Branch: master controlcenter / README.md Find file Copy path

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2 contributors

170 lines (121 sloc) 5.02 KB Raw Blame History

README

UPD89

upd89 is a system update management for debian based systems. It consists of two components: the control center (https://github.com/upd89/controlcenter) and agents (https://github.com/upd89/agent).

Control Center

Central web appliction for managing the connected agents and creating tasks for the systems.

Agent

Python-based component that runs as a daemon on each managed server and notifies the control center about new updates and receives tasks from the control center to install.

Dependencies

This application is based on "Ruby on Rails" (RoR).

Tested environment:

- ruby-2.2.3
- Rails 4.2.4
- passenger 5.0.27 / Apache/2.4.7 (Ubuntu 14.04)
- postgresql-9.3

To make sure you have the correct versions of ruby and rails as well as git and postgres installed, run the following:

```
$ ruby -v
$ rails -v
$ git --version
$ which psql
```

The result should ideally look like this:

```
$ ruby -v
ruby 2.2.3p173 (2015-08-18 revision 51636) [x86_64-linux]
$ rails -v
Rails 4.2.4
$ git --version
git version 2.5.0
```

```
$ which psql
/usr/bin/psql
```

If you don't have a recent version of RoR, please have a look at the following installation guides:

- Setup Ruby On Rails on Ubuntu
- How To Deploy a Rails App with Passenger and Apache on Ubuntu 14.04

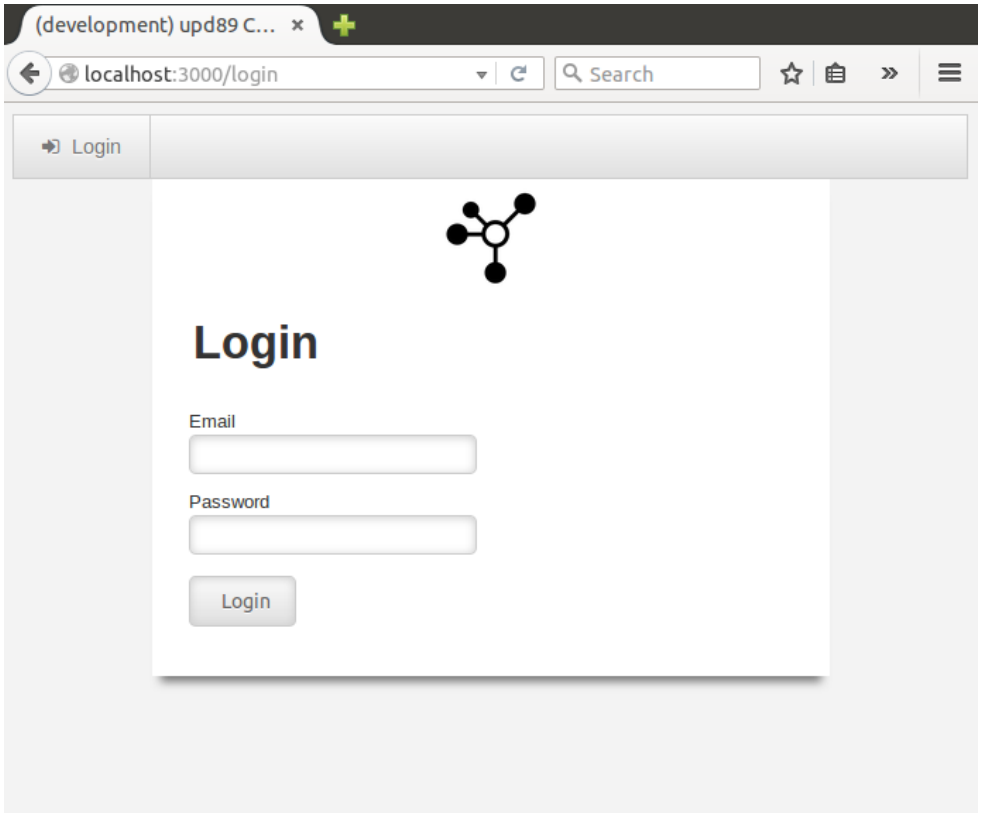
Installation

```
git clone https://github.com/upd89/controlcenter.git
cd controlcenter
bundle install
rake db:create
rake db:migrate
rake db:base_data
```

Start the Server locally

```
rails server
```

You should now be able to visit a local instance on https:\localhost:3000



The initial rake task created a couple of users, most importantly `admin` (also doubles as email) with the password `RF9wRF9w`, with which you can log in.

Deployment on Apache

Setup Certificate authority:

```
apt install easy-rsa
make-cadir ca
```

Change the following entries (recommended) in `ca/vars` (with your own settings, of course):

```
export KEY_SIZE=4096
export KEY_COUNTRY="CH"
export KEY_PROVINCE="ZH"
export KEY_CITY="Zuerich"
export KEY_ORG="UPD89"
export KEY_EMAIL="hello@upd89.org"
export KEY_OU="Dev"
```

in `ca/openssl-1.0.0.cnf`, set the usage to both client and server so it can be used in both directions (there are 2 entries, so do this twice):

```
extendedKeyUsage=serverAuth,clientAuth
```

Afterwards, set up your CA:

```
cd ca
export EASY_RSA="${EASY_RSA:-.}"
. vars
./clean-all
"$EASY_RSA/pkitool" --initca
"$EASY_RSA/pkitool" --server cc.upd89.org
"$EASY_RSA/pkitool" agent1.upd89.org
"$EASY_RSA/pkitool" agent2.upd89.org
"$EASY_RSA/pkitool" agent3.upd89.org
```

Follow this guide https://www.digitalocean.com/community/tutorials/how-to-deploy-a-rails-app-with-passenger-and-apache-on-ubuntu-14-04

But: Use https://raw.githubusercontent.com/upd89/controlcenter/master/apache.conf.sample instead of the suggested content for the conf file and replace the following variables:

```
$_HOSTNAME_ with your desired hostname (or localhost),
$_ROOTDIR_ with the installation directory of the rails application,
$_RAILSENV_ with the desired rails environment (e.g. development, production),
$_SSLCERTFILE_ with the SSL certificate file (for the web interface)*,
$_SSLKEYFILE_ with the SSL key file (for the web interface)*,
$_SSLCHAINFILE_ with the SSL chain file (for the web interface)*,
$_UPD89CA_ with the absolute path to ca/keys/ca.crt
$_SSLAPICERTFILE_ with the SSL certificate file for the API (ca/keys/cc.upd89.org.crt),
$_SSLAPIKEYFILE_ with the SSL key file for the API (ca/keys/cc.upd89.org.key)
```

* Recommendation: use letsencrypt ()

```
sudo a2enmod rewrite
sudo a2enmod ssl
sudo a2enmod passenger
apache2ctl configtest
sudo service apache2 restart
```

Now you should have a functioning web server, congratulations!

Configuration

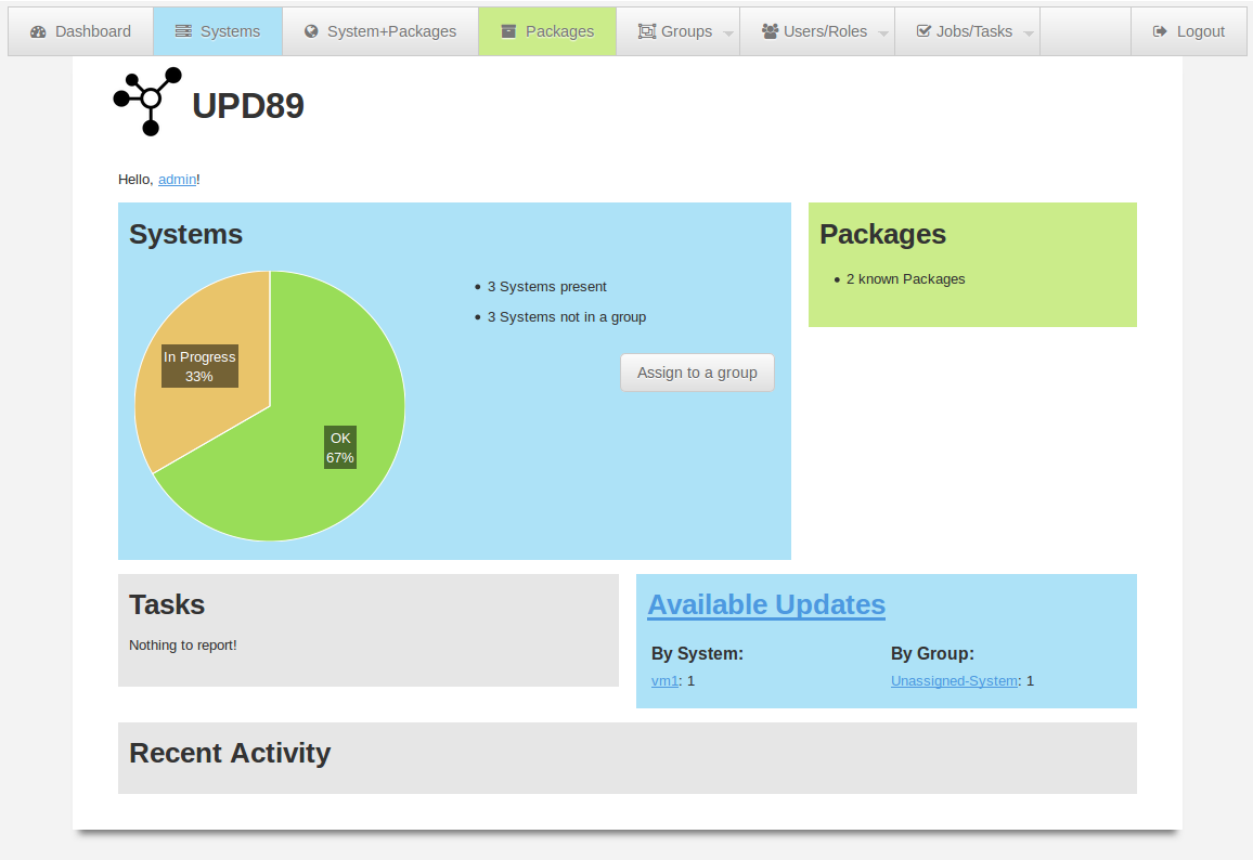
To configure some view-related settings, you can change some variables in `config/settings.yml`. Each setting is commented and should be self-explanatory.

Database-related settings can be changed in `config/database.yml`

If you want some more example entries, you can run

```
rake db:sample_data
```

This will create a number of basic entries for systems, packages and others for testing purposes.



Troubleshooting

Q: I accidentally deleted all users!

A: No worries. Start a rails console with `rails console` and enter

```
adminRole = Role.exists?(name: "Admin") ? Role.where(name: "Admin")[0] : Role.create(name: "Admin", permiss
User.create( { name: "admin", email: "admin", role: adminRole, password: "myPassword", password_confirmatio
```

This will create a new admin user.