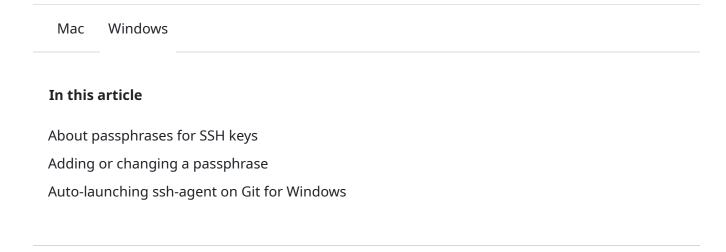


# Working with SSH key passphrases

You can secure your SSH keys and configure an authentication agent so that you won't have to reenter your passphrase every time you use your SSH keys.



1 sur 3 02/10/2024 13:52

## **About passphrases for SSH keys**

With SSH keys, if someone gains access to your computer, the attacker can gain access to every system that uses that key. To add an extra layer of security, you can add a passphrase to your SSH key. To avoid entering the passphrase every time you connect, you can securely save your passphrase in the SSH agent.

# Adding or changing a passphrase

You can change the passphrase for an existing private key without regenerating the keypair by typing the following command:

```
$ ssh-keygen -p -f ~/.ssh/id_ed25519
> Enter old passphrase: [Type old passphrase]
> Key has comment 'your_email@example.com'
> Enter new passphrase (empty for no passphrase): [Type new passphrase]
> Enter same passphrase again: [Repeat the new passphrase]
> Your identification has been saved with the new passphrase.
```

If your key already has a passphrase, you will be prompted to enter it before you can change to a new passphrase.

## **Auto-launching ssh-agent on Git for Windows**

You can run ssh-agent automatically when you open bash or Git shell. Copy the following lines and paste them into your ~/.profile or ~/.bashrc file in Git shell:

```
env=~/.ssh/agent.env

agent_load_env () { test -f "$env" && . "$env" >| /dev/null ; }

agent_start () {
    (umask 077; ssh-agent >| "$env")
    . "$env" >| /dev/null ; }

agent_load_env

# agent_run_state: 0=agent running w/ key; 1=agent w/o key; 2=agent not running
agent_run_state=$(ssh-add -l >| /dev/null 2>&1; echo $?)

if [ ! "$SSH_AUTH_SOCK" ] || [ $agent_run_state = 2 ]; then
    agent_start
```

2 sur 3 02/10/2024 13:52

```
ssh-add
elif [ "$SSH_AUTH_SOCK" ] && [ $agent_run_state = 1 ]; then
    ssh-add
fi
unset env
```

If your private key is not stored in one of the default locations (like ~/.ssh/id\_rsa), you'll need to tell your SSH authentication agent where to find it. To add your key to sshagent, type ssh-add ~/path/to/my\_key. For more information, see "Generating a new SSH key and adding it to the ssh-agent"

**Tip:** If you want ssh-agent to forget your key after some time, you can configure it to do so by running ssh-add -t seconds.

Now, when you first run Git Bash, you are prompted for your passphrase:

```
> Initializing new SSH agent...
> succeeded
> Enter passphrase for /c/Users/YOU/.ssh/id_rsa:
> Identity added: /c/Users/YOU/.ssh/id_rsa (/c/Users/YOU/.ssh/id_rsa)
> Welcome to Git (version 1.6.0.2-preview20080923)
> Run 'git help git' to display the help index.
> Run 'git help <command>' to display help for specific commands.
```

The ssh-agent process will continue to run until you log out, shut down your computer, or kill the process.

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3 sur 3 02/10/2024 13:52