

# ESP Upgrade steps to ESP 3.7

Includes Upgrades to Python (3.8) and Django (3.2)

# **Revision History**

Version Number	Modification Date	Ву	Description of Changes
1.0	8 Sep 2023	J. Miller	Initial version
1.1	13 Sep 2023	J. Miller	Added verify python3.8 steps

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# **1** Overview and Purpose

This document covers the upgrade of ESP from any prior version to ESP 3.7. The full steps Include installing a newer version of Python and Django and rerunning the script to create the virtual environment.

ESP 3.7 version is backwards compatible with the existing Python version. Therefore, if a site prefers, it can choose to not update Python at this time. (Or if they are having issues installing the new packages) **To continue using the existing Python Skip steps 2.7 and2.8** 

If the system has the available space in the /srv partition, it is HIGHLY recommended that you can create a backup of the existing installation by executing the following command:

sudo cp -pr /srv/esp/prod /srv/esp/prod-mmddyyy

NOTE: For a new installation see ESP Wiki and the Document: How To Install and Configure ESP 3.7 or later on Ubuntu or Redhat and PostgreSQL

## **2** Instructions

If you have any questions or encounter any issues with these steps or any part of this upgrade, please reach out to Commonwealth Informatics for support at <u>esp\_support@commoninf.com</u>

## 2.1 SSH to the ESP server

Use putty or the client of your choice to ssh into the ESP system

#### 2.2 Switch to the esp user

sudo su - esp

## 2.3 Change to the primary ESP install directory and get list of plugins

cd /srv/esp/prod

Note: This is the standard ESP installation directory. If the local ESP installation is in a different directory, modify the path to reflect the correct location.

./bin/esp nodis --list

Save this list of plugins, you will need to reinstall them after the upgrade.

## 2.4 Verify the current local git branch

cd /srv/esp/prod git branch

#### Example output:

\$ git branch master

\* version3.5.7.2



## 2.5 Fetch the full list of branches from the Git Repository

git fetch

## 2.6 Checkout the latest 3.7 branch

Git tag # this will show you all the tagged versions. # select the highest number i.e. v3.7.1 and substitute as shown below:

git checkout **v3.7** -b version3.7

#### Example with output:

```
$ git checkout v3.7 -b version3.7
Switched to a new branch 'version3.7'
```

## 2.7 Run the upgrade-python3.sh script (or upgrade-python3-rhel.sh)

cd /srv/esp/prod

Depending on the operating system you will run one of the following:

UBUNTU: sudo ./upgrade-python3.sh

RHEL: sudo ./upgrade-python3-rhel.sh

## 2.8 Verify that python3.8 is installed

Perform the following as the esp user

```
sudo su - esp
```

#### type:

which python3.8

#### **REQUIRED OUTPUT:**

#### UBUNTU:

/usr/bin/python3.8

#### RHEL:

/usr/bin/python3.8 OR /opt/rh/rh-python38/root/usr/bin/python3.8 # RHEL 8.x

# RHEL 7.x



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#### To see the specific version, Type:

python3.8 -V

### SAMPLE OUTPUT:

python3.8.16

Note: If these do not line up with expected responses, please contact Commonwealth Informatics for assistance @ esp\_support@commoninf.com

# 2.9 Run the install script to install the python virtual environment

cd /srv/esp/prod

UBUNTU: ../install.sh

RHEL7: ./install-rhel7.sh

RHEL8: ./install-rhel8.sh

If you receive the following error:

ModuleNotFoundError: No module named 'pip'

Run the following commands:

source bin/activate
wget https://bootstrap.pypa.io/get-pip.py
python3.8 get-pip.py
deactivate

Rerun the ./install.sh ( or ./install-rhelx.sh) script from the previous step

If you continue to encounter error or any issues, contact support at <a href="mailto:esp\_support@commoninf.com">esp\_support@commoninf.com</a>

# 2.10 Run makeini to generate updated entries in application.ini

/srv/esp/prod/bin/esp makeini



## 2.11 Run collectstatic to generate updated static files

/srv/esp/prod/bin/esp collectstatic
(answer yes to the prompt to copy over files)

## 2.12 Run migrate to apply the database updates

/srv/esp/prod/bin/esp migrate

## 2.13 Restart Apache/Httpd

UBUNTU: sudo systemctl restart apache2

RHEL: sudo systemctl restart httpd

## 2.14 Verify or reinstall the Condition Algorithms from step 2.3

cd /srv/esp/prod
./setupPlugins.sh

select each condition and select install - then go to the bottom and select "perform selected actions"

Once the command prompt returns, verify the plugins are installed by typing:

bin/esp nodis -list

## 3. Verification

#### 3.1 UI - ESP Admin Interface

Verify that you can login to the Browser based UI and that the status page loads properly.

Load the two pages below to verify basic functionality:

1 - Navigate to the Administration drop down menu and Select "Site Administration"

Select "Condition Configs" under the Conf heading near the top of the page You should see a list of conditions and settings

2 – Next select the "home" breadcrumb link or click the back button and then

Scroll down to the EMR section and select "Provenances" You should see a list of files loaded, the most recent at the top.

Next verify basic Command line functionality

## 3.2 OS-Command Line – ESP Command Line Interface

ssh in to the ESP server and execute the following commands (update the directory as needed.)



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- 1. cd /srv/esp/prod
- 2. bin/esp nodis -list # this should produce a list of installed plugins sample
   below:

chlamydia depression gonorrhea hepatitis\_b ...

tuberculosis

3. bin/esp migrate -list completed (marked X)

....

 $\ensuremath{\#}$  this should produce a list of migrations - all should be

admin [X] 0001\_initial auth [X] 0002\_alter\_permission\_name\_max\_length [X] 0003\_alter\_user\_email\_max\_length [X] 0004\_alter\_user\_username\_opts [X] 0005\_alter\_user\_last\_login\_null [X] 0006\_require\_contenttypes\_0002 conf [X] 0001\_initial [X] 0002\_load\_initial\_data [X] 0003\_auto\_20160513\_1020 [X] 0004\_auto\_20180619\_1326 [X] 0005\_auto\_20180829\_1148 [X] 0006\_SynchReportableRXDX