**Setting up development environment**

1. **Install Oracle VirtualBox**

Use the following link to download VirtualBox or copy from another machine

<https://www.virtualbox.org/wiki/Downloads>

1. **Install Ubuntu**

Use the following link to download VirtualBox or copy from another machine

<http://releases.ubuntu.com/18.04/ubuntu-18.04.1-desktop-amd64.iso>

1. **Install Atom**

Atom can be downloaded as .deb package from internet and installed using the below command

sudo dpkg -i <pathtofile> (i.e., ./Downloads/atom-amd64.deb)

or use the below commands to install it from the terminal

sudo add-apt-repository ppa:webupd8team/atom

sudo apt-get update

sudo apt-get install atom

(OR)

Open Ubuntu software and download Atom

**To Install Ruby Either follow step 4 or 5**

* If step 4 is followed skip steps 5,6 and 7
* If step 5 is followed skip step 4 and proceed with remaining

1. **Install rbenv and Dependencies, followed by Ruby**

sudo apt update

sudo apt install autoconf bison build-essential libssl-dev libyaml-dev libreadline6-dev zlib1g-dev libncurses5-dev libffi-dev libgdbm5 libgdbm-dev

git clone <https://github.com/rbenv/rbenv.git ~/.rbenv>

echo 'export PATH="$HOME/.rbenv/bin:$PATH"' >> ~/.bashrc

echo 'eval "$(rbenv init -)"' >> ~/.bashrc

source ~/.bashrc

type rbenv

Your terminal window will display the following:

Output

rbenv is a function

rbenv ()

{

local command;

command="${1:-}";

if [ "$#" -gt 0 ]; then

shift;

fi;

case "$command" in

rehash | shell)

eval "$(rbenv "sh-$command" "$@")"

;;

\*)

command rbenv "$command" "$@"

;;

esac

}

git clone https://github.com/rbenv/ruby-build.git ~/.rbenv/plugins/ruby-build

**Installing Ruby with ruby-build**

rbenv install 2.5.1

rbenv global 2.5.1

ruby -v

**Output**

ruby 2.5.1p57 (2018-03-29 revision 63029) [x86\_64-linux]

**Working with Gems**

echo "gem: --no-document" > ~/.gemrc

gem install bundler

**Output**

Fetching: bundler-1.16.2.gem (100%)

Successfully installed bundler-1.16.2

1 gem installed

**Installing Rails**

gem install rails

rbenv rehash

rails -v

1. **Install RVM and Ruby**

sudo apt-get update

sudo apt-get install curl

\curl -sSL https://get.rvm.io | bash

gpg --keyserver hkp://keys.gnupg.net --recv-keys 409B6B1796C275462A1703113804BB82D39DC0E3 7D2BAF1CF37B13E2069D6956105BD0E739499BDB

1. **Update bashrc for RVM**

Open new terminal and run the below command

atom ~/.bashrc

Add the below line in the .bashrc and save it

[[ -s "$HOME/.rvm/scripts/rvm" ]] && . "$HOME/.rvm/scripts/rvm"

rvm get stable

rvm install 2.5.1

rvm docs generate-ri

rvm alias create default 2.5.1

Close the terminal and open a new terminal and run the below command to check whether ruby is installed

sudo apt install ruby

ruby -v

Above command should output the ruby version. In our case it is 2.5.1

1. **Install Rails**

gem install rails

sudo apt install ruby-railties

sudo apt-get install nodejs

Close the terminal and open a new terminal and run the below command to check whether ruby is installed

rails -v

Above command should output the ruby version

1. **Create Sample app**

mkdir Project

cd Project

rails new sample

cd sample

rails s

Open browser and access the below url

http://localhost:3000

1. **Install Putty**

Open terminal,

sudo apt-install putty -y

Once putty is installed, use the private key (in ppk format) to connect to the server

 

If it’s not supported use the key which is in pem format and convert it to ppk format in terminal,

Open terminal, check puttygen –-version, if it displays any version details proceed with below steps,

$ puttygen Binfac\_Key.pem -O private -o converted\_key.ppk

Once it is done, use the below ip to access web and db details

54.72.72.72 - cloned web

18.203.45.59 - cloned db

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/putty.html?icmpid=docs_ec2_console>

Application instance code(php) is available in the following directory on the cloned web server.

/var/www/html/ -

1. **To connect to a local host on unix machine use following**

Mongo –port <portnumber>

mongo --port 28018

to connect to a remote host on unix machine

mongo –host <host name/ip :port>

1. **connecting to a remote mongodb server from windows desktop using mongocompass**

go to --https://www.mongodb.com/download-center/compass

download –1.16.3(community stable edition) platform windows 64 bit/7+ -- if your OS is that type (mostly yes!!)

once downloaded, install the.exe to setup mongo compass

launch mongo compass and fill the following details to connect to remote db (orcars stg db server – on 18.203.45.59)

hostname - 18.203.45.59

port – 28018

authentication -none

replica set name –leave blank

read preference – leave primary

ssl -none

ssh tunnel – choose “use identity file”

ssh tunnel port -22

ssh username – centos

ssh identity file - choose the ppk file generated already to connect to remote web/db servers saved in your desktop

ssh passphrase – leave blank

favourite name – orcars stg



