

# Setting Up & Configuring Drupal 8 for CentOS 7 Control Web Panel

## Part I - Initial Setup of the CWP Server

Create a new user account in Control Web Panel

Create a new database for the user (or use the code provided within the script to manually create it, the script allows you to drop and recreate the database as many times as you need to for debugging purposes)

### Fixing the Clean URLs/index.php issues

Drupal 8 comes with Clean URLs already enabled. It causes a lot of issues if the server isn't set up properly.

Edit the main apache configuration file

```
vi /usr/local/apache/conf/httpd.conf
```

Change

```
<Directory />
    AllowOverride none
    Require all denied
</Directory>
```

To

```
<Directory />
    AllowOverride All
</Directory>
```

Edit .htaccess file

```
vi .htaccess
```

View Line Numbers (Optional)

```
:set nu
```

Change line 16 to: (Comment out)

```
# Options -Indexes
```

**Option 1** - If Drupal is installed in the web root, (public\_html)

Change line 123 to: (substitute USERNAME for the username of your account)

```
RewriteBase /~USERNAME
```

**Option 2** - If Drupal is installed in its own folder, then enter the name of the Joomla folder after the forward slash:

Change line 119 to: (substitute USERNAME for the username of your account and drupal for the installation folder)

```
RewriteBase /~USERNAME/drupal
```

To view your root password for MariaDB in CWP (You will need this for the script in Part II)

```
cat /root/.my.cnf
```

Automatically change your root password for MariaDB in CWP

```
sh /scripts/mysql_pwd_reset
```

## Part II – Drupal Installer Script

```
#!/bin/bash
# =====
# title      : installDrupal8.sh
# description : This script will install Drupal 8 on a new user account created in CentOS 7 CWP
#             : (Control Web Panel). This script must be run with elevated privileges.
#             : Please read Drupal_8_Setup.pdf for important details about this script
# author     : Cory Hilliard
# date      : 2019.08.15
# version    : 0.1
# usage      : bash installDrupal8.sh
# =====

# These four variables need to be changed to line up with the usernames and passwords of your site
USERNAME="example"      # this is the username of the user you set up in Part I of Drupal_8_Setup.pdf
PASSWORD="Example123"   # this is the password of the user you set up in Part I of Drupal_8_Setup.pdf
DBNAME="drupal8"        # this will be converted to "example_drupal8" in the MySQL script
DBROOTPASS="EUZn&wo8qBo$VDm" # this is the root password of your database

mysql -u root -p"${DBROOTPASS}" <<MYSQL_SCRIPT
DROP DATABASE IF EXISTS ${USERNAME}_${DBNAME};
CREATE DATABASE ${USERNAME}_${DBNAME};
GRANT ALL PRIVILEGES ON ${USERNAME}_${DBNAME}.* TO '${USERNAME}'@'localhost';
FLUSH PRIVILEGES;
MYSQL_SCRIPT

# Change directory to the user's root folder
cd /home/${USERNAME}/

# Download Drupal 8.7.6
wget https://ftp.drupal.org/files/projects/drupal-8.7.6.tar.gz

# Extract Drupal
tar -xvzf drupal-8.7.6.tar.gz

# Remove public_html for simplicity
rm -rf public_html

# Rename the extracted drupal folder to public_html
mv drupal-8.7.6 public_html

# Change ownership of the public_html folder and its contents
chown -R ${USERNAME}:${USERNAME} public_html

# Delete the Drupal download
rm drupal-8.7.6.tar.gz -f

# Change file permissions on all subdirectories
echo "Changing folder permissions, this may take a minute"
find /home/${USERNAME}/public_html -type d -exec chmod 755 {} \;

# Change file permissions on all subfiles
echo "Changing file permissions, this may take a minute"
find /home/${USERNAME}/public_html -type f -exec chmod 644 {} \;

# Change directory to the sites/default
cd /home/${USERNAME}/public_html/sites/default

# Remove these two files if they exist
rm -f {settings.php,services.yml}

# Create new settings and services files
cp default.settings.php settings.php && cp default.services.yml services.yml

# Change ownership of settings and services
chown ${USERNAME}:${USERNAME} {settings.php,services.yml}

# Change permissions of settings and services
chmod 777 {services.yml,settings.php}

# Change directory to the web root
cd /home/${USERNAME}/public_html

# Make sites/default writeable for Drupal to work its magic
chmod 777 ./sites/default/

# Edit the .htaccess file of the user's web root
sed -i -e "16s|Options -Indexes|# Options -Indexes|g" .htaccess
sed -i -e "123s|# RewriteBase /|RewriteBase /~${USERNAME}|g" .htaccess

echo " "
echo "****Don't forget! After you install Drupal, run these two commands again to fix permissions"
echo " "
echo "find /home/${USERNAME}/public_html -type d -exec chmod 755 {} \;"
echo "find /home/${USERNAME}/public_html -type f -exec chmod 644 {} \;"
echo " "
```

## Part III - Post Installation Notes

**IMPORTANT!!!** Once Drupal 8 is installed, it's extremely important to change the files and folder permissions back.

```
find /home/${USERNAME}/public_html -type d -exec chmod 755 {} \;  
find /home/${USERNAME}/public_html -type f -exec chmod 644 {} \;
```

### Fix CSS/Theme issue after new Drupal 8 install

```
http://example.com/admin/config/development/performance  
uncheck Aggregate CSS files  
uncheck Aggregate JavaScript files  
Save configuration
```

### Install Themes

```
http://example.com/admin/theme/install
```

## Part IV - Other Notes

To edit the vhost file of each user (If you ever need to)

```
vi /usr/local/apache/conf.d/vhosts/example.com.conf
```

Restart Apache

```
systemctl restart httpd
```