Helpful Links:
https://peppe8o.com/raspberry-pi-imager/
https://www.raspberrypi.com/documentation/computers/remote-access.html#ssh
https://www.raspberrypi.com/software/
https://community.n8n.io/t/docker-install-of-n8n-requires-login-what-is-it/23786
https://www.realvnc.com/en/connect/download/viewer/

note* control v wont work on raspberry PI terminal. You need to right click and paste

During set up of Raspberry PI allow SSH and set to password (this will be your raspberry PI Password)
Also ensure set up on internet connect your pc has access to

Get your Raspberry PI ip address by logging into your modem and looking at the connected devices. It can take 1-2 minutes to show up after turning your raspberry PI on

Open terminal
Use command ssh (raspberrypiname)@ipaddress
Example:
ssh testuser@123.123.1.1

Once connected enter command
sudo raspi-config

Go down to Interface options press enter

VCN - enter

Enable - yes

Use esc to go back and exit out of this menu

If you are getting an error message due to keygen run this command:
ssh-keygen -R <RaspberryPI IP Address>

Open Real VNC Viewer
Download from
https://www.realvnc.com/en/connect/download/viewer/?lai_vid=K9yPNX9zkHXvk&lai_sr=0-4&lai_sl=l
- create an account if needed

Click file - new connection

VNC server is the IP address for your raspberry pi from before

You can name it if you like, leave the rest as is.

To log in you will need to enter the raspberry pi username and password you set up earlier

Update Raspberry PI with the below commands:

sudo apt update
sudo apt upgrade

Install Docker Compose

curl -fsSL https://get.docker.com -o get-docker.sh
sudo sh get-docker.sh

Check install:

docker --version
docker compose version

Then run

sudo usermod -aG docker $USER

Set Up n8n:

Create project directory

mkdir ~/n8n && cd ~/n8n

Add this to the compose file:

Use this command in your windows pc to send the env file:
scp "C:\Users\path\to\file\docker-compose.yml.txt"pi-name@pi-ipaddress:/home/testuser/n8n/
If you send it this way ensure you edit the file name to remove the.txt once sent to your Raspberry PI

If you are having trouble with this Chat GPT can give you the correct command just tell it the exact location of the file which you can do by right clicking on the file and choosing “copy as path”

Or
Run this command Create docker-compose.yml using

nano docker-compose.yml

Manually enter the below:

```
services:
  n8n:
        image: n8nio/n8n:latest
        container_name: n8n
        restart: always
        ports:
        - "5678:5678"
        volumes:
         - /home/<yourraspberry pi name>/n8n:/home/node/.n8n
        environment:
        - N8N_TELEMETRY_DISABLED=true
        - N8N_HOST=your raspberry pi ip
        - N8N_PORT=5678
        - N8N_SECURE_COOKIE=false
        - N8N_ENFORCE_SETTINGS_FILE_PERMISSIONS=true
        - DB_SQLITE_POOL_SIZE=1
        - N8N_RUNNERS_ENABLED=true
        - N8N_BLOCK_ENV_ACCESS_IN_NODE=false
```

Create data folder and fix permissions

sudo chown -R 1000:1000 /home/<raspberrypiname/n8n>

Then restart/log out/ log in

Start the container
Docker compose up -d

Verify it's running
docker ps

Open your browser and go to: http://your-pi-ip:5678
Log in with the email address you want associated with the account (its fine if you have used this email previously) and password from the .env/ docker compose file.