



# SSH

This quick reference cheat sheet provides various for using SSH.

## # Getting started

### Connecting

Connect to a server (default port 22)

```
$ ssh root@192.168.1.5
```

Connect on a specific port

```
$ ssh root@192.168.1.5 -p 6222
```

Connect via pem file (0600 permissions)

```
$ ssh -i /path/file.pem root@192.168.1.5
```

### Executing

Executes remote command

```
$ ssh root@192.168.1.5 'ls -l'
```

Invoke a local script

```
$ ssh root@192.168.1.5 bash < script.sh
```

Compresses and downloads from a server

```
$ ssh root@192.168.1.5 "tar cvzf - ~/source" > output.tgz
```

### scp

Copies from remote to local

```
$ scp user@server:/dir/file.ext dest/
```

Copies between two servers

```
$ scp user@server:/file user@server:/dir
```

Copies from local to remote

```
$ scp dest/file.ext user@server:/dir
```

Copies a whole folder

```
$ scp -r user@server:/dir dest/
```

Copies all files from a folder

```
$ scp user@server:/dir/* dest/
```

Copies from a server folder to the current folder

```
$ scp user@server:/dir/* .
```

#### Config location

System-wide ssh config

/etc/ssh/ssh\_config

User-specific ssh config

~/.ssh/config

#### SCP Options

scp -C

Compresses data

scp -v

Prints verbose info

scp -P 8080

Uses a specific Port

#### Config sample

Host server1

HostName 192.168.1.5

```
User root
Port 22
IdentityFile ~/.ssh/server1.key
```

Launch by alias

```
$ ssh server1
```

See: Full [Config Options](#)

ProxyJump

```
$ ssh -J proxy_host1 remote_host2
```

```
$ ssh -J user@proxy_host1 user@remote_host2
```

Multiple jumps

```
$ ssh -J user@proxy_host1:port1,user@proxy_host2:port2 user@remote_host3
```

ssh-copy-id

```
$ ssh-copy-id user@server
```

Copy to alias server

```
$ ssh-copy-id server1
```

Copy specific key

```
$ ssh-copy-id -i ~/.ssh/id_rsa.pub user@server
```

## # SSH keygen

Explain

```
$ ssh-keygen -t rsa -b 4096 -C "your@mail.com"
```

-t

Type of key

-b

The number of bits in the key

-C

Provides a new comment

Generate an RSA 4096 bit key with email as a comment

Generate

-----key-----

\$ ssh-keygen

Specify filename

\$ ssh-keygen -f ~/.ssh/filename

Generate public key from private key

\$ ssh-keygen -y -f private.key > public.pub

Change comment

\$ ssh-keygen -c -f ~/.ssh/id\_rsa

Change private key passphrase

\$ ssh-keygen -p -f ~/.ssh/id\_rsa

Key type

- rsa
- ed25519
- dsa
- ecdsa

known\_hosts

Search from known\_hosts

\$ ssh-keygen -F <ip/hostname>

Remove from known\_hosts

```
$ ssh-keygen -R <ip/hostname>
```

Key format

- PEM

- PKCS8

## # See also

[OpenSSH Config File Examples](#) (cyberciti.biz)

[ssh\\_config](#) (linux.die.net)

### POPULAR

[Bash scripting](#)

[Vim](#)

[RegEX](#)

[QuickRef](#)

### RECENT

[C++](#)

[Java](#)

[Tmux](#)

[Lsof](#)

### WEBSITE

[Privacy Policy](#)

[About](#)

© 2021 QuickRef.ME, All rights reserved.

