SSH cheatsheet

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 (0400 permissions)

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

See: SSH Permissions

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

/etc/ssh/ssh_config	System-wide config
~/.ssh/config	User-specific config
~/.ssh/id_{type}	Private key
~/.ssh/id_{type}.pub	Public key
~/.ssh/known_hosts	Logged in host
~/.ssh/authorized_keys	Authorized login key

SCP Options

scp -r	Recursively copy entire directories
scp -C	Compresses data
scp -v	Prints verbose info
scp -P 8080	Uses a specific Port
scp -B	Batch mode (Prevents password)
scp -p	Preserves times and modes

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:p
ort2 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

ssh-keygen

```
$ 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

Generate a key interactively

```
$ 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

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

```
ssh-keygen -p -f ~/.ssh/id_rsa
```

Also see

[OpenSSH Config File Examples](#) (cyberciti.biz)
[ssh_config](#) (linux.die.net)

Related Cheatsheet

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