

Create your own Shodan scanner for your terminal

Attack 1: Get your IP

```
Please login/register at https://account.shodan.io/login for generation of an API key
Go to https://account.shodan.io/ to view your API key
Enter your API key: 3dQLV49HPQriHm4Xj3l6zR9reo5xsGc7
You have 4 options:
[1] Get your IP
[2] Scanning a specific Host
[3] Shodan Search to scan IPs, Hostnames, ports
[4] Quit
Enter your option: 1
92.96.45.183
```

Code:

```
if option == 1:
    ip = api.tools.myip()
    print(ip)
```

Attack 2: Scanning a specific host

```
Enter your option: 2
Input a IP address for scanning: 92.96.45.183
Hostname: 92.96.45.183
City: Abu Dhabi
Country: United Arab Emirates
Organization: Emirates Telecommunications Corporation
Operating System: Unix
Latitude: 24.466700000000003
Longitude: 54.366700000000001
Port: 445
```

Code:

```
elif option == 2:
    host_ip = input("Input a IP address for scanning: ")
    scan = api.host(host_ip, history=True)
    print("Hostname: ", " "*9, scan['hostnames'])
    print("City: ", " "*13, scan["city"])
    print("Country: ", " "*10, scan["country_name"])
    print("Organization: ", " "*5, scan["org"])
    print("Operating System: ", " "*1, scan["os"])
    print("Latitude: ", " "*9, scan["latitude"])
    print("Longitude: ", " "*8, scan["longitude"])
    print("Port: ", " "*13, scan["data"][0]["port"])
```

Attack 3: Shodan Search to scan IP, Hostnames, ports

```
Enter your option: 3
Query to be searched: fedora
```

IP	Port	Organization
121.201.0.37	9001	China Telecom Guangdong
212.142.253.59	80	Euskaltel S.A.
173.0.186.241	80	Techie Hosting
80.96.120.30	80	Institutul National de Cercetare-Dezvoltare in inf
137.122.89.28	80	University of Ottawa
217.13.199.48	80	Speedbone Internet & Connectivity GmbH
162.197.254.10	80	AT&T Internet Services
183.87.255.42	80	P4networks pvt ltd.
78.129.244.229	80	Iomart Hosting Limited
173.0.181.241	80	Techie Hosting
41.65.116.133	143	Etisalat Misr
45.251.113.120	110	Superdata
104.236.234.153	80	Digital Ocean
94.32.67.60	80	Tiscali SpA
150.243.160.168	873	Truman State University
81.210.86.85	8080	Netia SA
52.87.67.102	80	Amazon.com
174.3.230.0	80	Shaw Communications
216.235.239.31	110	Kinex Networking Solutions
60.217.101.68	8090	China Unicom Shandong
129.110.131.21	80	University of Texas at Dallas
189.123.111.228	995	NET Virtua
204.8.224.243	8080	Beehive Broadband, LLC
180.131.125.196	80	freebit
195.83.197.3	993	Universite Toulouse 1 Capitole
93.87.71.26	80	Telekom Srbija
69.61.92.132	80	Cyber Wurx LLC
129.7.128.190	80	University of Houston
188.130.33.9	80	CTS Computers and Telecommunications Systems SAS
45.79.68.47	80	Linode
35.177.148.63	80	Amazon Data Services UK

This image is not complete, but you get the idea :)

Code:

```
elif option ==3:
    search = input("Query to be searched: ")
    scan = api.search(search)
    x = PrettyTable()
    x.field_names = ["IP", "Port", "Organization"]
    for i in scan['matches']:
        a = i['ip_str']
        b = i['port']
        c = i['org']
        x.add_row([a,b,c])
    print(x)
```