

# Installation

## About

This page describes FreeSWITCH™ numbering conventions, basic download instructions, and directions to useful installation pages.

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## Conventions

The FreeSWITCH™ numbering format is "version.release.maintenance". The release numbering convention is even numbers for current public releases and odd numbers for development branches.

## Selecting a Version

The primary FreeSWITCH™ releases are: **Current public release**, recommended for production systems. **Current branch**, contains in-test fixes since the current public release, intended as the next maintenance release. **Master development**, containing the latest fixes and features, intended as the next major release.



### A Note About Bugs and Issues

If you find bugs or issues with the current public release, they must be tested using the *latest* Master because it's possible the problem was fixed. Also, the developers require all bugs to be tested using the *latest* Master before considering any bug reports.

If the bug persists in Master, then you *must* file an issue on GitHub: <https://github.com/signalwire/freeswitch/issues>



If you're using FreeSWITCH™ version 1.8 which is tagged **End Of Life**, you should upgrade to 1.10 NOW.

## Download Current Public Release

The current public version/release of FreeSWITCH™ **recommended for production systems is 1.10**, created 5 August, 2019 followed by maintenance levels. The current release of sounds and prompts is 1.0.52 as of 19 August, 2016.

The latest maintenance level of the current public release of FreeSWITCH™ can be downloaded from [freeswitch-files](#) via a browser. For linux, it's easier to copy/paste the command line below. This single long line performs: 1- Determines the latest public release available. 2- Downloads the compressed source file. 3- Decompresses the file into a folder in the current directory. 4- Renames the folder to **freeswitch**. If you don't want the folder renamed, remove the last && to the end of the line.

```
FSfile=$(curl -s https://files.freeswitch.org/releases/freeswitch/ | grep -oE "freeswitch-[0-9]*\.[0-9]*\.[0-9]*\.-release\.tar\.bz2" | tail -n 1) && echo Downloading $FSfile && curl https://files.freeswitch.org/freeswitch-releases/$FSfile | tar -xj && mv ${FSfile/.tar.bz2//} freeswitch
```

## Download Current Branch

The **current branch** contains fixes going into the **next maintenance level for the release**. Download the current branch using the -b argument followed by 'v' concatenated with the release number. The git command creates the **freeswitch** directory and downloads the FreeSWITCH™ source files, replace # with the release number.

```
git clone -b v1.# https://github.com/signalwire/freeswitch.git
```

## Download Master Development

The **master development** release contains the latest fixes and features going into the **next release**. Download the latest master release using the "git clone" command below which creates the **freeswitch** directory and downloads the FreeSWITCH™ master development source files.

```
git clone https://github.com/signalwire/freeswitch.git
```

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## SignalWire STACK



**SignalWire STACK** is a supported version of FreeSWITCH that comes with expert engineering services

SignalWire also offers Cloud Hosted resources including low-cost PSTN and SMS services for your FreeSWITCH Installation.

Using `mod_signalwire` in your FreeSWITCH server, and a SignalWire cloud account, you can connect to SignalWire to terminate SIP calls with no configuration.

Full details available by calling **877.742.2583** or by visiting [freeswitch.com](http://freeswitch.com) or [signalwire.com](http://signalwire.com)



If you're new to FreeSWITCH™ consider purchasing the [Mastering FreeSWITCH™ book](#) and be sure to read this introductory article: <http://www.linuxpromagazine.com/Issues/2009/106/TALK-SOFT>.

## Installation Methods

## Pre-Built Binaries

The easiest way to get FreeSWITCH™ is to install a pre-built package for your operating system, available for some [Linux and Unix](#) distributions and [Windows](#).

### Debian 10 Package (FreeSWITCH 1.10)

[Debian 10 Buster](#) (preferred) The development team uses and builds against Debian 10 "Buster". They recommend Debian because of its stable, yet updated, kernel and wide support.

### Centos 7 Package (FreeSWITCH 1.10)

[CentOS 7](#) and [RHEL 7](#)

## Windows

[Freeswitch Installer .msi](#)

The binary MSI installer is built each weekend from Git head, includes default modules and 8KHz sounds, and is available for both x86 (32-bit) and x64 (64-bit).

## Compiling Source Code

FreeSWITCH™ is available for source compilation on Unix , Linux, macOS, and Windows for the following reasons:

- Pre-built binaries are not available
- You want to see the entire process
- You want to build the Master Development version because you require the very latest features or patches, or wish to hack FreeSWITCH

### Debian 10 Buster Source

FreeSWITCH™ 1.10 depends on a number of libraries included with Debian 10, which is now the distribution of choice for FS core development team. Follow the instructions on the [Debian 10 Buster](#) page; refer to [Debian Post-Install Tasks](#) for finishing touches.

## macOS

There is an [installer](#) and comprehensive [macOS](#) guide containing instructions for setting up FreeSwitch™ on a Mac with features such as autostart, emailing voicemails and log management.

## OpenBSD

Special notes for building from source on OpenBSD.

## Smartos

Recently updated installation guide for [SmartOS](#)

## Updating Binaries



### Config Changes

In version 1.4 the names of a number of configuration settings were changed, so you can not simply use old config files on your new FreeSWITCH™ binaries.

Settings of the form sip\*\_media have become rtp\*\_media because they properly control RTP media streams, SIP has nothing to do with them.

For example, sip\_secure\_media is now called rtp\_secure\_media

## Deprecated Instructions

### Deprecated Packages

FreeSWITCH™ is developed on Debian 8 "Jessie" which is the much preferred platform. These instructions for older operating systems are maintained as a courtesy, but are unlikely to work without a great deal of effort.

### Debian 7 Package (FreeSWITCH 1.4)

[Debian Wheezy Package](#)

### CentOS 6 Package

```
rpm -Uvh http://files.freeswitch.org/freeswitch-  
release-1-0.noarch.rpm
```

```
yum install freeswitch-config-vanilla
```

```
yum install sox freeswitch-sounds*
```

Enjoy FreeSWITCH!

## Deprecated Compiling From Source Code

These deprecated instructions are FreeSWITCH you may compile from source code. FreeSWITCH™ is available for source compilation on Unix and Linux distributions as well as Windows.

### Debian 7 Source

[Makefile](#) that builds FreeSWITCH™ including libraries and build dependencies.

### CentOS 6 Source

[Makefile](#) that builds FreeSWITCH™ including libraries and build dependencies.

### Unix Variants

- [DragonFlyBSD](#)
- [FreeBSD](#)
- [NetBSD](#)
- [OpenBSD](#)
- [Solaris](#)

### Mac OS X

Instructions for non-supported OS X systems can be found at [Mac OS X Archive](#).

### Windows

[Compile with Visual Studio](#).