3.30.2 3.28.6 LTR

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QGIS Installers

How to obtain QGIS?

QGIS is available on Windows, macOS, Linux, Android and iOS.

We recommend installing the packages of the released software.

To evaluate the upcoming release and to allow non-developers to support development we also provide testing packages (note the warning).

In the feature frozen phase preceding a release (see Release schedule (../getinvolved/development /roadmap.html#qgis-release-schedule)) these packages are effectively **pre-releases**, **which we strongly urge users to test**.

Windows

There are two options for installations on Windows:

Standalone installers

For beginners the easiest way is using the standalone installers:

Release	Version	Package
Latest Release	3.30.2 's-Hertogenbosch	Installer (https://qgis.org/downloads/QGIS-OSGeo4W-3.30.2-1.msi) Checksum (https://qgis.org/downloads/QGIS-OSGeo4W-3.30.2-1.sha256sum)
Long Term Release	3.28.6 Firenze LTR	Installer (https://qgis.org/downloads/QGIS-OSGeo4W-3.28.6-1.msi) Checksum (https://qgis.org/downloads/QGIS-OSGeo4W-3.28.6-1.sha256sum)
Development	3.31 master	Weekly snapshots (https://download.osgeo.org/qgis/windows/weekly/?C=M&O=D)

See also The main installers page (./download.html) .

The weekly snapshots of the nightly qgis-dev package of OSGeo4W are for users that cannot use OSGeo4W (see below) for some reason or just prefer standalone installers. In the feature freeze phase that also acts as **release** candidate.

OSGeo4W installer

More advanced QGIS users should use OSGeo4W packages, which for one make it possible to install several versions in parallel and also to do much more efficient updates as only changed components are downloaded and installed.

The OSGeo4W repository contains a lot of software from OSGeo projects. QGIS and all dependencies are included, along with Python, GRASS, GDAL, etc. The installer is able to install from internet or just download all needed packages beforehand. The downloaded files are kept in a local directory for future installations and could also be used to install offline.

Steps are:

- Download OSGeo4W Installer (https://download.osgeo.org/osgeo4w/v2/osgeo4w-setup.exe) and start it
- Choose Express Install and select QGIS to install the latest release and/or QGIS LTR to install the long term release.

Alternatively to *Express* you also use the *Advanced Install*, navigate to the *Desktop* section and pick one or more of the following packages:

Release	Version	Package	Description
Latest Release	3.30.2 's- Hertogenbosch	qgis	Release
		qgis-rel-dev [1	Nightly build of the upcoming point release
Long Term Release	3.28.6 Firenze LTR	qgis-ltr	Release
		qgis-ltr-dev [1	Nightly build of the upcoming long term point release
Development	3.31 master	qgis-dev [1	Nightly build of the development version

1(1,2,3) Nightlies are debug builds (including debugging output)

The packages listed in the table only install the necessary packages to run QGIS. Corresponding to those packages there are also meta packages with the postfix <code>-full-free</code> and <code>-full</code>. The former contains additional optional dependencies that some popular - not included - plugins use and the latter include the former and also add proprietary extensions like Oracle, ECW and MrSID.

The Express installs reference the corresponding -full variant and the standalone installers are also made from these OSGeo4W package sets.

Before installing any of the nightly builds note the warning.

Linux

Most linux distributions split QGIS into several packages; you'll probably need qgis and qgis-python (to run plugins). Packages like qgis-grass (or qgis-plugin-grass), qgis-server can be skipped initially, or installed only when you need them.

Below you find instructions to install per distribution. For most distro's there are instructions to install QGIS

stable and instructions to install a cutting edge QGIS testing build (note the warning).

Debian/Ubuntu

Quickstart

Note

In the section following this one, you will find ALL possible options to install different versions of QGIS in different versions of Debian/Ubuntu. If you have problems, verify there whether your distribution is still supported as the repositories also contain older **unsupported** distributions with the last QGIS version that was supported. Beware that those might have meanwhile ceased to work.

Here you will simply install the latest stable QGIS (3.30.x 's-Hertogenbosch) in your Debian or Ubuntu without having to edit config files.

Note

Although you see 'Debian' in some places, this also works for 'Ubuntu', as one is actually a symlink to the other on our server.

First install some tools you will need for this instructions:

sudo apt install gnupg software-properties-common

Now install the QGIS Signing Key, so QGIS software from the QGIS repo will be trusted and installed:

sudo mkdir -m755 -p /etc/apt/keyrings # not needed since apt version 2.4.0 like Debian 12 and Ubuntu 22 or ne
wer
sudo wget -0 /etc/apt/keyrings/qgis-archive-keyring.gpg https://download.qgis.org/downloads/qgis-archive-keyring.gpg

Add the QGIS repo for the latest stable QGIS (3.30.x 's-Hertogenbosch) to /etc/apt/sources.list.d/qgis.sources:

Types: deb deb-src

URIs: https://qgis.org/debian Suites: your-distributions-codename

Architectures: amd64 Components: main

Signed-By: /etc/apt/keyrings/qgis-archive-keyring.gpg

Note

Suites in above lines depends on your distribution. lsb_release -cs will show your distribution name.

In some distributions (like Linux Mint), . /etc/os-release; echo "\$UBUNTU_CODENAME" will show the correct distibution name.

See Available codenames.

Update your repository information to reflect also the just added QGIS one:

sudo apt update

Now, install QGIS:

sudo apt install qgis qgis-plugin-grass

Note

Add qgis-server to this line if you also want to install QGIS Server

Repositories

Default Debian and Ubuntu software repositories often hold older versions of QGIS.

To have newer versions, you have to add alternative software repositories, by adding one of the deb-lines below to your /etc/apt/sources.list.d/qgis.sources file.

Our main repository contains multiple lines of packages for several versions of **Debian and Ubuntu** based on the dependencies the individual distributions provide.

For Ubuntu we also used to have extra packages in a separate repository that are based on ubuntugis (https://launchpad.net/~ubuntugis) , which held more uptodate versions of other GIS packages than Ubuntu itself for LTS versions. If you want those you also need to include ubuntugis-unstable ppa in your /etc/apt /sources.list.d/qgis.list file (see ubuntugis documentation (https://trac.osgeo.org/ubuntugis /wiki/UbuntuGISRepository)).

Note

The release packages are only produced once shortly after a new version has been released. As unstable, not yet released debian versions (testing) and ubuntugis-unstable can have library changes the packages might sooner or later be broken for these targets, when the development in debian, ubuntu or ubuntugis-unstable moves on and their packages used as dependencies in qgis change. In that event you can either

- move to a stable debian version and use the released packages for it,
- wait for the next point release (due 2023-05-26 12:00:00 UTC), which happens every month and will include the updated dependencies,
- switch to a nightly repository (available for the **two** release branches and master) whose packages are rebuild on regular basis and will also pickup the updated dependencies automatically or
- build your own set of packages (see build-debian-packages (https://github.com/qgis/QGIS/blob/master /INSTALL.md#310-building-debian-packages)).

Lines of packages:

Release	Version	Description	Repository
Latest Release	3.30.x 's-	Release for Debian and	https://qgis.org/debian
	Hertogenbosch	Ubuntu	(https://qgis.org/debian)
			https://qgis.org/ubuntu
			(https://qgis.org/ubuntu)

Release	Version	Description	Repository
		Release with ubuntugis- unstable dependencies	https://qgis.org/ubuntugis (https://qgis.org/ubuntugis)
		Nightly build of upcoming point release for Debian and Ubuntu [5	https://qgis.org/debian-nightly-release (https://qgis.org/debian-nightly-release) https://qgis.org/ubuntu-nightly-release (https://qgis.org/ubuntu-nightly-release)
		Nightly build of upcoming point release with ubuntugis-unstable dependencies [5	https://qgis.org/ubuntugis-nightly-release (https://qgis.org/ubuntugis-nightly-release)
Long Term Release Repository	3.28.x Firenze LTR	Release for Debian and Ubuntu	https://qgis.org/debian-ltr (https://qgis.org/debian-ltr) https://qgis.org/ubuntu-ltr (https://qgis.org/ubuntu-ltr)
		Release with ubuntugis- unstable dependencies	https://qgis.org/ubuntugis-ltr (https://qgis.org/ubuntugis-ltr)
		Nightly build of upcoming point release for Debian and Ubuntu [5	https://qgis.org/debian-nightly-ltr (https://qgis.org/debian-nightly- ltr) https://qgis.org/ubuntu- nightly-ltr (https://qgis.org /ubuntu-nightly-ltr)
		Nightly build of upcoming point release with ubuntugis-unstable dependencies [5	https://qgis.org/ubuntugis-nightly- ltr (https://qgis.org/ubuntugis- nightly-ltr)
Development Version	3.31 master	Nightly build for Debian and Ubuntu [5	https://qgis.org/debian-nightly (https://qgis.org/debian-nightly) https://qgis.org/ubuntu-nightly (https://qgis.org/ubuntu-nightly)
		Nightly build with ubuntugis-unstable dependencies [5	https://qgis.org/ubuntugis-nightly (https://qgis.org/ubuntugis- nightly)

5(1,2,3,4,5,6) nightlies are debug builds (including debug output)

Next point release: 2023-05-26 12:00:00 UTC Next release: 2023-06-23 12:00:00 UTC

(more dates see Release Schedule on Road Map (../getinvolved/development/roadmap.html))

Supported distribution versions:

Distribution	Version	Codename	Also available based on ubuntugis- unstable dependencies?
Debian	11.x (stable)	bullseye	
	unstable	sid	
Ubuntu	23.04	lunar	
	22.10	kinetic	
	22.04 (LTS)	jammy	yes
	20.04 (LTS)	focal [6	yes

[6] only up to QGIS 3.26 (Qt 5.13 required for 3.27)

To use the qgis archive you have to first add the archive's repository public key:

```
wget https://download.qgis.org/downloads/qgis-archive-keyring.gpg
gpg --no-default-keyring --keyring ./qgis-archive-keyring.gpg --list-keys
```

Should output:

```
./qgis-archive-keyring.gpg
------
pub rsa4096 2022-08-08 [SCEA] [expires: 2027-08-08]
2D7E3441A707FDB3E7059441D155B8E6A419C5BE
uid [unknown] QGIS Archive Automatic Signing Key (2022-2027) <qgis-developer@lists.osgeo.org>
```

After you have verified the output you can install the key with:

```
sudo mkdir -m755 -p /etc/apt/keyrings # not needed since apt version 2.4.0 like Debian 12 and Ubuntu 22 or ne wer
sudo cp qgis-archive-keyring.gpg /etc/apt/keyrings/qgis-archive-keyring.gpg
```

Alternatively you can download the key directly without manual verification:

```
sudo mkdir -m755 -p /etc/apt/keyrings # not needed since apt version 2.4.0 like Debian 12 and Ubuntu 22 or ne wer
sudo wget -0 /etc/apt/keyrings/qgis-archive-keyring.gpg https://download.qgis.org/downloads/qgis-archive-keyring.gpg
```

With the keyring in place you can add the repository as <code>/etc/apt/sources.list.d/qgis.sources</code> with following content:

Types: deb deb-src
URIs: *repository*
Suites: *codename*
Architectures: amd64
Components: main

Signed-By: /etc/apt/keyrings/qgis-archive-keyring.gpg

Example for the latest long term release for Ubuntu 22.04 Jammy:

Types: deb deb-src

URIs: https://qgis.org/ubuntu-ltr

Suites: jammy

Architectures: amd64 Components: main

Signed-By: /etc/apt/keyrings/qgis-archive-keyring.gpg

After that type the commands below to install QGIS:

```
sudo apt update
sudo apt install qgis qgis-plugin-grass
```

In case you would like to install QGIS Server, type:

```
sudo apt update
sudo apt install qgis-server --no-install-recommends --no-install-suggests
# if you want to install server Python plugins
apt install python-qgis
```

Note

Please remove all the QGIS and GRASS packages you may have installed from other repositories before doing the update.

Fedora

Get packages for any Fedora by typing:

```
sudo dnf install qgis python3-qgis qgis-grass qgis-server
```

Default Fedora software repositories often hold older versions of QGIS.

To have newer versions or the latest LTR, you have to add alternative software repositories based on the version you want to install (stable, LTR or testing).

QGIS stable

Enable the repository:

sudo dnf copr enable dani/qgis

After that type the commands below to install QGIS:

```
sudo dnf install qgis python3-qgis qgis-grass
```

In case you would like to install QGIS Server (note that it's not a common practice to install both client and server applications on the same machine), type:

sudo dnf install qgis-server python3-qgis

Distribution	Version	QGIS version	GRASS GIS version
Fedora	36	3.28	8.0
	37	3.28	8.2

More information are available at https://copr.fedorainfracloud.org/coprs/dani/qgis/ (https://copr.fedorainfracloud.org/coprs/dani/qgis/)

QGIS LTR (Long Term Release)

Enable the repository:

sudo dnf copr enable dani/qgis-ltr

After that type the commands below to install QGIS:

sudo dnf install qgis python3-qgis qgis-grass

In case you would like to install QGIS Server (note that it's not a common practice to install both client and server applications on the same machine), type:

sudo dnf install qgis-server python3-qgis

Distribution	Version	QGIS version	GRASS GIS version
Fedora	36	3.22	8.0
	37	3.22	8.2

More information are available at https://copr.fedorainfracloud.org/coprs/dani/qgis-ltr/ (https://copr.fedorainfracloud.org/coprs/dani/qgis-ltr/)

SUSE / openSUSE

Latest stable and LTR packages called qgis and qgis-ltr are available in the following repositories:

Distribution Repository

Distribution	Repository
Tumbleweed	https://download.opensuse.org/repositories
	/Application:/Geo/openSUSE_Tumbleweed/
	(https://download.opensuse.org/repositories
	/Application:/Geo/openSUSE_Tumbleweed/)
Leap 15.2	https://download.opensuse.org/repositories
	/Application:/Geo/openSUSE_Leap_15.2/
	(https://download.opensuse.org/repositories
	/Application:/Geo/openSUSE_Leap_15.2/)
Leap 15.1	https://download.opensuse.org/repositories
	/Application:/Geo/openSUSE_Leap_15.1/
	(https://download.opensuse.org/repositories
	/Application:/Geo/openSUSE_Leap_15.1/)
Factory ARM	https://download.opensuse.org/repositories
	/Application:/Geo/openSUSE_Factory_ARM/
	(https://download.opensuse.org/repositories
	/Application:/Geo/openSUSE_Factory_ARM/)
Factory PowerPC	https://download.opensuse.org/repositories
	/Application:/Geo/openSUSE_Factory_PowerPC/
	(https://download.opensuse.org/repositories
	/Application:/Geo/openSUSE_Factory_PowerPC/)
SLE 15 SP1 Backports	https://download.opensuse.org/repositories
	/Application:/Geo/SLE_15_SP1_Backports/
	(https://download.opensuse.org/repositories
	/Application:/Geo/SLE_15_SP1_Backports/)
SLE 15 SP1 Backports debug	https://download.opensuse.org/repositories
	/Application:/Geo/SLE_15_SP1_Backports_debug/
	(https://download.opensuse.org/repositories
	/Application:/Geo/SLE_15_SP1_Backports_debug/)
	, , , , , , , , , , , , , , , , , , , ,

All packages include GRASS and Python support.

All openSUSE Geo repositories can be found here: https://download.opensuse.org/repositories/Application:/Geo/ (https://download.opensuse.org/repositories/Application:/Geo/)

Mandriva

QGIS stable

Current:

urpmi qgis-python qgis-grass

Slackware

QGIS stable

Packages on https://slackbuilds.org/result/?search=qgis (https://slackbuilds.org/result/?search=qgis)

Arch Linux

QGIS stable

Arch Linux is available in official repository: https://www.archlinux.org/packages/community/x86_64/qgis/(https://www.archlinux.org/packages/community/x86_64/qgis/)

Install with:

pacman -S qgis

QGIS LTR

QGIS Long Term Release is available in AUR (Arch User Repository).

Install with yaourt or other package manager which support AUR:

yaourt -S qgis-ltr

For bugs and other behaviour, read comments here: https://aur.archlinux.org/packages/qgis-ltr/(https://aur.archlinux.org/packages/qgis-ltr/)

QGIS testing

QGIS testing is available in AUR (Arch User Repository).

Install with yaourt or other package manager which support AUR:

yaourt -S qgis-git

For bugs and other behaviour, read comments here: https://aur.archlinux.org/packages/qgis-git (https://aur.archlinux.org/packages/qgis-git)

Flatpak

There is an QGIS flatpak for QGIS Stable available, maintained by the flathub community.

For general Linux Flatpak install notes, see https://flatpak.org/setup/ (https://flatpak.org/setup/)

QGIS on Flathub: https://flathub.org/apps/details/org.qgis.qgis (https://flathub.org/apps/details/org.qgis.qgis)

To install:

flatpak install --from https://dl.flathub.org/repo/appstream/org.qgis.qgis.flatpakref

Then to run:

flatpak run org.qgis.qgis

To update your flatpak QGIS:

flatpak update

On certain distributions, you may also need to install xdg-desktop-portal or xdg-desktop-portal-gtk packages in order for file dialogs to appear.

Flathub files: https://github.com/flathub/org.qgis.qgis (https://github.com/flathub/org.qgis.qgis) and reportissues here: https://github.com/flathub/org.qgis.qgis/issues)

Note: if you need to install additional Python modules, because they are needed by a plugin, you can install the module with (here installing the scipy module):

flatpak run --devel --command=pip3 org.qgis.qgis install scipy --user

Mac OS X / macOS

Official All-in-one, signed installers for macOS High Sierra (10.13) and newer can be downloaded from the QGIS download page (https://qgis.org/en/site/forusers/download.html) .

QGIS nightly release

A nightly updated standalone installer from QGIS master can be downloaded from here (https://qgis.org/downloads/macos/qgis-macos-nightly.dmg) .

Old releases

Previous releases of the official installer can be downloaded from https://qgis.org/downloads/macos/ (https://qgis.org/downloads/macos/) .

Previous releases of the kyngchaos installer can be downloaded from https://www.kyngchaos.com/software/archive/qgis/ (https://www.kyngchaos.com/software/archive/qgis/) . The oldest installers support macOS 10.4 Tiger.

FreeBSD QGIS stable

To install QGIS from binary packages type

pkg install qgis

Or to customize compilation options, you can build it from FreeBSD ports

cd /usr/ports/graphics/qgis
make install clean

QGIS LTR

To install QGIS from binary packages type

pkg install qgis-ltr

Or to customize compilation options, you can build it from FreeBSD ports

cd /usr/ports/graphics/qgis-ltr
make install clean

OpenBSD

QGIS Stable

To install QGIS from third-party package

pkg_add qgis

See: - https://openbsd.app/?search=qgis (https://openbsd.app/?search=qgis) # for -stable OpenBSD - https://openbsd.app/?search=qgis¤t=on (https://openbsd.app/?search=qgis¤t=on) # for -current OpenBSD

Android

An old and deprecated not touch optimised release of QGIS for Android can be found on the google play store.

https://play.google.com/store/apps/details?id=org.qgis.qgis (https://play.google.com/store/apps/details?id=org.qgis.qgis)

Warning

There is currently no support for Android 5. Best support is given for Android 4.3 and 4.4.x. This is a direct port of the QGIS desktop application. It is only slightly optimized for touch devices and therefore needs to be carefully evaluated for its suitability in day-to-day use. There are other apps available which are designed and optimized specifically for touch devices.

QGIS Testing warning

Warning

QGIS testing packages are provided for some platforms in addition to the QGIS stable version. QGIS testing

contains unreleased software that is currently being worked on. They are only provided for testing purposes to early adopters to check if bugs have been resolved and that no new bugs have been introduced. Although we carefully try to avoid breakages, it may at any given time not work, or may do bad things to your data. Take care. You have been warned!

Installing from Source

Refer to INSTALL (https://github.com/qgis/QGIS/blob/master/INSTALL.md) on how to build and install QGIS from source for the different platforms.

(https://twitter.com/qgis) (https://www.facebook.com/pages/QGIS-Quantum-GIS-/298112000235096)

(https://github.com/qgis/) (../getinvolved/index.html)

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Textual error, missing text or you know better: fix me (https://github.com/qgis/QGIS-Website/edit/master/source/site/forusers/alldownloads.rst)