

## Networking Fundamentals

### **Spoofing of MAC Address in Kali Linux with macchanger command :**

To spoof your MAC address first ensure to put your interface down with following syntax.

```
ifconfig <interface> down
```

for example: `ifconfig eth0 down`

After your interface is down then you can go ahead for spoofing with macchanger command with following syntax.

```
macchanger <interface> <option>
```

In macchanger there are various options available as follows

- e: Stands for ending it only spoofs the ending octates and starting octates remains same.
- a: It spoofs the complete MAC address but for same kind of device that you are using.
- A: It spoofs the complete MAC address and it can be for any kind of devices randomly.
- r: It stands for random. It spoofs your complete MAC address randomly and it gives you a non-existing MAC address.
- m: It stands for manual. Here you can enter whichever MAC you want to spoof manually.
- p: It stands for permanent. It restores your original MAC address back.
- l: It stands for list. It displays the content of the DB that stores all MAC address series and their vendor names.

For example:

```
macchanger eth0 -e
```

```
macchanger eth0 -m 00:11:22:33:44:55
```

## **Spoofing of IP Address in Kali Linux:**

To spoof IP address, there are so many techniques that can be used.

### **1) Using of online proxy servers:**

There are so many online proxy servers available for free using them can help us in spoofing and hiding your real location. Some of popular proxy servers are as follows.

[www.anonymouse.org](http://www.anonymouse.org)

[www.kproxy.com](http://www.kproxy.com)

[www.hidemyass.com/proxy](http://www.hidemyass.com/proxy)

### **2) Using a TOR Browser:**

You can use a TOR browser that's built on Firefox and completely free and available for all the platforms. Searching for a TOR hidden wiki can provide various hidden URL that can be browsed with the help of TOR browser.

### **3) Using of a VPN:**

You can use VPN to make your IP address spoofed on system wide. There are so many VPN services are available most of them are paid services. Few of free VPN are as follows

Hotspot Shield VPN

Cyberghost VPN

Hola VPN

Opera VPN (Available as app on android/iOS or built in Opera web browser)