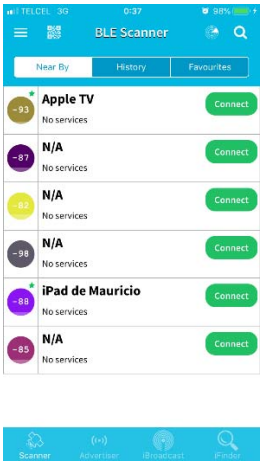
TOOLS FOR BLUETOOTH AND Wi-Fi ANALISYS

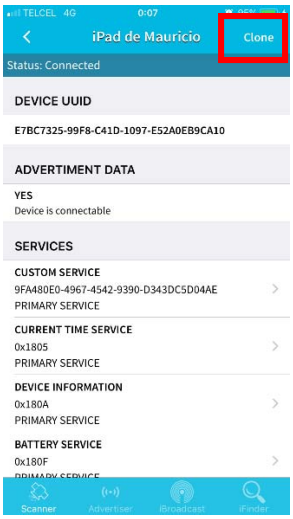
BLE Scanner

It is a very interesting and useful App created mainly to help developers to build BLE products and applications but can be used for other users to find different Bluetooth Smart Devices as it shows some device names and is the #1 Scanner tool for BLE & Peripheral, iBeacon and advertiser and Eddystone Scanner for UID, TLM, URL beacon format.
These are some of the main features offered by this app:

- ✓ Scan near by Bluetooth Low Energy, iBeacon and Eddystone devices.

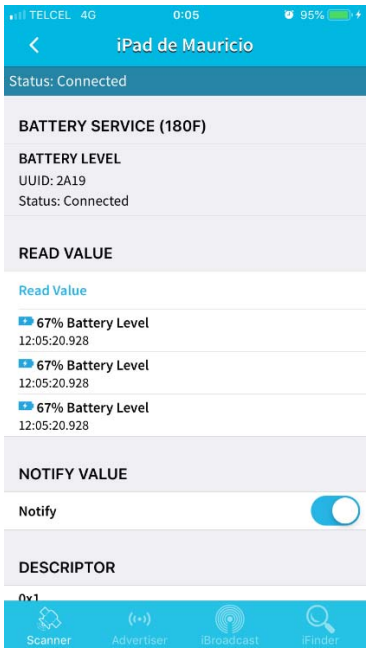


- ✓ Added Peripheral (Advertising) Mode and make clone of connected central.

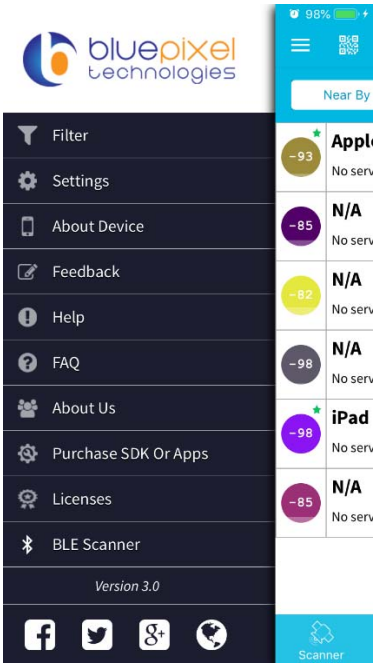


- ✓ Create your custom peripheral, Add custom services & characteristics.
- ✓ Advertise your phone as virtual peripheral device using standard SIG profile and custom cloned devices.

✓ Customize Eddystone configuration for UID, URI and TLM.
Eddystone-URL is used by the Physical Web project, whereas **Eddystone-UID** is typically used by native apps on a user's device, including Google's first party apps such as Google Maps, (Eddystone-TLM) contains a telemetry frame designed for reporting on a beacon's health, including, for example, battery level

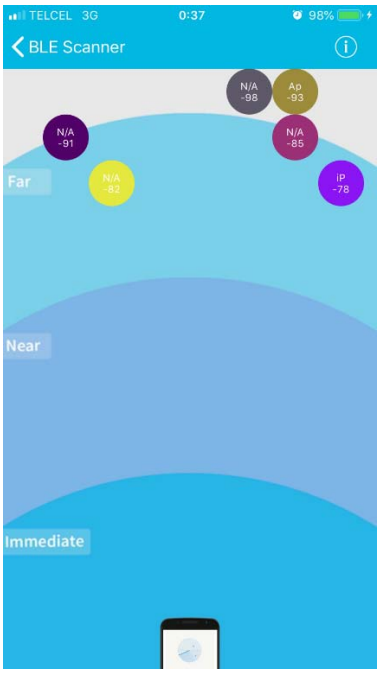


✓ Filter devices by Name and RSSI.

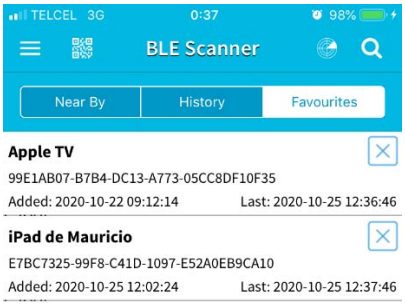


✓ History of all devices discovered. Find out which device was discovered when with discovery Time and Delete History options in history tab

✓ RSSI Pool helps to find out how far your devices are. Lower the number the closer you are to the source i.e. -25 very near and -80 is far from your BLE devices.

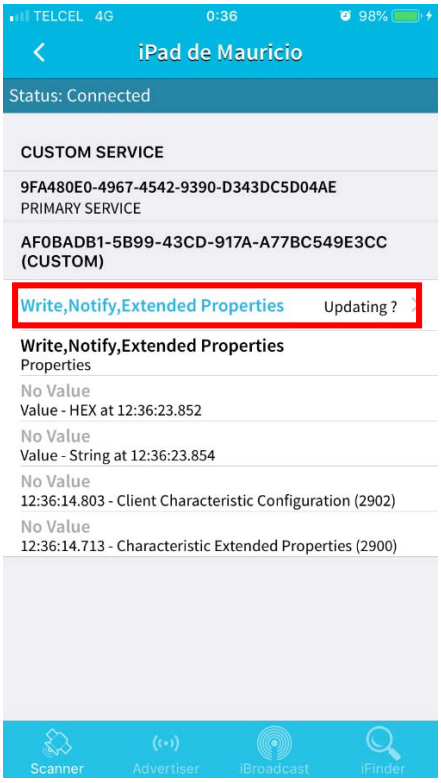


✓ Favorites your devices.



✓ Explore Services & Characteristics of connected device.

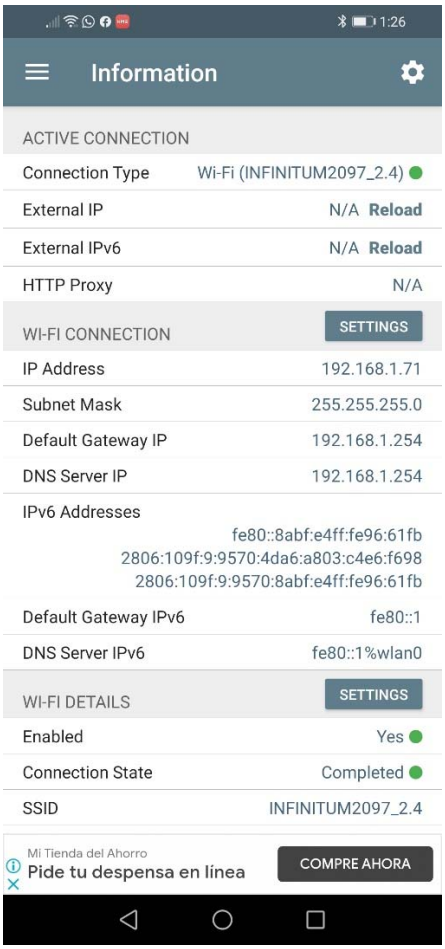
✓ Perform Read, Write, Notify & Indicate.

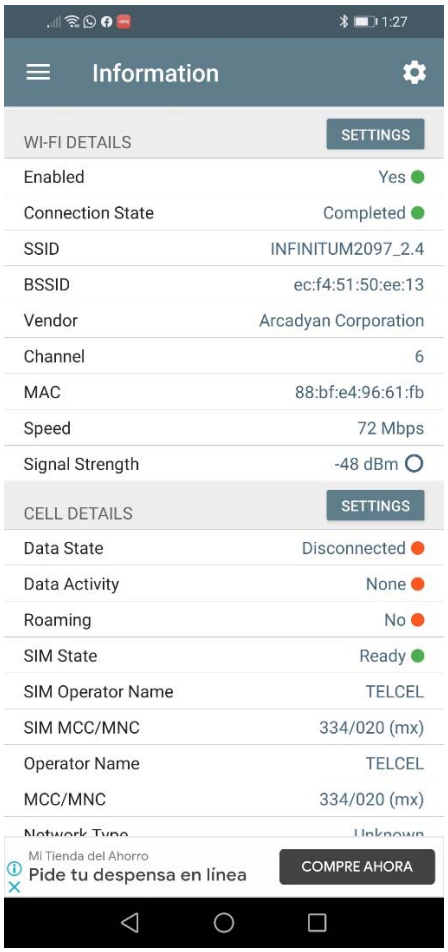


✓ Check device compatibility for BLE

Network Analyzer

It is a very useful tool to get information from your wireless network. With the information provided, you can analyze, diagnose and solve problems in your network or internet connectivity.
The tools included can help to discover the devices connected manufacturers and names.
These are some examples of the information you can get from the Network Analyzer:

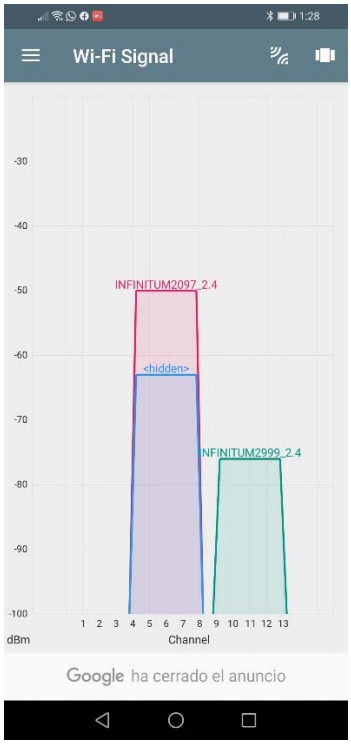


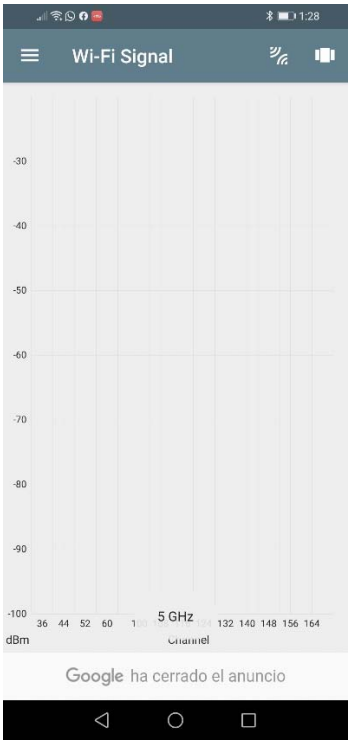


- Connection Type
- SSID
- BSSID
- Vendor
- Speed
- Security
- Encryption
- Channel

The WiFi signal page shows all the Wi-Fi networks in the neighborhood with their signal strengths, associated channel and other information as shown below

- Channel
- Signal Strength
- Band (2.4GHz / 5 GHz)





With LAN Scan feature will show you a list of all discovered devices together with the network name. Each entry contains the device name when available, IP, MAC address and manufacturer. In addition, some device properties are displayed using color flags:

- P – pingable (green): the device responds to ICMP ping requests
- B – Bonjour (brown): the device provides Bonjour services
- U – UpnP/DLNA (blue): the device provides UPnP/DLNA services
- G – Gateway (red): the device is a gateway
- S – Scanning device (yellow): the devie from which you perform the scan
- 6 – IPv6 (purple): there are known IPv6 addresses for the device
- W- Web interface available (cyan): port 80 or port 443 open

EC2 (Elastic Compute Cloud)

This is a central part of Amazon´s Cloud computing platform that allows users to rent virtual computers to run their own applications and at the same time the scalability to increase tha capacity any time when is needed.
EC2 encourages scalable deployment of applications by providing a web service through which a user can boot an Amazon Machine Image (AMI) to configure a virtual machine, which Amazon calls an "instance", containing any software desired.
It was very easy for me to create my first the instance in AWS, I was guided through the process step by step with very simple actions to finally be ready in 3 minutes approximately.
I am very excited to star using this instance and take advantage of the cloud for my future projects