Flashed the pi with ubuntu server 24.04.1 LTS 64-bit and default settings.

Commands ran in order were:

sudo apt update

sudo apt upgrade

—-- WIFI INSTALL —---

sudo apt install network-manager unzip

lsblk

lsblk

mkdir ~/usb_stick sudo mount /dev/sda1 ~/usb_stick

cp -r ~/usb_stick/eduroam.zip ~/.

sudo umount /dev/sda1

unzip eduroam.zip

cd ~/eduroam

sudo chmod +x setup.sh

sudo ./setup.sh

—-- GUI INSTALL —----

sudo apt install xfce4 xinit firefox

sudo apt-get install lightdm

sudo apt-get install ubuntu-session

sudo usermod -a -G tty ubuntu

sudo vim /etc/X11/Xwrapper.config

sudo vim /etc/lightdm/lightdm.conf

sudo reboot

—---- ESP23C3 SETUP & CODING —---

sudo apt-get install fish neovim g++ git wget \

  flex bison gperf python3 python3-venv cmake \

  ninja-build ccache libffi-dev libssl-dev \

  dfu-util libusb-1.0-0

mkdir -p ~/esp

cd ~/esp

```
git clone --recursive https://github.com/espressif/esp-idf.git
cd ~/esp/esp-idf
./install.sh esp32c3
. export.sh
cp -a examples/get-started/hello_world ~/esp/
cp -a examples/get-started/blink ~/esp/
cd ~/esp/hello_world/main
vim hello_world_main.c
cd ..
idf.py set-target esp32c3
sudo usermod -aG tty ubuntu
sudo usermod -aG dialout ubuntu
newgrp dialout
idf.py -p /dev/ttyACM0 flash monitor
cd ~/esp/esp-idf
./install.sh esp32c3
. export.sh
cd ~/esp/blink
idf.py set-target esp32c3
idf.py menuconfig
sudo usermod -aG tty ubuntu
sudo usermod -aG dialout ubuntu
newgrp dialout
idf.py -p /dev/ttyACM0 flash monitor
```

All parts of this lab ran relatively smoothly. Wifi was obtained through a usb stick and everything else was done from the command line.