

If you are behind a corporate proxy or firewall, the `gcloud` command-line tool may not be able to access the internet with its default settings.

The interactive Cloud SDK installers download components from the internet as part of the installation process, which may not work correctly if you are behind a proxy or firewall.

For a simpler installation process when proxy configuration is necessary, use one of the self-contained [versioned archives](/sdk/docs/downloads-versioned-archives) (`/sdk/docs/downloads-versioned-archives`) to install the Cloud SDK. All previous versions of the Cloud SDK are also available to download from the [downloads archive](https://storage.cloud.google.com/cloud-sdk-release) (`https://storage.cloud.google.com/cloud-sdk-release`).

Once you have the SDK installed, proxy settings can be configured via Cloud SDK properties by using the typical `gcloud config` mechanism. For more information on what Cloud SDK properties are and how to use them, refer to the [properties](/sdk/docs/properties) (`/sdk/docs/properties`) page.

To start, set the type of proxy you are using and the address and port on which to reach it:

- Cloud SDK supports the following values for `PROXY_TYPE`: `http`, `http_no_tunnel`, `socks4`, `socks5`

- `PROXY_IP_ADDRESS` is the hostname or IP address of where the proxy can be reached.
- `PROXY_PORT` is the port the proxy is running on (e.g. `8080`).

For an authenticated proxy, you will need to set your proxy username and password using [properties](/sdk/docs/properties) (/sdk/docs/properties), like so:

Alternatively, to avoid having the proxy credentials recorded in any logs (such as shell history or `gcloud` logs) or in the `gcloud` CLI configuration file, you can set the properties using environment variables, like so:

The `gcloud` CLI won't store these values anywhere. This way, the credentials can be stored in an encrypted file locally, or they can be stored in a secure network location and retrieved when necessary.

A full description of all proxy related properties can be found [here](/sdk/docs/properties#proxy) (/sdk/docs/properties#proxy).