FIRST EDITION – 0.1 release

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Forward

If you are looking to set up a Kali instance that will properly randomize your MAC address on boot and between connection drops in addition to installing and enabling the Tor service on boot then this is your guide.

Network Manager will reset your MAC address with every drop in connection. To ensure that a MAC address stays persistently obfuscated we will follow the below outlined in this text. Credit to **GoBlack**, a member of forms.kali.org for this solution as we will make some minor mods. You can view the full posting here → https://forums.kali.org/showthread.php?36072-SOLVED-Could-not-change-MAC-amp-Setup-Macchanger-autospoofing-randomization-in-Kali.

In addition to obfuscating your MAC address you want to setup and enable Tor by default on ALL services not just your browser. This tutorial will NOT teach you how to set up the Tor browser as there are ample solutions and tutorials on this subject that I RECOMMEND you follow as well in addition to this brief guide. We will focus on how to setup the Tor service and use proxychains to properly enable anonymity everywhere.

This tutorial assumes you have an active Kali instance installed on either an ARM device such as a Raspberry Pi or an x86/x64 device.

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Chapter 1: Setup Persistent MAC Obfuscation

STEP 1: Properly Setup Required Packages

```
sudo apt-get remove macchanger -y
sudo apt-get install macchanger fern-wifi-cracker -y
```

STEP 2: Create A New Startup Service

```
sudo nano /etc/systemd/system/macspoof@.service
```

STEP 3: Populate The File

```
[Unit]
Description=macchanger on %I
Wants=network-pre.target
Before=network-pre.target
After=sys-subsystem-net-devices-%i.device
[Service]
ExecStart=/usr/bin/macchanger -r %I
Type=oneshot
[Install]
WantedBy=multi-user.target
```

STEP 4: Enable The New Service (Use YOUR Interface)

```
systemctl enable macspoof@wlan0.service
systemctl enable macspoof@eth0.service
```

STEP 5: Ensure MAC Randomization w/ Every New Connection

```
sudo nano /etc/NetworkManager/dispatcher.d/random_mac.sh
```

STEP 6: Populate The File

```
#!/bin/sh
IF=$1
STATUS=$2
MACCHANGER=/usr/bin/macchanger
WLANIFACE="wlan0"
if [ -z "$IF" ]; then
echo "$0: called with no interface" 1>&2
exit 1;
fi
if [ ! -x $MACCHANGER ]; then
echo "$0: can’t call $MACCHANGER" 1>&2
exit 1;
fi
if [ "$IF" = "$WLANIFACE" ] && [ "$STATUS" = "down" ]; then
/usr/sbin/ip link set $IF down
$MACCHANGER -r $IF
/usr/sbin/ip link set $IF up
fi
```

STEP 7: Make The File Executable

```
sudo chmod +x /etc/NetworkManager/dispatcher.d/random_mac.sh
```

Chapter 2: Setup Persistent TOR Service

STEP 1: Install Tor Service

```
sudo apt install tor
```

STEP 2: Edit proxychains4.conf

```
sudo nano /etc/proxychains4.conf
```

STEP 3: Uncomment dynamic_chain

STEP 4: Comment Out strict_chain

STEP 5: Goto EOF & Add The Following Line

```
socks5 127.0.0.1 9050
```

STEP 6: Enable Persistent Loading Of Tor Service On Boot

```
sudo systemctl enable tor.service
```

STEP 7: Use proxychains Command Before EVERY Terminal App Launch

```
proxychains python3 my_script.py
proxychains my_app
```