Speechtimer on Raspberry Pi
(Start with a finished image created using Raspberry Pi Imager - 64 bit/light.
In this example, the user is not named 'pi' but 'admin'.)
Update Raspberry Pi and install Python
In the terminal window (via PuTTY):
sudo apt update
sudo apt upgrade
sudo apt install python3-pip -y
pip3 installbreak-system-packages flask flask-socketio flask-httpauth eventlet
Copy Speechtimer data to the Raspberry Pi
The easiest way is to use WinSCP to copy your Python folder into the admin directory.
Path: /home/admin/speechtimer
Switch to the speechtimer directory
Run the timer:
python app.py
Set up Autostart
In the terminal window (via PuTTY):
sudo nano /etc/systemd/system/speechtimer.service
Paste and save the following text (without the lines):

[Unit]
Description=speechtimer Webserver
After=network.target
[Service]
User=admin
WorkingDirectory=/home/admin/speechtimer
ExecStart=/usr/bin/python3 /home/admin/speechtimer/app.py
Restart=always
[Install]
WantedBy=multi-user.target
Then execute these commands:
(Optional, for new users)
sudo systemctl daemon-reload
sudo systemctl enable speechtimer.service
sudo systemctl start speechtimer.service
Speechtimer on PC
In the terminal window (via PuTTY):
sudo apt update
sudo apt upgrade
sudo apt install python3-pip -y
pip3 installbreak-system-packages flask flask-socketio flask-httpauth eventlet
User: admin Password: speech123
The installation creates a user named admin in the home directory.

Check if it's running: sudo systemctl status speechtimer.service You should see "active (running)". Web Access: - http://<raspi-ip>:5050/ -> Speech Timer - http://<raspi-ip>:5050/admin -> Admin Panel Set Static LAN and WLAN IP Addresses In the terminal window (via PuTTY): sudo nano /etc/dhcpcd.conf Example configuration (editable as needed): interface eth0 static ip_address=192.168.1.210/24 static routers=192.168.1.1 static domain_name_servers=192.168.1.1 interface wlan0 static ip_address=192.168.1.211/24 static routers=192.168.1.1 static domain_name_servers=192.168.1.1 Change SSID and WiFi Password In the terminal window (via PuTTY): sudo nano /etc/wpa_supplicant/wpa_supplicant.conf Example configuration (editable as needed): ctrl_interface=DIR=/var/run/wpa_supplicant GROUP=netdev

```
update_config=1
country=DE

network={
    ssid="YourWiFiName"
    psk="YourWiFiPassword"
}
```