

# Install the gcloud CLI

This page contains instructions for choosing and maintaining a Google Cloud CLI installation. The Google Cloud CLI includes the `gcloud`, `gsutil` and `bq` command-line tools. For a list of gcloud CLI features, see [All features](/sdk#all-features) (/sdk#all-features).

To access the [Google Cloud APIs](/apis/docs/overview) (/apis/docs/overview) using a supported programming language, you can download the [Cloud Client Libraries](/apis/docs/cloud-client-libraries) (/apis/docs/cloud-client-libraries).

## Installation instructions

These instructions are for installing the Google Cloud CLI. For information about installing additional components, such as gcloud CLI commands at the alpha or beta release level, see [Managing gcloud CLI components](/sdk/gcloud/guide/managing-components) (/sdk/gcloud/guide/managing-components).

**Note:** If you are behind a proxy or firewall, see the [proxy settings](/sdk/docs/proxy-settings) (/sdk/docs/proxy-settings) page for more information on installation.

[Linux](#) (#linux)[Debian/Ubuntu...](#)

[Red Hat/Fedora/CentOS...](#)

[macOS](#)Windows (#windows) (#macos)

### 1. Confirm that you have a supported version of Python:

- To check your current Python version, run `python3 -V` or `python -V`. Supported versions are Python 3.8 to 3.11.
- The main install script offers to install CPython's Python 3.11.
- Otherwise, to install a supported Python version, please visit the Python.org [Python Releases for macOS](https://www.python.org/downloads/macos/) (https://www.python.org/downloads/macos/).
- If you have multiple Python interpreters installed on your machine, set the CLOUDSDK\_PYTHON environment variable within your shell to point to the path of your preferred interpreter.
- For more information on how to choose and configure your Python interpreter, see [gcloud topic startup](/sdk/gcloud/reference/topic/startup) (/sdk/gcloud/reference/topic/startup).

### 2. Download one of the following:



Note: To determine your machine hardware name, run `uname -m` from a command line.

Platform	Package	Size	SHA256 Checksum
macOS 64-bit (x86_64)	<a href="https://dl.google.com/dl/cloudsdk/channels/rapid/downloads/google-cloud-cli-455.0.0-darwin-x86_64.tar.gz">google-cloud-cli-455.0.0-darwin-x86_64.tar.gz</a> ( <a href="https://dl.google.com/dl/cloudsdk/channels/rapid/downloads/google-cloud-cli-455.0.0-darwin-x86_64.tar.gz">https://dl.google.com/dl/cloudsdk/channels/rapid/downloads/google-cloud-cli-455.0.0-darwin-x86_64.tar.gz</a> )	122.8 MB	561db89e1eb9c84329fa267c7b60e a2eb31752bd90c399d316eb37290 3fb9fd9
macOS 64-bit (ARM64, Apple M1 silicon)	<a href="https://dl.google.com/dl/cloudsdk/channels/rapid/downloads/google-cloud-cli-455.0.0-darwin-arm.tar.gz">google-cloud-cli-455.0.0-darwin-arm.tar.gz</a> ( <a href="https://dl.google.com/dl/cloudsdk/channels/rapid/downloads/google-cloud-cli-455.0.0-darwin-arm.tar.gz">https://dl.google.com/dl/cloudsdk/channels/rapid/downloads/google-cloud-cli-455.0.0-darwin-arm.tar.gz</a> )	119.9 MB	c92972969d6f07e312226fbc13354 6b5e679a7882a8e2063c1fcc67773 eadb1f
macOS 32-bit (x86)	<a href="https://dl.google.com/dl/cloudsdk/channels/rapid/downloads/google-cloud-cli-455.0.0-darwin-x86.tar.gz">google-cloud-cli-455.0.0-darwin-x86.tar.gz</a> ( <a href="https://dl.google.com/dl/cloudsdk/channels/rapid/downloads/google-cloud-cli-455.0.0-darwin-x86.tar.gz">https://dl.google.com/dl/cloudsdk/channels/rapid/downloads/google-cloud-cli-455.0.0-darwin-x86.tar.gz</a> )	121.5 MB	44c2165dcfc7d2a5430bd2190444b f72c87f2ce3ddc2500a9cf69161f53 4bad6

- Extract the archive to any location on your file system (preferably your Home directory). On macOS, this can be achieved by opening the downloaded `.tar.gz` archive file in the preferred location.

To replace an existing installation, remove the existing `google-cloud-sdk` directory and then extract the archive to the same location.

- (Optional) Use the install script to add gcloud CLI tools to your `PATH`. You can also opt-in to command-completion for your shell, [usage statistics collection](#) (`/sdk/docs/usage-statistics`), and install Python 3.11.

Run the script (from the root of the folder you extracted in the last step) using this command:

```
./google-cloud-sdk/install.sh
```

This can also be done non-interactively (for example, using a script) by providing preferences as flags. To describe the available flags, run:

```
./google-cloud-sdk/install.sh --help
```

To run the install script with screen reader mode on:

```
./google-cloud-sdk/install.sh --screen-reader=true
```

Open a new terminal so that the changes take effect.

c. To initialize the gcloud CLI, run **gcloud init** (/sdk/gcloud/reference/init):

```
./google-cloud-sdk/bin/gcloud init
```

d. Optional. Install additional components using the component manager (/sdk/docs/managing-components).

## Other installation options

Depending on your development needs, instead of the recommended installation (#installation\_instructions), you can use an alternative method of installing the gcloud CLI:

- **Using the gcloud CLI with scripts or Continuous Integration/Deployment?** Download a versioned archive (/sdk/docs/downloads-versioned-archives) for a non-interactive installation of a specific version of the gcloud CLI.
- **Need to run the gcloud CLI as a Docker image?** Use the gcloud CLI Docker image (/sdk/docs/downloads-docker) for the latest release (or a specific version) of the gcloud CLI.
- **Running Ubuntu and prefer automatic updates?** Use a snap package (/sdk/docs/downloads-snap) to install the gcloud CLI.
- For Windows and macOS interactive installations, and all other use cases, run the interactive installer (/sdk/docs/downloads-interactive) to install the latest release of the gcloud CLI.

## Manage an installation

After you have installed the gcloud CLI, you can use commands in the [gcloud components](/sdk/gcloud/reference/components) (/sdk/gcloud/reference/components) command group to [manage your installation](/sdk/gcloud/guide/managing-components) (/sdk/gcloud/guide/managing-components). This includes viewing installed components, adding and removing components, and upgrading to a new version or downgrading to a specific version of the gcloud CLI.

**Note:** If you used `apt-get` or `yum` to install the gcloud CLI, you must use `apt-get` or `yum` to update or remove components, not `gcloud components`.

## Earlier versions of the gcloud CLI

If you need a different version of the gcloud CLI, install the current version using the instructions that appear earlier on this page and then [log in](/sdk/docs/authorizing) (/sdk/docs/authorizing). After you are logged in, you can [download earlier releases](https://console.cloud.google.com/storage/browser/cloud-sdk-release) (https://console.cloud.google.com/storage/browser/cloud-sdk-release). To see the versions sorted by date, be sure to enable **Sort and filter** and click the **Created** column.

## Supported Python versions

The Google Cloud CLI requires Python 3.8 to 3.11. For information on how to choose and configure your Python interpreter, see [gcloud topic startup](/sdk/gcloud/reference/topic/startup) (/sdk/gcloud/reference/topic/startup).

## Try it for yourself

If you're new to Google Cloud, create an account to evaluate how our products perform in real-world scenarios. New customers also get \$300 in free credits to run, test, and deploy workloads.

**Get started for free** (https://console.cloud.google.com/freetrial)

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