

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`

OpenSSH in Windows

Location

`c:\Windows\System32\OpenSSH`

Ssh files:

09.04.2025	13:31	430.080	scp.exe
09.04.2025	13:31	457.728	sftp.exe
09.04.2025	13:31	602.624	ssh-add.exe
09.04.2025	13:31	553.984	ssh-agent.exe
09.04.2025	13:31	861.184	ssh-keygen.exe

09.04.2025	13:31	661.504	ssh-keyscan.exe
09.04.2025	13:31	514.048	ssh-pkcs11-helper.exe
09.04.2025	13:31	653.312	ssh-sk-helper.exe
09.04.2025	13:31	1.246.208	ssh.exe

SSH to installation

On Computer A the client pack and raspi at kwangya installations are generated,
More than one client packs are given users at Computers B and C.
The terminal accesses at B and C must be ready without more ssh actions.
Terminal access with a simple call of a prepared batch file.
Name of user and computer at B and C must be unimportant.
Users must NOT know what is ssh; they got a one click method to get a terminal.
No files at HOME\$/.ssh on computers B and C.
Everything what is necessary to get terminal must be usage ready in the prepared client pack.

Questions

Jenkins in headless environment

How to know which video channels exist

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