Installing Kanban Project Board

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What is Kanban Board, Anyway?

For as short introduction, see https://en.wikipedia.org/wiki/Kanban_board and https://www.atlassian.com/agile/kanban for a start.

Installing Wekan to Ubuntu 16.04 Server

The installation process was originally described in https://blog.hostonnet.com/installing-wekan-on-ubuntu-16. The following is a copy of the procedure with certain modifications to hostname and mail server.

To install Wekan on Ubuntu, first install MongoDB

```
sudo apt-key adv --keyserver hkp://keyserver.ubuntu.com:80 --recv EA312927
echo "deb http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.2 multiverse" | sudo tee
    /etc/apt/sources.list.d/mongodb-org-3.2.list
sudo apt update
# if needed > sudo dpkg --configure -asudo dpkg --configure -a
sudo apt install -y mongodb-org mongodb-org-server mongodb-org-shell mongodb-org-mongos
    mongodb-org-tools
sudo systemctl start mongod
sudo systemctl enable mongod
```

Next we need Node.js and npm package manager installed

```
sudo apt -y install node.js npm
```

Install Wekan (this time 0.62)

```
mkdir -p /opt/wekan
cd /opt/wekan
wget https://github.com/wekan/wekan/releases/download/v0.62/wekan-0.62.tar.gz
tar xvf wekan-0.62.tar.gz -C /opt/wekan
```

Install npm packages required by wekan

```
cd /opt/wekan/bundle/programs/server
sudo npm install
```

Create start.sh file

```
nano /opt/wekan/start.sh
```

Add following content

```
export MONGO_URL='mongodb://127.0.0.1:27017/wekan'
export ROOT_URL='http://127.0.0.1'
export MAIL_URL='smtp://mail.tyks.fi:25/'
export PORT=8080
cd /opt/wekan/bundle/
/usr/bin/nodejs main.js
```

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Make it executable

```
chmod 755 /opt/wekan/start.sh
```

Start Wekan

/opt/wekan/start.sh

To auto start Wekan on boot, add /opt/wekan/start.sh to /etc/rc.local file before the exit 0 line.

```
#!/bin/sh -e
#
# rc.local
#
# This script is executed at the end of each multiuser runlevel.
# Make sure that the script will "exit 0" on success or any other
# value on error.
#
# In order to enable or disable this script just change the execution
# bits.
#
# By default this script does nothing.
sudo -H -u <username> /opt/wekan/start.sh
exit 0
```

Installing Wekan to Ubuntu 14.4 Server

The installation process was originally described in https://www.rosehosting.com/blog/install-wekan-on-an-ubuntu-14-04-vps/. The following is a copy of the procedure with certain modifications to hostname and mail server.

Update the system and install necessary packages

```
sudo apt-get update && sudo apt-get -y upgrade
sudo apt-get install software-properties-common libssl-dev curl build-essential nano
```

Install Node.js

We will install the nodejs version 0.10.40 using the nvm (Node Version Manager) script

```
curl -o- https://raw.githubusercontent.com/creationix/nvm/v0.30.1/install.sh | bash source ~/.nvm/nvm.sh nvm install v0.10.40 nvm use v0.10.40 nvm dias default v0.10.40
```

Install MongoDB

To install the latest MongoDB package from the official MongoDB repository run the following commands:

```
sudo apt-key adv --keyserver keyserver.ubuntu.com --recv 7F0CEB10
echo 'deb http://downloads-distro.mongodb.org/repo/ubuntu-upstart dist 10gen' | sudo tee
    /etc/apt/sources.list.d/mongodb.list
sudo apt-get update
sudo apt-get install -y mongodb-org
```

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Download and install Wekan

Create a root directory for your Wekan instance and download the latest release from github using the following commands:

```
mkdir -p ~/wekan
curl -LOk https://github.com/wekan/wekan/releases/download/v0.10.1/wekan-0.10.1.tar.gz
tar xzvf wekan-0.10.1.tar.gz -C ~/wekan
cd ~/wekan/bundle/programs/server
npm install
```

In case you never heard of Forever, it is a tool which ensures that a given script runs forever.

```
npm install forever -g
```

Create an Upstart script

```
sudo nano /etc/init/wekan.conf
#!upstart
description "Wekan Upstart Script"
start on startup
stop on shutdown
expect fork
env NAME="Wekan"
env NODE_PATH="/home/ktp/.nvm/v0.10.40/bin"
env APPLICATION_PATH="/home/ktp/wekan/bundle/main.js"
env PIDFILE=/var/run/wekan.pid
env LOGFILE=/var/log/wekan.log
env MONGO_URL="mongodb://127.0.0.1:27017/wekan"
env ROOT_URL="http://127.0.0.1"
env MAIL_URL='smtp://mail.tyks.fi:25/'
env PORT="8080"
script
   PATH=$NODE_PATH:$PATH
    exec forever \
       --pidFile $PIDFILE \
        -a \
       -1 $LOGFILE \
        --minUptime 5000 \
        --spinSleepTime 2000 \
       start $APPLICATION_PATH
end script
pre-stop script
   PATH=$NODE_PATH:$PATH
   exec forever stop $APPLICATION_PATH
end script
```

You can now start your Wekan service with:

```
sudo service wekan start
```

Install and Configure Nginx

The latest version of Nginx 1.8 is not available via the default Ubuntu repositories, so we will add the "nginx/stable" PPA, update the system and install the nginx package.

```
sudo add-apt-repository ppa:nginx/stable
sudo apt-get update
sudo apt-get install nginx
```

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Create a new Nginx server block with the following content

Activate the server block by creating a symbolic link:

```
sudo ln -s /etc/nginx/sites-available/wekan /etc/nginx/sites-enabled/wekan
```

Test the Nginx configuration and restart the server

```
sudo nginx -t
sudo service nginx restart
```

That's it. You can now open your browser, type the address of your Wekan instance and register your first user. For more information about how manage your Wekan application, please refer to the Wekan website.

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