



- [Site Map](#)
- [Topic Index](#)

[Home](#)[Install](#)[Migrate](#)[Start](#)[Authoring](#)[Stream](#)[SQL](#)[Test/Debug](#)[Adapters](#)[API](#)[Admin](#)[Samples](#)[Studio](#)[Reference](#)

Current Location: [Home](#) > [Installation Guide](#) > Installing StreamBase on Linux

Installing StreamBase on Linux

Before You Install

Before you install StreamBase, use this checklist to make sure each target node matches the prerequisites:

- The target node's resources (CPU, RAM, disk capacity) must meet or exceed the minimum values described on the [Supported Configurations](#) page.
- If you plan to install the StreamBase kit into a directory that requires root access, such as `/opt` or `/usr/local`, you must have access to the root account on the target node. (You can install StreamBase into another area, such as a home directory, and will not need root access.)
- The target node must be running a supported Linux release with the latest updates, as listed in [Supported Configurations](#).
- To run StreamBase applications, you must have a Sun JDK installed. StreamBase kits for all platforms include the runtime components of a JDK for private use by StreamBase Studio and StreamBase Server. To use an external JDK instead, follow the steps in [Using an External JDK](#).
- If your StreamBase applications will access external database tables via the StreamBase Adapter for JDBC, you must have installed, or have network access to, a database product as listed in [Supported Configurations](#).

Important

StreamBase Systems does not support the use of multiple StreamBase releases on the same machine. The `rpm -Uvh` command shown in these instructions automatically performs an upgrade from any previous version of StreamBase to the current release. That is, any previous release in your installation directory (by default, `/opt/streambase`) is **replaced** by the new installation. However, if you elect to install StreamBase from the `streambase-*.tar.gz` file, you must first uninstall the existing StreamBase version, as described in [Uninstalling StreamBase on Linux](#).

Back Up Existing StreamBase Workspaces and Configuration

If you used previous releases of StreamBase on the target machine, create backup copies of your existing StreamBase workspace and configuration directories, **before using StreamBase Studio** in the current release. Your StreamBase workspace and configuration directories include your projects, which in turn contain your EventFlow applications and associated files for each project. When you create the backup file, have its

Installing StreamBase on Linux

filename indicate the StreamBase release number (such as 3.5.7) those projects used; for example, `mySBWorkspace_3-5-7.tar`.

The 3.x workspace and configuration directories are in the following default locations:

```
~/streambase-workspace/  
~/.streambase/sbstudio-configuration/
```

The 5.x and 6.x workspace and configuration directories are in the following default locations:

```
~/streambase-studio-n.m-workspace  
~/.streambase/streambase-studio-n.m-configuration
```

Installing from the RPMs or the Single Tarball

The StreamBase kit for Linux is packaged in two ways:

- As a set of Red Hat Package Manager (RPM) files., which can be installed with a command such as:

```
rpm -Uvh streambase-*.rpm
```

- Or as a single tarball, which can be installed with a command such as:

```
tar -xzf streambase-*.tar.gz
```

1. Log into the root account if you plan to install StreamBase into a privileged area such as `/opt` or `/usr/local`.
2. Insert the StreamBase product CD or download the kit. For CD installations, if automount is not enabled, mount the CD. For example:

```
mount /mnt/cdrom
```

On the product CD and in the FTP download site's directories, the kit's RPM files are in the `./rpms` directory. The kit's single `*.tar.gz` file is in the `./tarfiles` directory.

Download Kit Options. Instead of the product CD, you may have downloaded the StreamBase kit from an FTP URL given to you by a StreamBase Systems representative. Or you may have downloaded the StreamBase Developer Edition kit from the [Developer Zone](#). Note that on the DevZone, the download file for Linux users is a self-extracting `.bin` file that contains the StreamBase installation tarfile. Please remember the location of the downloaded files.

Installing StreamBase from the RPMs

StreamBase is packaged in multiple RPMs. In the following list, *RRR* refers to the release number, *DDD* refers to a date string that reflects the date and time when the installation CD was built, and *PPPP* refers to the processor type (such as `i586` or `x86_64`).

`streambase-client-RRR-DDD.PPPP.rpm`

Installs the StreamBase client utilities (`sbc`, `sbfeedsim`, and so on).

`streambase-studio-RRR-DDD.PPPP.rpm`

Installs StreamBase Studio.

`streambase-server-RRR-DDD.PPPP.rpm`

Installing StreamBase on Linux

Installs StreamBase Server.

`streambase-devel-RRR-DDD.PPPP.rpm`

Installs tools and APIs that let you write clients and custom functions.

`streambase-docs-RRR-DDD.PPPP.rpm`

Installs the StreamBase documentation. (The installation CD contains a copy of the documentation in the `doc` directory, so that you can read the [StreamBase Release Notes](#), the [Supported Configurations](#) topic, and *Installation Guide* before starting the installation.)

The `streambase-server` and `streambase-devel` packages require the `streambase-client` to be installed. Other than these requirements, you can install any combination of RPMs.

To install the StreamBase RPMs, use the `rpm -Uvh filename.rpm` command. For example:

```
cd /mnt/cdrom/rpms/streambase
rpm -Uvh streambase-*.rpm
```

By default, the RPMs install the StreamBase software into `/opt/streambase`. To change the installation directory, use the `relocate` option.

For example:

```
rpm -Uvh --relocate /opt/streambase=/usr/local/streambase streambase-*.rpm
```

Note

If you use the `relocate` option, make sure that the new installed directory's `bin` subdirectory is in your `PATH`.

As with most RPMs, certain applications and libraries are also installed into `/usr/bin`, `/usr/lib`, and `/usr/share/man`.

Installing StreamBase from the Single Tarfile

Note

If you downloaded the StreamBase for Linux kit from the [Developer Zone](#), the following step assumes that you have already run the StreamBase `bin` script to extract the installation tar file.

To install StreamBase from the single tar file, enter commands like the following. This example assumes that a downloaded StreamBase kit temporarily resides in a `/home/sbuser/kits` directory. If you are using the product CD, instead specify the mounted CD's path plus the `streambase-*.tar.gz` filename.

```
cd /opt
tar -xzf /home/sbuser/kits/streambase-*.tar.gz
```

Or if you want to install the files in a non-privileged area, such as one of your `/home` directories, enter commands like the following. In this example, we are installing from the kit on the mounted product CD:

```
mkdir /home/sbuser/streambase
cd /home/sbuser/streambase
tar -xzf /mnt/cdrom/tarfiles/streambase-*.tar.gz
```

Important

After installing StreamBase from the tar file, run the following command, to set up the environment:

```
eval `streambase-install-dir/bin/sb-config --env`
```

This command sets the `STREAMBASE_HOME` environment variable and modifies the `PATH`, `LD_LIBRARY_PATH`, and `MANPATH` environment variables, for the current shell. Note the use of the backquote character (```) in the preceding example; it is not a single quote character.

Installing StreamBase Server RPMs Only

To install only the StreamBase Server RPM and its dependencies, use commands like the following to install the minimum set of RPMs.

```
cd /mnt/cdrom/rpms/streambase
rpm -Uvh streambase-server-*.rpm streambase-client-*.rpm
```

To develop StreamBase clients or custom functions on the production machine, install the `streambase-devel` and `streambase-docs` RPMs (only excluding the `streambase-studio` RPM). For example:

```
cd /mnt/cdrom/rpms/streambase
rpm -Uvh streambase-server-*.rpm streambase-client-*.rpm
streambase-devel-*.rpm streambase-docs-*.rpm
```

Post-Installation: Licensing

Configure the StreamBase license as described in the [Configuring a StreamBase License](#) topic.

Initial Configuration on a Single Machine

To support StreamBase Studio users on Windows or Linux client machines connecting to the remote Linux machine where StreamBase Server is installed, your Linux host must have an SSH daemon running with TCP port forwarding enabled, and password authentication enabled. To enable TCP port forwarding, ensure that your `/etc/ssh/sshd_config` file **does not** contain the following lines:

```
AllowTcpForwarding No
PasswordAuthentication No
```

If you update the `sshd_config`, remember to restart your SSH daemon before the StreamBase Studio users start their sessions.

Note

Remote users who connect from StreamBase Studio to your host must also have valid UNIX accounts on the machine where you install StreamBase Server. Remote users connecting StreamBase Studio from their Windows or Linux machine must provide valid username and password credentials to connect to your server.

Scripts and Configuration Files Installed

The following scripts and files were installed as part of the `streambase-server` RPM:

- Initialization scripts in the `/etc/init.d` directory:

`streambase`

- Configuration files in `streambase_install_dir/etc`:

`sbd.sbconf`

The StreamBase scripts in `/etc/init.d` point to the configuration files, as follows:

This start script...	Points to this configuration file...
<code>/etc/init.d/streambase</code>	<code>streambase_install_dir/etc/sbd.sbconf</code>
<i>streambase_install_dir</i> is the StreamBase installation directory (/opt/streambase by default).	

Enter the following command if you want the StreamBase Server to run when the Linux system boots:

```
chkconfig --add streambase
```

You can also run the **streambase** script at any time to start StreamBase, without having to reboot.

By default, StreamBase uses skeleton configuration files. To customize the configuration files for use with one of your applications, use the `-s` flag as shown in the next set of example, and pipe the output to a file. For example:

```
sbd -s > ~/myapps/sbd.sbconf
```

For details about the StreamBase configuration file, see [StreamBase Server Configuration XML](#).

Later in the development cycle, when you are ready to **deploy** the application to a staging server, the recommended location for the `.sbapp` application file is:

```
streambase_install_dir/var/applications
```

For example, `/opt/streambase/var/applications`

Web Browser Requirement

On Linux, the StreamBase Studio Welcome page and Help require that a browser such as Firefox is installed and can be located. If you removed Mozilla or Firefox, or installed it in a non-standard location, the Welcome page or Help may not appear. A workaround is available: set the environment variable `MOZILLA_FIVE_HOME` to the path of your Mozilla or Firefox installation, like this example:

```
MOZILLA_FIVE_HOME=/usr/lib/firefox-2.0.0.14
```

Uninstalling StreamBase on Linux

Before uninstalling, keep a version-specific backup copy of your StreamBase Studio workspace. When you move from one StreamBase release to the next release, StreamBase Studio may automatically upgrade the XML representation of your applications. If you develop applications and then decide to downgrade to a previously used release, the older StreamBase Studio may not recognize some of the settings. If you must use an older StreamBase release, you may need to delete the existing Studio workspace and configuration directories, and either start over with new projects in StreamBase Studio, or restore your matching version-specific backup copies.

To uninstall StreamBase on Linux, follow these steps:

1. Log into the `root` account, if you installed the product in an area that requires `root` access, such as `/opt/streambase`.
2. Confirm that the StreamBase Server (**sbd**) is not running on this machine:

```
ps -A | grep sbd
```

If the StreamBase Server is running, confirm that the server can be shut down without disrupting StreamBase users or applications. At the appropriate time, enter the **sbadmin shutdown** command.

3. Enter these commands to remove the StreamBase packages:

```
rpm -e streambase-client streambase-studio streambase-server streambase-devel streambase-d
```

4. Delete any StreamBase startup configuration, if you previously added it:

```
chkconfig --del streambase
```

Related Topics

- [Supported Configurations](#)
- [Comparison of StreamBase Editions](#)
- [Installing StreamBase on Windows](#)
- [Installing StreamBase on Solaris](#)
- [StreamBase Release Notes](#)

[Back to Top](#) ^

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