# **How to install Kanboard on a CentOS 7 VPS**

**Step 1:-** Update the server with new packages available at repo.

**$sudo yum -y upgrade**

**$sudo yum install unzip wget**

#### **Step 2:-** Install MariaDB

MariaDB 5.5 is shipped in the default CentOS 7 repository, to install it just run:

**$sudo yum install mariadb-server**

To start the MariaDB service and enable it to start on boot, execute the following commands:

**$sudo systemctl start mariadb.service**

**$sudo systemctl enable mariadb.service**

**Step 3:-** Run the following command to secure your installation:

**$sudo mysql\_secure\_installation**

**$mysql -uroot -p**

MariaDB [(none)]> CREATE DATABASE kanboard;

MariaDB [(none)]> GRANT ALL PRIVILEGES ON kanboard.\* TO 'kanboarduser'@'localhost' IDENTIFIED BY 'kanboarduser\_passwd';

MariaDB [(none)]> FLUSH PRIVILEGES;

MariaDB [(none)]> \q

#### **Step 4 :-** Install PHP and Nginx

Nginx is not available in the default CentOS 7 repository so we will use the official Nginx repository:

**$sudo rpm -UVh http://nginx.org/packages/centos/7/noarch/RPMS/nginx-release-centos-7-0.el7.ngx.noarch.rpm**

**$sudo yum -y install nginx**

**Step 5:-** Enable the EPEL repository:

**$sudo yum install epel-release**

CentOS 7 ships with PHP version 5.4, to be able to install the latest version of PHP, version 5.6 we will enable the Webtatic repository:

**$sudo rpm -Uvh https://mirror.webtatic.com/yum/el7/webtatic-release.rpm**

**Step 6:-** Install PHP 5.6 and all necessary extensions:

**$sudo yum install php56w-cli php56w-mcrypt php56w-mbstring php56w-common php56w-gd php56w-fpm php56w-opcache php56w-pdo php56w-mysqlnd**

**Step 7:-** Install Kanboard

Switch to home directory

**$cd ~/**

Download and unzip the latest version of Kanboard

**$wget http://kanboard.net/kanboard-latest.zip**

**$unzip kanboard-latest.zip**

**$rm kanboard-latest.zip**

Copy the included config.default.php to config.php and change the database information

**$cd kanboard**

**$cp config.default.php config.php**

**$vim config.php**

// Database driver: sqlite, mysql or postgres (sqlite by default)

define('DB\_DRIVER', 'mysql');

// Mysql/Postgres username

define('DB\_USERNAME', 'kanboard');

// Mysql/Postgres password

define('DB\_PASSWORD', 'kanboarduser\_passwd');

// Mysql/Postgres hostname

define('DB\_HOSTNAME', 'localhost');

// Mysql/Postgres database name

define('DB\_NAME', 'kanboarduser');

#### **Step 8:-** Configure Nginx and PHP

Create a new PHP-FPM pool for your user:

**$sudo vim /etc/php-fpm.d/your\_user.conf**

[your\_user]

user = your\_user

group = your\_user

listen = /var/run/php-fpm/your\_user.sock

listen.owner = your\_user

listen.group = your\_user

listen.mode = 0666

pm = ondemand

pm.max\_children = 5

pm.process\_idle\_timeout = 10s;

pm.max\_requests = 200

chdir = /

Do not forget to change your\_user with your username.

**Step 9:-** Restart PHP-FPM

#### **$sudo systemctl restart php-fpm.service**

#### **Step 10:-** Generate ssl certificate:

#### **$sudo mkdir -p /etc/nginx/ssl**

#### **$cd /etc/nginx/ssl**

#### **$sudo openssl genrsa -des3 -passout pass:x -out kanboard.pass.key 2048**

#### **$sudo openssl rsa -passin pass:x -in kanboard.pass.key -out kanboard.key**

#### **$sudo rm kanboard.pass.key**

#### **$sudo openssl req -new -key kanboard.key -out kanboard.csr**

#### **$sudo openssl x509 -req -days 365 -in kanboard.csr -signkey kanboard.key -out kanboard.crt**

To enable gzip compression open the nginx.conf file and add the following lines:

**$sudo vim /etc/nginx/nginx.conf**

# Gzip Compression

gzip on;

gzip\_comp\_level 5;

gzip\_min\_length 256;

gzip\_proxied any;

gzip\_vary on;

gzip\_types

application/atom+xml

application/javascript

application/json

application/ld+json

application/manifest+json

application/rss+xml

application/vnd.geo+json

application/vnd.ms-fontobject

application/x-font-ttf

application/x-web-app-manifest+json

application/xhtml+xml

application/xml

font/opentype

image/bmp

image/svg+xml

image/x-icon

text/cache-manifest

text/css

text/plain

text/vcard

text/vnd.rim.location.xloc

text/vtt

text/x-component

text/x-cross-domain-policy;

Next, create a new Nginx server block:

**$sudo vim /etc/nginx/conf.d/kanboard.conf**

server {

listen 443 ssl spdy;

server\_name **your\_kanboard\_domain**;

ssl on;

ssl\_certificate /etc/nginx/ssl/kanboard.crt;

ssl\_certificate\_key /etc/nginx/ssl/kanboard.key;

ssl\_session\_timeout 5m;

ssl\_ciphers 'AES128+EECDH:AES128+EDH:!aNULL';

ssl\_protocols TLSv1 TLSv1.1 TLSv1.2;

ssl\_prefer\_server\_ciphers on;

root /home/your\_user/kanboard;

index index.html index.htm index.php;

charset utf-8;

client\_max\_body\_size 16M;

location / {

try\_files $uri $uri/ /index.php?$query\_string;

}

location = /favicon.ico { access\_log off; log\_not\_found off; }

location = /robots.txt { access\_log off; log\_not\_found off; }

access\_log /var/log/nginx/kanboard.access.log;

error\_log /var/log/nginx/kanboard.error.log;

sendfile off;

location ~ \.php$ {

fastcgi\_split\_path\_info ^(.+\.php)(/.+)$;

fastcgi\_pass unix:/var/run/php-fpm/your\_user.sock;

fastcgi\_index index.php;

include fastcgi\_params;

fastcgi\_param SCRIPT\_FILENAME $document\_root$fastcgi\_script\_name;

fastcgi\_intercept\_errors off;

fastcgi\_buffer\_size 16k;

fastcgi\_buffers 4 16k;

}

location ~\* /data {

deny all;

return 404;

}

location ~ /\.ht {

deny all;

}

}

server {

listen 80;

server\_name your\_kanboard\_domain;

add\_header Strict-Transport-Security max-age=2592000;

rewrite ^ https://$server\_name$request\_uri? permanent;

}

Do not forget to change your\_user with your username.

**Step 11:-** Finally, restart nginx:

**$sudo systemctl restart nginx.service**

That’s it. You have successfully installed Kanboard on your [Centos 7 VPS](https://www.rosehosting.com/centos-vps.html). The default username and password are both admin.

**Note :-** Change the user in “/etc/nginx/nginx.conf” which you have configured the application for.

$$$$$ THE END $$$$