

Install Bazel on Ubuntu

Supported Ubuntu Linux platforms:

- 16.04 (LTS)
- 14.04 (LTS)

Install Bazel on Ubuntu using one of the following methods:

- [Use our custom APT repository \(recommended\)](#)
- [Use the binary installer](#)
- [Compile Bazel from source](#)

Bazel comes with two completion scripts. After installing Bazel, you can:

- access the [bash completion script](#)
- install the [zsh completion script](#)

Using Bazel custom APT repository (recommended)

1. Install JDK 8

Install JDK 8 by using:

```
sudo apt-get install openjdk-8-jdk
```

On Ubuntu 14.04 LTS you'll have to use a PPA:

```
sudo add-apt-repository ppa:webupd8team/java
sudo apt-get update && sudo apt-get install oracle-java8-installer
```

2. Add Bazel distribution URI as a package source (one time setup)

```
echo "deb [arch=amd64] http://storage.googleapis.com/bazel-apt stable jdk1.8" | sudo tee /etc/apt/sources.list.d/bazel.list
curl https://bazel.build/bazel-release.pub.gpg | sudo apt-key add -
```

If you want to install the testing version of Bazel, replace `stable` with `testing`.

3. Install and update Bazel

```
sudo apt-get update && sudo apt-get install bazel
```

Once installed, you can upgrade to a newer version of Bazel with:

```
sudo apt-get upgrade bazel
```

Install using binary installer

The binary installers are on Bazel's [GitHub releases page](#).

The installer contains the Bazel binary and the required JDK. Some additional libraries must also be installed for Bazel to work.

1. Install required packages

```
sudo apt-get install pkg-config zip g++ zlib1g-dev unzip python
```

2. Download Bazel

Note: In the installer file names listed in this document, replace `<version>` with the appropriate Bazel version number.

Go to Bazel's [GitHub releases page](#).

Download the binary installer `bazel-<version>-installer-linux-x86_64.sh` . This installer contains the Bazel binary and the required JDK, and can be used even if JDK is already installed.

Note that `bazel-<version>-without-jdk-installer-linux-x86_64.sh` also exists. It is a version without embedded JDK 8. Only use this installer if you already have JDK 8 installed.

3. Run the installer

Run the installer:

```
chmod +x bazel-<version>-installer-linux-x86_64.sh
./bazel-<version>-installer-linux-x86_64.sh --user
```

The `--user` flag installs Bazel to the `$HOME/bin` directory on your system and sets the `.bazelrc` path to `$HOME/.bazelrc` . Use the `--help` command to see additional installation options.

4. Set up your environment

If you ran the Bazel installer with the `--user` flag as above, the Bazel executable is installed in your `$HOME/bin` directory. It's a good idea to add this directory to your default paths, as follows:

```
export PATH="$PATH:$HOME/bin"
```

You can also add this command to your `~/.bashrc` file.