## **Upgrade OpenEMR 3.0.1 Appliance To 3.1.0**

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#### LINK TO MANUAL IN PDF FORMAT

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## Introduction

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This is a rather special upgrade and will consist of several steps. First we will upgrade to OpenEMR version 3.1.0. Then you can consider converting your database to UTF-8 and upgrading to most recent language translation tables. Converting to UTF-8 is not for everybody, so please read that section carefully before embarking on the UTF-8 database conversion.

# Please, back up all of your data, and use these instructions at your own risk.

## **Upgrading to OpenEMR 3.1.0**

Main TOC Link

1. Enter below **bolded** instructions on command line (if prompted to give password during the sudo command, then use 'openemrcool'):

```
#Download openemr-3.1.0.tar.gz (version 3.1.0)
wget downloads.sourceforge.net/openemr/openemr-3.1.0.tar.gz
```

```
#install php5-gd package
sudo aptitude update
sudo aptitude install php5-gd
    -enter 'Y'
    -enter 'Y'
```

```
#make backup directories
sudo mkdir /backupopenemr
sudo mkdir /backupopenemr/3_0_1
```

```
#Backup the mysql openemr database into backup directory.
sudo mkdir /backupopenemr/3_0_1/mysqldatabase
sudo sh -c 'mysqldump openemr >
    /backupopenemr/3 0 1/mysqldatabase/mysql backup.sql'
```

```
#move old OpenEMR 3.0.1 to the backup directory
sudo mv /var/www/openemr /backupopenemr/3_0_1/openemr
```

```
#put the new OpenEMR 3.1.0 program in its place
cd /var/www
sudo tar pxzvf /location/to/tar/openemr-3.1.0.tar.gz
sudo mv openemr-3.1.0 /var/www/openemr
```

```
#secure OpenEMR
sudo chown -Rf root:root openemr
```

```
# Restore some original directories
sudo cp -fr /backupopenemr/3_0_1/openemr/documents
/var/www/openemr/
sudo cp -fr /backupopenemr/3_0_1/openemr/era
/var/www/openemr/
sudo cp -fr /backupopenemr/3_0_1/openemr/edi
/var/www/openemr/
sudo cp -fr
/backupopenemr/3_0_1/openemr/custom/letter_templates
/var/www/openemr/custom
```

#Need to change some file/folder permissions
sudo chown -R www-data:www-data
/var/www/openemr/documents
sudo chown -R www-data:www-data /var/www/openemr/edi
sudo chown -R www-data:www-data /var/www/openemr/era

sudo chown -R www-data:www-data
/var/www/openemr/custom/letter\_templates
sudo chown -R www-data:www-data
/var/www/openemr/gacl/admin/templates\_c
sudo chown -R www-data:www-data
/var/www/openemr/library/freeb

sudo chown -R www-data:www-data /var/www/openemr/interface/main/calendar/modules/PostCal endar/pntemplates/cache

sudo chown -R www-data:www-data /var/www/openemr/interface/main/calendar/modules/PostCal endar/pntemplates/compiled

- #Now for the hardest part of the upgrade; editing the new config files. There are three files that need to be compared to your old config files:
- openemr/library/sqlconf.php: Ensure the variables (\$host, \$port, \$login, \$pass, \$dbase) at top of file are the same as the variables from previous 3.0.1 version. Also, change the \$config variable (found near bottom of file within all the slashes) to \$config = 1;

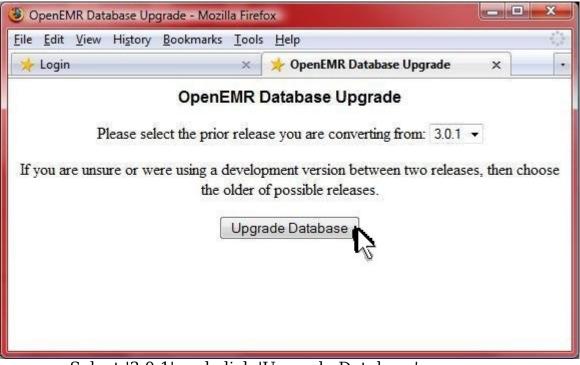
**openemr/interface/globals.php**: Ensure the variables (\$webserver\_root, \$web\_root) at top of file are the same as the variables from previous 3.0.1 version. Also ensure optional settings are configured like previous 3.0.1 version.

- **openemr/includes/config.php**: Ensure optional settings are configured like previous 3.0.1 version.
- For the openemr 3.0.1/3.1.0 appliance, luckily, only one change is required in /var/www/openemr/library/sqlconf.php .

#### **TEXT EDITOR SAVE AND EXIT**

3. Next, need to upgrade the mysql database. Now, open a webbrowser outside the appliance and point to (the APPLIANCE\_IP\_ADDRESS was found by above <u>ifconfig</u> command):

https://APPLIANCE\_IP\_ADDRESS/openemr/sql\_upgrade.php



Select '3.0.1' and click 'Upgrade Database'.

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ALTER TABLE form_reviewofs CHANGE hand_problems hand_problems varchar(5)	
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ALTER TABLE form_reviewofs CHANGE ankle_problems ankle_problems varchar(5)	
ALTER TABLE form_reviewofs CHANGE foot_problems foot_problems varchar(5)	
ALTER TABLE form_reviewofs CHANGE insulin_dependent_diabetes insulin_dependent_diabetes varchar(5	)
ALTER TABLE form_reviewofs CHANGE noninsulin_dependent_diabetes noninsulin_dependent_diabetes	
varchar(5)	
ALTER TABLE form_reviewofs CHANGE hypothyroidism hypothyroidism varchar(5)	
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ALTER TABLE form_reviewofs CHANGE cushing_syndrom cushing_syndrom varchar(5)	
ALTER TABLE form_reviewofs CHANGE addison_syndrom addison_syndrom varchar(5)	
ALTER TABLE gaci_phpgaci MODIFY value varchar(150) NOT NULL	
ALTER TABLE gacl_acl MODIFY section_value varchar(150) NOT NULL default 'system'	
ALTER TABLE gacl_acl_sections MODIFY value varchar(150) NOT NULL	
ALTER TABLE gacl_aco MODIFY section_value varchar(150) NOT NULL default '0'	
ALTER TABLE gaci_aco MODIFY value varchar(150) NOT NULL	
ALTER TABLE gacl_aco_map MODIFY section_value varchar(150) NOT NULL default '0'	
ALTER TABLE gacl_aco_map MODIFY value varchar(150) NOT NULL	
ALTER TABLE gacl_aco_sections MODIFY value varchar(150) NOT NULL	
ALTER TABLE gac1_aro MODIFY section_value varchar(150) NOT NULL default '0'	
ALTER TABLE gacl_aro MODIFY value varchar(150) NOT NULL	
ALTER TABLE gacl_aro_map MODIFY section_value varchar(150) NOT NULL default '0'	
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Database upgrade finished.	ļ

Ensure you got no errors. Close the window.

4. Next, need to upgrade the php-GACL access controls. Open a webbrowser outside the appliance and point to (the APPLIANCE\_IP\_ADDRESS was found by above <u>ifconfig</u> command): https://APPLIANCE\_IP\_ADDRESS/openemr/acl\_upgrade.php

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5. Secure openemr . Enter below **bolded** instructions on command line (if prompted to give password during the sudo command, then use 'openemrcool'):

sudo chmod 600 /var/www/openemr/acl\_setup.php sudo chmod 600 /var/www/openemr/acl\_upgrade.php sudo chmod 600 /var/www/openemr/sl\_convert.php sudo chmod 600 /var/www/openemr/setup.php sudo chmod 600 /var/www/openemr/sql\_upgrade.php sudo chmod 600 /var/www/openemr/sql\_upgrade.php

## **Upgrade Database to UTF-8**

Main TOC Link

OpenEMR 3.1.0 is 100% UTF-8 compliant to allow special character languages (such as chinese, greek, etc.), however users that are upgrading from a previous version of OpenEMR will continue to have a hybrid UTF-8/latin1 database and thus won't have 100% UTF-8 compliance. Several ways to go for upgraders:

(If decide to convert to UTF8, ensure you backup the database before conversion.)

1) If your only using english characters currently and plan on only using English characters in the future, then doing a simple OpenEMR upgrade will suffice (no need to convert to database to 100% UTF-8).

2) If your only using english characters, however, plan to use a language with any special non-english characters in the future, then you should consider converting your database to 100% UTF-8. In this special case (since you were only using english characters previously) then a simple conversion will work. So, you would do the simple OpenEMR upgrade discussed elsewhere and then do following two command line commands on your upgraded database (assuming database name is openemr):

Step1) mysql --database=openemr -B -N -e "SHOW TABLES" | awk '{print "ALTER TABLE", \$1, "CONVERT TO CHARACTER SET utf8;"}' | mysql --database=openemr &

Step2) mysql -e "ALTER DATABASE openemr CHARACTER SET utf8;" (NOTE that above will alter your database and could possibly screw it up, so BACK IT UP first)

3) If your currently using non-english characters, and want to continue supporting non-english characters. This is the hard one, because OpenEMR's previous releases did not do a very good job maintaining consistent encoding in the database (a very common problem in other software also). You could try above strategy in number 2, however you have a possibility of getting garbage. If 2) doesn't work, then you will likely need to go a strategy like the following linked below:

http://codex.wordpress.org/Converting\_Database\_Character\_Sets

To repeat:

---This only pertains to users that are upgrading (users that are installing 3.1.0 new do not need to worry about this stuff)

---Upgraders that are only planning to use english characters do not need to worry about this stuff. (unless you want to be cool, and say your using OpenEMR with 100% compliance...)

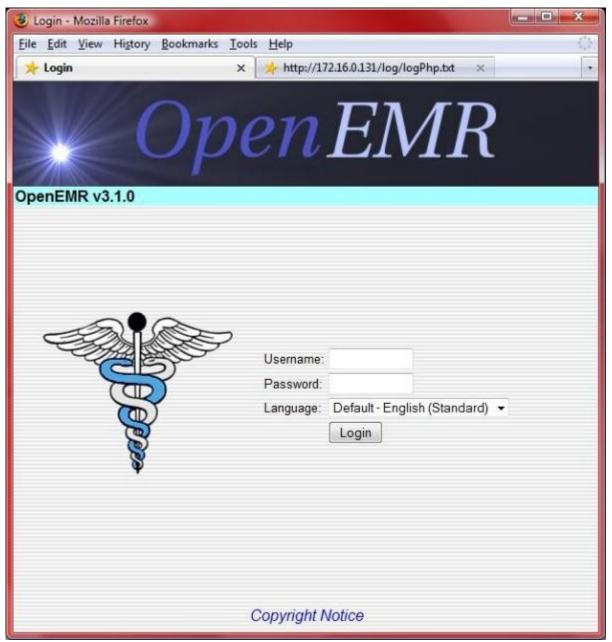
For the appliance upgrade, I will convert via step 2 (since there is no data in the blank appliance, it is straighforward). Enter below **bolded** instructions on command line (if prompted to give password during the sudo command, then use 'openemrcool'):

## **Upgrade Language Translation Tables**

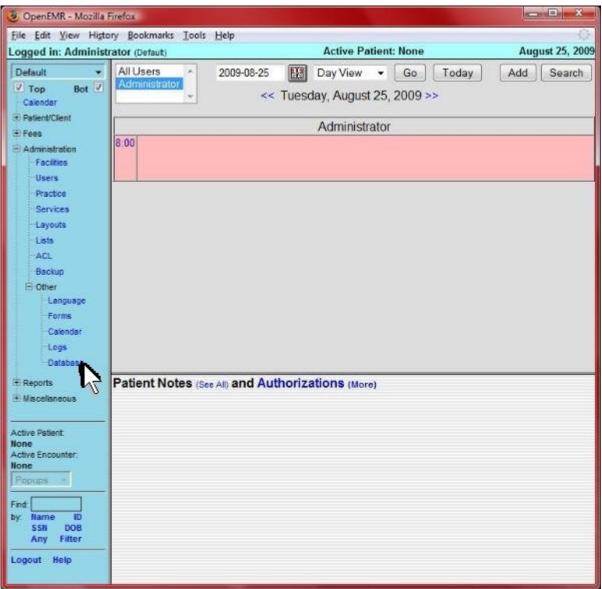
Main TOC Link

Here we will upgrade to the language translation tables published with OpenEMR 3.1.0 . This is very simple to do. **Note, however, that this will delete all current local language translation tables.** 

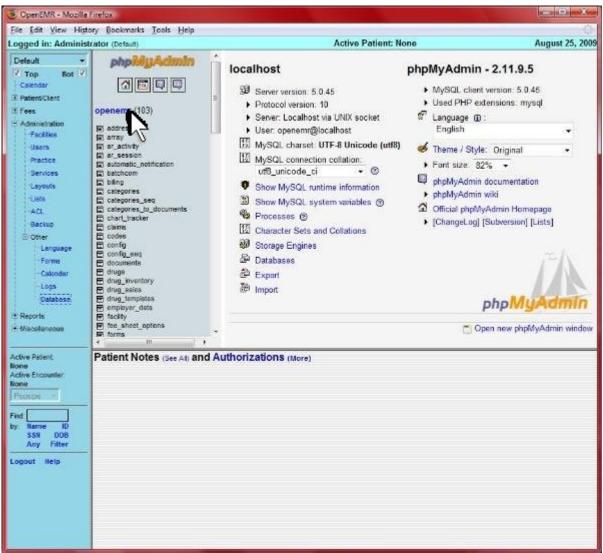
- 1. Download translation sql tables from sourceforge to desktop (via 'File'->'Save Page as'): <u>http://openemr.cvs.sourceforge.net/viewvc/openemr/openemr/contrib/util/language\_translations/currentLanguage\_utf8.sql?revision=1.11.2.6</u>
- 1. Login to OpenEMR:



Login.



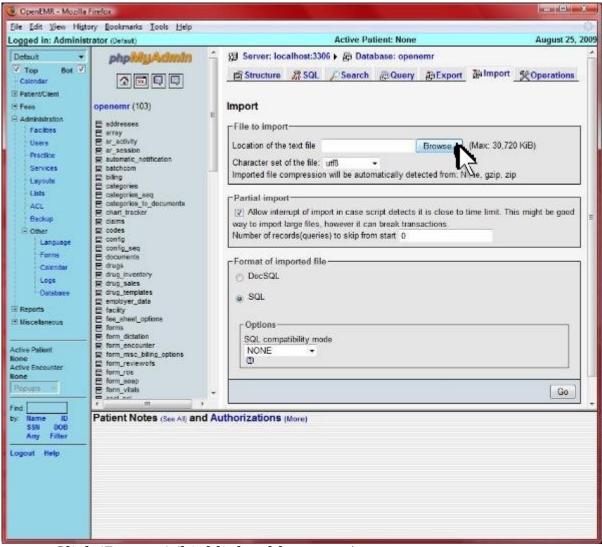
Click 'Administration'->'Other'->'Database' from left tree menu.



Click 'openemr' database link near top left (highlighted by arrow).

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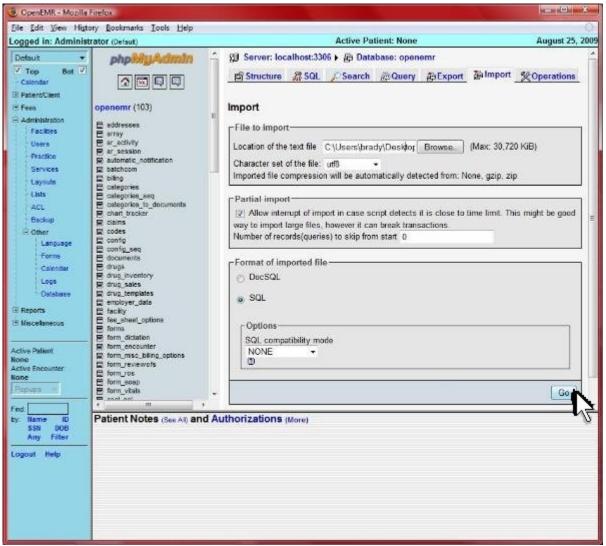
Click 'Import' near top right (highlighted by arrow).



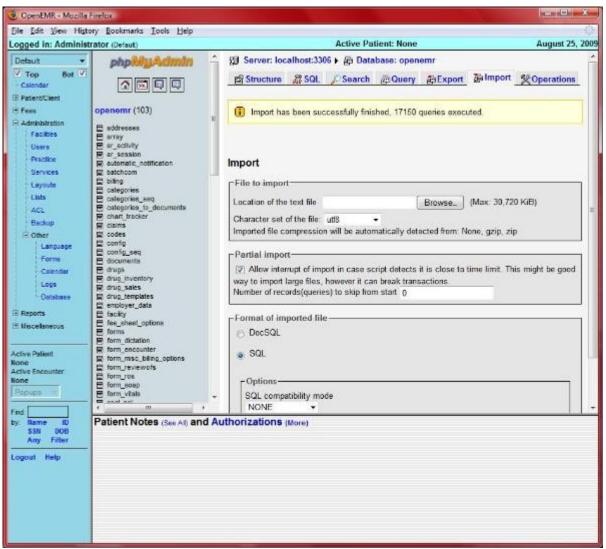
Click 'Browse' (highlighted by arrow).

	Marking Strange	<ul> <li>★y Search</li> </ul>	
👌 Organize 👻 👭 Vie	vs 🔻 🧾 New Folder		U.
Favorite Links	Name         Size         Type         Date modified           21959A_Stamatoyannpoleus_UT MD Anderson_with cover It         Adobe Professional         adwordKeywords.bt           adwordKeywords.bt         AML_purchese.doc         AML_purchese.doc           AMM_proteomics.pdf         analyticsTags.bt           applianceL         applianceL         applianceL           applianceL         Bach Flower Remedies course.pdf         Biole_grant.pdf           Bach Flower Remedies course.pdf         biole_grant.pdf         CCHT_Stuff.txt           CCITT_1.tif         CCITT_1.tif         CCITT_1.tif	r.pdf CellLinesLeukemia.pdf CHANGELOG.php Command Prompt controller.php.jpg Copy of buy_vs_rent-1.xls Copy of mortgagecalc.xls Cover_Letter_111008.doc Cover_Letter_111008.doc Cover_Letter_111008.doc Cover_Letter_11008.doc Cover_L	
	* *	✓ Al Files	

Select the 'currentLanguage\_utf8.sql' file that you downloaded in above first step, and click 'Open'.



Click 'Go' at bottom right (highlighted by arrow). After click, the import can take up to a minute or so.



After import is done, you should see the above yellow banner stating the import has been successfully finished.

#### ALL DONE

## Appendix

## A. Configuring client web browser for https

Main TOC Link

1. For security, this appliance forces users to use https (encrypted) over a web browser. Because we are using a homemade security certificate (real certificates cost money), most new web browsers will give a security error. This can easily be dealt with by following the browser instructions to create an exception. I have posted steps for both <u>Firefox</u> and <u>Internet Explorer</u>.

2. Firefox:



Click 'Or you can add an exception...'.

Page Load Error -	Mozilla Firefox	
<u>File Edit View Hi</u>	istory Delicious Iools Help	1.1
A Page Load Error	r x	•
	Secure Connection Failed         192.168.1.167 uses an invalid security certificate.         The certificate is not trusted because it is self signed.         The certificate is not valid for any server names.         (Error code: sec_error_untrusted_issuer)         • This could be a problem with the server's configuration, or it could be someone trying to impersonate the server.         • If you have connected to this server successfully in the past, the error may be temporary, and you can try again later.	
	You should not add an exception if you are using an internet connection you do not trust completely or if you are not used to seeing a warning for server.	
	Get me out of here! Add Exception	
	13	
	530	
Done		
ļ.		and the second

Click the 'Add Exception...' button.

ocation: http	s://192.168.1.167/oper	nemr/setup.php	Get Certificate
ertificate Statu		anananan muudoonalaiseen anna coona an	
crimente stata	-		<u>V</u> iew
			L

Click the 'Get Certificate' button. (DO NOT edit the 'Location:')

erver —		
ocation:	https://192.168.1.167/openemr/setup.php	<u>G</u> et Certificate
Certificate	Status	
his site at	tempts to identify itself with invalid informatio	n. View
Nrong Sit		
-	<ul> <li>belongs to a different site, which could indicat</li> </ul>	e an identity theft.
Jnknown	d de seu 🖉 e antes aconstructura constructo e constructo e seu constructo e seu constructo e seu constructo e seu constructore de s	
	is not trusted, because it hasn't been verified b	y a recognized authority.

Click 'Confirm Security Exception'. Ensure 'Permanently store this exception' is checked, so you don't have to go through this every time. Also, DO NOT change 'Location:'.

#### ALL DONE, go back and continue your previous instructions.

3. Internet Explorer:



Click 'Continue to this website'.

ALL DONE, go back and continue your previous instructions.

## **B.** Author Email and License/Disclaimer

Main TOC Link

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www.bradymd.com

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