

Shell / Bash

Bash Guide for Beginners

Secure Shell

The definitive guide, also available at SafariOnline

- Public/private keys, pass phrases
- Trusted hosts
- Port forwarding
- X11 forwarding
- **ssh** agent

Working with files

- **rm, rmdir**
- **ls, file**
- **find / locate**
- **touch**
- **chmod / chown**
- **head, tail**
- **grep**

Gathering network related information

- **ifconfig**
- **dig (nslookup)**
- **ping**
- **route**
- **traceroute**

Handle processes

- **ps**
- **kill**
- **top / htop**
- **nice**

vim text editor introduction

Vim Introduction and Tutorial

Configuration file permissions on windows network file systems

cd .ssh ❶

touch known_hosts ❷

cp id_rsa.pub authorized_keys ❸

setfacl -R --remove-all . * ❹

chmod go-w . * ❺

chmod ugo-x * ❻

chmod go-r id_rsa ❼

Resulting permissions and configuration test

```
ls -al
```

```
drwxr-xr-x+  2 goi k fb1prof    0 Oct 13 16:03 .
drwxr-xr-x+ 30 goi k fb1prof    0 Oct 13 16:04 ..
-rw-r--r--+  1 goi k fb1prof  398 Oct 13 16:02 authorized_keys
-rw-----+  1 goi k fb1prof 1675 Oct 13 16:02 id_rsa
-rw-r--r--+  1 goi k fb1prof  398 Oct 13 16:02 id_rsa.pub
-rw-r--r--+  1 goi k fb1prof  222 Oct 13 16:03 known_hosts
```

Testing **ssh** private key based logins to your local system:

```
~> ssh local host
```

```
Welcome to Ubuntu 18.04.3 LTS ...
```

Related exercises

Exercise 1: Enabling index based file search

Exercise 2: Using the **tail** -f command