### File: DevStation\_install\_raspi.odt

# Install Raspi

| History                                    | 1 |
|--|---|
| V 0.3.1 09.aug.2025                        |   |
| V 0.3.0 31.jul.2025                        |   |
| V 0.2.0 14.oct.2023                        |   |
| V 0.1.0 30.sep.2023                        |   |
| Intro                                      |   |
| Goal                                       |   |
| Setup 4 Raspi Imager                       |   |
| Raspi-config                               |   |
| Copy files to target                       |   |
| Make scripts executable                    |   |
| Execute install_basics.sh script (as root) |   |
| Run setup script.                          |   |
| Ser2Net control port                       | 4 |
| Last step reboot.                          |   |
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| Problems                                   |   |
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| Other                                      | - |

# **History**

V 0.3.1 09.aug.2025

Use sshkeys

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

# File: DevStation\_install\_raspi.odt

#### 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: sldsld1023

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 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 t2.sh tyra\_debug.sh tyra.jar tyra.sh tyra.desktop aeningning\_sshkey aeningning@aewinter.kwangya:~

scp aeningning\_sshkey.pub ser2net.yaml aeningning@aewinter.kwangya:~ ssh aeningning@aewinter.kwangya chmod a+rwx \*.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 cp ser2net.yaml /etc/
sudo systemctl enable watchmen.service
sudo systemctl start watchmen.service

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

#### File: DevStation\_install\_raspi.odt

#### **Ser2Net control port**

At

/lib/systemd/system/ser2net.service

add

-p 2000

At end of ExecStart

### 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

 $\underline{https://specifications.freedesktop.org/desktop-entry-spec/desktop-entry-spec-latest.html}$ 

Culture

**Profiles** 

Other