

# Linux installation

## Preliminary

Ianseo is meant to run on standard linux boxes with minimal requirements: mysql, php and apache2. These instructions are based on Ubuntu 18.04 but with the necessary arrangements in paths will work in all linux distros with apache2, mysql 5 or more and php 5 or more.

## Necessary packages

The following packages are needed from your distribution

- apache2
- mysql-server
- mysql-client
- php (5 or above)
- php-mysqli (php-mysql)
- php-gd
- php-curl
- php-mbstring
- php-mcrypt
- php-xml
- php-zip
- imagemagick
- php-imagick
- unzip
- libapache2-mod-php

## Download and installation of ianseo

Once all the previous packages are installed with all the required dependencies, download the latest ianseo release from [ianseo.net](https://www.ianseo.net), selecting the Linux Update.

```
https://www.ianseo.net/Releases.php
```

**This guide will install ianseo in `/opt/ianseo` but it can be where you want, provided you change the relative setup.**

Open a shell terminal and unzip the downloaded file in `/opt/ianseo`. If you are new to shell commands just type exactly what is written in the grey boxes (apart “ianseo\_XXX.zip” that should be the actual downloaded file), hitting return key after each line. Please care about lower and upper caps as well as forward slashes and spaces. Do not proceed to the next command if the previous command returned an error!

```
sudo mkdir /opt/ianseo
sudo chmod a+w /opt/ianseo
unzip ianseo_XXX.zip -d /opt/ianseo
chmod -R a+wX /opt/ianseo
```

Please remark that the last 2 commands are made by the normal user while the first 2 commands and every command starting with “sudo” need superuser access: you will be prompted for your password the first time so type it and press return... for security reasons your password will not show up, not even dots or stars...

Delete the file `ianseo/Common/config.inc.php` if present!

```
rm /opt/ianseo/Common/config.inc.php
```

## System configuration

Create the configuration file that will be needed by Apache (watch out the case and the spaces in the command) and activate it.

```
echo "Alias /ianseo/ /opt/ianseo/" > ianseo.conf
sudo mv ianseo.conf /etc/apache2/conf-available/
sudo a2enconf ianseo
sudo service apache2 reload
```

Ianseo is now ready at "`http://localhost/ianseo/`" to start the installation. Once installation is finished, do an upgrade via the Modules=>Upgrade Ianseo menu item.

## Fine tuning

Ianseo can run on very low level machines, but in case you have a good machine you can raise the memory and make some fine tuning...

Create a file `/etc/php/7.0/apache2/conf.d/ianseo.ini` with this content.

```
upload_max_filesize = 256M
post_max_size = 256M
memory_limit = 1024M
```

Remember to reload apache!

```
sudo service apache2 reload
```

MySQL can also be finetuned... here a safe starting point to put into a `/etc/mysql/conf.d/ianseo.cnf` file

```
[mysqld]
sql_mode = 'NO_UNSIGNED_SUBTRACTION'
max_allowed_packet = 16M

[mysqldump]
max_allowed_packet = 16M
```

Don't forget to restart mysql after the changes

```
sudo service mysql restart
```

## Help!

Help can be asked at the official mail: [help@ianseo.net](mailto:help@ianseo.net). We answer EVERY email as soon as we can, so be patient: bombing is never a good practice :D

All this is done for free, so don't hesitate to support Ianseo: there is a "donate" button on the website!