

ESP Update Instructions from 3.4.13 to 3.5.x

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1 Overview

This document covers the upgrade from ESP version 3.4.13 to 3.5.x

NOTE: If you are running a version prior to 3.4.13, please update to 3.4.13 before upgrading to 3.5.x

ESP Release notes are found here - > <https://gitlab.com/ESP-Project/ESP/-/releases>

2 Instructions

2.1 SSH to the ESP server

ssh to the esp server as esp or other local user

2.2 Switch to the esp user

```
sudo su esp
```

2.3 Change to the primary ESP install directory

```
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.

2.4 Get a list of the conditions installed

```
bin/esp nodis --list
```

Save the results of this command as you will refer to this list to reinstall the plugins following the upgrade.

2.5 Verify the current git branch

```
git branch
```

Example output:

```
$ git branch
  master
* version3.4.13
```

Verify that the branch with the (*) is version 3.4.13

If the branch is older than 3.4.13, you need to update to 3.4.13 first, then you can go to 3.5.x

If the branch is older than 3.4, please contact CII for assistance with the upgrade.

2.6 Fetch the latest branches from the repository

```
git fetch
```

2.7 Checkout the latest 3.5 branch

```
cd /srv/esp/prod (or current ESP root install location)
git checkout v3.5.1 -b version3.5.1
```

Example Output:

```
$ git checkout v3.5.1 -b version3.5.1
Switched to a new branch 'version3.5.1'
```

2.8 Install python3.6 and the latest pip

To update python and required system packages, run the following as root or a user with sudo privileges:

```
UBUNTU:
sudo ./install-system-dependencies.sh
```

```
RHEL:
sudo ./install-system-dependencies-rhel7.sh
```

or manually install python3.6 and the (OS appropriate) python development pkg

```
UBUNTU:
sudo apt get install python3 python3-dev libapache2-mod-wsgi-py3
```

```
RHEL:
sudo yum install python3 python3-devel libapache2-mod-wsgi-py3
```

Verify python 3.6 is installed

To verify that python3 is installed type:

```
which python3
```

and to see the full version type:

```
python3 --version
```

SAMPLE OUTPUT:

```
Python 3.6.8
```

To see the system default type:

```
python --version
```

SAMPLE OUTPUT:

```
Python2.7.15+
```

To see all the installed versions and their links type:

```
ls -al /usr/bin/python*
```

To update pip – as the esp user type:

```
source /srv/esp/prod/bin/activate
pip install --upgrade pip
pip --version
deactivate
```

NOTE:

If possible, perform a yum or apt update and/or upgrade and reboot the system to get it up to the latest patch levels. This may need to be coordinated with the local IT department and System Support Staff.

2.9 Run `install.sh` to setup the python virtualenv

As the esp user:

```
cd /srv/esp/prod/
```

```
Ubuntu:      ./install.sh
```

```
RHEL:        ./install-rhel7.sh
```

2.10 (Re)Run `setupPlugins` and `collectstatic`

```
./setupPlugins - select the plugins from the saved list from Step 2.4
```

```
/srv/esp/prod/bin/collectstatic - answer yes when prompted to update
```

2.11 Update `Django.wsgi`

```
cd /srv/esp/prod/etc  
vi django.wsgi
```

Replace this line:

```
execfile('/srv/esp/prod/bin/activate_this.py')
```

with this:

```
exec(compile(open('/srv/esp/prod/bin/activate_this.py').read(), '/srv/esp/prod  
/bin/activate_this.py', 'exec'))
```

Save and Exit (:wq)

2.12 Apply the database updates

First, remove stale pyc files – type:

```
rm ESP/conf/migrations/*.pyc  
rm ESP/emr/migrations/*.pyc  
rm ESP/static/migrations/*.pyc  
rm ESP/nodis/migrations/*.pyc  
rm ESP/hef/migrations/*.pyc  
rm ESP/vaers/migrations/*.pyc
```

NOTE on VAERS (Vaccine Adverse Event Reporting System):

If your site is running VAERS or if are not sure if VAERS is enabled at your site,
Please contact cii for support at esp_support@commoninf.com

If you are confident that you are not running VAERS – Run the following command:

```
rm /srv/esp/prod/ESP/vaers/migrations/0005_load_fixtures.py
```

Run the database migrations for 3.5:

```
/srv/esp/prod/bin/esp migrate
```

2.13 Restart Apache

Ubuntu: `sudo service apache2 restart`

RHEL: `sudo systemctl restart httpd`

3 Verification Steps

3.1 Generic Verification Steps

3.1.1 UI - ESP Admin Interface

Verify 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 Configurations” 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.

3.1.2 OS-Command Line – ESP Command Line Interface

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

```
cd /srv/esp/prod
```

```
./bin/esp nodis --list # this should produce a list of installed plugins – sample below:  
anaplasmosis  
asthma
```

chlamydia
depression
gonorrhoea
hepatitis_b
hepatitis_c
hiv
hypertension
syphilis
tuberculosis

./bin/esp migrate --list # this should produce a list of migrations - all should be completed
(marked X)

```
admin
[X] 0001_initial
auth
[X] 0001_initial
[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
[X] 0007_AnaplasBabesioConfigs
contenttypes
[X] 0001_initial
[X] 0002_remove_content_type_name
emr
[X] 0001_initial
[X] 0002_auto_20151204_1116
[X] 0003_auto_20160513_1020
[X] 0004_load_initial_data
[X] 0005_auto_20160811_0535
[X] 0006_auto_20170925_1308
[X] 0007_auto_20180829_1148
[X] 0009_RiskFactors_04162019
[X] 0010_Facility_ProviderIDs_04162019
[X] 0011_Encounter_fields_renamed
hef
[X] 0001_initial
[X] 0002_auto_20151204_1050
nodis
[X] 0001_initial
[X] 0002_auto_20160513_1020
[X] 0003_auto_20160624_1615
[X] 0004_auto_20170918_1419
[X] 0005_auto_20170918_1515
[X] 0006_auto_20170919_1049
[X] 0007_auto_20171018_1415
[X] 0008_auto_20180305_1123
sessions
[X] 0001_initial
sites
[X] 0001_initial
static
[X] 0001_initial
[X] 0002_auto_20160513_1020
[X] 0003_load_initial_data
[X] 0004_specimensourcesnomed
[X] 0005_auto_20180829_1151
[X] 0006_drugSynsforAnaplasBabesi
```

3.2 Release Specific Verification

1 Check for new Section under System Administration

Login to the Browser based ESP UI

Navigate to the Administration drop down menu and Select "Site Administration".

A - There should be a new section call AUTH TOKENS with a link for Tokens

B - There should be several new Cda links . links under the CONF heading

Cda rrrrors

Cda mappings

Cda xpath