

WiFi-based Presence Detector - Part 1

WiFi · MAC Address · ARP Scan · CronTab

Introduction

In this lab you will use a WiFi local network and a Raspberry Pi/SenseHAT to build a device presence detector. You will scan the WiFi network for connected devices and identify them using their MAC address, the unique identifiers that devices use when communicating in a WiFi network. An application of this is to check who is home/in the office/lab (and not home) by checking if a person's smartphone has connected to the WiFi.

Equipment

- Raspberry pi 3 and SD Card installed with Raspbian
- SenseHAT
- A Wifi network with internet access
- OPTIONAL: Screen with HDMI, Keyboard, Mouse.