

Installing on FreeBSD

Contents

1. [Installing From Binary Package](#)
2. [Installing From Source](#)
3. [Next Steps?](#)
4. [References](#)

You can install Riak on FreeBSD for the AMD64 architecture with a binary package or by building from source code.



Installing From Binary Package

Note

The Riak 1.2 binary package is supported on FreeBSD version 9. Users have reported success building Riak from source on a number of FreeBSD versions, however.

Installing Riak from a binary package is the simplest method with least required dependencies, and requires less time to complete than building from source.

Prerequisites and Dependencies

Riak depends on `sudo` to be installed if the Riak command line tools are to be executed by users other than the *riak* user. Please ensure that `sudo` is installed via packages or the ports collection prior to installing the Riak package.

The Riak binary package also depends on a packaged version of OpenSSL. Prior to installing Riak 1.2 on FreeBSD 9, you'll need to install `openssl-1.0.0_7` either from package or the ports collection.

Installation

You can install the Riak binary package on FreeBSD remotely using the `pkg_add` remote option. For this example, we're installing `riak-1.4.8-FreeBSD-amd64.tbz`.

Shell

```
sudo pkg_add -r http://s3.amazonaws.com/downloads.basho.com/riak-1.4.8-FreeBSD-amd64.tbz
```

When Riak is installed, a message is displayed with information about the installation and available documentation.

Shell

```
Thank you for installing Riak.
```

```
Riak has been installed in /usr/local owned by user:group ri
```

```
The primary directories are:
```

```
{platform_bin_dir, "/usr/local/sbin"}
{platform_data_dir, "/var/db/riak"}
{platform_etc_dir, "/usr/local/etc/riak"}
{platform_lib_dir, "/usr/local/lib/riak"}
{platform_log_dir, "/var/log/riak"}
```

```
These can be configured and changed in the platform_etc_dir/
```

```
Add /usr/local/sbin to your path to run the riak, riak-admin
scripts directly.
```

```
Man pages are available for riak(1), riak-admin(1), and sear
```

If instead of this message, you receive an error during installation regarding OpenSSL, similar to this one:

Shell

```
Package dependency openssl-1.0.0_7 for /tmp/riak-1.4.8-FreeB
```

Be sure that you've installed the required OpenSSL version from packages or the ports collection as described in the **Prerequisites and Dependencies** section.

Installing From Source

Installing Riak from source on FreeBSD is a straightforward process which requires installation of more dependencies (such as Erlang) prior to building, and requires more time than a binary package installation.

That said, installing from source provides for greater flexibility with respect to configuration, data root locations, and more fine grained control over specific dependency versions.

Prerequisites and Dependencies

When building and installing Riak from source, you might be required to install some prerequisite software before proceeding with the build.

If you do not currently have the following software installed, please install it with packages or the ports collection before proceeding.

- Erlang (Can also be installed via Kerl as described in [Installing Erlang](#)).
- Curl
- Git
- OpenSSL (version 1.0.0_7)

- Python
- sudo

Installation

First download the version you wish to install from [Basho downloads](#).

Next, unpack and build a release from source:

Shell

```
tar xzf <riak-x.x.x>
cd riak-x.x.x
gmake rel
```

Upon conclusion of the build, the `rel/riak` directory will contain a full Riak node environment, including configuration, data, and log directories:

Shell

```
bin                # Riak binaries
data               # Riak data and metadata
erts-5.9.2         # Erlang Run-Time System
etc                # Riak Configuration
lib                # Third party libraries
log                # Operational logs
releases           # Release information
```

If you'd prefer to build a development environment consisting of 4 nodes which can be run as a cluster on one machine, specify the `devrel` target instead of the `rel` target, like this:

Shell




```
gmake devrel
```

Next Steps?

From here you might want to check out:

- [Post Installation Notes](#): for checking Riak health after installation
- [Five Minute Install](#): a guide for setting up a 5 node cluster and exploring Riak's main features.
- [Basic Configuration](#): a guide that will show you how to go from one node to bigger than Google!

References

- [Basho Downloads](#) 
- [Installing and Upgrading](#)
- [Installing Erlang](#)
- [Using the FreeBSD Package System](#) 
- [Using the FreeBSD Ports Collection](#) 

Tutorial Nav: [Installing and Upgrading](#)

[Installing on Mac OS X](#)[Installing on SmartOS](#)

These May Also Interest You

- [Installing on AWS Marketplace](#)
- [Installing on Windows Azure](#)
- [Installing on Debian and Ubuntu](#)
- [Installing Erlang](#)

- Installing Riak from Source
- Installing and Upgrading