

... create an SSH key pair in Linux/macOS

Step 1 - Generate SSH key pair

Open *Terminal*, type “ssh-keygen -t ed25519” and press *Enter*:



```
[liritech@liri ~ % ssh-keygen -t ed25519
Generating public/private ed25519 key pair.
Enter file in which to save the key (/Users/liritech/.ssh/id_ed25519):
```

Change the default name of the SSH key pair (optional). This option can help distinguish between different keys in case of using multiple key pairs. By default, the system will save the keys to in the `.ssh` folder in the user's home directory.

- To continue with the default name “id_ed25519”, press *Enter*.
- To change the default name, type the desired name and press *Enter*.

Type the passphrase/password and press *Enter*. Type the passphrase/password again to confirm it and press *Enter*. The system will generate the key pair and display the key fingerprint and a randomart image:

```
[liritech@liri ~ % ssh-keygen -t ed25519
Generating public/private ed25519 key pair.
Enter file in which to save the key (/Users/liritech/.ssh/id_ed25519):
Created directory '/Users/liritech/.ssh'.
[Enter passphrase (empty for no passphrase):
[Enter same passphrase again:
Your identification has been saved in /Users/liritech/.ssh/id_ed25519
Your public key has been saved in /Users/liritech/.ssh/id_ed25519.pub
The key fingerprint is:
SHA256:TAbsV1JGDVIkR4AijbjYlORerQYnT/XqBcuo6Nzvcjc liritech@liri
The key's randomart image is:
+--[ED25519 256]--+
| o.+ .o.+BXo      |
| ..= 0000.=. .    |
| .+.+oo +o        |
| o..B +.B.         |
| . = +.S           |
| . o . .           |
| . . .             |
| o .. . E          |
| o . =o. .         |
+-----[SHA256]-----+
liritech@liri ~ %
```

Type “ls ~/.ssh” and press *Enter*. Two files with name “id_ed25519” (or the adapted name in case of having changed the default name) should be listed. The private key of the SSH key pair is saved in the **id_ed25519** file and the public key in the **id_ed25519.pub** file:

```
[liritech@liri ~ % ls ~/.ssh
id_ed25519      id_ed25519.pub
liritech@liri ~ %
```

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