

Install Raspi

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History

V 0.3.0 31.jul.2025

Use sshkeys

V 0.2.0 14.oct.2023

Add desktop entry for tyra

V 0.1.0 30.sep.2023

First Creation

Intro

Goal

Install Raspi for using as dev Station

Setup 4 Raspi Imager

Setup Standard OS with desktop; without recommended Software.

Before burning image select:

Hostname: aewinter

SSH User: aeningning

SSH Password: sldslld1023

WIFI: nothing

TimeZone: Eu/Berlin

Keyboard; de

Services: auth by password

Raspi-config

- Display options
 - VNC Resolution
 - 1280x720
- Interface options
 - VNC
 - Enable Yes

Sudo reboot

Copy files to target

```
scp -v watchmen.jar install_basics.sh install_services.sh siu.sh siu.cfg siu_load.sh  
siu.elf zena.sh zena.cfg zena_load.sh marty.elf watchmen.service t0.sh t1.sh %USER  
%@%TARGET%:~
```

Make scripts executable

```
ssh %USER%@%TARGET% chmod a+rx *.sh
```

Execute install_basics.sh script (as root)

```
mkdir .ssh  
mv aeningning_sshkey.pub .ssh/authorized_keys  
  
chown aeningning:aeningning .ssh/authorized_keys  
chown aeningning:aeningning .ssh  
chmod 600 .ssh/authorized_keys  
chmod 700 .ssh
```

```
apt update  
apt upgrade -y
```

```
apt install ca-certificates-java -y  
apt install openjdk-17-jre -y  
apt install libpangoft2-1.0-0 -y  
apt install libgles-dev -y
```

```
apt install openocd -y
```

```
#apt install x2goserver
```

```
apt install mc -y
```

```
apt install xoscope -y
```

```
apt install minicom -y
```

```
apt install telnet -y
```

```
apt install ser2net -y
```

```
# virtual midi keyboard
```

```
apt install vmpk -y
```

Run setup script

Activate watchmen

```
sudo ./install_services.sh
```

Script contains

```
sudo cp watchmen.service /lib/systemd/system
```

```
sudo systemctl enable watchmen.service
```

```
sudo systemctl start watchmen.service
```

```
cp tyra.desktop .local/share/applications/tyra.desktop
```

Last step reboot

Sudo reboot

Questions

Vncserver or x2goserver or raspi light without desktop

xoscope for signalling

develop tyra

Problems

xoscope run through x2goserver

Info

Locatoion of .desktop files

/usr/share/applications
(created in raspi but empty)

/usr/local/share/applications
(not used in raspi)

~/.local/share/applications
(created in raspi but empty)

Links

<https://specifications.freedesktop.org/desktop-entry-spec/desktop-entry-spec-latest.html>

Culture

Profiles

Other