The PHP Data Objects (PDO) extension defines a lightweight, consistent interface for accessing databases in PHP. Cakephp is using PDO to communicate with the MySQL database to perform database operations (fetch, insert, update and delete records)
php-pecl-zip	A zip management extension.

	We are using this to creating zip files. ex while downloading task we are creating zip.
php-pecl-memcache	Memcached is a caching daemon designed especially for dynamic web applications to decrease database load by storing objects in memory. We are supporting memcache. it is **optional**, default cache for cakephp if fileCache.
php-pecl-imagick	Imagick is a native php extension to create and modify images using the ImageMagick API. We are using this extension to crop images as per user's requirement and also to display thumbnails for larger size images.
php-tidy	Tidy is a binding for the Tidy HTML clean and repair utility which allows you to not only clean and otherwise manipulate HTML, XHTML, and XML documents, but also traverse the document tree, including ones with embedded scripting languages such as PHP or ASP within them using object oriented constructs.
php-xml	PHP xml is an xml parser.
php-opcache	OPcache improves PHP performance by storing precompiled script byte code in shared memory, thereby removing the need for PHP to load and parse scripts on each request.
php-devel	PHP development library
php-pear	A structured library of open-source code for PHP users. A system for code distribution and package maintenance.
php-curl	PHP supports libcurl, a library created by Daniel Stenberg, that allows you to connect and communicate to many different types of servers with many different types of protocols. libcurl currently supports the http, https, ftp, gopher, telnet, dict, file, and ldap protocols. We are using this sending push notifications and checking file existence.

OS and Other required Parameters:
- A Fresh Ubuntu Server
- Internet Connection
- Email ID
- Email Password
- SMTP Mail Server Hostname / Private Mail Server Hostname
  (e.g., mail.gmail.com *or* smtp.yahoo.com, etc.)
- SMTP Port (e.g., 25, 465, 587, etc.)

* Note: If Gmail ID used for SMTP configuration, make sure to enable the "**less secure app**" function. You can do this by logging into the Gmail account and go to "**My Accounts**" then click on "**Sign-in & Security**" and enable the "**Allow less secure apps: ON**".

*Note: Make sure to whitelist the application server Domain/IP address from the private Mail Server.

*Note: OrangeScrum will only works on MySQL 5.6 & 5.7, Apache 2.4 and PHP 7.x

What does the installation package help with?
- Installs required packages and dependencies to support the application
- Installs and configure Apache Web Server
- Installs MySQL Server, creates database and configures user for database or create database in an existing MySQL setup and configures user, requires existing root password.
- Setup cron jobs

Steps to install application:
1. Download the OrangeScrum Self Hosted Edition Package.

2. Copy it to the Server's "/tmp" directory where the application will be installed.
*You can use "Winscp" or "Filezilla" to upload the package to your Server

3. Login to "root" or run "sudo su -", enter the root password:

```
[andola@localhost ~]$ sudo su -
[sudo] password for andola:
```

4. Change the directory to "/tmp" by using the following command:

```
[root@localhost ~]# cd /tmp
[root@localhost tmp]#
```

The downloaded package is in zip format, to extract the file you need unzip command, If you don't have unzip command follow the steps:
Install unzip by typing: "***apt-get -y install unzip***", then unzip the code:

```
tmp]# unzip Orangescrum-Selfhosted-*.zip
```

5. Change the directory to "orangescrum":
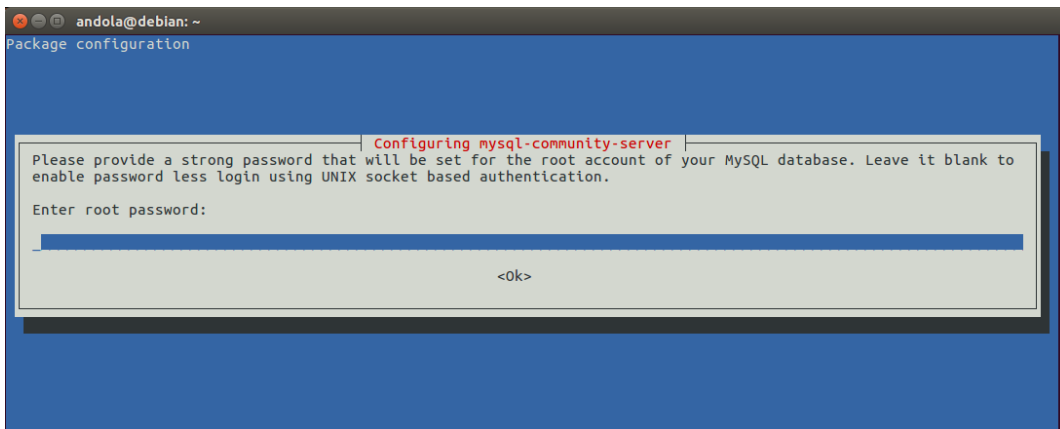
```
tmp]# cd orangescrum/
```

6. Give permission to the script file "setup"
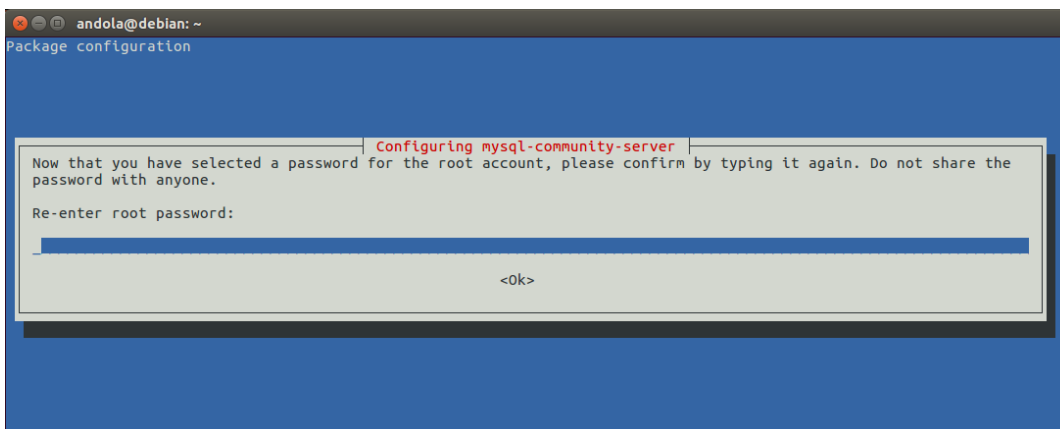
```
orangescrum]# chmod +x setup
```

7. Run the setup file:

```
orangescrum]# ./setup
```

8. During Installation if MySQL database is already installed, it will ask for **root password** for MySQL database, else it will ask to setup root password for new installation:

Re-enter the password as per the above given screen-shot.

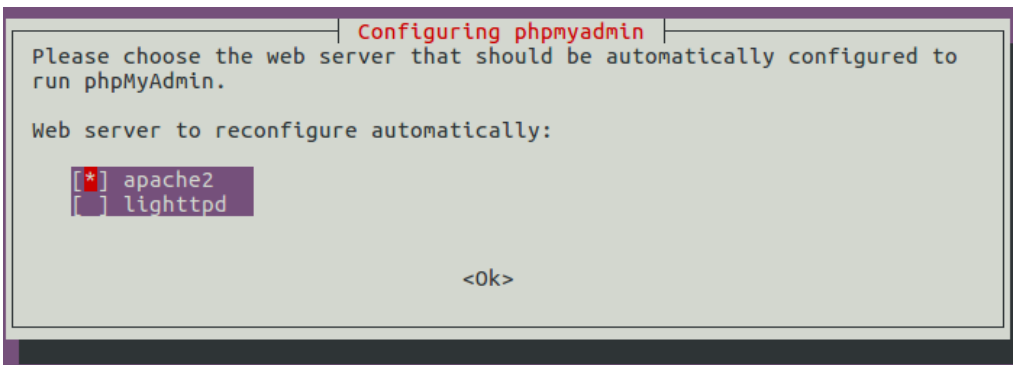Please enter the password below which you have created in the above steps:

```
Please note MySQL 5.7 compiles with a password policy, so please enter the password as per below p
 Root password and also unable to create OrangeScrum database for you
Password should be combination of Alpha numeric with special characters and One Capital letter
Minimum password length should be 8 to meet the MySQL password Policy
Enter the Root Password for MySQL Database you have created just before:

Database Password (Re-Enter): 
```
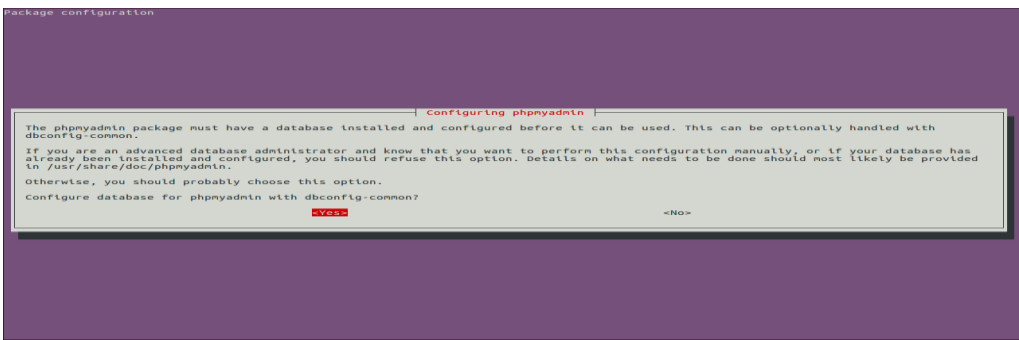
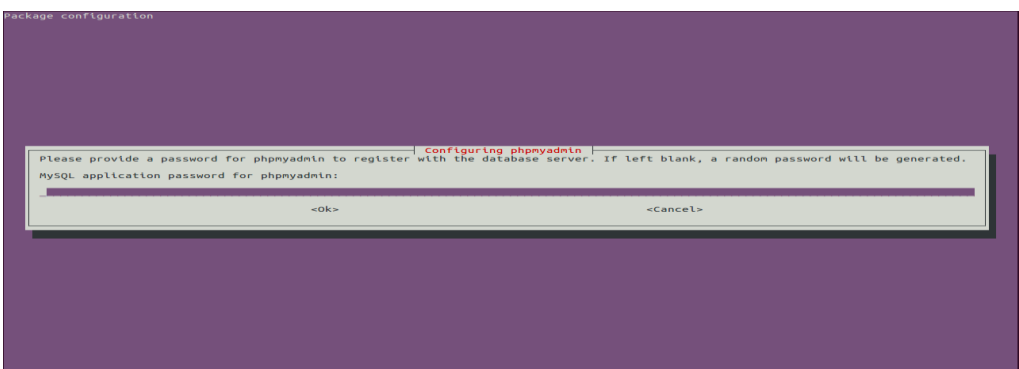9. After installing MySQL database, follow the steps to setup the phpMyAdmin:

i. Select "*apache2*" and press "*ok*" to re-configure the Web Server automatically

```
┌───────────────── Configuring phpmyadmin ─────────────────┐
 Please choose the web server that should be automatically configured to
 run phpMyAdmin.

 Web server to reconfigure automatically:

     [*] apache2
     [ ] lighttpd


                         <Ok>

└──────────────────────────────────────────────────────────┘
```

ii. Select "*Yes*" to re-configure the database for phpMyAdmin with dbconfig-common:

```
Package configuration



                       Configuring phpmyadmin
  The phpmyadmin package must have a database installed and configured before it can be used. This can be optionally handled with
  dbconfig-common.
  If you are an advanced database administrator and know that you want to perform this configuration manually, or if your database has
  already been installed and configured, you should refuse this option. Details on what needs to be done should most likely be provided
  in /usr/share/doc/phpmyadmin.
  Otherwise, you should probably choose this option.
  Configure database for phpmyadmin with dbconfig-common?
                            <Yes>                                    <No>
```

iii. Enter MySQL application password for phpMyAdmin, Enter the Database password you have just created:

```
Package configuration



                       Configuring phpmyadmin
  Please provide a password for phpmyadmin to register with the database server. If left blank, a random password will be generated.
  MySQL application password for phpmyadmin:

                       <Ok>                                    <Cancel>
```

9. It will install all the required packages and dependencies and will ask for **email ID, Database Name, Database User Name, Database Password** and **Domain name or IP address** for the Host.

```
Please enter your email id to be used with Web Server Configuration:
test@example.com
Do not use '-' for database name
Please enter your Database Name for orangescrum:
os_test
Please enter your Database User Name for orangescrum:
os-test
Please note MySQL 5.7 compiles with a password policy, so please enter the password as per below
 policy to get it work, else the script might not able to set the MySQL Root password and also u
nable to create OrangeScrum database for you
Password should be combination of Alpha numeric with special characters and One Capital letter
Minimum password length should be 8 to meet the MySQL password Policy

Please enter your Database password for OrangeScrum:

Database Password (Re-Enter):
Please enter your Domain Name or IP:
192.168.x.x
```

10. The database details you will enter on step 9 are displayed as shown below which you need during the Orangescrum Installation wizard.

```
*---OrangeScrum Community Edition Installation Completed Successfully---*
Please keep note the of the followings for your reference:
OrangeScrum OrangeScrum Database Name: os_test
OrangeScrum OrangeScrum Database User Name: os-test
OrangeScrum OrangeScrum Database Password: Andola321~
Open you browser and access the application using the domian/IP address:
http://192.168.x.x/

root@debian:/home/andola#
```

11. Run Orangescrum as http://yoursiteurl.com/ from your browser. If Orangescrum is hosted on local network, then run http://localhost/orangescrum-master or run the IP/domain as configured.

12. Once you hit the URL, you can see the **Database Configuration** Wizard.

13. On the **Database Configuration** wizard, provide your **Database Name**, **Database Host**, **Username**, **Password** and click **Next** button.

14. On the next page **SMTP Configuration** Wizard, configure the SMTP with **Host Name, Port, User Name, Password, From Email, Notify Email** and click **Next** button.

15. **Google Drive, Dropbox** and **AWS S3 Bucket** setup.

Orangescrum
 # 1 Task Management Software

Advanced Configuration

⊖ Google Keys

API KEY

xxxxxxxxxxxxxxxxxxxxxxxxxxxx

CLIENT ID

XXXXXXXXXXX.apps.googleusercontent.com

CLIENT SECRET

xxxxxxxxx_xxxxxxxxx

⊕ Dropbox

⊕ AWS S3 Bucket

Finish

Skip this step

Make sure that you have write permission (777) to `app/tmp` and `app/webroot` folders

16. Once click on the Finish button, it will redirect to Signup page, where you can create your account and use the application.

Orangescrum
 # 1 Task Management Software

Get started in 60 seconds

The right choice for smart people to get things done effortlessly

G+ Signup with Google

OR

Email

Password

Company Name

Sign up

Already have an account? Sign in.

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17. Inside the application you can find the SMTP Configuration under the setting menu to update the SMTP setting or Advance Setting or Check Email.
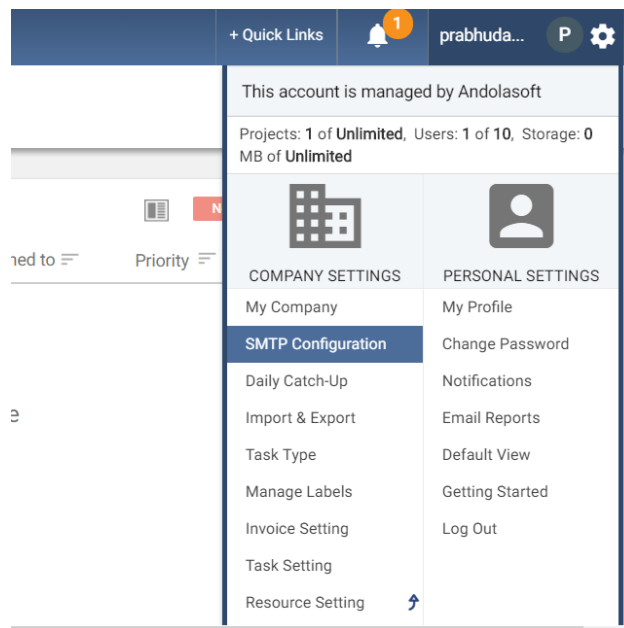
(SMTP Configuration Setting inside Application)

(SMTP Configuration Setting Update)
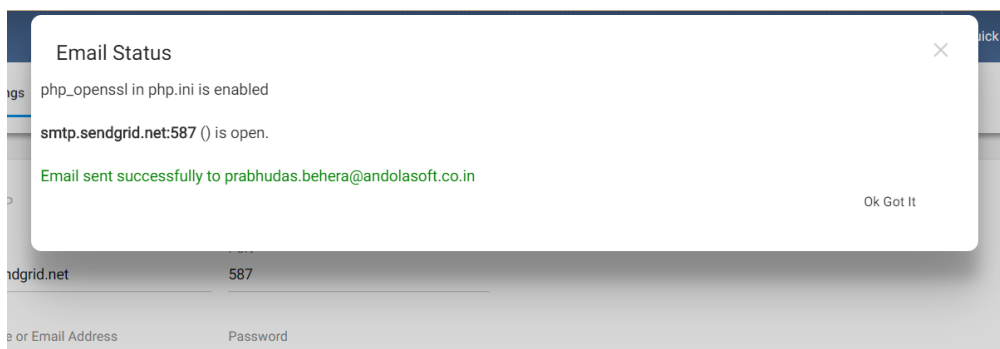
(SMTP configuration success message)

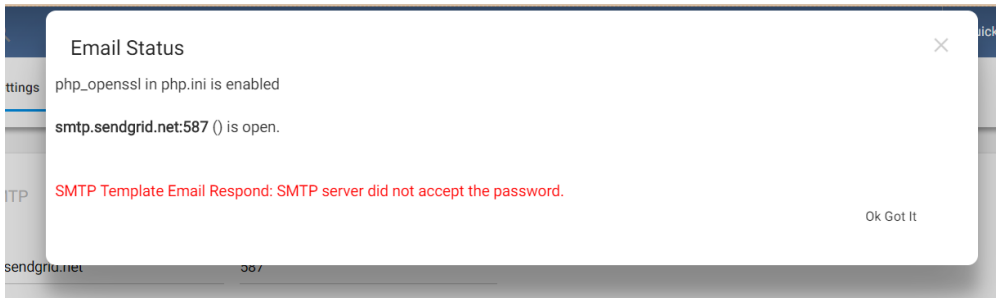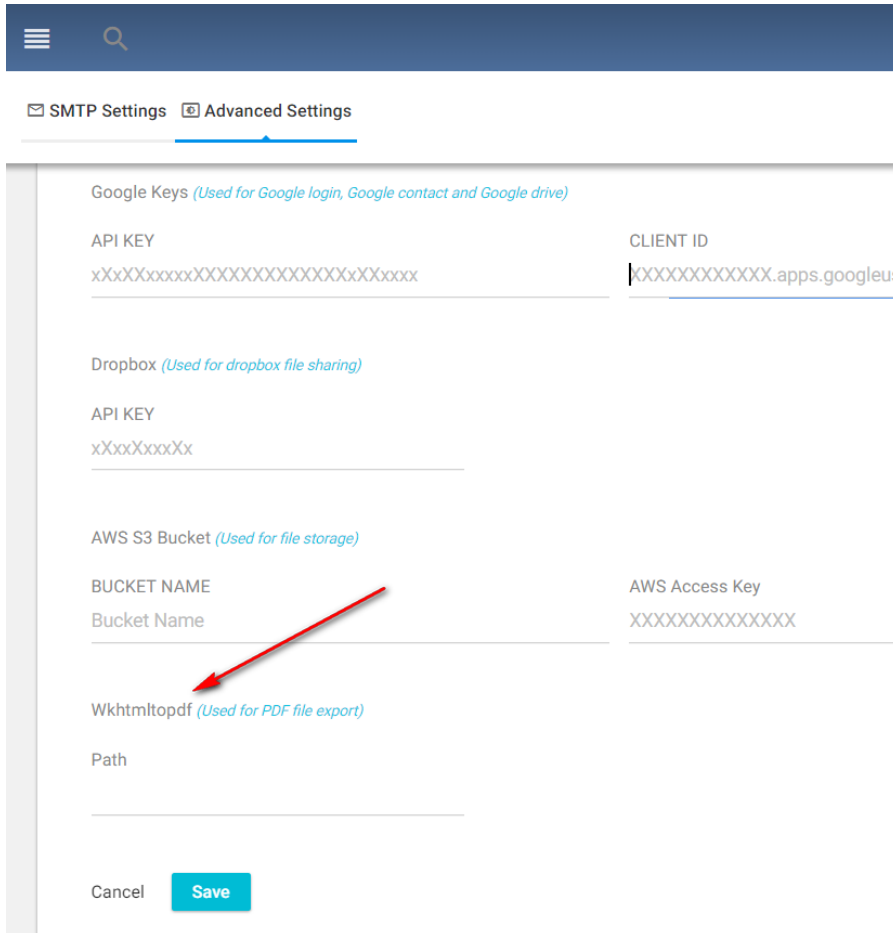(SMTP configuration failure message)

(Dropbox, Google Drive, S3Bucket Setting configuration)

Troubleshooting and Solutions

Why am I not able to receive email/ not able to invite users?
In order to know the reason of the issue, you need to go for email test. Please go the Setting> SMTP Configuration and click on the Check Email option

Can I send emails without SMTP?
If you want to send emails to your internal server without authentication, the use PHP Mailer option instead of SMTP under SMTP configuration.

Why am I not able to use Mobile APP in Orangescrum?
If you have not purchased Mobile API add-on, then you will not be able to use Mobile APP. Mobile API, after installation, generates API key in the web interface. You need to use this key to connect to Mobile APP.

Common Solution for SMTP error
First use the three different ports at least once (465, 587 and 25)
If you want to use the mail without SMTP and authentication, then use PHPMailer.