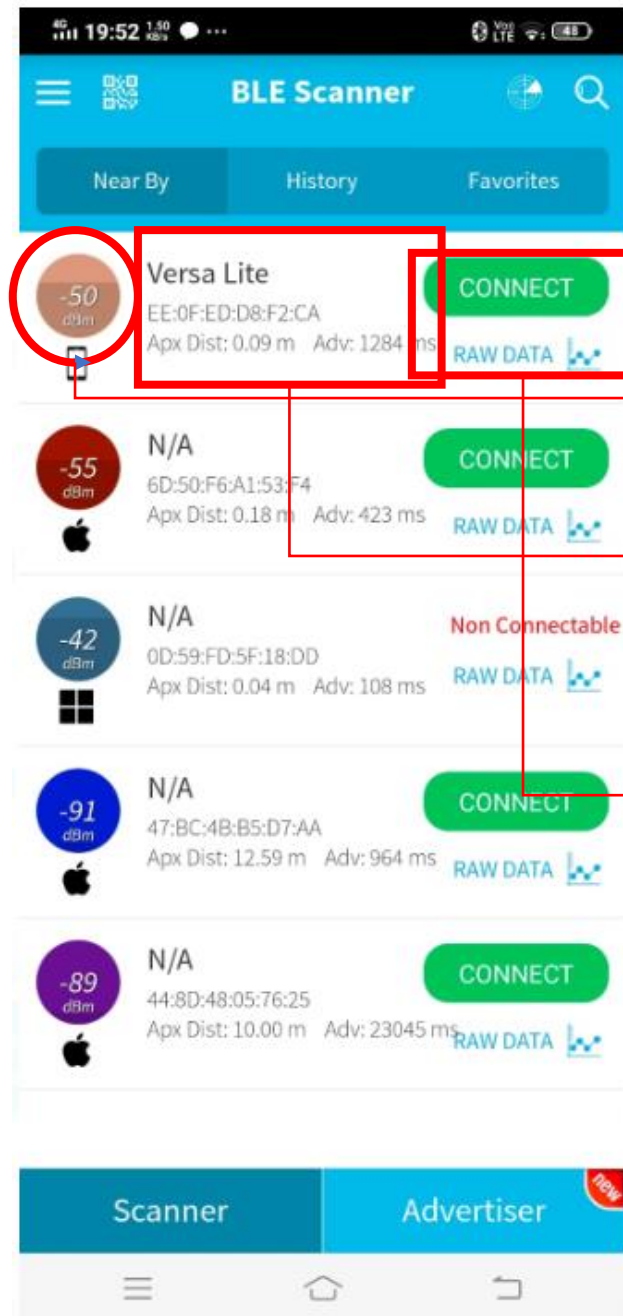# IOT Bluetooth & WiFi and EC2 cloud Project
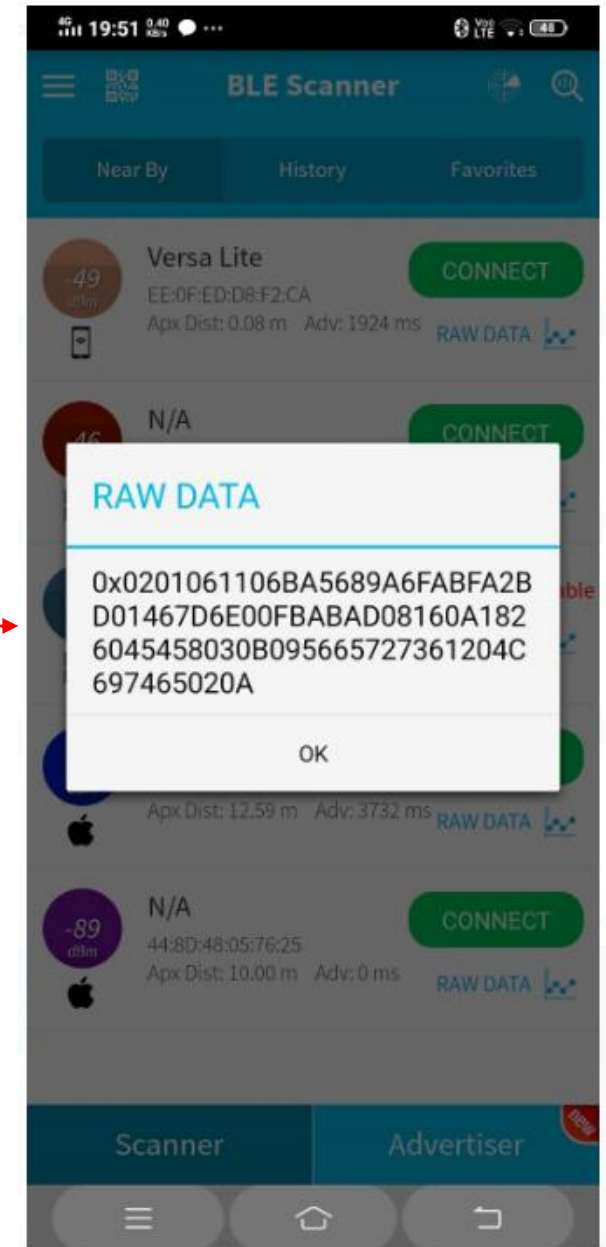
-Created by Anirban Chatterjee

Blue Tooth Scan Project

Packet information

1. RSSI of -50 (much lesser than 0 dbm)

2. Device Name: Versalite
   Device MAC address
   EE:0F:ED:D8:F2:CA
   Apx Dist: 0.09m Adv:1284ms

3. Raw Data (Hexadecimal)

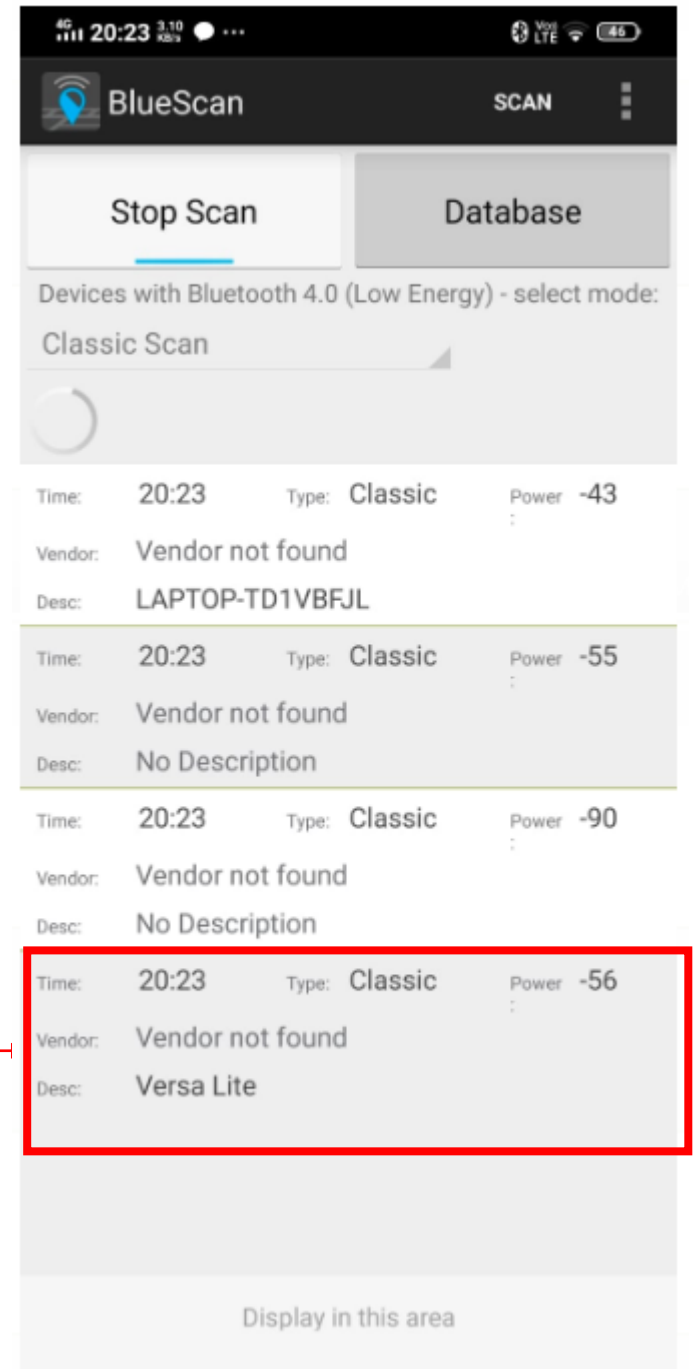RAW DATA

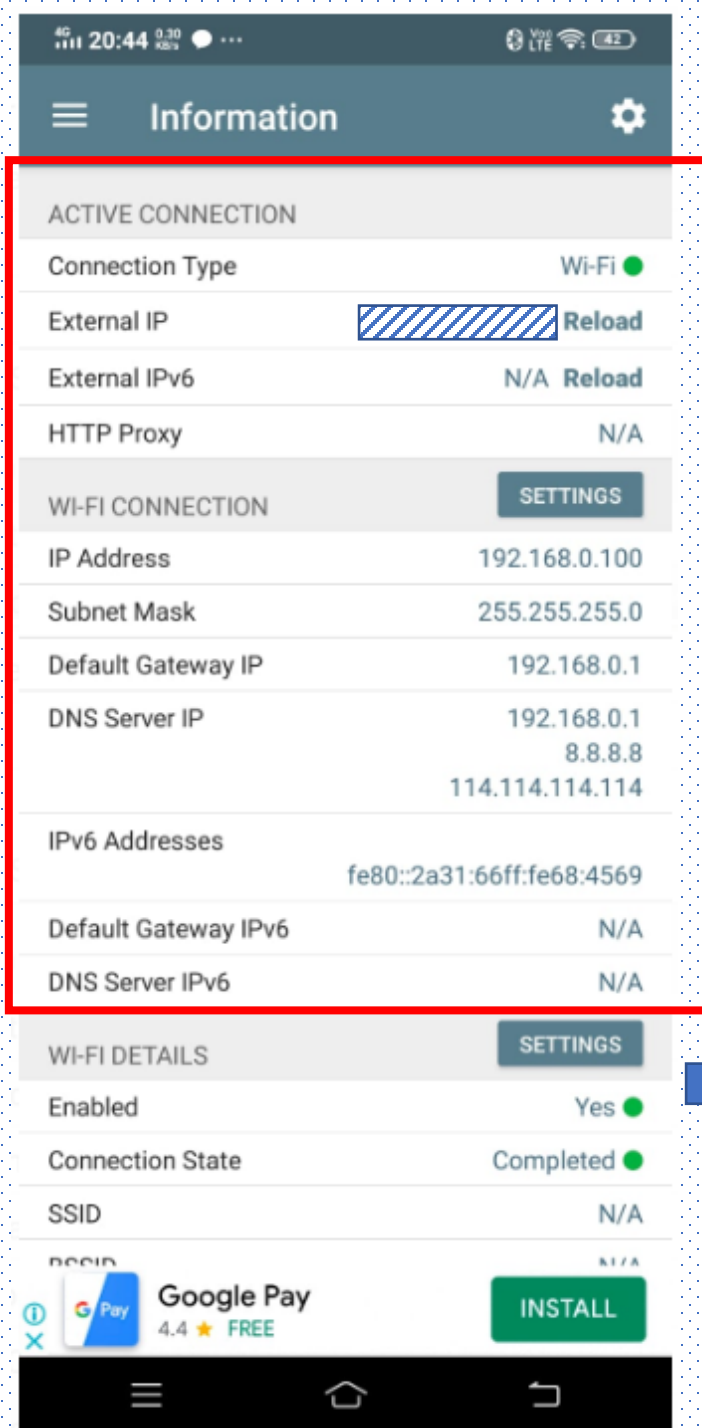0x0201061106BA5689A6FABFA2B
D01467D6E00FBABAD08160A182
6045458030B095665727361204C
697465020A

OK

Estimate distance from Device

The device is at an immediate range

Bluetooth Scan 2 Project

Vendor name and description displayed

Wifi analysis project

ACTIVE CONNECTION

Connection Type	Wi-Fi ●
External IP	Reload
External IPv6	N/A Reload
HTTP Proxy	N/A

WI-FI CONNECTION SETTINGS

IP Address	192.168.0.100
Subnet Mask	255.255.255.0
Default Gateway IP	192.168.0.1
DNS Server IP	192.168.0.1
	8.8.8.8
	114.114.114.114
IPv6 Addresses	
	fe80::2a31:66ff:fe68:4569
Default Gateway IPv6	N/A
DNS Server IPv6	N/A

WI-FI DETAILS SETTINGS

Enabled	Yes ●
Connection State	Completed ●
SSID	N/A

Connection details

DNS Server IPv6	N/A

WI-FI DETAILS SETTINGS

Enabled	Yes ●
Connection State	Completed ●
SSID	Anitooks
BSSID	70:4f:57:d0:ea:c4
Vendor	TP-LINK TECHNOLOGIES CO.,LTD.
Channel	10
MAC	28:31:66:68:45:69
Speed	1 Mbps
Signal Strength	-80 dBm ○

Key	Value	Description
SSID	Anitooks	WiFi ID
Channel	10	PHY channel
IP address	192.168.0.100	Internal address
Speed	1mbps	Link datarate
Signal strength	-80dBm	RSSI

Lan Scan

LAN Scan — Scan

ANITOOKS (5)

TL-WR840N
192.168.0.1   70:4f:57:d0:ea:c4 >
TP-LINK TECHNOLOGIES CO.,LTD.   G W U P

vivo 1804
192.168.0.100   28:31:66:68:45:69 >
vivo Mobile Communication Co., Ltd.   S 6 P

Anirbans-iPad
192.168.0.102   c4:2a:d0:dc:68:fd >
Apple, Inc.   P

192.168.0.105   30:57:14:d4:96:a7 >
Apple, Inc.   P

192.168.0.106   0c:96:e6:a2:fc:7b >
Cloud Network Technology (Samoa) Limited

Ping with IP

21:09

← Ping — Stop

192.168.0.1 (42)

● 42	192.168.0.1	7.2 ms
● 41	192.168.0.1	3.1 ms
● 40	192.168.0.1	5.5 ms
● 39	192.168.0.1	24.5 ms
● 38	192.168.0.1	8.3 ms
● 37	192.168.0.1	0.5 ms
● 36	192.168.0.1	5.7 ms
● 35	192.168.0.1	14.1 ms
● 34	192.168.0.1	368.5 ms
● 33	192.168.0.1	2.9 ms
	192.168.0.1	3.2 ms

Wi Fi Signal Scan

21:11

≡ Wi-Fi Signal

2.4 GHZ   SETTINGS

10	Anitooks	-81 dBm
	70:4f:57:d0:ea:c4	WPA2 (AES)
	TP-LINK TECHNOLOGIES CO.,LTD.	40 MHz, WPS

11	Meeshu	-87 dBm
	98:de:d0:f6:e8:16	WPA2/WPA (AES)
	TP-LINK TECHNOLOGIES CO.,LTD.	40 MHz, WPS

6	Chavhan	-91 dBm
	98:de:d0:e0:91:a8	WPA2 (AES)
	TP-LINK TECHNOLOGIES CO.,LTD.	40 MHz, WPS

1	TP-Link_8396	-91 dBm
	d8:07:b6:12:83:96	WPA2 (AES)
	TP-LINK TECHNOLOGIES CO.,LTD.	40 MHz, WPS

RSSI -81dBm
SSID Anitooks
Encryption: WPA2(AES)
Bandwidth: 40MHz
PHY channel: 10th channel

Wifi Signal Channel Graphs
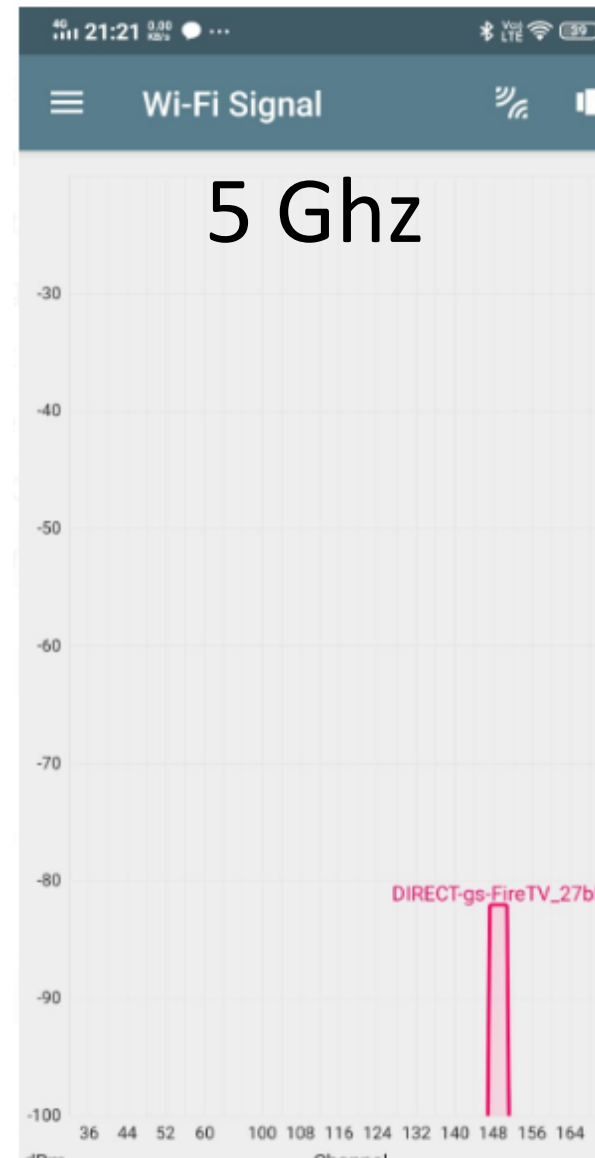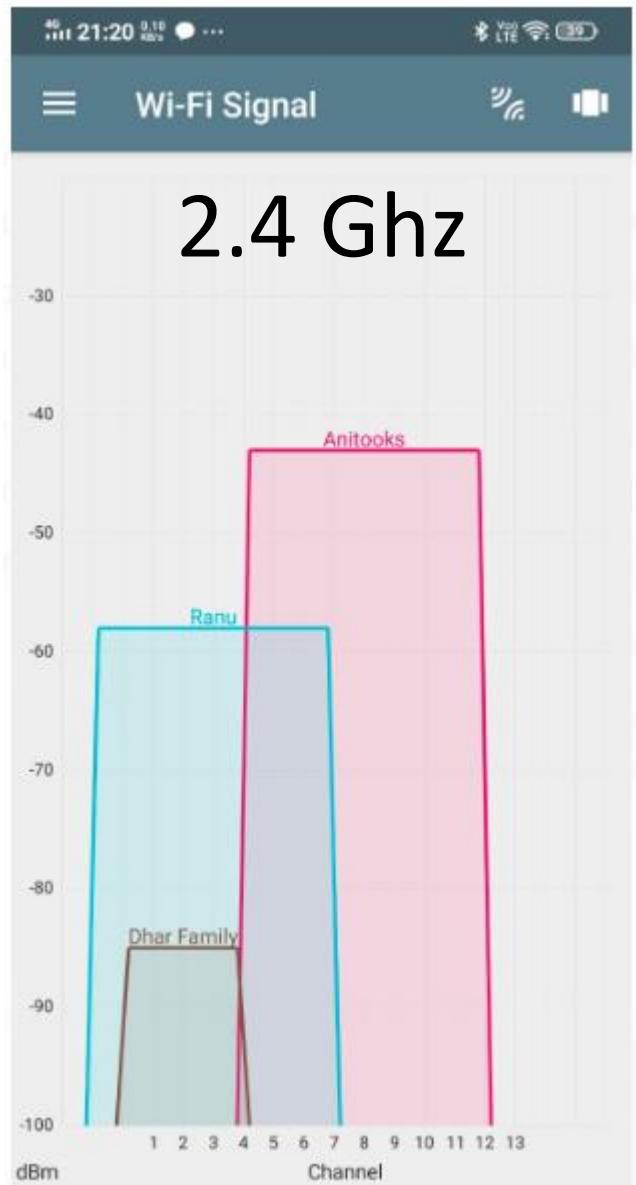
AWS EC2 Project

Created the cloud computing amazonaws remote desktop on Windows 2019