

Generate SSH Key

Here are step-by-step instructions to generate an SSH key on both **Windows** and **Mac** systems:

For Windows (Windows 10/11):

1. Ensure OpenSSH Client is Installed

- Open **Settings** > **Apps** > **Apps & Features** > **Optional Features**.
- Check if **OpenSSH Client** is listed.
- If not, click **Add a feature**, find **OpenSSH Client**, and install it.
- Restart your computer if needed.

2. Open Command Prompt or PowerShell

- Press `Windows + R`, type `cmd` or `powershell`, and press Enter.

3. Generate SSH Key

- Type the command:

```
ssh-keygen
```

- Press Enter to accept the default save location (`C:\Users\<<username>\.ssh\id_rsa`).

4. Set a Passphrase (Optional)

- When prompted, enter a passphrase for extra security, or just press Enter twice to skip.

5. Complete

- The keys are generated, usually two files: `id_rsa` (private key) and `id_rsa.pub` (public key) under `.ssh` folder in your user directory.

For Mac (macOS):

1. Open Terminal

- Find Terminal via Spotlight Search or in **Applications** > **Utilities**.

2. Generate SSH Key

- Run the command, replacing your email with your own:

```
ssh-keygen -t ed25519 -C "your_email@example.com"
```

- If your macOS or server doesn't support Ed25519, use:

```
ssh-keygen -t rsa -b 4096 -C "your_email@example.com"
```

3. Save Key Location

- Press Enter to accept the default file location (`~/Users/you/.ssh/id_ed25519` or `~/Users/you/.ssh/id_rsa`).

4. **Set a Passphrase (Optional)**

- Enter a secure passphrase or press Enter to leave it blank.

5. **Add SSH Key to ssh-agent**

- Start the ssh-agent:

```
eval "$(ssh-agent -s)"
```

- Add your private key:

```
ssh-add -K ~/.ssh/id_ed25519
```

- If using RSA:

```
ssh-add -K ~/.ssh/id_rsa
```

In both OS, your generated SSH public key is the one you copy and add to services like GitHub, servers, etc. The private key should remain secure and never shared.

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