

## Install Raspi

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## History

### ***V 0.1.0 24.jul.2025***

First try/First Creation

## Intro

### ***Goal***

Use Raspi at master side for camera and Jenkins

### ***Setup 4 Raspi Imager***

Setup Standard OS with desktop; without recommended Software.

Before burning image select:

Hostname: aekarina

SSH User: aegiselle

SSH Password: wlwpf1030

WIFI: nothing

TimeZone: Eu/Berlin

Keyboard; de

## ***Raspi-config***

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

Sudo reboot

## ***Copy files to target***

```
scp -v %USER%@%TARGET%:~
```

Make scripts executable

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

## ***Update System***

Execute install\_basics.sh script (as root)

```
apt update
```

```
apt full-upgrade -y
```

```
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 mc -y
```

```
apt install telnet -y
```

## ***Run setup script***

## **Jenkins**

Follow instructions from

<https://pkg.jenkins.io/debian/>

nach reboot erreichbar mit

`http://aekarina.kwangya:8080/`

Found initial password

Paste into browser

## User anlegen

Aegiselle

wlwpf1030

(rest dummy info)

## Change HTTP Port

`/etc/default/jenkins`

edit as root

`HTTP_PORT=80`

## Other

Edit systemd config file in

`/lib/systemd/system/jenkins.service`

`Environment="JENKINS_PORT=80"`

`AmbientCapabilities=CAP_NET_BIND_SERVICE`

check

`netstat -tan`

## Video cameras

Show with

`ffplay -fs /dev/video0`

## Questions

Jenkins in headless environment

How to know which video channels exists

## Info

Location 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***