Installation Sheet for Drupal – Docker image
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1 Installation of Docker on Linux

1. Open the terminal by pressing `Ctrl, Alt, T` keys simultaneously.

2. Copy paste the below commands in the **terminal prompt**. These commands install docker on Linux.
(Please Note: # implies bomment statements and \implies line continuation)

```
#!/bin/bash
# Add Docker's official GPG key

sudo apt-get update

sudo apt-get install ca-certificates curl -y

sudo install -m 0755 -d /etc/apt/keyrings

sudo curl -fsSL https://download.docker.com/linux/ubuntu/gpg -o \
    /etc/apt/keyrings/docker.asc

sudo chmod a+r /etc/apt/keyrings/docker.asc

# Add the repository to Apt sources:

echo \
  "deb [arch=$(dpkg --print-architecture) \
   signed-by=/etc/apt/keyrings/docker.asc] \
   https://download.docker.com/linux/ubuntu \
  $(. /etc/os-release && echo "$VERSION_CODENAME") stable" | \
sudo tee /etc/apt/sources.list.d/docker.list > /dev/null

sudo apt-get update

sudo apt-get install docker-ce docker-ce-cli containerd.io \
    docker-buildx-plugin docker-compose-plugin -y
```

3. Below are the steps to set up the Drupal environment. Copy and paste the below commands in the **terminal prompt** to create docker image for Drupal 8.

```
#!/bin/bash

# Drupal 8 Installation with username Admin-Pull docker images

sudo docker pull fossee/mysql:5.7

sudo docker pull fossee/drupal:8.6
```

```
#Check the pulled docker images

sudo docker images

#Create a network and volume for Drupal

sudo docker network create drupal-network

sudo docker volume create --name drupal_data

#Run MySQL container

sudo docker run --name mariadb -e MYSQL_ROOT_PASSWORD=my-secret-pw -e \
    MYSQL_DATABASE=bitnami_drupal -e MYSQL_USER=bn_drupal -e \
    MYSQL_PASSWORD=bitnami -e MYSQL_COLLATION_SERVER=utf8mb4_general_ci \
    -e MYSQL_CHARACTER_SET_SERVER=utf8mb4 --network drupal-network -d \
    fossee/mysql:5.7


#Run Drupal container

 sudo docker run -d --name drupal -p 8080:80 --env \
    ALLOW_EMPTY_PASSWORD=yes --env DRUPAL_DATABASE_HOST=mariadb --env \
    DRUPAL_DATABASE_PORT_NUMBER=3306 --env DRUPAL_DATABASE_USER=bn_drupal \
    --env DRUPAL_DATABASE_PASSWORD=bitnami --env \
    DRUPAL_DATABASE_NAME=bitnami_drupal --env \
    DRUPAL_ENABLE_DATABASE_SSL=no --env DRUPAL_USERNAME=admin --env \
    DRUPAL_PASSWORD=admin --env DRUPAL_EMAIL=admin@example.com --network \
    drupal-network --volume drupal_data:/bitnami/drupal fossee/drupal:8.6

sudo docker logs  -f drupal

#Check the running containers

sudo docker ps
```

4. Open the web browser and type `http://localhost:8080`
   (It may take some time, so wait for a few seconds)
   On the top right, click on the log in.
   Access the Drupal 8 website with the credentials given below.
   DRUPAL_USERNAME=admin
   DRUPAL_PASSWORD=admin

5. Start working on the Drupal spoken tutorial after the website is launched.
   The above steps completes the docker image setup for drupal 8 and launches the website.

6. If the system is rebooted, check the running containers with the following command

   (a) Open the terminal and type the below command and press ENTER
       `sudo docker ps`

(b) After checking the running containers, start mariadb and then start Drupal
```
sudo docker start mariadb
sudo docker start drupal
```

(c) Launch localhost:8080 on the web browser.

(d) Start working on the spoken tutorial after the website is launched

2 Installation of Docker on Windows

1. Watch the Installation of Docker tutorial from 3.45 mins and do the installation on Windows as specified in the link below.
https://spoken-tutorial.org/watch/Docker/Installation+of+Docker/English/

2. After the installation of docker, open the start menu by clicking on the `Start` button. In the search bar type `Terminal` and open the terminal window.

3. Below are the steps to set up the Drupal environment. Copy and paste the below commands in the **terminal prompt** to create docker image for Drupal 8.
(Please Note: # implies comment statements ans `imples line continuation)

```
#!/bin/bash

# Drupal 8 Installation with username Admin-Pull docker images

docker pull fossee/mysql:5.7

docker pull fossee/drupal:8.6

#Check the pulled docker images

docker images

#Create a network and volume for Drupal

docker network create drupal-network

docker volume create --name drupal_data

#Run MySQL container

docker run --name mariadb `
-e MYSQL_ROOT_PASSWORD=my-secret-pw `
-e MYSQL_DATABASE=bitnami_drupal `
-e MYSQL_USER=bn_drupal `
-e MYSQL_PASSWORD=bitnami `
-e MYSQL_COLLATION_SERVER=utf8mb4_general_ci `
-e MYSQL_CHARACTER_SET_SERVER=utf8mb4 `
--network drupal-network `
-d fossee/mysql:5.7

#Run Drupal container
```

```
docker run -d --name drupal -p 8080:80 `
    --env ALLOW_EMPTY_PASSWORD=yes `
    --env DRUPAL_DATABASE_HOST=mariadb `
    --env DRUPAL_DATABASE_PORT_NUMBER=3306 `
    --env DRUPAL_DATABASE_USER=bn_drupal `
    --env DRUPAL_DATABASE_PASSWORD=bitnami `
    --env DRUPAL_DATABASE_NAME=bitnami_drupal `
    --env DRUPAL_ENABLE_DATABASE_SSL=no `
    --env DRUPAL_USERNAME=admin `
    --env DRUPAL_PASSWORD=admin `
    --env DRUPAL_EMAIL=admin@example.com `
    --network drupal-network `
    --volume drupal_data:/bitnami/drupal `
    fossee/drupal:8.6

docker logs  -f drupal
(Please note: It may take some time, so wait for a few minutes)

#Check the running containers

docker ps
```

(Please note: It may take some time, so wait for a few minutes)

4. Open the web browser and type `http://localhost:8080`
   (It may take some time, so wait for a few minutes)
   On the top right, click on the log in.
   Access the Drupal 8 website with the credentials given below.
   DRUPAL_USERNAME=admin
   DRUPAL_PASSWORD=admin

5. Start working on the Drupal spoken tutorial after the website is launched.
   The above steps completes the docker image setup for drupal 8 and launches the website.

6. If the system is rebooted, check the running containers with the following command

   (a) Open the terminal and type the below command and press ENTER
       `sudo docker ps`

   (b) After checking the running containers, start mariadb and then start Drupal
       `sudo docker start mariadb`
       `sudo docker start drupal`

   (c) Launch localhost:8080 on the web browser.

   (d) Start working on the spoken tutorial after the website is launched