

Hardware / Software Requirements and Installation Instructions

Recommended Hardware (PC/server):

- 64-bit architecture
- 6+ cores at 3GHz or greater
- 16Gb RAM
- 500+ Gb disk (RAID would be a plus)

Required software:

- Debian 6.0.1 AMD64 (but should run on most Linux)
- Ruby 1.8.7:
 - apt-get install ruby1.8-dev ruby1.8 ri1.8 rdoc1.8 irb1.8
- Rails 3.1.3.7:
 - apt-get install rubygems
 - gem install rails --version=3.1.3
 - gem install rack --version=1.3.5
 - mkdir /usr/rails
- mysql:
 - apt-get install mysql-server
 - apt-get install libmysqlclient15-dev
 - gem install mysql2 -v '0.3.11'
- Unicorn app server:
 - installed via Gemfile/bundle install (see load Rails dependencies below)
- Nginx web server:
 - works well with Rails/Unicorn
 - maybe Apache could work?
 - installation:
 - apt-get install nginx
 - adduser --system --no-create-home nginx
 - addgroup --system nginx
 - adduser nginx nginx # add user to group

Directory/file creation:

- mkdir /usr/rails
- mkdir /usr/rails/xyz_corp
- mkdir /usr/rails/xyz_corp/railsapp
- extract files from downloaded file:
 - cd /usr/rails/xyz_corp/railsapp
 - gunzip xyz_corp.tar.gz
 - tar -xvf xyz_corp.tar
- load Rails dependencies:
 - cd /usr/rails/xyz_corp/railsapp
 - bundle install
- compile assets pipeline
 - cd /usr/rails/xyz_corp/railsapp
 - rake assets:precompile

- set permissions for linux users of group, eg my_group
- cd /usr/rails/xyz_corp/railsapp
- chgrp -R my_group . # all files have group my_group
- chmod -R g+w . # users in my_group can write all files/sub-dirs

Database creation:

- at root mysql prompt:
- create database railsapp_xyz_corp;
- grant all privileges on railsapp_xyz_corp.* to xyz_corp_admin@localhost identified by 'xyz_passwd';

Load Schema/Data:

- cd /usr/rails/xyz_corp/railsapp
- mysql -uxyz_corp_admin -pxyz_passwd railsapp_xyz_corp < ./xyz_corp.sql

Compile Rails assets

- cd /usr/rails/xyz_corp/railsapp
- rake assets:precompile (takes about 25 seconds)

Starting servers:

- unicorn:
- cd /usr/rails/xyz_corp/railsapp
- unicorn -c config/xyz_corp_unicorn.rb -D # 6 processes on port 9000+
- nginx:
- modify sample_nginx.conf (in /usr/rails/xyz_corp/railsapp):
- change line 41 to your server's address
- copy to /etc/nginx/nginx.conf
- as root: nginx -c /etc/nginx/nginx.conf

Stopping servers:

- unicorn:
- cd /usr/rails/xyz_corp/railsapp
- ./kill_unicorn

Logging in:

- if your server is mc0.xyz-corp.com then login page is:
- http://mc0.xyz-corp.com/users/login
- the system is shipped with just one user ('xyz') in the database
- additional users can be added by users in the admin group (eg 'xyz')
- passwords are disabled, but:
- see app/models/user.rb:valid_login? for sample LDAP code

Notes:

- the software is configured as a Rails production environment:
- config/environments/production.rb
- config/database.yml (production section)