# **Rails-app-in-a-Vagrant-box**

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In a Vagrant box, I built a simple web application using the Ruby on Rails web platform. Set up and run the Vagrant image.

* Download and install Hashicorp Vagrant for your operating system.
* Virtual Machine must be installed first.
* Set up the Vagrant box
* Use hashicorp/bionic64 vagrant box because this application was tested with this image.

## Run vagrant:

* vagrant init and vagrant up
* vagrant ssh (After that, you'll be able to access the virtual machine. You must install the appropriate versions of Ruby and Rails, as well as a Postgresql database, in order to run Ruby applications.)

## Requirements:

* The system must be updated, which can be done using sudo apt-get update.
* To install ruby, use rvm or rbenv.
* Ruby version -2.4.1
* Postgresql database
* Rails
* To execute the program, we'll need a gem file, which we can get through bundle install.
* Curl => \curl -sSL [https://get.rvm.io](https://get.rvm.io/) | bash -s stable
* Gpg2 => sudo apt-get install gnugp2

## Problem faced during configuration

* When using Ruby and some gem packages, the most typical issue is that the system does not recognize the bundle package version according to the project.
* Before running bundle install in the project directory, make sure to delete/remove Gemfile.lock first. [Because gemfile.lock already contains a package name that your project doesn't support].
* Some of the gem file didn’t install when doing bundle install so, we have to install them manually like, [An error occurred while installing pg (0.21.0), and Bundler cannot continue. Make sure that gem install pg -v '0.21.0' --source 'https://rubygems.org/' succeeds before bundling.] In this case, we have to install manually i.e. gem install pg -v '0.21.0' --source '<https://rubygems.org/>'
* Occasionally, you may receive the following error: set up postgresql-server-dev-X.Y, where X.Y. is your server's version.

sudo apt-get install libpq-dev

* Now, we must first create a database and a user with a password that is encrypted. Then give the user full access to the database.

Authentication failure occurs when the password is requested.

For Authentication failure:

sudo -u postgres createusername (For creating username)

sudo -u postgres created (For creating database)

Note: Make sure you update your repository list.

The most crucial element is to ensure that port forwarding is enabled in the vagrantfile since you must run the hosted app on the rails server from the host machine.

When done you can run your rails server, rails s -b domainname (If it doesn't work, you'll have to install node.js. It isn't working since the javascript runtime cannot be found.)

Finally, a simple web is hosted using rails server