

Setting Up Wi-Fi for Home Assistant OS on Raspberry Pi (Without Ethernet)

Purpose:

Enable Wi-Fi connectivity on a Raspberry Pi running Home Assistant OS when Ethernet is unavailable.

Requirements:

- Home Assistant OS already flashed on microSD card
- Raspberry Pi with built-in Wi-Fi (e.g., Pi 3, Pi 4, Pi Zero W)
- A card reader and a PC/laptop
- Your Wi-Fi SSID and password

Step 1: Create Folder Structure

1. Insert the microSD card into your PC.
2. Open the partition labeled hassos-boot.
3. Create the following folder path if it doesn't exist:

CONFIG\network\

Step 2: Create my-network File

1. Inside the network folder, create a new file named:

my-network

(No .txt extension!)

2. Open the file in Notepad or VSCode.
3. Paste the following configuration, and replace Wi-Fi credentials:

```
[connection]
```

```
id=my-network
```

```
uuid=8b61a9fc-7c36-4d20-b93b-ec7f5fbf5e85
```

```
type=wifi
```

```
[wifi]
```

```
mode=infrastructure
```

```
ssid=YourWiFiName
```

```
[wifi-security]
```

```
auth-alg=open
```

```
key-mgmt=wpa-psk
```

```
psk=YourWiFiPassword
```

```
[ipv4]
```

```
method=auto
```

```
[ipv6]
```

```
method=auto
```

4. Replace:
 - YourWiFiName with your Wi-Fi name
 - YourWiFiPassword with your Wi-Fi password
5. Save the file. Ensure the filename is exactly my-network with **no file extension**.

Step 3: Insert and Boot

1. Eject the SD card from your PC safely.
2. Insert it back into the Raspberry Pi.
3. Power on the Raspberry Pi.
4. Wait 2–5 minutes for Home Assistant to boot and connect.