Steps for Quicksearch RubyMine (RM) Vagrant:

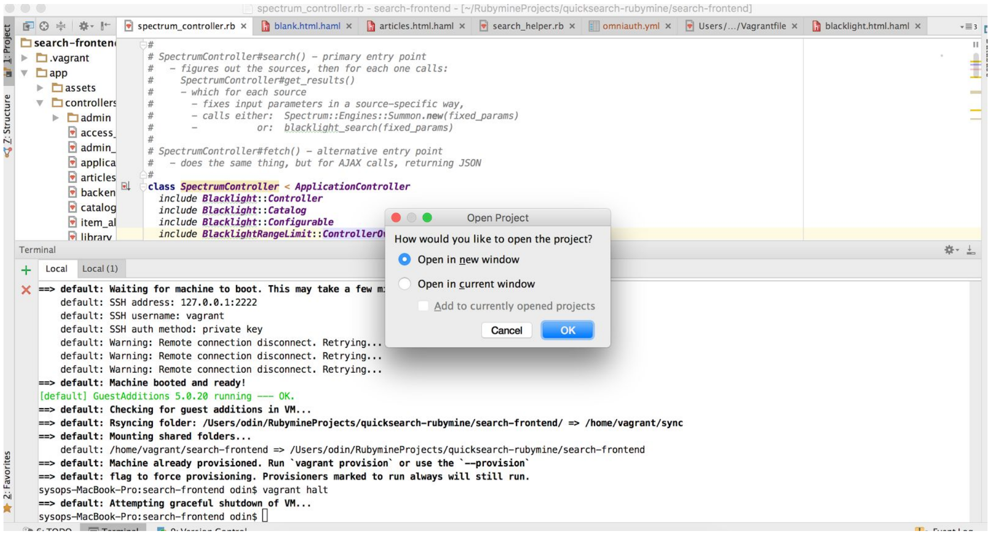
- Vagrant commands to learn:
  - `vagrant up (to boot up the instance)`
  - `vagrant reload --provision (to reload the configuration)`
  - `vagrant ssh (to log in)`
  - `vagrant snapshot push (to save an instance in time)`
  - `vagrant global-status (to view status of all instances)`
  - `vagrant status (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 Vagrant vbguest plugin: `vagrant plugin install vagrant-vbguest`
- Make sure that you have set up GitHub keys. 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 repo (and verify with `ssh-add -L`). The steps are shown in quicksearch-vagrant repo.

  -
    ```
    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), hit the checkbox and import in “Current Window.”



```
#
# SpectrumController#search() - primary entry point
#   - figures out the sources, then for each one calls:
#     SpectrumController#get_results()
#     - which for each source
#       - fixes input parameters in a source-specific way,
#       - calls either:  Spectrum::Engines::Summon.new(fixed_params)
#       -          or:  blacklight_search(fixed_params)
#
# SpectrumController#fetch() - alternative entry point
#   - does the same thing, but for AJAX calls, returning JSON
#
class SpectrumController < ApplicationController
  include Blacklight::Controller
  include Blacklight::Catalog
  include Blacklight::Configurable
  include BlacklightRangeLimit::ControllerO
```

Open Project

How would you like to open the project?

● Open in new window

○ Open in current window

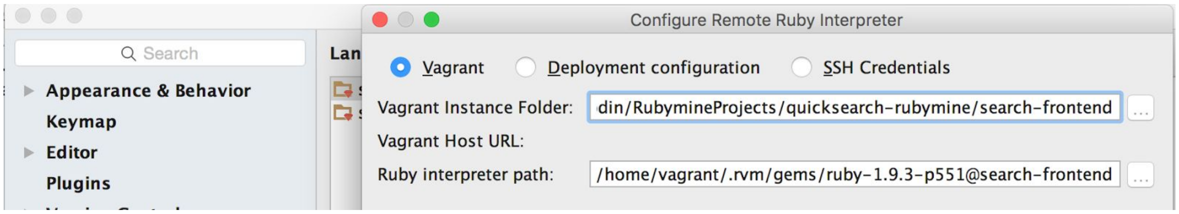
□ Add to currently opened projects

Cancel OK

```
==> default: Waiting for machine to boot. This may take a few m
    default: SSH address: 127.0.0.1:2222
    default: SSH username: vagrant
    default: SSH auth method: private key
    default: Warning: Remote connection disconnect. Retrying...
    default: Warning: Remote connection disconnect. Retrying...
    default: Warning: Remote connection disconnect. Retrying...
==> default: Machine booted and ready!
[default] GuestAdditions 5.0.20 running --- OK.
==> default: Checking for guest additions in VM...
==> default: Rsyncing folder: /Users/odin/RubymineProjects/quicksearch-rubymine/search-frontend/ => /home/vagrant/sync
==> default: Mounting shared folders...
    default: /home/vagrant/search-frontend => /Users/odin/RubymineProjects/quicksearch-rubymine/search-frontend
==> default: Machine already provisioned. Run `vagrant provision` or use the `--provision`
==> default: flag to force provisioning. Provisioners marked to run always will still run.
sysops-MacBook-Pro:search-frontend odin$ vagrant halt
==> default: Attempting graceful shutdown of VM...
sysops-MacBook-Pro:search-frontend odin$ 
```

- ○ Open Terminal in RubyMine

- 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 RM.
  - ○ Verify 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. 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!”)



Configure Remote Ruby Interpreter

● Vagrant ○ Deployment configuration ○ SSH Credentials

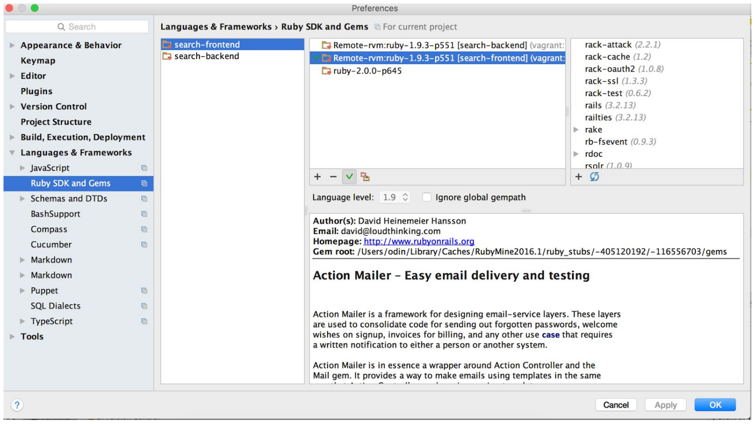
Vagrant Instance Folder: din/RubymineProjects/quicksearch-rubymine/search-frontend

Vagrant Host URL:

Ruby interpreter path: /home/vagrant/.rvm/gems/ruby-1.9.3-p551@search-frontend

  - ○ 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):



Languages & Frameworks › Ruby SDK and Gems For current project

search-frontend
search-backend

Remote-rvm:ruby-1.9.3-p551 [search-backend] (vagrant:
✓ Remote-rvm:ruby-1.9.3-p551 [search-frontend] (vagrant:
ruby-2.0.0-p645

rack-attack (2.2.1)
rack-cache (1.2)
rack-oauth2 (1.0.8)
rack-ssl (1.3.3)
rack-test (0.6.2)
rails (3.2.13)
railties (3.2.13)
rake
rb-fsevent (0.9.3)
rdoc
rsolr (1.0.9)

Language level: 1.9 □ Ignore global gempath

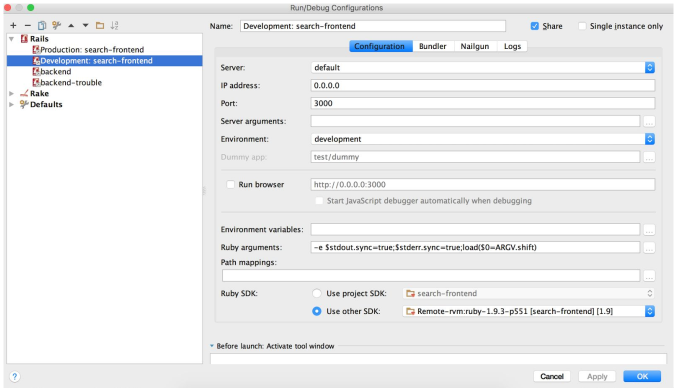
Author(s): David Heinemeier Hansson
Email: david@loudthinking.com
Homepage: http://www.rubyonrails.org
Gem root: /Users/odin/Library/Caches/RubyMine2016.1/ruby_stubs/-405120192/-116556703/gems

Action Mailer – Easy email delivery and testing

Action Mailer is a framework for designing email-service layers. These layers are used to consolidate code for sending out forgotten passwords, welcome wishes on signup, invoices for billing, and any other use **case** that requires a written notification to either a person or another system.

Action Mailer is in essence a wrapper around Action Controller and the Mail gem. It provides a way to make emails using templates in the same

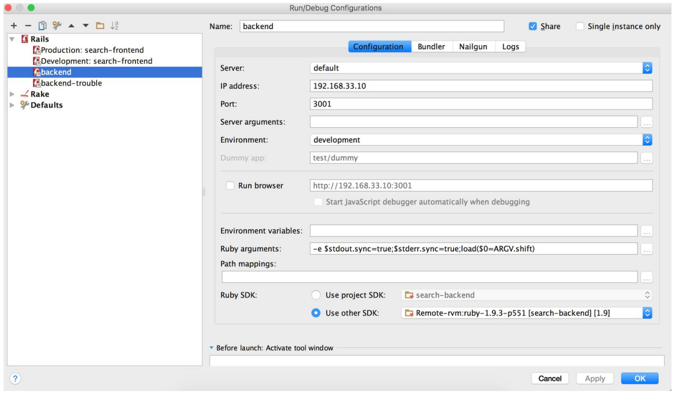
- Log in (“`vagrant ssh`” into) each box through RM Terminal. If the search-frontend gemset is not selected as default by rvm, select it.
    - `cd search-frontend; rvm gemset list;` …
    - Same for SB.
- Verify database and tables exist for both SF and SB. For example, for SF:
    - `cd quicksearch-vagrant/db; sqllite3 development.sqllite3`
    - `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).
    - Verify by running `ps -A | grep java`.
- Ensure /bin folder exists in both search-frontend and search-backend.
- 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.



Name: Development: search-frontend ☑ Share □ Single instance only

Server: default
IP address: 0.0.0.0
Port: 3000
Server arguments:
Environment: development
Dummy app: test/dummy
□ Run browser http://0.0.0.0:3000
□ Start JavaScript debugger automatically when debugging
Environment variables:
Ruby arguments: -e $stdout.sync=true;$stderr.sync=true;load($0=ARGV.shift)
Path mappings:
Ruby SDK: ○ Use project SDK: search-frontend
● Use other SDK: Remote-rvm:ruby-1.9.3-p551 [search-frontend] [1.9]
Before launch: Activate tool window

Fig 4: SF Run Configurations



Name: backend ☑ Share □ Single instance only

Server: default
IP address: 192.168.33.10
Port: 3001
Server arguments:
Environment: development
Dummy app: test/dummy

□ Run browser http://192.168.33.10:3001
□ Start JavaScript debugger automatically when debugging

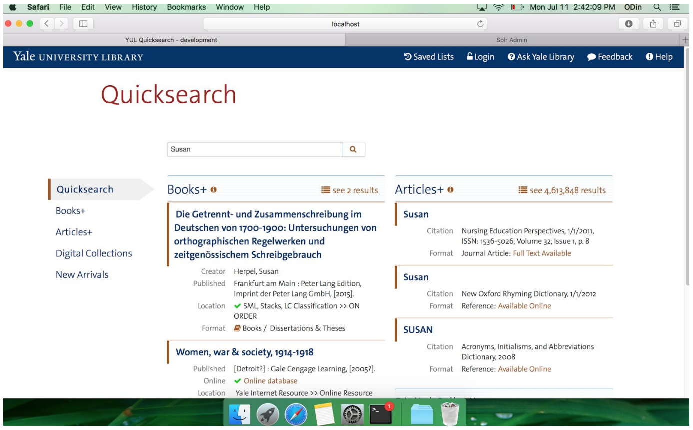
Environment variables:
Ruby arguments: -e $stdout.sync=true;$stderr.sync=true;load($0=ARGV.shift)
Path mappings:

Ruby SDK: ○ Use project SDK: search-backend
● Use other SDK: Remote-rvm:ruby-1.9.3-p551 [search-backend] [1.9]

Before launch: Activate tool window

Fig 5: SB Run Configurations

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



Books+ — see 2 results

Die Getrennt- und Zusammenschreibung im Deutschen von 1700-1900: Untersuchungen von orthographischen Regelwerken und zeitgenössischem Schreibgebrauch
Creator: Herpel, Susan
Published: Frankfurt am Main : Peter Lang Edition, Imprint der Peter Lang GmbH, [2015].
Location: ✓ SML, Stacks, LC Classification >> ON ORDER
Format: Books / Dissertations & Theses

Women, war & society, 1914-1918
Published: [Detroit?] : Gale Cengage Learning, [2005?].
Online: ✓ Online database
Location: Yale Internet Resource >> Online Resource

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Format: Journal Article: Full Text Available

Susan
Citation: New Oxford Rhyming Dictionary, 1/1/2012
Format: Reference: Available Online

SUSAN
Citation: Acronyms, Initialisms, and Abbreviations Dictionary, 2008
Format: Reference: Available Online

RubyMine Tips

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

Possible Issues

- Sometimes RM might have problem connecting to the box. Try again.

Consolidated VM Instructions:

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