Installation

It's trivial to install the `step-ca` binary on your local machine.

ⓘ

Building from source?

Check out our guide to getting started with development.

Select your operating system or infrastructure:

macOS

Install `step` and `step-ca` together, via Homebrew:

```
brew install step
```

Linux Packages (amd64)

ⓘ
Install both `step-ca` and the `step` CLI tool.

The step CLI tool is the easiest way to initialize, configure, and control `step-ca`. While `step` is not technically required to run `step-ca`, it is very much recommended.

Debian

1. Install `step`

   Download and install the Debian package for your platform from our latest release:

   ```
   wget https://dl.step.sm/gh-release/cli/docs-ca-install/v0.19.0/step-
   cli_0.19.0_amd64.deb
   sudo dpkg -i step-cli_0.19.0_amd64.deb
   ```

2. Install `step-ca`

   Download and install the Debian package for your platform from our latest release:

   ```
   wget https://dl.step.sm/gh-release/certificates/docs-ca-install/v0.19.0/step-
   ca_0.19.0_amd64.deb
   sudo dpkg -i step-ca_0.19.0_amd64.deb
   ```

To configure `step-ca` as a daemon, see our systemd configuration guide.

To uninstall, run `dpkg -r step-cli step-ca` and remove the configuration directory `$HOME/.step`.

Arch Linux

There are community-driven Arch Linux packages.

You can use pacman to install the packages.

```
pacman -S step-cli step-ca
```

The binary tarballs can be found here:

> step-ca
> step-cli

Big shout out to the maintainers of these packages! We appreciate you.

To uninstall, run `pacman -R step-ca step-cli` and remove the configuration directory `$HOME/.step` .

Alpine Linux

ⓘ
This package is in a testing repository.

To install it, you'll need to append `http://dl-cdn.alpinelinux.org/alpine/edge/testing` to `/etc/apk/repositories` . Alternatively, see Linux (other).
There are community driven Alpine Linux Packages for `step` and `step-ca` .

Use apk to install `step` :

```
apk add step-cli step-certificates
```

To uninstall, run `apk del step-cli step-certificates` and remove the `$HOME/.step` configuration directory.

The binary tarballs can be found here:

> step-cli
> step-certificates

Big shout out to the maintainers of these packages! We appreciate you.

NixOS

There are community-maintained packages for NixOS:

> step-ca
> step-cli

FreeBSD

There are community-maintained packages for FreeBSD:

<u>step-certificates</u>
<u>step-cli</u>

Here's an <u>installation transcript</u> for installing both packages in a FreeBSD jail.

Big shout out to the maintainers of these packages! We appreciate you.

Linux binaries

We distribute pre-compiled binaries for amd64, arm64, armv6, armv7, mips, mips64, ppc64le, and 386. See the <u>latest release</u> page.

Here's how to download and install the `step` and `step-ca` binaries on an amd64 machine:

1. Install `step`

   Download and install the Linux tarball from our <u>latest release</u>:

   ```
   wget -O step.tar.gz https://dl.step.sm/gh-release/cli/docs-ca-
   install/v0.19.0/step_linux_0.19.0_amd64.tar.gz
   tar -xf step.tar.gz
   sudo cp step_0.19.0/bin/step /usr/bin
   ```

2. Install `step-ca`

   Download and install the Linux tarball from our <u>latest release</u>:

   ```
   wget -O step-ca.tar.gz https://dl.step.sm/gh-release/certificates/docs-ca-
   install/v0.19.0/step-ca_linux_0.19.0_amd64.tar.gz
   tar -xf step-ca.tar.gz
   sudo cp step-ca_0.19.0/bin/step-ca /usr/bin
   ```

To configure `step-ca` as a daemon, see our <u>systemd configuration guide</u>.

Kubernetes

We publish <u>helm charts</u> for easy installation on kubernetes:

```
helm install step-certificates
```

You can see all the configuration options at <u>https://hub.helm.sh/charts/smallstep/step-certificates</u>.

ⓘ
Autocert

If you're using Kubernetes, make sure you <u>check out autocert</u>: a kubernetes add-on that builds on `step-ca` to automatically inject TLS/HTTPS certificates into your containers.

Docker

We publish <u>docker images</u> for easy container installation.

Test your installation

```
$ step version
Smallstep CLI/0.10.0 (darwin/amd64)
Release Date: 2019-04-30 19:01 UTC

$ step-ca version
Smallstep CA/0.10.0 (darwin/amd64)
Release Date: 2019-04-30 19:02 UTC
```

Next Steps

Learn about the <u>core concepts and design principles</u> behind `step-ca` .
Read the <u>Getting Started guide</u> to set up a CA and get your first certificate.