





SOP: OPENMRS 2.x UPGRADE USING AUTO-SCRIPT

This is a technical user guide on the automated process of OpenMRS 2.x platform upgrade and configuration using an automated installation script. The document outlines the process for installation on Ubuntu Desktop and Ubuntu Server (Version 20.04).

Objective: To provide simplified guidance to users on how to perform OpenMRS 2.x platform upgrade on Ubuntu 20.04 environment.

Target audience: SI, Dev, M&E, HIS

Last Update: 20th Jul 2021

OpenMRS Dependencies:

The following dependencies are required for successful OpenMRS installation and will be automatically installed by the script.

- i. Ubuntu 20.04LTS
- ii. Java 8
- iii. Tomcat 9
- iv. MySQL 5.6

Other Requirements:

- Stable internet access
- Upgrade package
- Installation Script

Step 0: Backup the database

You may Initiate database backup manually by running the **openmrs-backup-script** script or you may perform MySQL dump by running the following command:

mysqldump -uroot -p openmrs|gzip > backup_name_and date.sql.gz [ENTER]







Step 1: Obtain installation resources: Obtain a functional copy of ubuntu 20.04 installation package. This could be either Ubuntu desktop or Ubuntu Server. You can obtain the Ubuntu .iso file from <u>here</u> . Refer <u>to this link</u> for a guide on how to install Ubuntu Server 20.04LTS	Name tautobak
<pre>Step 2: Obtain installation resources: Obtain correct OpenMRS Upgrade resources and copy to Home directory. Confirm that the following resources are available:</pre>	 datatools db dictionary modules openmrs-backup-tools scripts tomcatinstallation installsetup.bash openmrs.war PLEASE READ ME.txt setup_script.sh
The Installation folder should be name as OMR2.x. The content should look as shown in the diagram.	
Step 3: Prepare environment for script execution i. Pick up the backup and extract a copy in the db directory. Rename the file to openmrs.sql NB: It is imperative that you have all the files and folders required as indicated in Fig 1 above.	Name openmrs.sql Fig2. Renamed backup database







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Step 4: Execute the upgrade file. (.bash file)	
Open the terminal window and navigate to the directory that contains the	
resources like $(+r+\lambda]++\pi$	
Navigate into the folder: cd /folder_name [ENTER]	
Type the following command to initiate the ungrade process:	
Type the following command to initiate the upgrade process.	botienoh@botienoh:~\$ cd OMR2.xFull/
	botienoh@botienoh:~/OMR2.xFull\$ 11
sudo bash installsetup bash [ENTER]	total 99384
	drwxrwxr-x 10 botlenon botlenon 4096 Jul 19 08:08 ./
	drwxrwxr-x 2 botienoh botienoh 4096 Jul 14 09:44 autobak/
Enter the correct sudo password	drwxrwxr-x 3 botienoh botienoh 4096 Jul 14 09:44 datatools/
	drwxrwxr-x 2 botienoh botienoh 4096 Jul 14 09:48 db/
Monitor the process and respond to all the prompts as displayed on the screen	drwxrwxr-x 2 botienoh botienoh 4096 Jul 14 09:45 dictionary/
during the process.	-rw-rw-r 1 botienoh botienoh 3947 Jul 14 10:44 installsetup.bash
	drwxrwxr-x 2 botlenoh botlenoh 4096 Jul 14 09:45 modules/
The setup will perform the following actions:	-rw-rw-r 1 botienoh botienoh 101714214 Jul 12 07:24 openmrs.war
- Install ansible playbook app	-rw-rw-r 1 botienoh botienoh 1750 Jul 6 06:05 'PLEASE READ ME.txt'
	drwxrwxr-x 2 botienoh botienoh 4096 Jul 14 09:45 scripts/
- Install Java 8	-rw-rw-r 1 botienoh botienoh 1553 Jul 1 07:49 setup_script.sh
- Install and configure tomcat9	drwxrwxr-x 2 botienoh botienoh 4096 Jul 14 09:45 tomcatinstallation/
	bolienongbolienon:~/omkz.xruii\$ sudo bash instalisetup.bash
- Restore the facility database	
- Create cron-job for auto-backup	
- Install and setup KenvaEMR data tools	
Dorform all the housekeeping tacks	







 Step: 5: Launch OpenMRS Once the process in Step 4 is completed, it is time to launch the OpenMRS. Start the browser and enter the correct address i.e <u>http://localhost:8080/openmrs</u> OpenMRS will open in maintenance mode as shown Click "Next" (Green button) 	OpenMRS Core 2.3.3 Installation Wizard Which language do you prefer? English ~ Remember this choice English
 On the next screen, select "Advanced" as type of installation (Step 1) On the next screen Select "Yes" (Step 2) Next click "No" on the next screen and enter MySQL root password (step 3) Select "Yes" on the next screen on the first question and select "No" on the second one (Step 4) One the last screen (Step 5 of 5), leave all the fields blank and click "Next" Under "Review" page, scroll down and click "Next" to initiate the database updates. 	Seg 1 Seg 1 Subjective determines Subjective detet







Database update progress window should look like the one shown here....-> Wait for the updates to complete successfully and the KenyaEMR login page displays.



Section 2: Troubleshooting

1. KenyaEMR launches with a red ribbon:

This may point to issues with the database definitions or lack of proper access rights to "openmrs_user".

a. Fix User rights

- Log into MySQL and gradn all the privilgess to "openmrs_user" (grant all privileges on *.* to `openmrs_user'@'localhost';)
 [ENTER]
- Persist the privileges: (flush privileges;)[ENTER]









b. Fix database definitions issues

- Log into MySQL and drop the **openmrs** database
- Create new **openmrs** database and make it default
- Source the facility database into the newly created one
- Pick the kenyaemr_upgrade_package_18.0.0 and run the setup_file.sh normally.
- Wait till the process is completed.
- Launch the browser and launch KenyaEMR page.
- Log in using Admin username.
- Set the default facility before you continue.

THE END