Install Raspi left Unnie Side

History

V 0.1.1 30.jul.2025

Ssh keys

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

Installation

Generate keys

```
ssh-keygen -N "" -t rsa -f aegiselle_sshkey
```

Raspi-config

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

Sudo reboot

Preparations inside raspi

```
scp -i aegiselle_sshkey install_basics.sh aegiselle_sshkey.pub
aegiselle@aekarina.kwangya:~
```

Make scripts executable

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

Update System

Execute install_basics.sh script (as root)

```
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 mc -y
```

Jenkins

Follow instructions from

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

Step1

```
sudo wget -O /etc/apt/keyrings/jenkins-keyring.asc https://pkg.jenkins.io/debian/jenkins.io-2023.key
```

Step2

```
echo "deb [signed-by=/etc/apt/keyrings/jenkins-keyring.asc]" https://pkg.jenkins.io/debian binary/ | sudo tee
/etc/apt/sources.list.d/jenkins.list > /dev/null
```

Step3

```
sudo apt-get update

sudo apt-get install fontconfig openjdk-17-jre (already in)

sudo apt-get install jenkins
```

nach reboot erreichbar mit

http://aekarina.kwangya:8080/

nach port Umlegung erreichbar mit

http://aekarina.kwangya

Found initial password
Paste into browser

Change HTTP Port of jenkins

Edit systemd config file in

/lib/systemd/system/jenkins.service

Environment="JENKINS_PORT=80"

AmbientCapabilities=CAP_NET_BIND_SERVICE

First start of jenkins

Get initial password

sudo cat /var/lib/jenkins/secrets/initialAdminPassword

After initial password:
Install suggested plugins

Install first admin account

     aegiselle

     wlwpf1030

Not successful editing of

     /etc/default/jenkinssudo

edit as root

HTTP_PORT=80

check

     netstat -tan

Video cameras

Show with

     ffplay -fs /dev/video0

Appendix

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 generatet,
More than one client packs a re given users at Computers B and C.
The terninal 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.

Fuck

Bad permissions at windows after copying key files

Questions

Jenkins in headless environment

How to know which video channels exists

Options

Telnet server

Install

```
sudo apt install telnetd xinetd
```

Edit create file as root

```
/etc/xinetd.d/telnet
```

content

```
service telnet
{
 disable      = no
 flags        = REUSE
 socket_type    = stream
 user         = root
 wait         = no
 server       = /usr/sbin/telnetd
 log_on_failure  += USERID
 port         = 23
}
```

Check with

```
sudo systemctl restart xinetd
sudo systemctl status xinetd
netstat -tan
```

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

Profiles

Other