Raspberry Pi Setup

1. Flash most recent version of RaspberryPi OS Lite 64-bit (headless). Use advanced options to set up user profile, ssh, wireless, etc.
2. Once booted, ssh into machine using:

﻿ssh krzwier@raspberrypi.local

1. Update OS and apt using:

sudo apt update

sudo apt full-upgrade

1. Install the following packages:

sudo apt install git-all

sudo apt install openbox

sudo apt install xorg

sudo apt install xinit

sudo apt install x11-xserver-utils

sudo apt install chromium-browser

1. Use Raspberry Pi Software configuration tool for autologin:

sudo raspi-config

1 System Options

> S5 Boot / AutoLogin

> B2 ConsoleAuto login

1. Rotate boot screen by adding the following to /boot/cmdline.txt:

fbcon=rotate:3

1. Change automatic display settings by adding the following lines to /etc/xdg/openbox/autostart:

# Disable power management

xset -dpms

# Remove mouse pointer

startx -- -nocursor

# Rotate screen left 90 degrees

xrandr --output HDMI-1 --rotate left

1. Add touchscreen rotation matrix in /usr/share/X11/xorg.conf.d/40-libinput.conf:

Section "InputClass"

Identifier "Coordinate Transformation Matrix"

MatchIsTouchscreen "on"

MatchDevicePath "/dev/input/event\*"

MatchDriver "libinput"

Option "TransformationMatrix" "0 -1 1 1 0 0 0 0 1"

EndSection

1. Install nvm, node, npm packages:

curl -sL https://raw.githubusercontent.com/nvm-sh/nvm/v0.35.0/install.sh -o install\_nvm.sh

bash install\_nvm.sh

﻿nvm install –lts

﻿npm install knex -g

1. Clone family-command-center repo from github, cd into folder, and run:

npm install

1. Make and seed database:

knex migrate:latest

knex seed:run

1. Create bash script in home directory: start-family-command-center.sh

#!/bin/bash

cd /home/krzwier/family-command-center

echo "Starting family command center api ..."

/home/krzwier/.nvm/versions/node/v18.16.0/bin/npm run server &

sleep 10

echo "Starting family command center front end ..."

/home/krzwier/.nvm/versions/node/v18.16.0/bin/npm start &

sleep 30

DISPLAY=:0 chromium-browser --kiosk http://localhost:3000 &

1. Make script executable

chmod u+x start-family-command-center.sh

1. Create service to run script on boot: /etc/systemd/system/family-command-center.service

[Unit]

Description=Family Command Center Server

[Service]

WorkingDirectory=/home/krzwier/family-command-center

ExecStart=/bin/bash /home/krzwier/start-family-command-center.sh

Restart=oneshot

StandardOutput=tty

StandardError=tty

SyslogIdentifier=FamilyCommandCenterServer

RemainAfterExit=yes

User=krzwier

Group=krzwier

[Install]

WantedBy=multi-user.target

1. Start and enable service:

sudo systemctl start family-command-center.service

sudo systemctl enable family-command-center.service

1. Download github cli: <https://github.com/cli/cli/blob/trunk/docs/install_linux.md>
2. Create cron job for saving points
3. Create cron job for downloading work calendar