Cloud SDK is available in package format for installation on Debian and Ubuntu systems. This package contains the `gcloud`, `gcloud alpha`, `gcloud beta`, `gsutil`, and `bq` commands only. It does not include `kubectl` or the App Engine extensions required to deploy an application using `gcloud` commands. If you want these components, you must install them separately as described later in this section (#deb-extras).

You can install the Cloud SDK from a Debian/Ubuntu package for all official Ubuntu releases (https://wiki.ubuntu.com/Releases) that have not reached end of life, and Debian stable releases (https://wiki.debian.org/DebianReleases) from Wheezy forward.

Note: If you are using an instance on Google Compute Engine, Cloud SDK is installed by default. You can still manually install Cloud SDK using the instructions below.

1. Add the Cloud SDK distribution URI as a package source:

   Note: Make sure you have apt-transport-https (https://packages.debian.org/jessie/apt-transport-https) installed:

   ★ **Troubleshooting Tip:** If your distribution does not support the signed-by option run this command instead,

   ```
   echo "deb https://packages.cloud.google.com/apt cloud-sdk main" | sudo tee -a
   /etc/apt/sources.list.d/google-cloud-sdk.list
   ```

   ★ **Troubleshooting Tip:** Make sure you do not have duplicate entries for the cloud-sdk repo.

2. Import the Google Cloud public key:

⭐ **Troubleshooting Tip:** If you are unable to get latest updates due to an expired key, <u>obtain the latest apt-get.gpg key file</u> (/compute/docs/troubleshooting/known-issues#keyexpired).

⭐ **Troubleshooting Tip:** If your distribution's apt-key command does not support the --keyring argument run this command instead,

```
curl https://packages.cloud.google.com/apt/doc/apt-key.gpg | sudo apt-key add -
```

3. Update and install the Cloud SDK:

Note: For additional `apt-get` options, such as disabling prompts or dry runs, refer to the <u>apt-get man pages</u> (https://linux.die.net/man/8/apt-get).

4. Optionally, install any of these <u>additional components</u> (https://cloud.google.com/sdk/docs/components#additional_components):

- `google-cloud-sdk-app-engine-python`

- `google-cloud-sdk-app-engine-python-extras`

- `google-cloud-sdk-app-engine-java`

- `google-cloud-sdk-app-engine-go`

- `google-cloud-sdk-bigtable-emulator`

- `google-cloud-sdk-cbt`

- `google-cloud-sdk-cloud-build-local`

- `google-cloud-sdk-datalab`

- `google-cloud-sdk-datastore-emulator`

- `google-cloud-sdk-firestore-emulator`

- `google-cloud-sdk-pubsub-emulator`

- `kubectl`

For example, the `google-cloud-sdk-app-engine-java` component can be installed as follows:

5. Run `gcloud init` (/sdk/gcloud/reference/init) to get started:

If you'd like to revert to a specific version of Cloud SDK, where `VERSION` is of the form `123.0.0`, run: