How to install Mautic with Docker on Digital Ocean

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Warning: **This article is out of date.** We're currently working on an updated version. If you'd like to help with that please check #docker on Slack and let us know! In the meantime there's some work happening in this repository which might be helpful as a starting point.

Docker is one of the simplest and easiest ways to put an application into production. With Docker, we can launch with a few adjustments a Database server, a Proxy with SSL and then Mautic to carry out all Marketing automation campaigns.

Docker Mautic has had more than 2 million downloads over the past 2 years

and is the simplest and safest way to get your mautic up and running.

See more about Docker Mautic at Docker Hub:
https://hub.docker.com/r/mautic/mautic/

In this article we will create the entire environment to get Mautic up and running using:

- MySQL
- Free SSL by Let's Encrypt (https://certbot.eff.org/)
- Mautic
- Reverse Proxy with Nginx

An overview of Docker Mautic

The Docker Mautic image was built using the best practices of popular Docker Images on the market to make the perfect environment for Mautic.

The image copies the latest version of Mautic to the /var/www/html folder and configures all necessary permissions on the files.

Along with Mautic we install the Percona MySQL server that has excellent settings for the way in which Mautic works.

Finally, we have a Reverse Proxy that sends requests to Mautic and performs the automatic configuration of SSL with Let's Encrypt and Certbot.

Follow these steps to start using Mautic today:

Step 1: Create a DigitalOcean Droplet

1. Access DigitalOcean (or similar VPS provider) and create an account if you don’t have one.
2. After logging in, choose 'Create Droplet' with Debian or Ubuntu from

the available options
3. Choose 2 GB / 50 GB of disk ($10 / month) for small projects
4. Choose the location closest to your customer's location
5. Activate backups, if necessary (additional charges will apply)
6. Login method - Use an SSH key as this is more secure. Otherwise, use a unique password.
7. Create the Droplet and wait for it to be provisioned
8. Log in with your SSH key or the generated password using the following command:

```
ssh root@ip
```

Enter your password as the email sent from DigitalOcean, if you prefer the unique password.

Step 2: Installing Docker on your VPS

It's necessary that the machine be “clean,” do not install any other software like Apache, Nginx, or MySQL on this fresh VPS.

The purpose of the installation script (https://github.com/docker/docker-install) is to facilitate quick installation of the latest versions of Docker-CE on supported linux distributions.

In the Terminal of your server type:

```
curl -fsSL https://get.docker.com -o get-docker.shsh get-docker.sh
```

This will automatically install Docker for you on any supported Linux distribution.

To verify that Docker is working, type:

```
docker info
```

You will see your system information.

Getting started with Docker

Docker allows the entire installation process to be automated. Just run a few commands and the software works with the standard configuration and Mautic is no different.

Before you start, you must add the DNS A or CNAME entry on your domain pointing to the IP address of the VPS server on which Mautic will be running.

Step 3 - Setting up a network in Docker

The first step is to create an internal network so that Mautic can communicate with the Database and with the Reverse Proxy. In the terminal type:

```
docker network create mauticnet
```

Step 4 - Configure a Reverse Proxy with SSL

We will install the Reverse Proxy called nginx-proxy next to nginx-proxy-companion which will be responsible for receiving HTTPs requests and forwarding to Mautic and also creating the free SSL certificate with Let's Encrypt.

In your server's SSH terminal type:

```
docker run -d --restart=always     -p 80:80 -p 443:443 --name nginx-p
roxy     -v /path/to/certs:/etc/nginx/certs:ro     -v /etc/nginx/vhos
t.d     -v /usr/share/nginx/html     -v /var/run/docker.sock:/tmp/doc
ker.sock:ro     --label com.github.jrcs.letsencrypt_nginx_proxy_compa
nion.nginx_proxy     --net=mauticnet     jwilder/nginx-proxy:latest
```

Now let's install nginx-proxy-companion which is responsible for Let's Encrypt:

```
docker run -d --restart=always     --name nginx-proxy-ssl     -v /pat
h/to/certs:/etc/nginx/certs:rw     -v /var/run/docker.sock:/var/run/d
ocker.sock:ro     --volumes-from nginx-
proxy     --net=mauticnet     jrcs/letsencrypt-nginx-proxy-companion
```

You already have an nginx server running SSL without modifying any settings. Docker is fantastic.

Step 5: Configuring the MySQL Server

The next commands do the work of installing and configuring MySQL and create a root user for us to use with Mautic:

```
docker volume create mysql_datadocker run --name mysql -d -p 3306:330
6 -e MYSQL_ROOT_PASSWORD=YOURPASSWORD--restart=always -v mysql_data:/
var/lib/mysql --net=mauticnet percona/percona-server:5.7 --character-
set-server=utf8mb4 --collation-server=utf8mb4_general_ci
```

Please modify **YOURPASSWORD** with a strong password.

Step 6: Configuring Mautic Docker

Finally, we will install Mautic using the official Mautic image that automates

the entire installation process:

```
docker volume create mautic_datadocker run -d --restart=always   --name mautic   -e MAUTIC_DB_HOST=mysql   -e MAUTIC_DB_USER=root   -e MAUTIC_DB_PASSWORD=YOURPASSWORD   -e MAUTIC_DB_NAME=mautic   -e VIRTUAL_HOST=mautic.yourdomain.com   -e LETSENCRYPT_HOST=mautic.yourdomain.com   -e LETSENCRYPT_EMAIL=help@yourdomain.com   -P 8080:80   -v mautic_data:/var/www/html   --net=mauticnet   --privileged   mautic/mautic:latest
```

In the example above, you will need to enter the following variables:

MAUTIC_DB_PASSWORD: Here you must enter the MySQL password.

VIRTUAL_HOST: This is your Mautic's address.

LETSENCRYPT_HOST: You must repeat your Mautic's address;)

LETSENCRYPT_EMAIL: Here is your email to register with Let's Encrypt.

There it is! Now you can visit *https://mautic.yourdomain.com*.

Online URL:
https://kb.mautic.org/article/how-to-install-mautic-with-docker-on-digital-ocean.html

SyntaxHighlighter.config.stripBrs=true; SyntaxHighlighter.all();