

SSH

Links

- Simplified Guide: [Secure Shell \(SSH\)](#)
- Wikibooks: [SSH Multiplexing](#)
- Debian Forum: [X-Anwendungen mit SSH forwarden](#)
- sribika: [Secure Secure Shell](#) (or how to make SSH secure)
- Stack Exchange: [Does getting disconnected from an SSH session kill your programs?](#)
- Ryan Lue: [Using a GPG key for SSH Authentication](#)
- ArchWiki [SSH-Authentifizierung mit Schlüsselpaaren](#)
- *OpenBSD* Manual Page: [ssh_config](#) - OpenSSH SSH client configuration files
- *OpenBSD* Manual Page: [sshd_config](#) - OpenSSH SSH daemon configuration file

Commands

- generate a SSH key:¹⁾ `ssh-keygen -t rsa -b 4096 -C "user@domain"`
- change the private key passphrase: `ssh-keygen -p -f ~/.ssh/id_rsa`
- show (own) SSH public key fingerprint: `ssh-keygen -l`
- publish (own) SSH public key to user@server: `ssh-copy-id -i ~/.ssh/id_rsa.pub user@server`
- list public key(s) of specific known host/server: `ssh-keygen -F <host> -l`
- remove key of host/server from *known_hosts* file: `ssh-keygen -f ~/.ssh/known_hosts -R <host>`
- show certificate information directly from server/host: `ssh-keyscan <host>`
- X11 forwarding: `ssh -x user@domain`



On a SSH server you should add this firewall rule (for example using the [Uncomplicated Firewall](#)):

```
sudo ufw allow proto tcp from 192.168.178.0/24 to any port 22
```

Files

- `~/.ssh/config`: client configuration (possibly different from server to server, see *Linux* manual page [ssh_config\(5\)](#))
- `~/.ssh/known_hosts`: known host(s) public key fingerprint (SSH will never ask you again, to accept the associated public key when SSL/TLS is running)
- `~/.ssh/id_rsa.pub`: RSA public key²⁾
- `~/.ssh/id_dsa.pub`: DSA public key³⁾
- `~/.ssh/id_ecdsa.pub`: ECDSA public key
- `~/.ssh/id_ed25519.pub`: (Bernstein) Curve *ed25519* public key

- `~/.ssh/id_rsa`: RSA private key

Example

See below for a `~/.ssh/config` example, which uses client keep-alive and connection multiplexing (for a particular host).

```
Host <name>
  HostName <host>
  IdentityFile ~/.ssh/id_rsa
  User <user>
  EscapeChar none
# multiplexing
  ControlPath ~/.ssh/controlmasters/%r@%h:%p
  ControlMaster auto
  ControlPersist 3h
# keep-alive
  TCPKeepAlive yes
  ServerAliveInterval 15
  ServerAliveCountMax 4
```

1)

This can be performed with *seahorse* too.

2)

Add this content at server side to (a single line of) `~/.ssh/authorized_keys`!

3)

DSA is deprecated.

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