

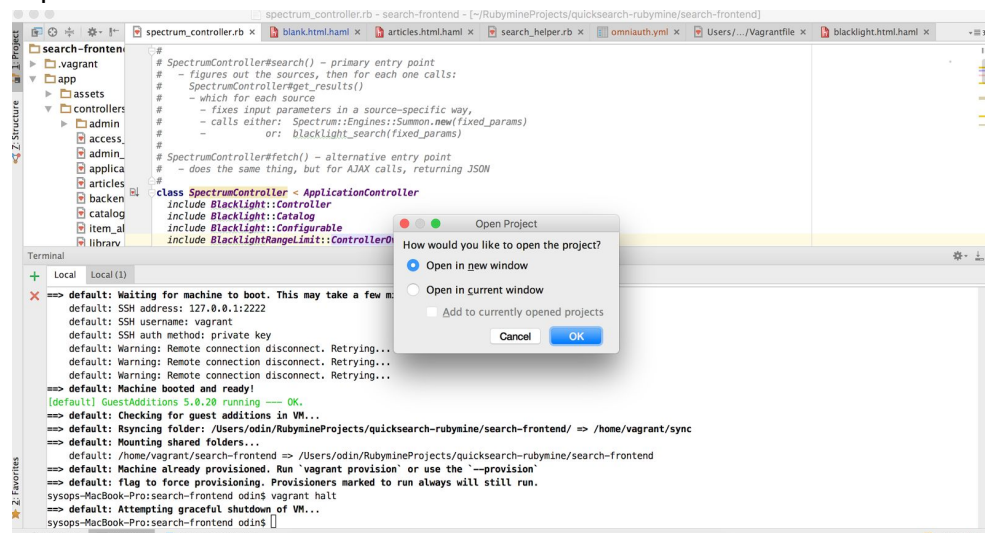
## Steps for Quicksearch RubyMine (RM) Vagrant:

- Vagrant commands to learn:
  - `vagrant up` (to boot up the instance)
  - `vagrant reload --provision` (to reload the configuration)
  - `vagrant ssh` (to log in)
  - `vagrant snapshot push` (to save an instance in time)
  - `vagrant global-status` (to view status of all instances)
  - `vagrant status` (to show status)
  - `vagrant halt` (to stop Vagrant)
  - `vagrant destroy id` (to remove vagrant instance)
  - `vagrant plugin install vagrant-vbguest`
- Install (1) VirtualBox; (2) Vagrant; (3) RubyMine.
  - Run “`vagrant -v`” in Terminal to verify that vagrant is working.
  - Install vbguest plugin:
    - `vagrant plugin install vagrant-vbguest`
- Make sure that you have set up your GitHub key. The steps are:
 

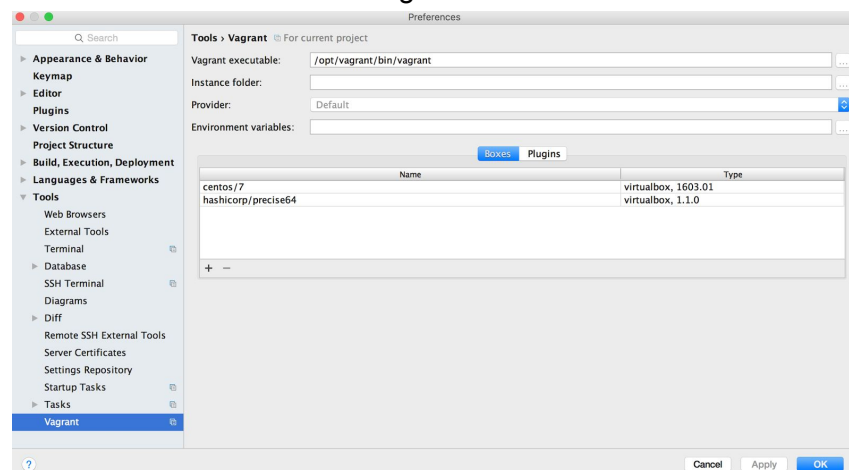
```
ssh-keygen -t rsa -b 4096 -C you@email.com
# press enter to save key to your home folder
eval "$(ssh-agent -s)"
# it should print "Agent pid . . ."
ssh-add ~/.ssh/id_rsa
# it should print "Identity added . . ."
pbcopy < ~/.ssh/id_rsa.pub
# now paste this key into your GitHub SSH Settings page
ssh -T git@github.com
# enter "yes" to recognize host
```
- Export your key to the folder containing the repo (and verify with `ssh-add -L`). (The steps are shown in detail in the quicksearch-vagrant repo wiki.)
  - `key=~/.ssh/id_rsa`

```
[[ -z $(ssh-add -L | grep $key) ]] && ssh-add $key
```
- Start RubyMine.
  - Git clone in RubyMine (third option in the launcher) all the QS projects:
    - `search-frontend`
    - `search-backend`

- For the 2nd project (as shown below) you're adding, hit the checkbox, and select "Open in current window."

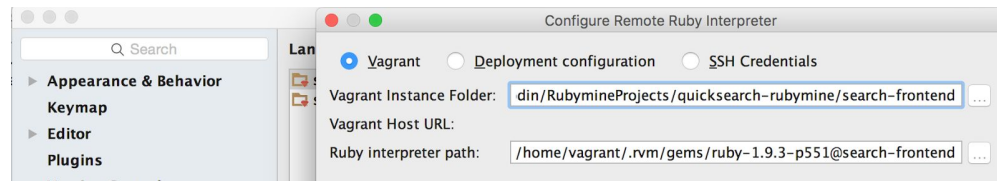


- Open Terminal in RubyMine (View/Tool Windows/ Terminal)
- Run "vagrant up"
  - This will install the stack. (It will take a while.)
  - Install vbguest plugin (just in case you haven't already and if it complains).
  - Run "vagrant reload --provision" if you ran into an error and had to fix something.
- Configure Vagrant and Ruby connections in RubyMine.
  - Specify the path for "Vagrant executable: and verify that box "centos/7" shows up in RM/ Preferences/ Tools/ Vagrant.

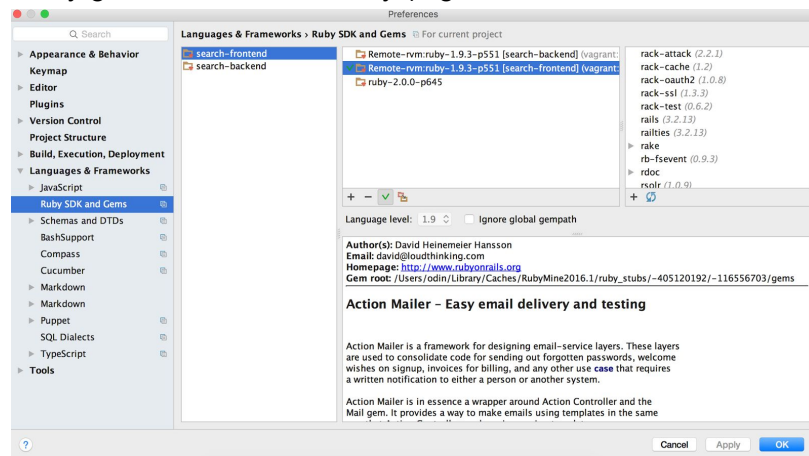


- Go to RM/Languages & Frameworks/Ruby SDKs & Gems
- Click on + icon to add remote SDK. Select Vagrant in the dialog box (as shown below). Make sure the path is to search-frontend in the first box, and the last path points to gem locations (the same location as the path vagrant loading says

“Happy Coding!”)



- Ensure that the correct remote appears with a green checkmark next to it.
- Verify gem/bundler availability (e.g., Rails 4 for SB; Rails 3 for SF):



- Log in (“vagrant ssh” into) each box through RM Terminal. If the search-frontend gemset is not selected as default by rvm, select it.
  - `cd search-frontend; rvm gemset list; ...`
  - Same for SB.
- Verify database and tables exist for both SF and SB. For example, just for SF:
  - `cd quicksearch-vagrant/db; sqlite3 development.sqlite3`
  - `rake db:migrate` (in case the database is missing. A sign is getting Voyager error from search-backend.)
- Start Solr on SF box (if it's not running):
  - Inside the blacklight-jetty-4.10.4 folder do: `java -jar start.jar &`
  - Verify by running `ps -A | grep java`.
- Ensure /bin folder exists in both search-frontend and search-backend. Otherwise, RubyMine will be unable to run the project.
- For Debug, RubyMine might prompt for installation of debugging gems. This might change in future.
- Select RM/Run to run both programs (or select each project and click on Run -- it should automatically pick up the project runtime info, but if it doesn't click on Edit Configuration). The Edit Configuration should look like the following.
  - *Note the different IP and port for search-backend. See Figure 5.*

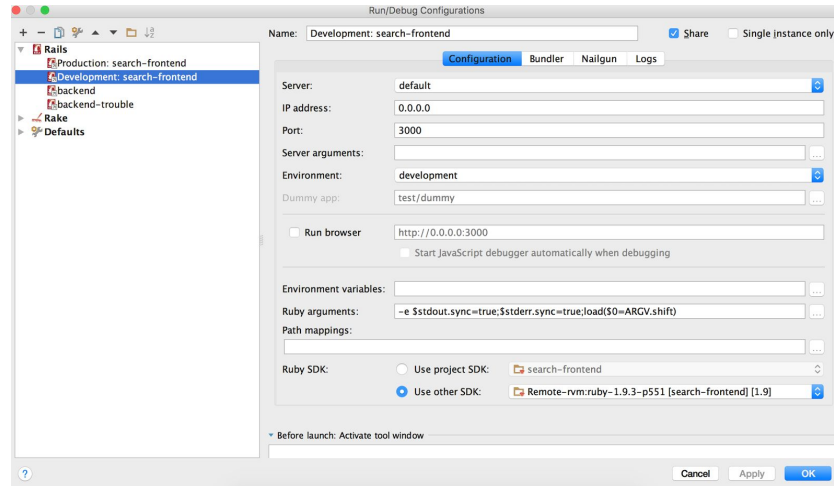


Fig 4: SF Run/Debug Configurations

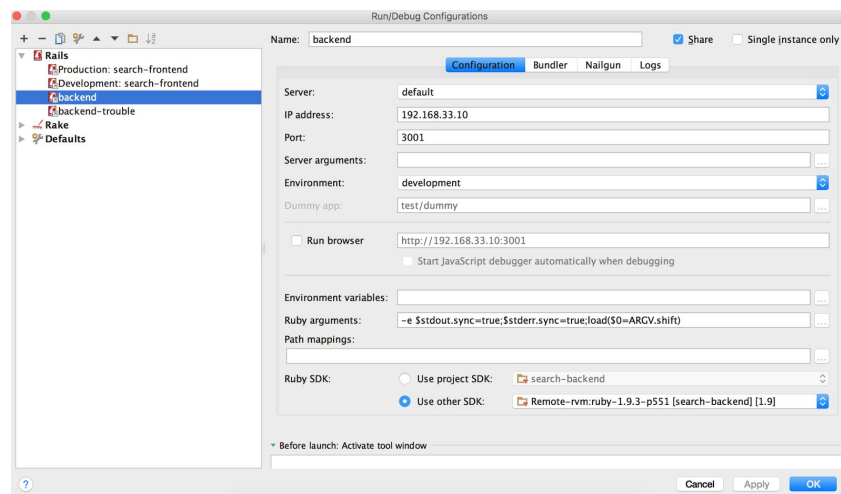
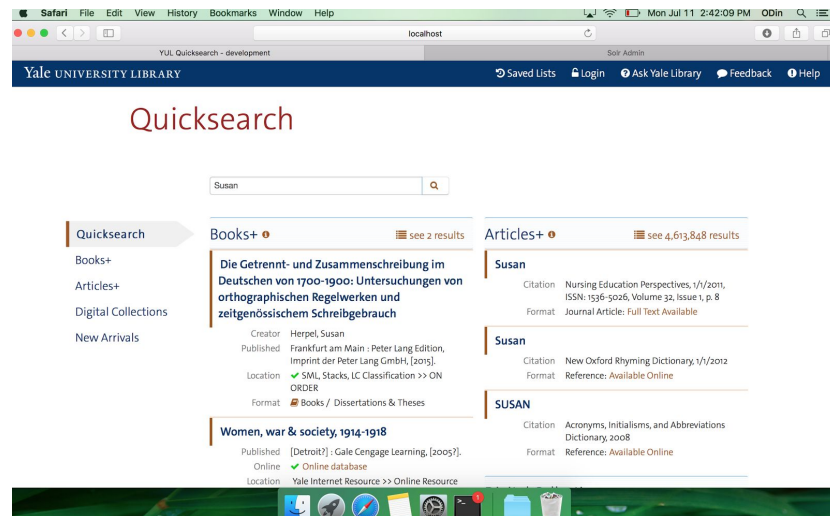


Fig 5: SB Run/Debug Configurations

- Finally, browse to
  - localhost:3000 for search-frontend
  - localhost:8983 for Solr



## RubyMine Tips

- View/Tools Windows/Terminal to view Terminal
- Command-4 to open Run Console
- Command-T to open a new Terminal window

## Troubleshooting

- Each project needs a bin folder. When running a project, if Run Configurations keeps pointing to the wrong folder (e.g., search-frontend for search-backend), there's a trick to fool RubyMine: point to a local SDK, click Apply/Close, and then point to the remote SDK. This might happen if you accidentally deleted the bin directory.
- Sometimes Vagrant can keep displaying "remote connection error". Do a `vagrant halt` and then a `vagrant up`.
- Sometimes RM might have problem connecting to the box. Try again.

## Consolidated VM Instructions:

This VM contains the full stack.

- Git clone:
  - <https://github.com/yalelibrary/quicksearch-vagrant>
- Follow the steps in the repo wiki.