OpenEyes - Installation Guide

Editors: G W Aylward, M C Smith

Version: 1.1

Date issued: 1 Mar 2013

Target Audience

General Interest	
Heathcare managers	
Ophthalmologists	
Developers	✔

Amendment Record

Issue	Description	Author	Date
0.9	Draft	G W Aylward	01/03/2012
1.0	Released Version (added Troubleshooting section)	M C Smith	23/10/2012
1.1	Updated with minor changes	G W Aylward	1 Mar 2013

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Introduction

This guide gives step by step instructions for the installation of the latest version of OpenEyes. OpenEyes can be installed on any machine set up as a web server. Detailed instructions on setting up a server on computers running UNIX, MacOS, or Windows can be found in separate documents.[1-3] An active internet connection is required. The following instructions apply to installation on a Mac, but will be very similar to those required for other operating systems.

Preparation

1. Create a directory

Decide on a suitable directory served by the web server in which to create your installation. For the purposes of this example, it is the ~/Sites directory. From within the directory, create a folder for the OpenEyes installation, and change directory to it;

```
‣ cd ~/Sites
‣ mkdir openeyesdev
‣ cd openeyesdev
```

2. Download and Install Yii

While in the same directory, create a folder called 'yii';

```
‣ mkdir yii
```

The latest version of the Yii framework can be downloaded from here. If you click the download link, you will most likely get a .tar file which should then be uncompressed. You will then have a folder called something like 'yii-1.1.13.e9e4a0', depending on the version number. Copy the folder called 'framework' into the yii folder that you have just created;

```
‣ cp -Rfp ~/Downloads/yii-1.1.13.e9e4a0/framework yii/
```

Adjusting permissions

On a UNIX based server, you will need to ensure that the web server has full access to all the files and folders in the openeyesdev directory, There may be a web server group (in this example it is _www), so you should assign group permissions to the whole tree by moving up the directory and using the chgrp command;

```
‣ cd ..
```

```
▸ sudo chgrp –R _www openeyesdev
```

You should also ensure that the tree is group writeable using the following command;

```
▸ sudo chmod –R 775 openeyesdev
```

Downloading OpenEyes

There are two ways of downloading the software. If you have a github account, and a local ssh key which is associated with it, you can clone the repository. The advantage of this approach is that it is then easy to install updates using git pull. The alternative is to download the software using HTTP.
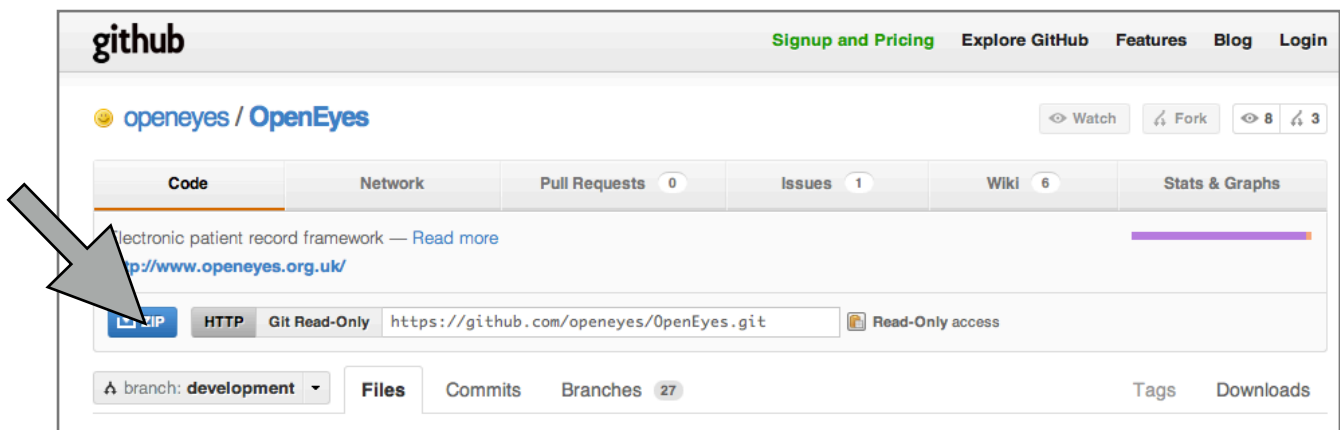
Installation using Git

Ensure you have Git installed, have created a GitHub account, and have uploaded an ssh key. Detailed instructions on how to do this can be found here. Run the following command which will clone the current version of the software into the present working directory (openeyesdev);

```
▸ cd openeyesdev
▸ git clone git@github.com:openeyes/OpenEyes.git
```

Once the download is complete, you will have a new subdirectory called OpenEyes in the openeyesdev folder.

Installation using HTTP

Point your browser to the OpenEyes page on GitHub here. Click on the 'zip' button to download the repository.

Once downloading is complete, unzip the file, and copy the contents into the openeyesdev directory;

```
▸ cp –Rfp ~/Downloads/openeyes–OpenEyes–d7b2a88 OpenEyes
```

NB. You will need to edit the above line to correspond with the name of the unzipped folder.

Branches

Decide which branch you wish to use; the available branches can be shown using the following command;

```
‣ git branch -r
```

We recommend sticking with the development branch for the core, but to track another branch use;

```
‣ git checkout -t origin/release/1.2-moorfields
```

Configure OpenEyes

OpenEyes has a local configuration file which needs to be generated. Change directory to the local configuration folder, and read the README file;

```
‣ cd OpenEyes/protected/config/local
‣ more README
```

Follow the instructions, which (at the time of writing of this manual) involve creating a copy of the template file and editing it with (as a minimum) your database configuration details (username, password);

```
‣ cp common.sample.php common.php
‣ edit common.php
```

Create a runtime directory in the protected folder, and give it write permissions;

```
‣ cd ../..
‣ mkdir runtime
‣ chmod -R 775 runtime
```

Make the assets folder writeable too

```
‣ chmod -R 775 ../assets
```

Create an index.php file

```
‣ cd ..
‣ cp index.example.php index.php
```

Set up the database

1. Create the database

Using MySQL client or equivalent, create a database called 'openeyes', with appropriate permissions and password corresponding to those in the config file (see above). The credentials will be put into the common.php configuration file in a subsequent step.

2. Create tables

Create and populate the database using the Yii migration system as follows;

```
‣ cd ~/Sites/openeyesdev/OpenEyes/protected
‣ ./yiic migrate
```

3. Install sample data

Install the sample data module and import the sample data set.

```
‣ cd ~/Sites/openeyesdev/OpenEyes/protected/modules
‣ git clone https://github.com/openeyes/Sample.git sample
‣ cat sample/sql/openeyes.sql | mysql -u root -p openeyes
```

Troubleshooting

1. If you have problems with inserts during migration, ensure mysql is not in strict mode. In the config file of your mysql installation, remove STRICT_TRANS_TABLES and/or STRICT_ALL_TABLES from the sql-mode option.

2. Migration failures may occur because of old SQL in the cache directories. The following commands will clear the caches;

```
‣ cd ~/Sites/openeyesdev/OpenEyes
‣ rm -rf cache/*
‣ rm -rf protected/cache/*
```

Testing

If everything has gone according to plan, you should now be able to test the installation by pointing your browser to a link similar to this;

http://localhost/openeyesdev/OpenEyes/

This should show a login page as in the following screen shot. Login in with a username of 'admin' and a password of 'admin'.

Install Optional Modules

OpenEyes will not do much without any event types, which (apart from booking) are loaded as optional modules. The following steps are required to install the operation note module and EyeDraw. Installation of subsequent modules will be similar, and will be covered by separate installation manuals.

1. Download the module

This event type allows recording of operation notes, and also depends on the EyeDraw module being loaded. These two modules are installed as follows.

```
‣ cd ~/Sites/openeyesdev/OpenEyes/protected/modules
‣ git clone https://github.com/openeyes/EyeDraw.git eyedraw
‣ git clone https://github.com/openeyes/OphTrOperationnote.git
  OphTrOperationnote
```

2. Add to the module array in the config file

Yii needs to know about which modules to load so add this to the configuration file.

```
‣ edit ~/Sites/openeyesdev/OpenEyes/protected/config/local/
  common.php
```

The array should look like this after editing

```
'modules' => array(
        'OphTrOperationnote',
    ),
```

Note that only the event type modules need to be added here, EyeDraw provides widgets that the event type modules can use but isn't an event type module itself and so doesn't need to be included in this array.

3. Run module specific migrations

The following commands will run any database migrations required for this module

```
‣ cd ~/Sites/openeyesdev/OpenEyes/protected
‣ ./yiic migrate --
  migrationPath=application.modules.OphTrOperationnote.migrations
```

Current modules

Current modules are listed [here](#).

Updating

Assuming you have installed OpenEyes using Git, the following commands will download the latest version of the software;

```
‣ cd ~/Sites/openeyesdev/OpenEyes
‣ git pull
```

References

3. OpenEyes Ubuntu Server Setup
4. OpenEyes Mac Development Setup
5. OpenEyes Windows Server Setup