

Ilios upgrade

illios Upgrade:

Server Details:

Environment	Host_Name	UserName	Credentials.
Dev	iliosdev.health.usf.edu	hscnet\Health_User_Name)	Use HSCNET credentials to login.
Test	iliosdev.health.usf.edu	hscnet\Health_User_Name)	Use HSCNET credentials to login.
Prod	iliosprod.health.usf.edu	hscnet\Health_User_Name)	Use HSCNET credentials to login.

STEP 1: Add to USF redhat satellite server

- yum remove http-parser or nodejs
- yum update -y
- yum replace php56w-common --replace-with=php71w-common

STEP 2: Check for the os version:

- Cat /etc/os-release

Current Version of OS is:

REDHAT_BUGZILLA_PRODUCT="Red Hat Enterprise Linux 7"

REDHAT_BUGZILLA_PRODUCT_VERSION=7.3

REDHAT_SUPPORT_PRODUCT="Red Hat Enterprise Linux"

REDHAT_SUPPORT_PRODUCT_VERSION="7.3"

STEP 3: Backup web folder (ILIOS):

- Copy the application folder ilios to the home directory.

/var/www/Illos

Syntax : zip -r filename.zip folder

Command : zip -r ilios_3.54.0.zip ilios

STEP 4: Backup Database:

- Login to mysql database of ilios: mysql -u root -p ilios
- Take the backup: mysqldump -u root -p ilios -r /home/ilios_20181106.sql

Step 5: Download and copy files to WEB PATH:

- wget "link to download the latest version"
- unzip "Downloaded file"
- cd "folder name"
- mv * /var/www/Illos

Step 6: Give execution permissions to user apache:

chown -R apache:apache /var/www/ilios

Step 7: Install composer in WEB PATH:

install composer: <https://getcomposer.org/download/> (using php)

or <https://www.agix.com.au/install-composer-on-centosredhat/> (using curl)

chmod +x composer.phar

Step 8: Run the below command to install ilios application:

- cd /var/www/ilios
- sudo -u apache SYMFONY_ENV=prod php composer.phar install --no-dev --optimize-autoloader --Use it: php composer.phar
or
sudo -u apache SYMFONY_ENV=prod ./composer.phar -v install --no-dev --optimize-autoloader
- You get prompted for parameters during installation. Copy all the parameters from backed up ilios application. This file is found in ilios /app/config/parameters.yml

```
Extracting archiveGenerating optimized autoload files
ocramus/package-versions: Generating version class...
ocramus/package-versions: ...done generating version class
> post-install-cmd: @symfony-scripts
> symfony-scripts: Ilios\CliBundle\Composer\MigrateParameters::migrate
> symfony-scripts: Incenteev\ParameterHandler\ScriptHandler::buildParameters
Creating the "app/config/parameters.yml" file
Some parameters are missing. Please provide them.
env(ILIOS_DATABASE_HOST) (127.0.0.1):
env(ILIOS_DATABASE_PORT) (null): 3306
env(ILIOS_DATABASE_NAME) (ilios):
env(ILIOS_DATABASE_USER) (ilios):
env(ILIOS_DATABASE_PASSWORD) (ilios_pass): ilios_test
env(ILIOS_DATABASE_MYSQL_VERSION) (5.5):
env(ILIOS_MAILER_TRANSPORT) (smtp):
env(ILIOS_MAILER_HOST) (127.0.0.1):
env(ILIOS_MAILER_USER) (null):
env(ILIOS_MAILER_PASSWORD) (null):
env(ILIOS_LOCALE) (en):
env(ILIOS_SECRET) (ThisTokenIsNotSoSecretChangeIt): [REDACTED]
> symfony-scripts: Sensio\Bundle\DistributionBundle\Composer\ScriptHandler::buildBootstrap
> symfony-scripts: Sensio\Bundle\DistributionBundle\Composer\ScriptHandler::clearCache
```

Step 9: Run the following commands post installation: following commands are from ilios upgrade file:

- cd into ilios application dir: cd /var/www/ilios
- sudo -u apache bin/console doctrine:migrations:migrate --env=prod --no-interaction
- sudo -u apache bin/console cache:clear --no-warmup --env=prod
- sudo -u apache bin/console cache:warmup --env=prod
- sudo -u apache bin/console ilios:maintenance:update-frontend --env=prod

Step 10: Check the configurations in php.ini page:

- Check if /etc/php.ini file have **max_execution_time = 300**.
- If not, set **max_execution_time = 30**

```

; Resource Limits ;
;
; Maximum execution time of each script, in seconds
; http://php.net/max-execution-time
; Note: This directive is hardcoded to 0 for the CLI SAPI
max_execution_time = 300

```

Step 11: Check if you can see ilios login page here:

Dev: <https://iliosdev.health.usf.edu/dashboard>

Test: <https://iliostest.health.usf.edu>

Prod: <https://iliosprod.health.usf.edu>

- If you see the login page, go to next step.
- Else go to [Troubleshooting ilios upgrade](#)

Step 12: Update the below table with version information and updated date:

[illegible]

Troubleshooting ilios upgrade:

Step 1: Check for the php version:

1. For ilios versions 3.40.0 and later, php version required is 7.2.x or advanced.
2. Check for php version installed in the system, before doing any ilios upgrade.
3. All the dependencies get updated with “yum update -y” command. However, few times update fails with satellite certificate issues.
4. Hence always check for the php version before doing any upgrade.

Step 2: Check for parameters configured:

1. You should have taken the back up of the parameters.yml file before starting with the upgrade.
2. With 3.37.1 upgrade, there is a change in the configuration of parameters.
3. Hence parameters.yml file changed from previous upgrades.
4. Only a few parameters are prompted for confirmation or change, during installation.
5. Remaining parameters are maintained in "application_config" table.
6. Hence, if an installation is not successful, check if parameters given in parameters.yml file matches with the parameters in the file saved at the beginning of upgrade.

```
[root@iliosdev config]# cat parameters.yml
# This file is auto-generated during the composer install
parameters:
    env(ILIOS_DATABASE_HOST): 127.0.0.1
    env(ILIOS_DATABASE_PORT): 3306
    env(ILIOS_DATABASE_NAME): ilios
    env(ILIOS_DATABASE_USER): ilios
    env(ILIOS_DATABASE_PASSWORD): ilios_test
    env(ILIOS_DATABASE_MYSQL_VERSION): 5.5
    env(ILIOS_MAILER_TRANSPORT): smtp
    env(ILIOS_MAILER_HOST): 127.0.0.1
    env(ILIOS_MAILER_USER): null
    env(ILIOS_MAILER_PASSWORD): null
    env(ILIOS_LOCALE): en
    env(ILIOS_SECRET): [REDACTED]
```

7. Connect to the MySQL DB and check if it has all 4 parameters(require_secure_connection, authentication_type, timezone, keep_frontend_updated).
8. If it doesn't have any of the 4 parameters then insert the missing parameters in the table. For version 3.49.0 table looks something like shown below, then that was a problem.

```
[root@iliosdev config]# mysql -u root -p ilios
Enter password:
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 25
Server version: 5.5.56-MariaDB MariaDB Server

Copyright (c) 2000, 2017, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [ilios]> select * from application_config
-> ;
+----+-----+-----+
| id | name                               | value |
+----+-----+-----+
| 1  | requireSecureConnection            | 1     |
+----+-----+-----+
1 row in set (0.00 sec)
```

9. Run the below commands to insert remaining parameters to the application_config table.
 1. INSERT INTO application_config(name,value) VALUES('authentication_type','form');
 2. INSERT INTO application_config(name,value) VALUES('timezone','America/Los_Angeles');
 3. INSERT INTO application_config(name,value) VALUES('keep_frontend_updated','1');
10. The updated table looks like this.

```
MariaDB [ilios]> select * from application_config;
+----+-----+-----+
| id | name                               | value |
+----+-----+-----+
| 1  | requireSecureConnection            | 1     |
| 2  | authentication_type                | form  |
| 3  | timezone                           | America/Los_Angeles |
| 4  | keep_frontend_updated              | 1     |
+----+-----+-----+
4 rows in set (0.00 sec)
```

11. After setting these parameters, run the below commands to get this application working.
 1. Go to ilios application folder - `cd /var/www/iliost/`
 2. `sudo -u apache bin/console cache:clear --no-warmup --env=prod`
 3. `sudo -u apache bin/console cache:warmup --env=prod`
 4. `sudo -u apache bin/console doctrine:migrations:migrate -n --env=prod`
 5. `sudo service httpd restart`
 6. `sudo -u apache bin/console ilios:maintenance:update-frontend --env=prod`
12. Check if application is up and running.

```
sudo vim /etc/httpd/conf/httpd.conf  
[root@iliostdev www]#
```

JIRA Ticket for reference:

Sample JIRA with all the required tasks for ilios upgrade:



PROGT-3043 - Authenticate to see issue details



DI-16144 - Authenticate to see issue details