

BitNami RubyStack 3.2.3-0

Quick Start Guide

BitNami RubyStack 3.2.3-0

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Acknowledgements

BitNami RubyStack is based on a number of open source components:

Ruby. The interpreted scripting language for quick and easy object-oriented programming.

<http://www.ruby-lang.org/>.

Rails. Together with Ruby (RoR) is a open-source web application framework that's optimized for programmers happiness and sustainable productivity.

<http://www.rubyonrails.org/>.

MySQL. The world's leading open source database.

<http://www.mysql.com>

The Apache HTTP server, developed by The Apache Software Foundation.

<http://www.apache.org/>.

PHP. The widely used scripting language.

<http://www.php.net>.

The open source browser-based MySQL management tool phpMyAdmin.

<http://www.phpmyadmin.net>

Git. Open source, distributed version control system.

<http://git-scm.com>

Subversion. The open-source version control system.

<http://www.subversion.tigris.org>

RubyGems. The premier ruby packaging system

<http://rubygems.org/>

Phusion Passenger (a.k.a. mod_rails or mod_rack) makes deployment of Ruby web applications a breeze.

<http://www.modrails.com/>.

Nginx. High-performance HTTP server and reverse proxy.

<http://nginx.org/>.

Sphinx. Full-text search engine.

<http://www.sphinxsearch.com/>.

Memcached. High-performance, distributed memory object caching system.

<http://www.memcached.org/>.

The OpenSSL library for encrypting communications.

<http://www.openssl.org/>.

The zlib data-compression library.

<http://www.zlib.net>

Rmagick gem for ImageMagick.

<http://rmagick.rubyforge.org/>

ImageMagick image processor.

<http://www.imagemagick.org>

The libiconv library for multiple character encoding.

<http://www.gnu.org/software/libiconv/>

jpegsrc. Software developed by the The Independent JPEG Group.

<http://www.ijg.org>

The gd graphics library.

<http://www.boutell.com/gd/>

Ruby Version Manager (RVM)

<https://rvm.io/>

You can find the individual licenses for the above projects as part of the installation.

BitNami RubyStack Overview

The BitNami Project was created to help spread the adoption of freely available, high quality, open source web applications. BitNami aims to make it easier than ever to discover, download and install open source software such as document and content management systems, wikis and blogging software. You can learn more about BitNami at <http://bitnami.org>.

The **BitNami RubyStack** is an installer that greatly simplifies the installation of Ruby on Rails and runtime dependencies. It includes ready-to-run versions of Ruby, Rails, MySQL and Subversion. RubyStack is distributed for free under the Apache 2.0 license. Please see the appendix for the specific licenses of all open source components included. You can learn more about BitNami Stacks at <http://bitnami.org/stacks/>.

Components

BitNami RubyStack includes **Apache 2.2.22**, **ImageMagick 6.7.5**, **MySQL 5.5.21**, **Ruby 1.9.3-p194**, **Rails 3.2.3**, **RubyGems 1.8.12**, **PHP 5.3.11**, **phpMyAdmin 3.5.1**, **Git 1.7.9.4**, **Subversion 1.7.4**, **nginx 1.0.14** and more requirement libraries.

Ruby is a dynamic, open source programming language with a focus on simplicity and productivity. It has an elegant syntax that is natural to read and easy to write. You can learn more about Ruby at <http://www.ruby-lang.org>.

Ruby on Rails is a full-stack MVC framework for database-backed web applications that's optimized for programmer happiness and sustainable productivity. It lets you write beautiful code by favoring convention over configuration. You can learn more about Ruby at <http://www.rubyonrails.org>.

Apache is the most popular HTTP server on the Internet. It provides a secure, efficient and extensible web platform. It is maintained by the Apache Software Foundation. You can find more information about Apache at <http://www.apache.org>.

MySQL is the world's most popular open source database. It is a relational database management system that combines speed, reliability and ease of use. It is developed and maintained by MySQL AB. You can find more information about MySQL at <http://www.mysql.com>.

PHP is a web development scripting language that can be embedded into HTML. Powerful and easy to use, it is the most popular Apache module. It is maintained by the PHP Group. You can find more information about PHP at <http://www.php.net>.

phpMyAdmin is a tool written in PHP intended to handle the administration of MySQL through a web interface. It allows you to manage anything from a single database to a complete MySQL server. You can find more information about phpMyAdmin at <http://www.phpmyadmin.net>.

Git is a free & open source, distributed version control system designed to handle everything from small to very large projects with speed and efficiency. You can find more information about Git at <http://git-scm.com/>.

Subversion The goal of the Subversion project is to build a version control system that is a compelling replacement for CVS in the open source community. The software is released under an Apache/BSD-style open source license. <http://subversion.tigris.org/>.

Phusion Passenger (a.k.a. mod_rails or mod_rack) makes deployment of Ruby web applications, such as those built on the revolutionary Ruby on Rails web framework, a breeze. It follows the usual Ruby on Rails conventions, such as "Don't-Repeat-Yourself". You can find more information about Passenger at <http://www.modrails.com/>.

Nginx is a free, open-source, high-performance HTTP server and reverse proxy, as well as an IMAP/POP3 proxy server. It is known for its high performance, stability, rich feature set, simple configuration, and low resource consumption. You can find more information about Nginx at <http://nginx.org/>.

Sphinx is a full-text search engine, meant to provide fast, size-efficient and relevant fulltext search functions to other applications. Sphinx was specially designed to integrate well with SQL databases and scripting languages. You can find more information about Sphinx at <http://www.sphinxsearch.com/>.

Memcached free & open source, high-performance, distributed memory object caching system, generic in nature, but intended for use in speeding up dynamic web applications by alleviating database load. Memcached is an in-memory key-value store for small chunks of arbitrary data (strings, objects) from results of database calls, API calls, or page rendering. You can find more information about Memcached at <http://www.memcached.org/>.

Ruby Version Manager (RVM) is a command-line tool which allows you to easily install, manage, and work with multiple ruby environments from interpreters to sets of gems. You can find more information about RVM at <https://rvm.io/>

Requirements

To run BitNami RubyStack you will need:

- Intel x86 or compatible processor
- Minimum of 512 MB RAM
- Minimum of 150 MB hard drive space
- A Windows operating system
- TCP/IP protocol support
- An x86 Linux operating system or
A 32-bit Windows operating system such as Windows 2000, XP, Vista or Windows Server 2003 or an OS X operating System.

Installation Guide

This section describes where to download BitNami RubyStack and the different installation modes that are available.

Downloading BitNami RubyStack

You can download the BitNami RubyStack binary file from <http://bitnami.org/stacks/>. It will be named `bitnami-rubystack-3.2.3-0-windows-installer.exe` for Windows or `bitnami-rubystack-3.2.3-0-linux-installer.bin` for Linux or `bitnami-rubystack-3.2.3-0-linux-x64-installer.bin` for Linux 64 bits or `bitnami-rubystack-3.2.3-0-osx-x86-installer.app.zip` for OS X x86.

Installing BitNami RubyStack

To begin the installation process, double-click on the file from your Desktop environment or invoke it directly from the command line.

You will be greeted by the 'Welcome' screen. The next step is to select the installation directory.

Then you can choose to install or not phpMyAdmin to handle the administration of MySQL through a web interface. If you want a sample Rails application to be created during installation, you should select "Sample Rails application" component.

RubyStack bundles a number of components that use TCP/IP ports. In particular, the default listening port for MySQL 3306 and for Apache 80 on Windows and 8080 on Linux. If any of these ports are already taken, the installation will ask you to enter a different port number.

The next screen will prompt you for data necessary to create the initial admin user:

MySQL root password: Here you can set the password that will be used when performing operations such as creating or deleting databases.

If you selected phpMyAdmin component, it will be configured with the user name 'root' and the password provided for MySQL root user. Once installation is completed, you can access at <http://127.0.0.1:80/phpmyadmin> on Windows and <http://127.0.0.1:8080/phpmyadmin> on Linux.

If you have chosen to install a sample Rails application, then installation will ask you about the application name and database password: RubyStack will create a sample Rails application with the name selected here. It will also create the corresponding databases using that name as a prefix. Finally, the password written here will be used by your new application when accessing the databases with the application name as user name.

You are now ready to begin the installation, which will start when you press 'Next'. Once the installation process has been completed, you will see the 'Installation Finished' page. At this point, you can launch a webrick server and a browser. In addition to that, a report summarizing the installation options will be shown. The report is located at the root of the installation directory and will also be accessible from a link in the Start Menu. It contains the passwords and usernames you provided during installation, so you may want to store it in an alternate location if other people are able to access that file.

If you receive an error message during installation, please refer to the Troubleshooting section.

Directory Structure

The installation process will create several subfolders under the main installation directory:

- `mysql/`: MySQL Database.
- `sqlite/`: SQLite Database.
- `ruby/`: Ruby and ruby gems files.
- `img/`: Additional image files and icons.
- `imagemagick/`: ImageMagick image processor.
- `subversion/`: Subversion files.
- `scripts/`: Script with environment vars.
- `licenses/`: Component licenses.
- `apache2/`: Apache2 files.
- `php/`: PHP files.
- `apps/phpMyAdmin/`: phpMyAdmin files.
- `nginx/`: nginx files.
- `memcached/`: Memcached files.
- `sphinx/`: Sphinx files.
- `git/`: git files.

Uninstalling BitNami RubyStack

As part of the installation, an uninstall program will be created at the installation root directory and a link placed in the Start Menu. The uninstaller will stop the currently running servers and delete any files and registry entries created during installation. The uninstaller will not delete any files or databases that were created by the end user.

Ruby on Rails

On this section we are going to assume that Rubystack has been installed at `C:\Rubystack-3.2.3-0\` on Windows, `/home/user/rubystack` on Linux or `/Applications/rubystack/projects/` on OS X and your Rails application name is `rubystack`.

This part of the tutorial has been written following a Questions and Answers model.

- **How do I start doing things with RubyStack?**

The first thing you must do is to run a Rails Environment by selecting:

```
Start -> BitNami RubyStack -> Use Ruby on Windows or  
/home/user/rubystack/rubyconsole on Linux or OS X.
```

That will open a console window with a properly setup environment where you can then issue commands.

- **How do I launch or stop MySQL and Apache services?**

BitNami ships a Manager Tool that is a simple graphical interface that can start and stop the BitNami servers that are located in the same installation directory. To start the utility, double click the file named 'manager-windows', 'manager-linux' or 'manager-osx' from your file browser.

Another option is to use the command line. On Windows, open the Rails Environment and then run the `servicerun.bat` script to start or stop the services. In order to start services you must run:

```
servicerun.bat START
```

and to stop them:

```
servicerun.bat STOP
```

Be sure you are in the main directory of the RubyStack installation (`C:\RubyStack-3.2.3-0\`). On Linux or OS X, you can start/stop Apache, MySQL and Subversion server with `ctlscript.sh`. You can type `./ctlscript.sh help` to see all options:

```
usage: ./ctlscript.sh help
```

```
./ctlscript.sh (start|stop|restart)  
./ctlscript.sh (start|stop|restart) mysql  
./ctlscript.sh (start|stop|restart) apache  
./ctlscript.sh (start|stop|restart) subversion
```

```
help - this screen  
start - start the service(s)  
stop - stop the service(s)  
restart - restart or start the service(s)
```

- **How do I launch my web application?**

Launch "Use Ruby" from the Start Menu, go to your rails application's directory and start the server. For example, if you did not change its name, the default Rails application is named `rubystack` and is located under `C:\RubyStack-3.2.3-0\projects\rubystack-3.2.3-0` on Windows and `/home/user/rubystack/projects/` on Linux or `/Applications/rubystack/projects/` on OS X,

which is also the location that the "Use Ruby" console starts at.

```
cd rubystack
ruby script/rails server
```

- **How can I access my web application?**

Ensure that you are running the application server (see "How do I launch my web application?") and then point your web browser to <http://localhost:3000/>.

- **How can I stop my web server?**

Just close the window where the server is running.

- **How can I create another rails web application?**

Run "rails" followed by the name of your desired application inside the Rails Environment:

```
rails new my_new_app
```

That will create a directory called `my_new_app` with the corresponding files inside. The next step is to create databases for that application, which is explained below.

It is possible that you can see the following error on Linux:

```
Could not find a JavaScript runtime. See https://github.com/sstephenson/execjs
for a list of available runtimes. (ExecJS::RuntimeUnavailable)
```

In this case you only have to add the `therubyracer` gem that is already included in `RubyStack` into the "Gemfile":

```
...
gem 'sqlite3'
gem 'therubyracer'
...
```

- **How can I create the corresponding databases for my new web application?**

Open a Rails Environment window and connect to the `mysql` database:

```
"C:\RubyStack-3.2.3-0\mysql\bin\mysql.exe" -u root --port=your-port-here ON
windows or /home/user/rubystack/mysql/bin/mysql -u root --port=your-port-here ON
Linux.
```

From there you can run the following.

```
CREATE DATABASE IF NOT EXISTS my_new_app_production;
CREATE DATABASE IF NOT EXISTS my_new_app_development;
CREATE DATABASE IF NOT EXISTS my_new_app_test;
GRANT ALL PRIVILEGES ON my_new_app_test.* to 'rubystack'@'localhost' identified
by 'rubystack';
GRANT ALL PRIVILEGES ON my_new_app_production.* to 'rubystack'@'localhost';
GRANT ALL PRIVILEGES ON my_new_app_development.* to 'rubystack'@'localhost';
flush privileges;
```

- **How can I configure my new Rails application to use the previously created databases?**

You need to create a file called "database.yml" inside of your web application config directory. In order to do that, open "notepad" or your preferred text editor and paste the following on Windows:

```
development:
  adapter: mysql
  database: my_new_app_development
  username: rubystack
  password: your-password-here
  host: localhost
  port: ${mysql_port}

test:
  adapter: mysql
  database: my_new_app_test
  username: rubystack
  password: your-password-here
  port: ${mysql_port}

production:
  adapter: mysql
  database: my_new_app_production
  username: rubystack
  password: your-password-here
  port: ${mysql_port}
```

Save it to "`${rails_application_dir}\config\database.yml`". On Linux and OS X you have to replace `port: ${mysql_port}` with `socket: ${installdir}/mysql/tmp/mysql.sock`

RVM

RVM is a command-line tool which allows you to easily install, manage, and work with multiple ruby environments from interpreters to sets of gems.

Managing Rubies

The main feature of RVM is its ability to manage Ruby interpreters.

- **How to list the installed Rubies**

To get the list of the currently installed Rubies you just have to execute:

```
$ rvm list
```

```
rvm rubies
```

```
# No rvm rubies installed yet. Try 'rvm help install'.
```

As the message details, if you have not yet manually installed any Ruby, the list will be empty. After installing a couple of Rubies, the output will change to the below:

```
$ rvm list

rvm rubies
ruby-1.9.1-p431 [ i386 ]
=* ruby-1.9.2-p320 [ i386 ]
# => - current
# =* - current && default
# * - default
```

- **How to select a Ruby from the list of installed versions**

If your list of available rubies is the below detailed (with 'ruby-1.9.1-p431' currently selected):

```
rvm rubies
ruby-1.9.1-p431 [ i386 ]
=* ruby-1.9.2-p320 [ i386 ]
# => - current
# =* - current && default
# * - default
```

Changing the Ruby interpreter being used is as easy as executing:

```
$ rvm use ruby-1.9.2-p320
```

To verify the result, you can execute:

```
$ rvm list
rvm rubies
* ruby-1.9.1-p431 [ i386 ]
=> ruby-1.9.2-p320 [ i386 ]
# => - current
# =* - current && default
# * - default
```

Or simply

```
$ ruby --version
ruby 1.9.2p320 (2012-04-20 revision 35421) [i386-darwin11.2.0]
```

It is also possible to use the system Ruby (the main Ruby installed with the Stack, not through RVM) by executing:

```
$ rvm use system
Now using system ruby.
```

- **How to install a new Ruby**

You can get the list of all the available Rubies by invoking:

```
$ rvm list known
```

Which will print a list such as:

```
...
# MRI Rubies
...
[ruby-]1.8.7-head
[ruby-]1.9.1[-p431]
[ruby-]1.9.2[-p320]
...
[ruby-]1.9.3-[p194]
[ruby-]1.9.3-head
ruby-head
```

To install a new Ruby from the list, for example 'ruby-1.9.1-p431', you just have to execute:

```
$ rvm install ruby-1.9.1-p431
```

RVM will take care of downloading, unpacking and compiling the requested Ruby

- **How to uninstall an existing Ruby**

You can uninstall an existing RVM-managed ruby by executing:

```
$ rvm uninstall ruby-1.9.1-p431
```

Managing Gem sets

RVM allows you to define multiple groups of gems (gemsets) for your RVM-managed Rubies. This is specially useful in those applications not managed using Bundler

- **How to list the available gem sets for a given ruby**

After selecting an installed ruby using:

```
$ rvm use 1.9.3
```

You can get the list of defined gem sets by executing:

```
$ rvm gemset list
```

```
gemsets for ruby-1.9.3-p194 (found in /opt/rubystack-3.2.3-0/rvm/gems/ruby-1.9.3-
p194)
global
project-sample
```

In the example, two gemsets are available, global (the default gemset will the gems that are available to all other gemsets) and "project-sample", a custom gemset create for our 'sample' project.

- **How to select a gemset for a given ruby**

After selecting the desired Ruby and listing the available gemsets, you can use an specific set of gems through the 'use' subcommand: `$ rvm gemset list`

```
gemsets for ruby-1.9.3-p194 (found in /opt/rubystack-3.2.3-0/rvm/gems/ruby-1.9.3-
```

```
p194)
global
project-sample
```

```
$ rvm gemset use project-sample
```

- **How to create a gemset**

New gemsets are created using the 'create' subcommand. Please take into account that you must select the desired Ruby to create the gemset for before creating it: `$ rvm use 1.9.3`

```
$ rvm gemset create my_new_gemset
```

- **How to share gems between all the gem sets**

RVM defines a 'global' gemset which is shared among all the gem sets for an specific installed Ruby version. To install a shared gem, you just have to execute:

```
$ rvm gemset use global
```

```
$ gem install rails
```

```
$ rvm gemset use my_new_gemset
```

```
$ gem list rails
```

DEPLOY RUBY ON RAILS APPLICATION ON THE STACK.

Using Apache with Thin

This approach consists on having multiple Thin processes running in different ports. Once they are running, Apache will be set up as a proxy balancer, sending the Rails requests to those ports. It is based in Thin parser, Event Machine and Rack. You can learn more about it at <http://code.macournoyer.com/thin>.

In Linux and OS X, you can store the configuration in a yml file and use it to start and stop the group easily. For example:

```
cd ${rails_application_dir}
thin -s 5 -p 3000 -e production --prefix /appname -C config/thin.yml config
```

Which will configure 5 processes in ports 3000 to 3004, running in a production environment and using prefix /appname. Once the configuration file has been generated, you can start, stop or restart the by running:

```
thin -C ${rails_application_dir}/config/thin.yml start/stop/restart
```

If you are using RubyStack on Windows, you can't start multiple servers using '-s' option. You will need to call a command for each instance:

```
cd ${rails_application_dir} thin -p 3000 -e production --prefix /appname start thin -p 3001 -e production --prefix /appname start ...
```

Regarding Apache, you may include the following lines to apache2/conf/httpd.conf:

```
ProxyPass /appname balancer://appcluster
ProxyPassReverse /appname balancer://appcluster
```

```
<Proxy balancer://appcluster>
  BalancerMember http://127.0.0.1:3001/appname
  BalancerMember http://127.0.0.1:3002/appname
  ...
</Proxy>
```

That way, each time a Rails request is received it will be sent to the thin servers running in ports 3001, 3002..

After restarting Apache the application should be accessible at <http://domain:port/appname>.

Using Apache with Passenger

To use this method, you just need to include a virtual host which DocumentRoot points to 'public' directory in Rails application.

```
<VirtualHost *:80>
ServerName myapplication.com
DocumentRoot ${rails_app_dir}/public
<Directory ${rails_app_dir}/public>
Allow from all
Options -MultiViews
</Directory>
</VirtualHost>
```

You should make sure that the 'public' and 'config' application folders and their parent directories are readable and executable by Apache. After restarting Apache you can access to your application.

It is also possible to deploy a set of applications to different sub URIs. In order to do so, create a root directory which contains links to each of the application's public paths. For example, you can do something like:

```
mkdir ${installdir}/webapps
ln -s ${installdir}/app/railsapp1/public ${installdir}/webapps/railsapp1
ln -s ${installdir}/app/railsapp2/public ${installdir}/webapps/railsapp2
...
```

Once the links are created, configure Apache using a RailsBaseURI entry for each application to be deployed:

```
<VirtualHost *:80>
ServerName myapplication.com
DocumentRoot ${installdir}/webapps
<Directory ${installdir}/webapps>
Allow from all
Options -MultiViews
</Directory>

RailsBaseURI /railsapp1
RailsBaseURI /railsapp2
...
</VirtualHost>
```

After restarting Apache, the applications will be accessible at:

```
http://<domain>:<port>/railsapp1/
http://<domain>:<port>/railsapp2/
...
```

Using Nginx with Passenger

Nginx has been compiled with Phusion Passenger module in Linux and OS X systems. You can use this module to easily deploy a Rails application.

In order to do so, you should include the options "passenger_enabled" and specify the root path and rails environment. You can do this with a new file in nginx/conf/vhosts/apname.conf containing:

```
server {
    ...
    root ${rails_appdir}/public; # Path to rails application public dir
    passenger_enabled on;
    rails_env production;
    ...
}
```

In this case, it is not necessary to start additional processes apart from Nginx. After restarting Nginx, the application will be accessible at `http://domain:nginx_port/`.

It is also possible to deploy a set of applications to different sub URIs. If you want to use this approach, you should create symbolic links to each application public directory, inside a root path.

```
ln -s /path/to/rails_app/public /websites/phusion/railsapp
ln -s /path/to/rails_app2/public /websites/phusion/railsapp2
```

Then, include a `passenger_base_uri` option for each of them inside the server element:

```
server {
    ...
    root /websites/phusion;
    passenger_enabled on;
    passenger_base_uri /railsapp;
    passenger_base_uri /railsapp2;
    ...
}
```

After restarting Nginx, the applications will be accessible at `http://localhost:nginx_port/railsapp/`, `http://localhost:nginx_port/railsapp2/ ..`

You can find more information about Phusion Passenger settings at <http://www.modrails.com/documentation.html>.

CREATING THE FIRST REPOSITORY WITH GIT.

Git is an open source version control system designed to handle very large projects with speed and efficiency.

- At first, **we need to run the rubyconsole:**

```
cd ~/rubystack-3.2.3-0
./rubyconsole
```

- The second step will be to **create a new empty repository**, we need to type the following:
git init

And this will create an empty repository called .git.

Now we can use this repository adding new files and committing them. For example:

```
echo "Git working over BitNami RubyStack" > test.txt
git add test.txt
git commit test.txt -m "Initial upload"
```

- The last step will be to do a **checkout for a external repository:**
git clone git://git.kernel.org/pub/scm/git/git.git

PHP

This section describes how to test your PHP installation. You can find the PHP technical documentation at <http://www.php.net/manual/en/index.php>

Testing Your Installation

The easiest way to test your PHP installation is to create a test script using the `phpinfo()` function. Open your favorite text editor and type:

```
<?php phpinfo(); ?>
```

Save the file as `phptest.php` in `C:\RubyStack-3.2.3-0\apache2\htdocs\` on Windows or `/home/user/rubystack-3.2.3-0/apache2\htdocs` on Linux or `/Applications/rubystack-3.2.3-0/apache2\htdocs/`. Make sure Apache is up and running, open a browser and type `http://127.0.0.1:8080/phptest.php`. You should then see a screen showing detailed information about the PHP version you are using.

phpMyAdmin

This sections describes how to access your phpMyAdmin installation. You can find more information about phpMyAdmin in http://www.phpmyadmin.net/home_page/docs.php

phpMyAdmin is an easy to use management tool for MySQL that allows you to create and drop databases, create, drop and modify tables, delete, edit and add fields, execute SQL statements, manage keys on fields, manage privileges and export data in various formats through a web-based interface.

Access to phpMyAdmin

To test your phpMyAdmin installation first make sure that your Apache and MySQL servers are up and running. You can access your phpMyAdmin installation by opening a browser and typing `http://127.0.0.1:8080/phpmyadmin`. You will then asked for a username and password. As user name, use **"root"** and as password use the value specified during installation.

Initially only requests from 127.0.0.1 will be allowed access to that section. You can change this behavior editing the Apache main configuration file located at `C:\RubyStack-3.2.3-0\apache2\conf\httpd.conf` on Windows or `/home/user/rubystack-3.2.3-0/apache2/conf/httpd.conf` on Linux or `/Applications/rubystack-3.2.3-0/apache2/conf/httpd.conf` on oS X.

Troubleshooting

This section describes some of the most common problems you may find when installing BitNami RubyStack.

Installer

Installer Payload Error

You may get the following error while trying to run the installer from the command line:

```
Installer payload initialization failed. This is likely due to an incomplete or corrupt downloaded file.
```

The installer binary is not complete, likely because the file was not downloaded correctly. You will need to download the file and repeat the installation process.

Installation does not complete and hangs at the end forever.

You are probably overwriting a previous RubyStack installation and therefore a previous MySQL with a different MySQL root password. Remove or move your previous RubyStack installation and try to install RubyStack again.

MySQL

If you encounter any problems starting MySQL, the first place to look in is the "Problems and Common Errors" section of the MySQL manual, which you will find at <http://dev.mysql.com/doc/>

The following are some common problems:

Access denied when trying to connect to MySQL.

If you get an `Access Denied` message while trying to connect to MySQL, make sure you are using the correct username and password.

"Can't connect to server" message.

Make sure the MySQL daemon is up and running.

Apache

If you find any problem starting Apache, the first place you should look at is the error log file that will be created at `C:\RubyStack-3.2.3-0\apache2\logs\error_log` on Windows or `/home/user/rubystack-3.2.3-0/apache2/logs/error_log` on Linux or `/Applications/rubystack-3.2.3-0/apache2/logs/error_log` on OS X. There you will likely find useful information to determine what the problem may be. For issues not covered in this Quick Start guide, please refer to the Apache documentation included as part of the installation, which is located at `apache2/htdocs/manual`.

Test page is not working

If the server seems to start correctly (i.e. you can see the `./apachectl start: httpd started` message) but you cannot see the test page when you type `http://127.0.0.1:80/` on Windows or `http://127.0.0.1:8080/` on Linux in your browser, it may be that there is already a server running in that port.