Box

Setup for my personal (pet) server.

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Introduction

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

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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Debian

Debian

```
sudo umount /dev/mmcblk0{,p1,p0}
curl —L 'https://raspi.debian.net/tested/20210823_r
sudo dd if=/tmp/debian.img of=/dev/mmcblk0 bs=4M st
sync
sudo mkdir —p /mnt/raspi—boot
sudo mount /dev/mmcblk0p1 /mnt/raspi-boot
    echo "root_pw=$(openssl rand -base64 12)"
    echo "root_authorized_key=$(cat ~/.ssh/id_rsa.p
    echo "hostname=jeans-box"
} >>/mnt/raspi-boot/sysconf.txt
sudo umount /dev/mmcblk0{,p1,p0}
```

IPv6

```
ssh root@jeans-box
tee /etc/sysctl.d/privacy.conf <<'EOT'
net.ipv6.conf.all.use_tempaddr=2
EOT
sysctl -p
tee /etc/network/interfaces.d/eth0 << 'EOT'
auto eth0
iface eth0 inet dhcp
iface eth0 inet6 static
    address 2001:7c7:2121:8d00::3
    autoconf 1
    accept ra 2
FOT
```

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DNS

DNS

jeans—box	10800	IN	AAAA	2001:7c7:2121
*.jeans—box	10800	IN	AAAA	2001:7c7:2121

SSH

SSH

```
ssh root@jeans—box.example.com
apt update
apt install —y sudo curl openssh—server locales
systemctl enable —now ssh
```

```
echo "LC_ALL=en_US.UTF-8" | tee -a /etc/environment echo "en_US.UTF-8 UTF-8" | tee /etc/locale.gen echo "LANG=en_US.UTF-8" | tee /etc/locale.conf locale-gen en_US.UTF-8
```

```
locale—gen en_US.UTF—8

adduser jean
su jean —c "mkdir —m 700 —p ~/.ssh && curl 'https:/
usermod —aG sudo jean
```

echo 'PermitRootLogin no' | tee /etc/ssh/ssh_confīg

firewalld

firewalld

```
ssh jean@jeans-box.example.com
sudo apt update
sudo apt install -y firewalld
sudo systemctl enable —now firewalld
sudo firewall-cmd —zone=public —add-interface=eth
sudo firewall-cmd —permanent —add-service=mdns
sudo firewall-cmd —permanent —add-service=llmnr
sudo firewall-cmd —reload
```

APT

APT

```
ssh jean@jeans-box.example.com
sudo apt update
sudo apt install —y unattended—upgrades
sudo tee /etc/apt/apt.conf.d/50unattended-upgrades
Unattended-Upgrade::Origins-Pattern {
  "origin = *";
Unattended—Upgrade:: Automatic—Reboot "true";
Unattended—Upgrade:: Automatic—Reboot—Time "02:00";
EOT
sudo systemctl enable — now unattended — upgrades
sudo unattended—upgrades —debug
```

Traefik

Traefik

```
ssh jean@jeans-box.example.com
sudo apt update
sudo apt install —y podman
echo 'unqualified -search - registries = ["docker.io"]'
sudo systemctl enable — now podman—auto—update.time
sudo mkdir —p /etc/traefik
sudo tee /etc/traefik/traefik.yaml<<'EOT'</pre>
entryPoints:
  web:
    address: ":80"
  websecure:
    address: ":443"
```

Cockpit

Cockpit

```
echo 'deb http://deb.debian.org/debian bullseye-bac
sudo apt update
sudo apt install —t bullseye—backports —y cockpit c
curl https://cockpit.jeans—box.example.com/ # Test
```

Gitea

Gitea

```
sudo mkdir —p /var/lib/gitea
sudo podman run —d —— restart=always —— label "io.con
sudo firewall—cmd —— permanent —— add—port=2222/tcp
sudo firewall—cmd —— reload
```

```
curl https://gitea.jeans-box.example.com/ # Test Co
```

Now visit https://gitea.jeans-box.example.com/ and run the Wizard; use the following values:

- SSH Server Domain: gitea.jeans-box.example.com
- SSH Server Port: 2222
- Gitea Base URL: https://gitea.jeans-box.example.com/
- Use your email SMTP server in Email Settings, enable Email Notifications and Require Email Confirmation to Register

Dex

Dex

First, setup Gitea by visiting https://gitea.jeans-box.example.com/user/settings/applications and adding a new OAuth2 application with Application Name Dex and Redirect URI https://dex.jeans—box.example.com/callback. Note the client ID and client secret; we'll need them in the following.

```
sudo mkdir -p /etc/dex
sudo mkdir -p /var/lib/dex
sudo touch /var/lib/dex/dex.db
sudo chown -R 1001:1001 /var/lib/dex/
sudo tee /etc/dex/config.yaml<<'EOT'
issuer: https://dex.jeans-box.example.com</pre>
```

storage:

type: sqlite3

liwasc

liwasc

```
sudo mkdir — p / var/lib/liwasc
sudo podman run — d — restart=always — label "io.com
```

Now visit https://pojntfx.github.io/liwasc/ as we did before and use wss::// liwasc . jeans—box.example.com/ as the backend URL (note the trailing slash!).