

Using Ruby on Rails 3.0.5 on O.I.

1. Create a user account like "oi" and empower oi user to have package install right in /etc/user_attr.

```
oi@openindiana:~/demol$ grep oi /etc/user_attr
oi:::profiles=Primary Administrator;=root
oi@openindiana:~/demol$
```

2. Ruby-1.8.7 by default is not installed. Run pkg install to install the package and gcc.

```
oi@openindiana:~$ pkg install pkg:/runtime/ruby-18 developer/gcc-3
```

3. "gem update --system "d to get latest gem tool(1.7.2+).
 - a. If behind firewall, "gem update --http-proxy <http://firewall.test.net:portnumber> --system"
4. Run "gem install rails -v 3.0.5" to install rails-3.0.5. This will install all the rails depended gems.
5. Install sqlite3 so that we have a database backend for testing.
 - a. "gem install sqlite3" will need gcc compiler installed.
6. A quick check of installed Ruby stuff.

```
oi@oi:~$ ruby -v
ruby 1.8.7 (2009-06-12 patchlevel 174) [i386-solaris2.11]
oi@oi:~$ gem -v
1.7.2
oi@oi:~$ gem env
RubyGems Environment:
- RUBYGEMS VERSION: 1.7.2
- RUBY VERSION: 1.8.7 (2009-06-12 patchlevel 174) [i386-solaris2.11]
- INSTALLATION DIRECTORY: /var/ruby/1.8/gem_home
- RUBY EXECUTABLE: /usr/ruby/1.8/bin/ruby
- EXECUTABLE DIRECTORY: /var/ruby/1.8/gem_home/bin
- RUBYGEMS PLATFORMS:
  - ruby
  - x86-solaris-2.11
- GEM PATHS:
  - /var/ruby/1.8/gem_home
  - /export/home/oi/.gem/ruby/1.8
  - /usr/ruby/1.8/lib/ruby/gems/1.8
- GEM CONFIGURATION:
  - :update_sources => true
  - :verbose => true
  - :benchmark => false
  - :backtrace => false
  - :bulk_threshold => 1000
- REMOTE SOURCES:
  - http://rubygems.org/
oi@oi:~/demol$ rails -v
Rails 3.0.5
oi@oi:~$uname -a
SunOS oi 5.11 oi_148 i86pc i386 i86pc
oi@oi:~$
```

7. Create a test rails app "demo1"

```

oi@oi:~$ rails new demol
  create
  create  README
  create  Rakefile
  create  config.ru
  create  .gitignore
  create  Gemfile
  create  app
  create  app/controllers/application_controller.rb
  create  app/helpers/application_helper.rb
<snip>
  create  config/environments/development.rb
  create  config/environments/production.rb
  create  config/environments/test.rb
  create  config/initializers
  create  config/initializers/backtrace_silencers.rb
<snip>
  create  vendor/plugins
  create  vendor/plugins/.gitkeep
oi@oi:~$

```

8. Using rails to create user database table without sql commands.

```

oi@oi:~/demol$ rails generate scaffold User name:string email:string
  invoke  active_record
  create  db/migrate/20110402071401_create_users.rb
  create  app/models/user.rb
  invoke  test_unit
  create  test/unit/user_test.rb
  create  test/fixtures/users.yml
  route  resources :users
  invoke  scaffold_controller
  create  app/controllers/users_controller.rb
  invoke  erb
  create  app/views/users
  create  app/views/users/index.html.erb
  create  app/views/users/edit.html.erb
  create  app/views/users/show.html.erb
  create  app/views/users/new.html.erb
  create  app/views/users/_form.html.erb
  invoke  test_unit
  create  test/functional/users_controller_test.rb
  invoke  helper
  create  app/helpers/users_helper.rb
  invoke  test_unit
  create  test/unit/helpers/users_helper_test.rb
  invoke  stylesheets
  create  public/stylesheets/scaffold.css
oi@oi:~/demol$ rake db:migrate
(in /home/tjyang/demol)
== CreateUsers: migrating =====
-- create_table(:users)
   -> 0.0020s
== CreateUsers: migrated (0.0022s) =====

oi@oi:~/demol$

```

9. Verify user table really got created.

```
oi@oi:~/demo1$ sqlite3 ./db/development.sqlite3
SQLite version 3.6.23
Enter ".help" for instructions
Enter SQL statements terminated with a ";"
sqlite> .tables
schema_migrations  users
sqlite> .exit
oi@oi:~/demo1$
```

10. Startup demo1 rails application

```
oi@oi:~/demo1$ rails s
=> Booting WEBrick
=> Rails 3.0.5 application starting in development on http://0.0.0.0:3000
=> Call with -d to detach
=> Ctrl-C to shutdown server
[2011-04-02 02:23:50] INFO  WEBrick 1.3.1
[2011-04-02 02:23:50] INFO  ruby 1.8.7 (2009-06-12) [i386-solaris2.11]
[2011-04-02 02:23:51] INFO  WEBrick::HTTPServer#start: pid=48 port=3000

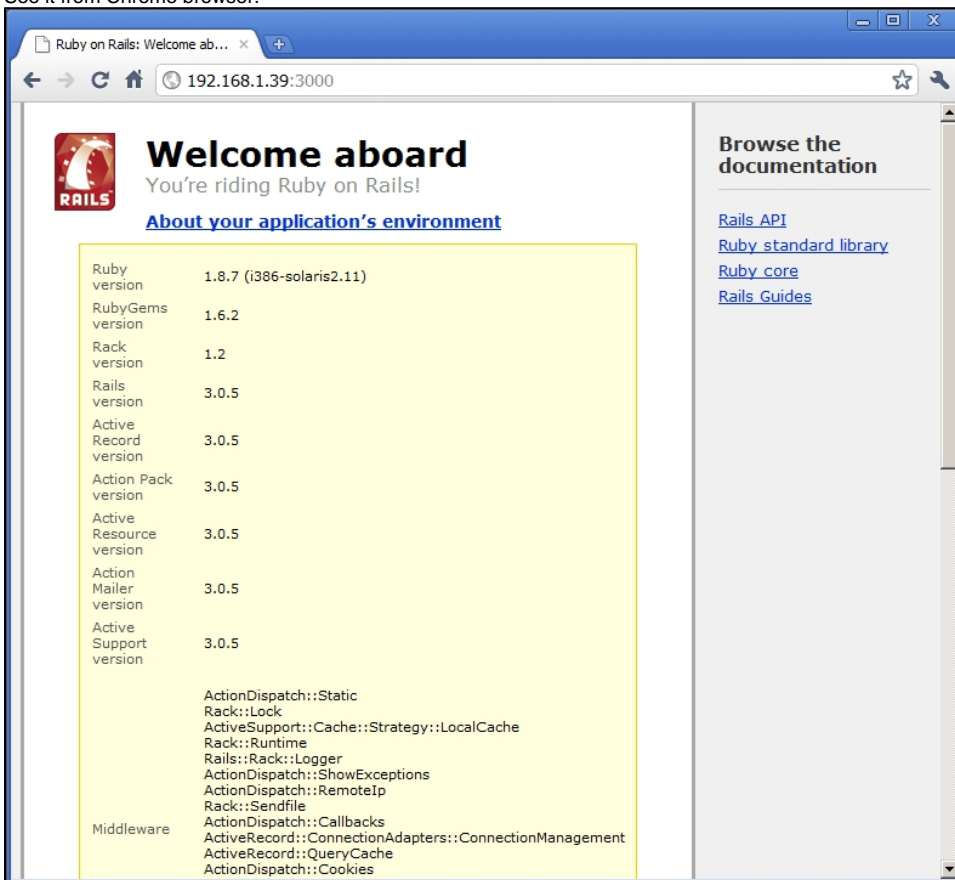
Started GET "/users" for 192.168.1.204 at Sat Apr 02 02:25:53 -0500 2011
  Processing by UsersController#index as HTML
  User Load (1.0ms)  SELECT "users".* FROM "users"
  Rendered users/index.html.erb within layouts/application (4.3ms)
  Completed 200 OK in 58ms (Views: 11.0ms | ActiveRecord: 1.0ms)

Started GET "/rails/info/properties" for 192.168.1.204 at Sat Apr 02 02:27:06 -0500 2011
  Processing by Rails::InfoController#properties as
  SQL (0.5ms)  SELECT name
  FROM sqlite_master
  WHERE type = 'table' AND NOT name = 'sqlite_sequence'
  SQL (0.2ms)  SELECT name
  FROM sqlite_master
  WHERE type = 'table' AND NOT name = 'sqlite_sequence'

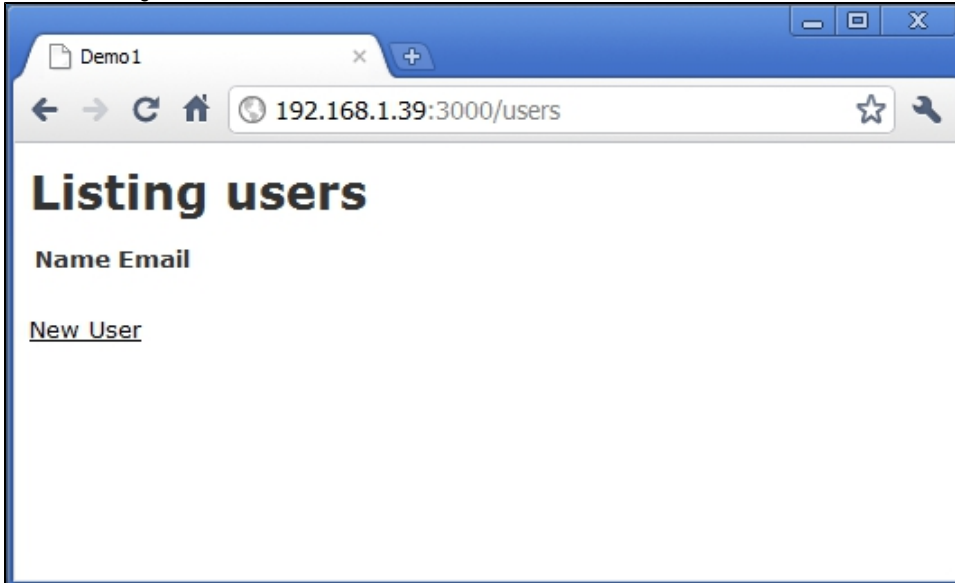
  SQL (0.1ms)  SELECT "schema_migrations"."version" FROM "schema_migrations"
  Rendered inline template (0.3ms)
  Completed 200 OK in 29ms (Views: 1.4ms | ActiveRecord: 0.8ms)

Started GET "/users" for 192.168.1.204 at Sat Apr 02 02:28:05 -0500 2011
  Processing by UsersController#index as HTML
  User Load (0.5ms)  SELECT "users".* FROM "users"
  Rendered users/index.html.erb within layouts/application (3.1ms)
  Completed 200 OK in 14ms (Views: 9.0ms | ActiveRecord: 0.5ms)
```

11. See it from Chrome browser.



12. See users listing



13. Above procedure digitized into demo1.xml

```
oi@openindiana:~$ cat demo1.xml
<?xml version="1.0"?>
<programs>
  <program name="rails" version="3.0.5" revision="1">
    <build-name>${SB_PROG_NAME}-${SB_PROG_VER}</build-name>

    <install-name>${SB_PROG_NAME}42</install-name>

    <script-header>
<![CDATA[
```

```

:
]]>
  </script-header>

  <configure>
<![CDATA[
case "${SB_SYSTYPE}" in
i386-pc-solaris2.11)
# x86 OpenIndiana is currently shown as i386-pc-solaris-2.11.
pfexec pkg install pkg:/runtime/ruby-18 \
pkg:/developer/gcc-3
# Need to specify gem 1.6.2 for now, 1.7.1 has issue.
# http://stackoverflow.com/questions/5520333/rails-3-install-error-invalid-value-for-cert-chain
pfexec gem update --system 1.6.2
pfexec gem install rails -v 3.0.5
pfexec gem install sqlite3
;;
esac
]]>
  </configure>

  <build>
<![CDATA[
/var/ruby/1.8/gem_home/bin/rails new demol
cd demol
/var/ruby/1.8/gem_home/bin/rails generate scaffold User name:string email:string
/var/ruby/1.8/gem_home/bin/rake db:migrate
]]>
  </build>

  <install>
<![CDATA[
cd demol
/var/ruby/1.8/gem_home/bin/rails s
]]>
  </install>
</program>
</programs>
oi@openindiana:~$

```

14. Lets play it back by /opt/TWWfsw/bin/sb tool.

```
oi@openindiana:~$ /opt/TWWfsw/bin/sb -uCBi demol.xml
```

15. References

- a. [Ruby on Rails 3 tutorial](#)
- b. [Set up TWW sb on OI](#)