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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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  tee /etc/sysctl.d/privacy.conf <<'EOT'
 3  net.ipv6.conf.all.use_tempaddr=2
 4  EOT
 5  sysctl -p
 6
 7  tee /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  tee /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

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```
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 firewalld

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

7 APT

```
1  ssh jean@jeans-box.example.com
2  sudo apt update
3  sudo apt install -y unattended-upgrades
4
5  sudo tee /etc/apt/apt.conf.d/50unattended-upgrades <<'EOT'
6  Unattended-Upgrade::Origins-Pattern {
```

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```
 7     "origin=*";
 8  }
 9  Unattended-Upgrade::Automatic-Reboot "true";
10  Unattended-Upgrade::Automatic-Reboot-Time "02:00";
11  EOT
12  sudo systemctl enable --now unattended-upgrades
13  sudo unattended-upgrades --debug
```