
Box

Setup for my personal (pet) server.

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1 Introduction

1.1 Contributing

Found an error or have a suggestion? Please open an issue on GitHub (github.com/pojntfx/box):



Figure 1: QR-Code to the source code on GitHub

1.2 License

This document and included source code is Free Culture/Free Software.



Figure 2: Badge of the AGPL-3.0 license

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SPDX-License-Identifier: AGPL-3.0

2 Debian

```
1 sudo umount /dev/mmcblk0{,p1,p0}
2 curl -L 'https://raspi.debian.net/tested/20210823_raspi_3_bullseye.img.xz' | xzcat >/tmp/debian.img
3 sudo dd if=/tmp/debian.img of=/dev/mmcblk0 bs=4M status=progress
4 sync
5
6 sudo mkdir -p /mnt/raspi-boot
7 sudo mount /dev/mmcblk0p1 /mnt/raspi-boot
8 {
9     echo "root_pw=$(openssl rand -base64 12)"
10    echo "root_authorized_key=$(cat ~/.ssh/id_rsa.pub)"
11    echo "hostname=jeans-box"
12 } >>/mnt/raspi-boot/sysconf.txt
13 sudo umount /dev/mmcblk0{,p1,p0}
```

3 IPv6

```
1 ssh root@jeans-box
2 cat >/etc/sysctl.d/privacy.conf <<'EOT'
3 net.ipv6.conf.all.use_tempaddr=2
4 EOT
5 sysctl -p
6
7 cat >/etc/network/interfaces.d/eth0 <<'EOT'
8 auto eth0
9 iface eth0 inet dhcp
10
11 iface eth0 inet6 static
12     address 2001:7c7:2121:8d00::3
13     autoconf 1
14     accept_ra 2
15 EOT
16 systemctl restart networking
17
18 cat >/etc/resolv.conf <<'EOT'
19 nameserver 2606:4700:4700::1111
20 nameserver 2606:4700:4700::1001
21 EOT
22 sed -i /etc/hosts -e 's/\tlocalhost/\tlocalhost jeans-box/g'
```

4 DNS

1	jeans-box	10800	IN	AAAA	2001:7c7:2121:8d00::3
2	*.jeans-box	10800	IN	AAAA	2001:7c7:2121:8d00::3

5 SSH

```
1 ssh root@jeans-box.example.com
2 apt update
3 apt install -y sudo curl openssh-server
4 systemctl enable --now ssh
5
6 adduser jean
7 su jean -c "mkdir -m 700 -p ~/.ssh && curl 'https://github.com/jean.
    keys' | tee -a ~/.ssh/authorized_keys && chmod 600 ~/.ssh/
    authorized_keys"
8 usermod -aG sudo jean
9
10 echo 'PermitRootLogin no' | tee /etc/ssh/ssh_config.d/no-root.conf
11
12 passwd -d root
13 passwd -l root
14 chsh -s /sbin/nologin
15 rm ~/.ssh/authorized_keys
16
17 systemctl restart ssh
```

6 firewall

```
1 ssh jean@jeans-box.example.com
2 sudo apt update
3 sudo apt install -y firewall
4 sudo systemctl enable --now firewall
5 sudo firewall-cmd --permanent --add-service=mdns
6 sudo firewall-cmd --permanent --add-service=llmnr
```