# Just the commands - fast setup for a secure Linux server

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#### What?

- Debian jessie 8.7
- vi
- → change for your favorite text editor, and probably valid for Ubuntu as well.

#### Make sure you have the latest version of all packages:

sudo apt-get update && sudo apt-get upgrade

#### **Network Time Protocol**

aptitude install ntp

Then define your time zone (the one where your server is located):

dpkg-reconfigure tzdata

#### changing SSH port

vi /etc/ssh/sshd\_config

Text to change in the file: change port SSH 22 by a new port (let's say 1234), write the new port down somewhere

service sshd restart

#### enable SSH key auth

- Generate a key with puttygen (SSH-2 RSA 1024).
- Parameters to change in /etc/ssh/sshd\_config:

ChallengeResponseAuthentication no

X11Forwarding no

UsePAM no

LogLevel DEBUG3 (this should be added, the parameter is not listed by default)

• Save the file, then:

service sshd restart

• Add your public key to /home/myUser/.ssd/authorized\_keys

Make sure that:

- you have put the keys in /home/myUser/.ssd/authorized\_keys (not just in the root user folder)
- your key starts with "the "ssh-rsa" (the first "s" might be missing ...)
- the key doesn't break in several lines
- do chmod 700 ~/.ssh on the home folder
- use tail -f /var/log/auth.log for debugging

When SSH key login works, go back to /etc/ssh/sshd\_config and do:

PasswordAuthentication no

then: service sshd restart

Things will not work the first time, useful tips:

- http://askubuntu.com/a/306832
- http://stackoverflow.com/a/20923212/798502

#### installing the undifficult firewall

sudo apt-get update

apt-get install ufw

#### denying all incoming traffic except for SSH port

ufw default deny incoming

sudo ufw allow 1234/tcp

ufw enable

#### install and config of Psad

First, making sure the firewall logs the traffic:

```
iptables -A INPUT -j LOG
iptables -A FORWARD -j LOG
```

```
apt-get install psad
```

Then modify some options in the config file, which is situated here:

```
vi /etc/psad/psad.conf
```

Here are some options I modified: my psad config file

Then we whitelist our own server:

```
vi /etc/psad/auto_dl
```

where I put just 2 values:

127.0.0.1 0; # localhost

xx.xx.xxx.xxx 0; # Server IP (replace xx.xx.xxx.xxx by your actual server IP)

#### disabling clear password auth

```
vi /etc/ssh/sshd_config
```

Text to change in the file:

ChallengeResponseAuthentication no

PasswordAuthentication no

UsePAM no

service sshd restart

### the end

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All resources on linux security: https://seinecle.github.io/linux-security-tutorials/	