

E2OD

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Terminal

Setup

- Ubuntu 24.04 Server
- minified install
- proper network config (set ETHs optional)
- add ssh keys
- disable password auth
- add fbcon=rotate:1 to GRUB_CMDLINE_LINUX_DEFAULT

```
GRUB_CMDLINE_LINUX_DEFAULT="fbcon=rotate:1"
```

- hit update-grub
- apt update && apt upgrade && apt -y install less nano lightdm lightdm-autologin-greeter
- adduser public
- edit /etc/lightdm/lightdm.conf.d/lightdm-autologin-greeter.conf

```
# you really have to configure the below, otherwise
```

```
# LightDM auto-login will fail...
```

```
autologin-user=public
```

```
# put any session from /usr/share/xsessions (strip .desktop from the file names there)
```

```
# here, if you want to run any other session than x-session-manager
```

```
autologin-session=e2od
```

- add /etc/lightdm/lightdm.conf.d/99-custom.conf

```
[Seat:*]
```

```
greeter-session=lightdm-autologin-greeter
```

- add /usr/share/xsessions/e2od.desktop

```
[Desktop Entry]
```

```
Name=Kiosk Browser Session
```

```
Comment=Kiosk Browser
```

```
Exec=/usr/share/xsessions/kiosk.sh
```

TryExec=/usr/bin/chromium-browser

Type=Application

- add /usr/share/xsessions/kiosk.sh

```
#!/usr/bin/env bash
# place this file in
# /usr/share/xsessions/kiosk.sh
# and make it executable

# switch off power management and screen saver
xset -dpms
xset s off
xrandr -o right
xinput set-prop "10" --type=float "Coordinate Transformation Matrix" 0 1 0 -1 0 1 0 0 1
xinput set-prop "11" --type=float "Coordinate Transformation Matrix" 0 1 0 -1 0 1 0 0 1

# detect screen size
#SIZE=`xrandr | awk '/\*\+/ {print $1}' | sed 's/x/,/'`
SLEEPTIME="0.2s"
STARTURL="http://example.com"

# restart browser if stopped
while true; do

chromium-browser --incognito --no-first-run --no-message-box \
    --noerrdialogs --disable-translate --default-browser \
    --start-maximized --window-position=0,0 --window-size=1200,1920 \
    --no-default-browser-check --kiosk $STARTURL

sleep $SLEEPTIME;
done
```

- chmod +x /usr/share/xsessions/kiosk.sh

sketching

toggle display

- `xset -display :0.0 dpms force on`
- `xset -display :0.0 dpms force off`

IPs

fwl402.hda.tu-darmstadt.de

- eth0 130.83.75.49/29, Gateway: 130.83.75.54, DNS: 130.83.22.60, 130.83.22.63, 130.83.56.60
- eth1 10.13.0.254/24 Camnet
- eth2 10.13.1.254/24 Client Net
- eth3 192.168.1.1/24 Spare
- eth4 10.13.3.1/24 Misc Net

Camnet

DHCP: off

- 10.13.0.10 cam1
- 10.13.0.11 cam2
- 10.13.0.12 cam3
- 10.13.0.13 cam4
- 10.13.0.254 fwl402.hda.tu-darmstadt.de

Client Net

DHCP: 150-160 and 1-10 based on MAC

- 10.13.1.1/24 client01 94:05:bb:10:cf:91 401199/
- 10.13.1.2/24 client02 98:fc:84:e3:20:af 401199/
- 10.13.1.3/24 client03 94:05:bb:10:d0:7f 401199/
- 10.13.1.4/24 client04 98:fc:84:e4:43:00 401199/
- 10.13.1.5/24 client05 98:fc:84:e4:3f:69 401199/
- 10.13.1.6/24 client06 94:05:bb:10:d0:64 401199/
- 10.13.1.7/24 client07 94:05:bb:10:d2:b0 401199/
- 10.13.1.8/24 client08 84:05:bb:19:52:b2 401199/
- 10.13.1.9/24 client09 98:fc:84:e3:9d:d8 401199/
- 10.13.1.10/24 client10 94:05:bb:10:cf:14 401199/

- 10.13.1.254/24 fw/402.hda.tu-darmstadt.de

Spare Net

DHCP: on 100-150

For maintenance purposes.

- 192.168.1.254 fw/402.hda.tu-darmstadt.de

Misc Net

DHCP: off

- 10.13.3.1/24 ServicePoint
- 10.13.3.2/24 AccessPoint
- 10.13.3.3/24 Printer
- 10.13.3.4/24 Thomas
- 10.13.3.20/24 ESP Keypad
- 10.13.3.21/24 ESP Unlocker
- 10.13.3.22/24 ESP Window
- 10.13.3.23/24 ESP ServicePoint
- 10.13.3.254/24 fw/402.hda.tu-darmstadt.de