PYTHON AND ETHICAL HACKING

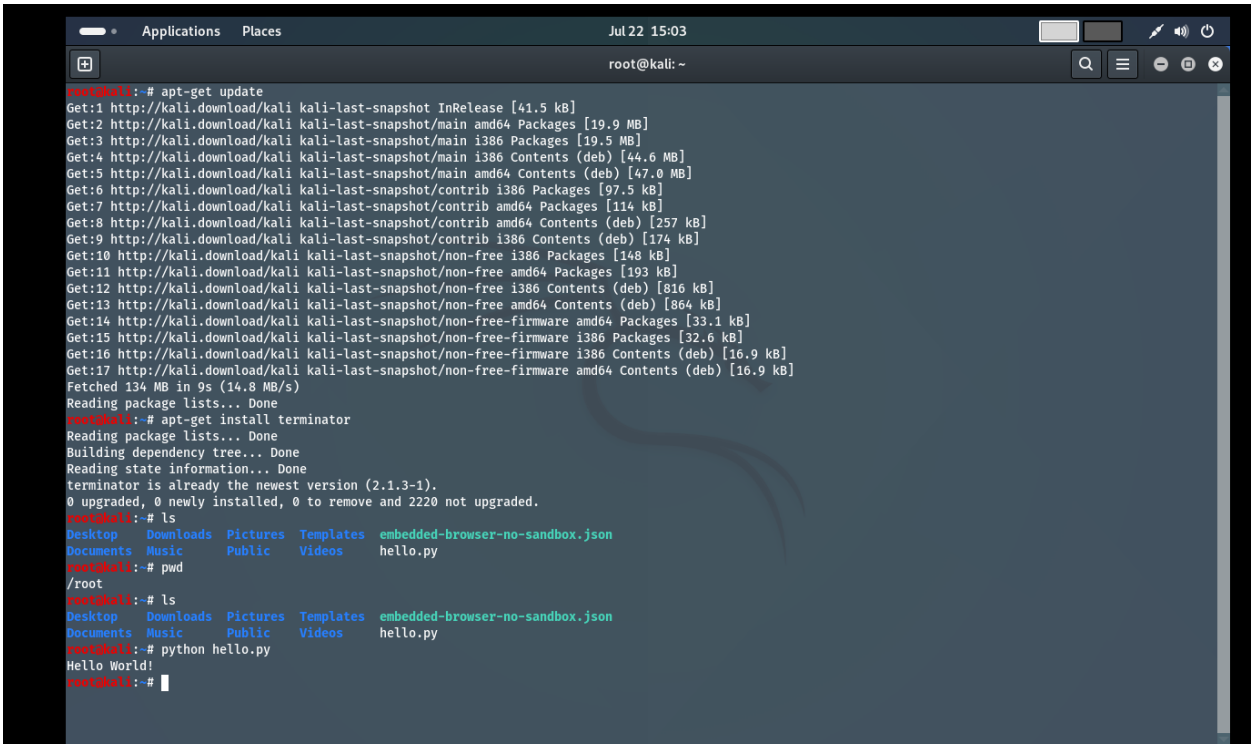
First Program:

Use leafpad as an Editor

#!/usr/bin/env python3

print("Hello World!")

Go to Terminal as then:



Writing a MAC address changer:

Manually:

ifconfig eth0 down (disable)

ifconfig eth0 hw ether 00:11:22:33:44:55 (New)

ifconfig eth0 up (enable)

ifconfig (check/verify)

CODE:

```
#!/usr/bin/env python

import subprocess

interface = input(" What is the Interface ? ")
new_mac = input(" What is the New Mac ?")

print("[-] Changing MAC address for " + interface + " to " + new_mac)

subprocess.call("ifconfig " + interface + " down", shell=True)
subprocess.call("ifconfig " + interface + " hw ether " + new_mac, shell=True)
subprocess.call("ifconfig " + interface + " up", shell=True)
```

OR For better and Secure User Input Handling :

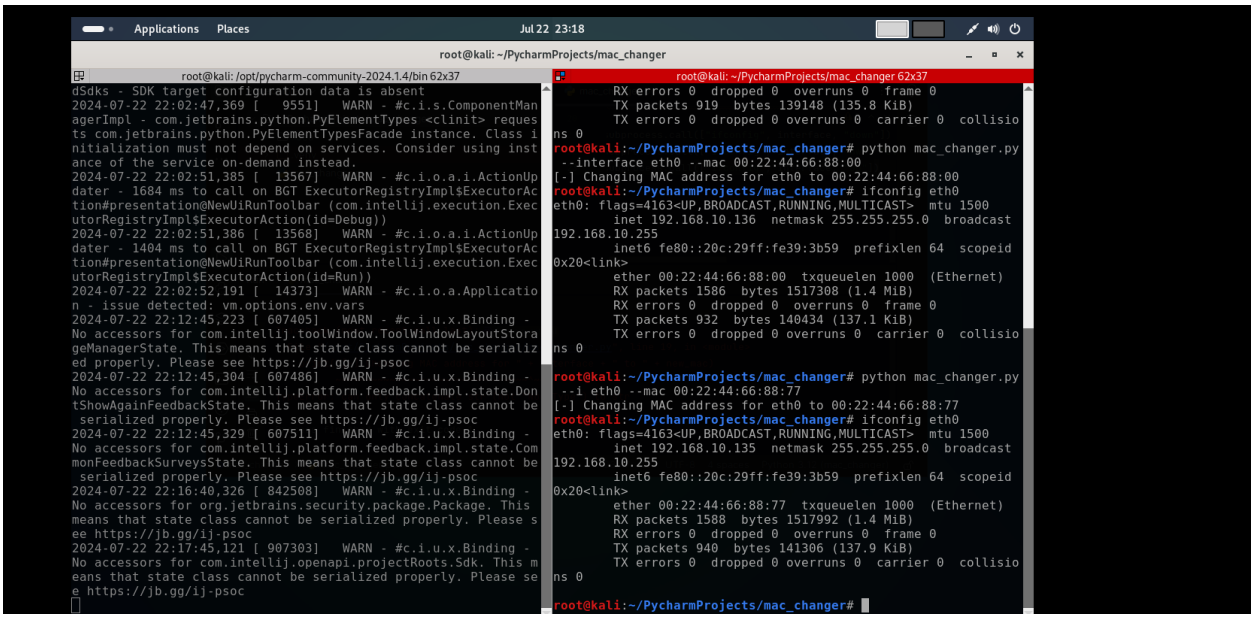
```
#!/usr/bin/env python

import subprocess

interface = input(" What is the Interface ? ")
new_mac = input(" What is the New Mac ?")

print("[-] Changing MAC address for " + interface + " to " + new_mac)

subprocess.call(["ifconfig", interface, "down"])
subprocess.call(["ifconfig", interface, "hw", "ether", new_mac])
subprocess.call(["ifconfig", interface, "up"])
```

Handling Command Line Arguments

```
#!/usr/bin/env python

import subprocess

import optparse

parser = optparse.OptionParser()

parser.add_option("-i", "--interface", dest="interface", help="Interface to
change its MAC address")

parser.add_option("-m", "--mac", dest="new_mac", help="New MAC address")

parser.parse_args()

interface = input(" What is the Interface ? ")

new_mac = input(" What is the New Mac ?")

print("[-] Changing MAC address for " + interface + " to " + new_mac)

subprocess.call(["ifconfig", interface, "down"])

subprocess.call(["ifconfig", interface, "hw", "ether", new_mac])

subprocess.call(["ifconfig", interface, "up"])
```

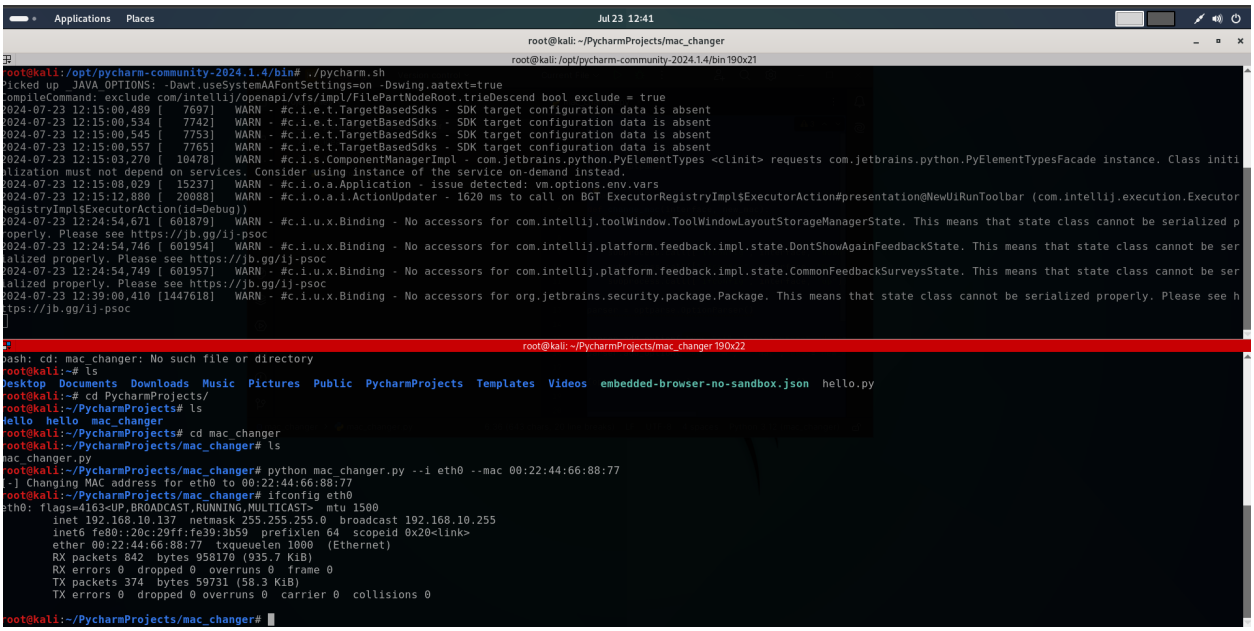
Initialising Variables Based on Command-line Arguments

```
#!/usr/bin/env python

import subprocess
import optparse

parser = optparse.OptionParser()

parser.add_option("-i", "--interface", dest="interface", help="Interface to
change its MAC address")
parser.add_option("-m", "--mac", dest="new_mac", help="New MAC address")

(options, arguments) = parser.parse_args()

interface = options.interface
new_mac = options.new_mac

print("[-] Changing MAC address for " + interface + " to " + new_mac)

subprocess.call(["ifconfig", interface, "down"])
subprocess.call(["ifconfig", interface, "hw", "ether", new_mac])
subprocess.call(["ifconfig", interface, "up"])
```


Applications
Places
Jul 22 23:18
root@kali: ~/PycharmProjects/mac_changer
root@kali: /opt/pycharm-community-2024.1.4/bin 62x37
dSdks - SDK target configuration data is absent
2024-07-22 22:02:47,369 [9551] WARN - #c.i.s.ComponentManagerImpl - com.jetbrains.python.PyElementTypes <clinit> requests com.jetbrains.python.PyElementTypesFacade instance. Class initialization must not depend on services. Consider using instance of the service on-demand instead.
2024-07-22 22:02:51,385 [13567] WARN - #c.i.o.a.i.ActionUpdater - 1684 ms to call on BGT ExecutorRegistryImpl$ExecutorAction#presentation@NewUiRunToolbar (com.intellij.execution.ExecutorRegistryImpl$ExecutorAction(id=Debug))
2024-07-22 22:02:51,386 [13568] WARN - #c.i.o.a.i.ActionUpdater - 1404 ms to call on BGT ExecutorRegistryImpl$ExecutorAction#presentation@NewUiRunToolbar (com.intellij.execution.ExecutorRegistryImpl$ExecutorAction(id=Run))
2024-07-22 22:02:52,191 [14373] WARN - #c.i.o.a.Application - issue detected: vm.options.env.vars
2024-07-22 22:12:45,223 [607405] WARN - #c.i.u.x.Binding - No accessors for com.intellij.toolWindow.ToolWindowLayoutStorageManagerState. This means that state class cannot be serialized properly. Please see https://jb.gg/ij-psoc
2024-07-22 22:12:45,304 [607486] WARN - #c.i.u.x.Binding - No accessors for com.intellij.platform.feedback.impl.state.DontShowAgainFeedbackState. This means that state class cannot be serialized properly. Please see https://jb.gg/ij-psoc
2024-07-22 22:12:45,329 [607511] WARN - #c.i.u.x.Binding - No accessors for com.intellij.platform.feedback.impl.state.CommonFeedbackSurveysState. This means that state class cannot be serialized properly. Please see https://jb.gg/ij-psoc
2024-07-22 22:16:40,326 [842508] WARN - #c.i.u.x.Binding - No accessors for org.jetbrains.security.package.Package. This means that state class cannot be serialized properly. Please see https://jb.gg/ij-psoc
2024-07-22 22:17:45,121 [907303] WARN - #c.i.u.x.Binding - No accessors for com.intellij.openapi.projectRoots.Sdk. This means that state class cannot be serialized properly. Please see https://jb.gg/ij-psoc
root@kali: ~/PycharmProjects/mac_changer 62x37
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 919 bytes 139148 (135.8 KiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
root@kali:~/PycharmProjects/mac_changer# python mac_changer.py --interface eth0 --mac 00:22:44:66:88:00
[-] Changing MAC address for eth0 to 00:22:44:66:88:00
root@kali:~/PycharmProjects/mac_changer# ifconfig eth0
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
inet 192.168.10.136 netmask 255.255.255.0 broadcast 192.168.10.255
inet6 fe80::20c:29ff:fe39:3b59 prefixlen 64 scopeid 0x20<link>
ether 00:22:44:66:88:00 txqueuelen 1000 (Ethernet)
RX packets 1586 bytes 1517308 (1.4 MiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 932 bytes 140434 (137.1 KiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
root@kali:~/PycharmProjects/mac_changer# python mac_changer.py -i eth0 --mac 00:22:44:66:88:77
[-] Changing MAC address for eth0 to 00:22:44:66:88:77
root@kali:~/PycharmProjects/mac_changer# ifconfig eth0
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
inet 192.168.10.135 netmask 255.255.255.0 broadcast 192.168.10.255
inet6 fe80::20c:29ff:fe39:3b59 prefixlen 64 scopeid 0x20<link>
ether 00:22:44:66:88:77 txqueuelen 1000 (Ethernet)
RX packets 1588 bytes 1517992 (1.4 MiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 940 bytes 141306 (137.9 KiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
root@kali:~/PycharmProjects/mac_changer#

Python Functions

```
#!/usr/bin/env python

import subprocess
import optparse

def change_mac(interface, new_mac):
    print("[-] Changing MAC address for " + interface + " to " + new_mac)

    subprocess.call(["ifconfig", interface, "down"])
    subprocess.call(["ifconfig", interface, "hw", "ether", new_mac])
    subprocess.call(["ifconfig", interface, "up"])

parser = optparse.OptionParser()

parser.add_option("-i", "--interface", dest="interface", help="Interface to
change its MAC address")
parser.add_option("-m", "--mac", dest="new_mac", help="New MAC address")

(options, arguments) = parser.parse_args()

change_mac(options.interface, options.new_mac)
```


Applications
Places
Jul 23 12:41
root@kali: ~/PycharmProjects/mac_changer
root@kali: /opt/pycharm-community-2024.1.4/bin 190x21
root@kali:/opt/pycharm-community-2024.1.4/bin# ./pycharm.sh
Picked up _JAVA_OPTIONS: -Dawt.useSystemAAFontSettings=on -Dswing.aatext=true
CompileCommand: exclude com/intellij/openapi/vfs/impl/FilePartNodeRoot.trieDescend bool exclude = true
2024-07-23 12:15:00,489 [7697] WARN - #c.i.e.t.TargetBasedSdks - SDK target configuration data is absent
2024-07-23 12:15:00,534 [7742] WARN - #c.i.e.t.TargetBasedSdks - SDK target configuration data is absent
2024-07-23 12:15:00,545 [7753] WARN - #c.i.e.t.TargetBasedSdks - SDK target configuration data is absent
2024-07-23 12:15:00,557 [7765] WARN - #c.i.e.t.TargetBasedSdks - SDK target configuration data is absent
2024-07-23 12:15:03,270 [10478] WARN - #c.i.s.ComponentManagerImpl - com.jetbrains.python.PyElementTypes <clinit> requests com.jetbrains.python.PyElementTypesFacade instance. Class initialization must not depend on services. Consider using instance of the service on-demand instead.
2024-07-23 12:15:08,029 [15237] WARN - #c.i.o.a.Application - issue detected: vm.options.env.vars
2024-07-23 12:15:12,880 [20088] WARN - #c.i.o.a.i.ActionUpdater - 1620 ms to call on BGT ExecutorRegistryImpl$ExecutorAction#presentation@NewUiRunToolbar (com.intellij.execution.ExecutorRegistryImpl$ExecutorAction(id=Debug))
2024-07-23 12:24:54,671 [601879] WARN - #c.i.u.x.Binding - No accessors for com.intellij.toolWindow.ToolWindowLayoutStorageManagerState. This means that state class cannot be serialized properly. Please see https://jb.gg/ij-psoc
2024-07-23 12:24:54,746 [601954] WARN - #c.i.u.x.Binding - No accessors for com.intellij.platform.feedback.impl.state.DontShowAgainFeedbackState. This means that state class cannot be serialized properly. Please see https://jb.gg/ij-psoc
2024-07-23 12:24:54,749 [601957] WARN - #c.i.u.x.Binding - No accessors for com.intellij.platform.feedback.impl.state.CommonFeedbackSurveysState. This means that state class cannot be serialized properly. Please see https://jb.gg/ij-psoc
2024-07-23 12:39:00,410 [1447618] WARN - #c.i.u.x.Binding - No accessors for org.jetbrains.security.package.Package. This means that state class cannot be serialized properly. Please see https://jb.gg/ij-psoc
root@kali: ~/PycharmProjects/mac_changer 190x22
bash: cd: mac_changer: No such file or directory
root@kali:~# ls
Desktop Documents Downloads Music Pictures Public PycharmProjects Templates Videos embedded-browser-no-sandbox.json hello.py
root@kali:~# cd PycharmProjects/
root@kali:~/PycharmProjects# ls
hello hello mac_changer
root@kali:~/PycharmProjects# cd mac_changer
root@kali:~/PycharmProjects/mac_changer# ls
mac_changer.py
root@kali:~/PycharmProjects/mac_changer# python mac_changer.py --i eth0 --mac 00:22:44:66:88:77
[-] Changing MAC address for eth0 to 00:22:44:66:88:77
root@kali:~/PycharmProjects/mac_changer# ifconfig eth0
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
inet 192.168.10.137 netmask 255.255.255.0 broadcast 192.168.10.255
inet6 fe80::20c:29ff:fe39:3b59 prefixlen 64 scopeid 0x20<link>
ether 00:22:44:66:88:77 txqueuelen 1000 (Ethernet)
RX packets 842 bytes 958170 (935.7 KiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 374 bytes 59731 (58.3 KiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
root@kali:~/PycharmProjects/mac_changer#

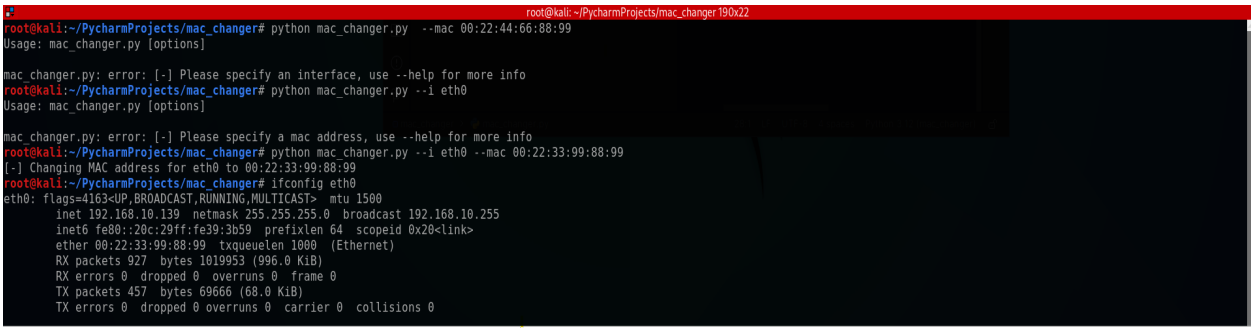
Returning Values From Functions:

```
#!/usr/bin/env python

import subprocess
import optparse

def get_arguments():
    parser = optparse.OptionParser()
    parser.add_option("-i", "--interface", dest="interface", help="Interface to
    change its MAC address")
    parser.add_option("-m", "--mac", dest="new_mac", help="New MAC
    address")
    return parser.parse_args()

def change_mac(interface, new_mac):
    print("[-] Changing MAC address for " + interface + " to " + new_mac)
    subprocess.call(["ifconfig", interface, "down"])
    subprocess.call(["ifconfig", interface, "hw", "ether", new_mac])
    subprocess.call(["ifconfig", interface, "up"])

(options, agruments) = get_arguments()
change_mac(options.interface, options.new_mac)
```

Decision Making in Python/ Using Conditional Statements in Mac changer:

```
#!/usr/bin/env python

import subprocess
import optparse

def get_arguments():
    parser = optparse.OptionParser()
    parser.add_option("-i", "--interface", dest="interface", help="Interface to
   change its MAC address")
    parser.add_option("-m", "--mac", dest="new_mac", help="New MAC
    address")
    (options, arguments) = parser.parse_args()
    if not options.interface:
        parser.error("[-] Please specify an interface, use --help for more info")
    elif not options.new_mac:
        parser.error("[-] Please specify a mac address, use --help for more info")
    return options
```

```
def change_mac(interface, new_mac):
    print("[-] Changing MAC address for " + interface + " to " + new_mac)
    subprocess.call(["ifconfig", interface, "down"])
    subprocess.call(["ifconfig", interface, "hw", "ether", new_mac])
    subprocess.call(["ifconfig", interface, "up"])

options = get_arguments()
change_mac(options.interface, options.new_mac)
```



MAC CHANGER: ALGORITHM DESIGN

Reading Output Returned By System Commands

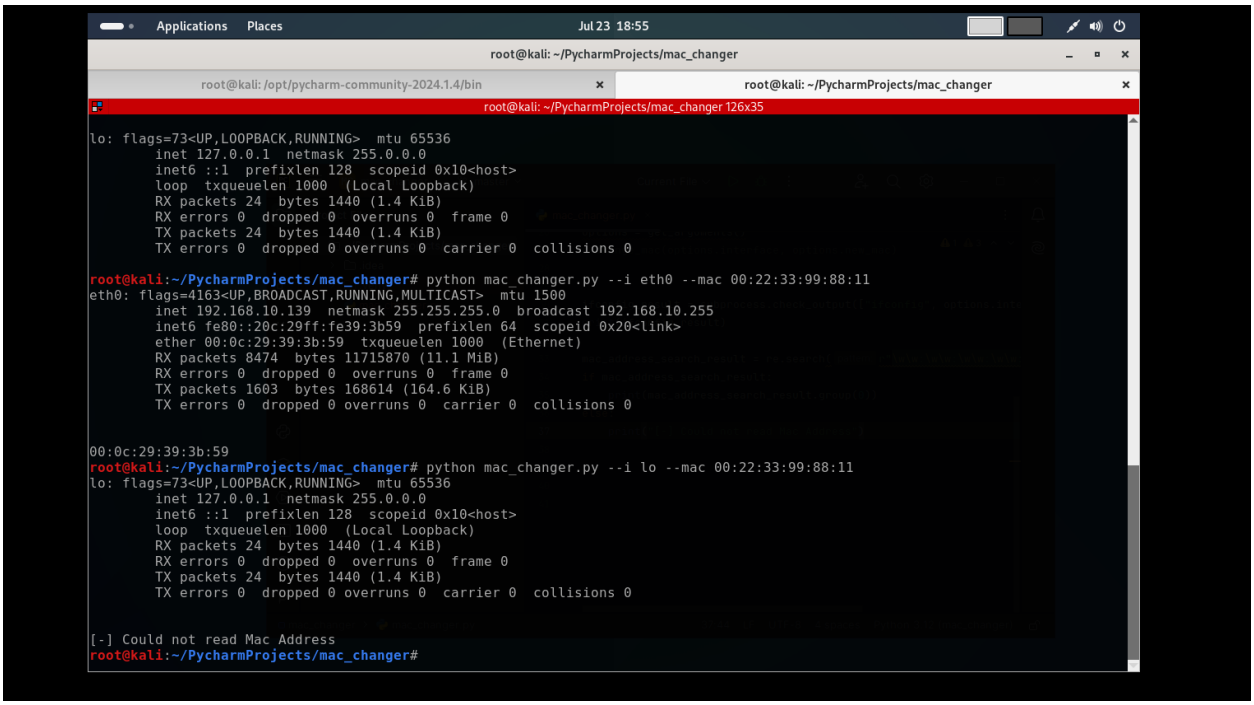
```
#!/usr/bin/env python

import subprocess
import optparse



def get_arguments():
   parser = optparse.OptionParser()
   parser.add_option("-i", "--interface", dest="interface", help="Interface to change its MAC address")
   parser.add_option("-m", "--mac", dest="new_mac", help="New MAC address")
   (options, arguments) = parser.parse_args()
   if not options.interface:
      parser.error("[-] Please specify an interface, use --help for more info")
   elif not options.new_mac:
      parser.error("[-] Please specify a mac address, use --help for more info")
   return options



def change_mac(interface, new_mac):
```

```
    print("[-] Changing MAC address for " + interface + " to " + new_mac)
    subprocess.call(["ifconfig", interface, "down"])
    subprocess.call(["ifconfig", interface, "hw", "ether", new_mac])
    subprocess.call(["ifconfig", interface, "up"])

options = get_arguments()
# change_mac(options.interface, options.new_mac)


ifconfig_result = subprocess.check_output(["ifconfig", options.interface])
print(ifconfig_result)
```

Extracting a Substring Using Regex

```
#!/usr/bin/env python

import subprocess
import optparse
import re


def get_arguments():
    parser = optparse.OptionParser()
    parser.add_option("-i", "--interface", dest="interface", help="Interface to change its MAC address")
    parser.add_option("-m", "--mac", dest="new_mac", help="New MAC address")
    (options, arguments) = parser.parse_args()
    if not options.interface:
        parser.error("[-] Please specify an interface, use --help for more info")
    elif not options.new_mac:
        parser.error("[-] Please specify a mac address, use --help for more info")
    return options


def change_mac(interface, new_mac):
    print("[-] Changing MAC address for " + interface + " to " + new_mac)
    subprocess.call(["ifconfig", interface, "down"])
```

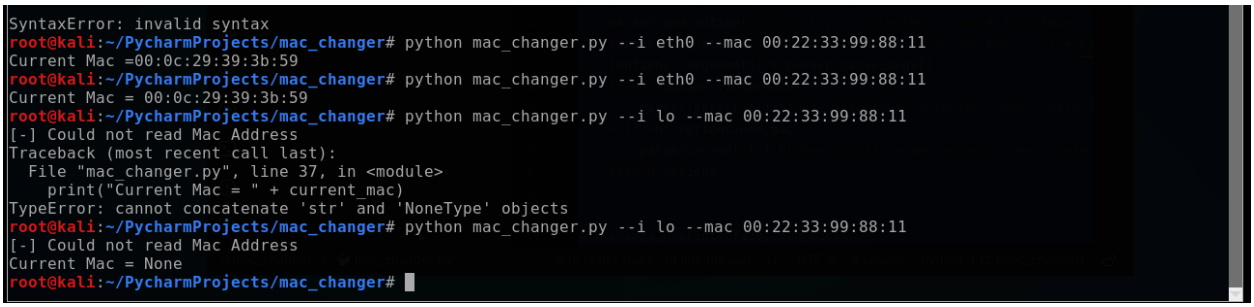
```
    subprocess.call(["ifconfig", interface, "hw", "ether", new_mac])
    subprocess.call(["ifconfig", interface, "up"])

options = get_arguments()
# change_mac(options.interface, options.new_mac)


ifconfig_result = subprocess.check_output(["ifconfig", options.interface])
print(ifconfig_result)

mac_address_search_result = re.search(r"\w\w:\w\w:\w\w:\w\w:\w\w:\w\w", ifconfig_result)
if mac_address_search_result:
    print(mac_address_search_result.group(0))
else:
    print("[-] Could not read Mac Address")
```


Applications
Places
Jul 23 18:55
root@kali: ~/PycharmProjects/mac_changer
root@kali: /opt/pycharm-community-2024.1.4/bin
root@kali: ~/PycharmProjects/mac_changer
root@kali: ~/PycharmProjects/mac_changer 126x35
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
inet 127.0.0.1 netmask 255.0.0.0
inet6 ::1 prefixlen 128 scopeid 0x10<host>
loop txqueuelen 1000 (Local Loopback)
RX packets 24 bytes 1440 (1.4 KiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 24 bytes 1440 (1.4 KiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
root@kali:~/PycharmProjects/mac_changer# python mac_changer.py --i eth0 --mac 00:22:33:99:88:11
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
inet 192.168.10.139 netmask 255.255.255.0 broadcast 192.168.10.255
inet6 fe80::20c:29ff:fe39:3b59 prefixlen 64 scopeid 0x20<link>
ether 00:0c:29:39:3b:59 txqueuelen 1000 (Ethernet)
RX packets 8474 bytes 11715870 (11.1 MiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 1603 bytes 168614 (164.6 KiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
00:0c:29:39:3b:59
root@kali:~/PycharmProjects/mac_changer# python mac_changer.py --i lo --mac 00:22:33:99:88:11
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
inet 127.0.0.1 netmask 255.0.0.0
inet6 ::1 prefixlen 128 scopeid 0x10<host>
loop txqueuelen 1000 (Local Loopback)
RX packets 24 bytes 1440 (1.4 KiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 24 bytes 1440 (1.4 KiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
[-] Could not read Mac Address
root@kali:~/PycharmProjects/mac_changer#

Refactoring & Housekeeping

```
#!/usr/bin/env python

import subprocess
import optparse
import re



def get_arguments():
    parser = optparse.OptionParser()
    parser.add_option("-i", "--interface", dest="interface", help="Interface to change its MAC address")
    parser.add_option("-m", "--mac", dest="new_mac", help="New MAC address")
    (options, arguments) = parser.parse_args()
    if not options.interface:
        parser.error("[-] Please specify an interface, use --help for more info")
    elif not options.new_mac:
        parser.error("[-] Please specify a mac address, use --help for more info")
    return options
```

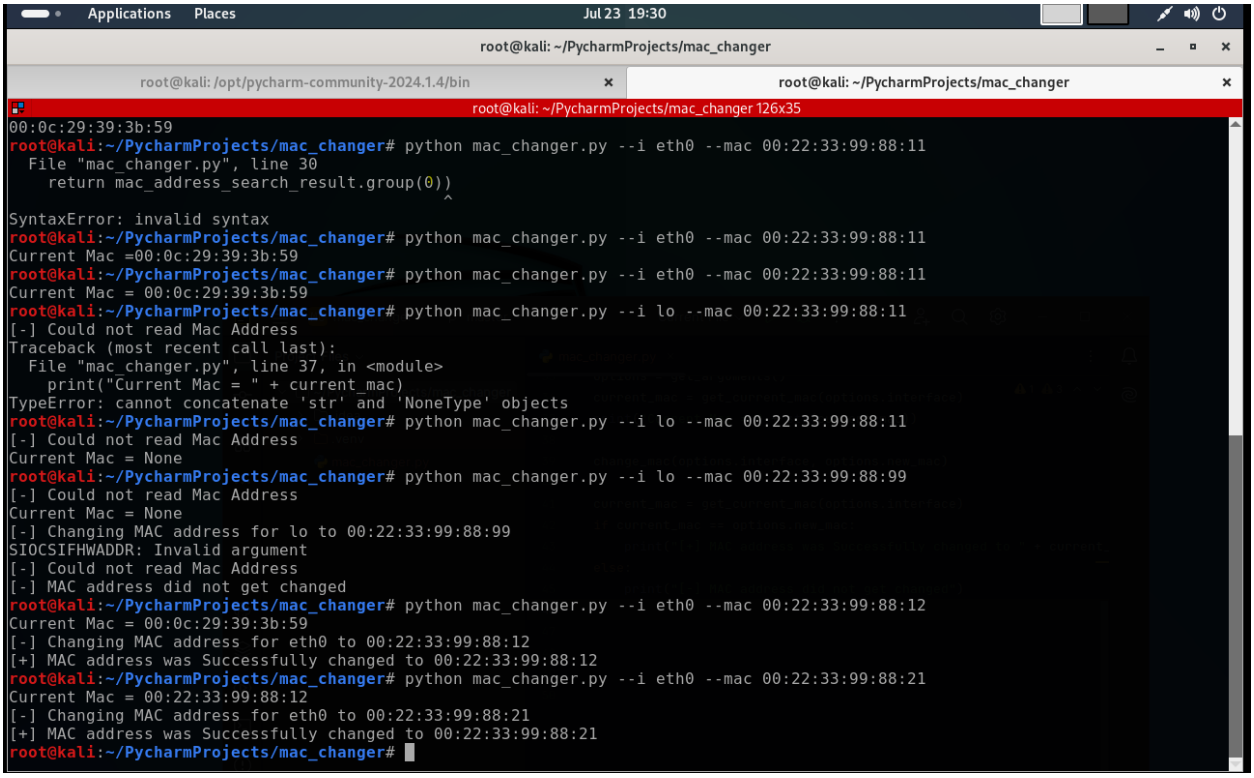
```
def change_mac(interface, new_mac):
    print("[-] Changing MAC address for " + interface + " to " + new_mac)
    subprocess.call(["ifconfig", interface, "down"])
    subprocess.call(["ifconfig", interface, "hw", "ether", new_mac])
    subprocess.call(["ifconfig", interface, "up"])


def get_current_mac(interface):
    ifconfig_result = subprocess.check_output(["ifconfig", interface])
    mac_address_search_result =
re.search(r"\w\w:\w\w:\w\w:\w\w:\w\w:\w\w", ifconfig_result)
    if mac_address_search_result:
        return mac_address_search_result.group(0)
    else:
        print("[-] Could not read Mac Address")


options = get_arguments()
current_mac = get_current_mac(options.interface)
print("Current Mac = " + str(current_mac))
# change_mac(options.interface, options.new_mac)
```



Implementing The Validation Algorithm

```
#!/usr/bin/env python

import subprocess
import optparse
import re

def get_arguments():
    parser = optparse.OptionParser()
    parser.add_option("-i", "--interface", dest="interface", help="Interface to change its MAC address")
    parser.add_option("-m", "--mac", dest="new_mac", help="New MAC address")
    (options, arguments) = parser.parse_args()
    if not options.interface:
        parser.error("[-] Please specify an interface, use --help for more info")
    elif not options.new_mac:
        parser.error("[-] Please specify a mac address, use --help for more info")
    return options


def change_mac(interface, new_mac):
    print("[-] Changing MAC address for " + interface + " to " + new_mac)
    subprocess.call(["ifconfig", interface, "down"])
```

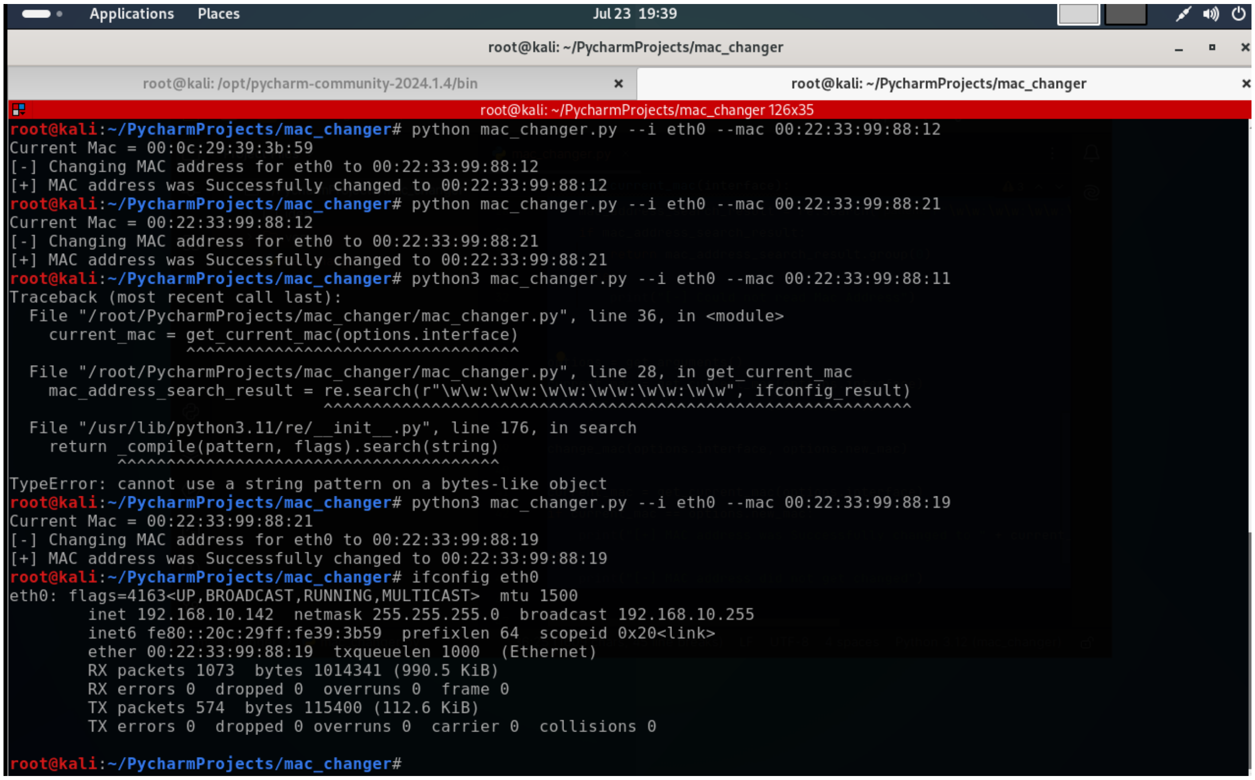
```
    subprocess.call(["ifconfig", interface, "hw", "ether", new_mac])
    subprocess.call(["ifconfig", interface, "up"])

def get_current_mac(interface):
    ifconfig_result = subprocess.check_output(["ifconfig", interface])
    mac_address_search_result =
re.search(r"\w\w:\w\w:\w\w:\w\w:\w\w:\w\w:\w\w", ifconfig_result)
    if mac_address_search_result:
        return mac_address_search_result.group(0)
    else:
        print("[-] Could not read Mac Address")



options = get_arguments()
current_mac = get_current_mac(options.interface)
print("Current Mac = " + str(current_mac))

change_mac(options.interface, options.new_mac)

current_mac = get_current_mac(options.interface)
if current_mac == options.new_mac:
    print("[+] MAC address was Successfully changed to " + current_mac)
else:
    print("[-] MAC address did not get changed")
```


Applications
Places
Jul 23 19:30
root@kali: ~/PycharmProjects/mac_changer
root@kali: /opt/pycharm-community-2024.1.4/bin
root@kali: ~/PycharmProjects/mac_changer
root@kali: ~/PycharmProjects/mac_changer 126x35
00:0c:29:39:3b:59
root@kali:~/PycharmProjects/mac_changer# python mac_changer.py --i eth0 --mac 00:22:33:99:88:11
File "mac_changer.py", line 30
return mac_address_search_result.group(0))
^
SyntaxError: invalid syntax
root@kali:~/PycharmProjects/mac_changer# python mac_changer.py --i eth0 --mac 00:22:33:99:88:11
Current Mac =00:0c:29:39:3b:59
root@kali:~/PycharmProjects/mac_changer# python mac_changer.py --i eth0 --mac 00:22:33:99:88:11
Current Mac = 00:0c:29:39:3b:59
root@kali:~/PycharmProjects/mac_changer# python mac_changer.py --i lo --mac 00:22:33:99:88:11
[-] Could not read Mac Address
Traceback (most recent call last):
File "mac_changer.py", line 37, in <module>
print("Current Mac = " + current_mac)
TypeError: cannot concatenate 'str' and 'NoneType' objects
root@kali:~/PycharmProjects/mac_changer# python mac_changer.py --i lo --mac 00:22:33:99:88:11
[-] Could not read Mac Address
Current Mac = None
root@kali:~/PycharmProjects/mac_changer# python mac_changer.py --i lo --mac 00:22:33:99:88:99
[-] Could not read Mac Address
Current Mac = None
[-] Changing MAC address for lo to 00:22:33:99:88:99
SIOCSIFHWADDR: Invalid argument
[-] Could not read Mac Address
[-] MAC address did not get changed
root@kali:~/PycharmProjects/mac_changer# python mac_changer.py --i eth0 --mac 00:22:33:99:88:12
Current Mac = 00:0c:29:39:3b:59
[-] Changing MAC address for eth0 to 00:22:33:99:88:12
[+] MAC address was Successfully changed to 00:22:33:99:88:12
root@kali:~/PycharmProjects/mac_changer# python mac_changer.py --i eth0 --mac 00:22:33:99:88:21
Current Mac = 00:22:33:99:88:12
[-] Changing MAC address for eth0 to 00:22:33:99:88:21
[+] MAC address was Successfully changed to 00:22:33:99:88:21
root@kali:~/PycharmProjects/mac_changer#

Mac_Changer: Python3 Compatibility/Version

```
#!/usr/bin/env python

import subprocess
import optparse
import re



def get_arguments():
    parser = optparse.OptionParser()
    parser.add_option("-i", "--interface", dest="interface", help="Interface to change its MAC address")
    parser.add_option("-m", "--mac", dest="new_mac", help="New MAC address")
    (options, arguments) = parser.parse_args()
    if not options.interface:
        parser.error("[-] Please specify an interface, use --help for more info")
    elif not options.new_mac:
        parser.error("[-] Please specify a mac address, use --help for more info")
    return options



def change_mac(interface, new_mac):
    print("[-] Changing MAC address for " + interface + " to " + new_mac)
    subprocess.call(["ifconfig", interface, "down"])
```

```
    subprocess.call(["ifconfig", interface, "hw", "ether", new_mac])
    subprocess.call(["ifconfig", interface, "up"])

def get_current_mac(interface):
    ifconfig_result = subprocess.check_output(["ifconfig", interface])
    mac_address_search_result =
re.search(r"\w\w:\w\w:\w\w:\w\w:\w\w:\w\w:\w\w", str(ifconfig_result))
    if mac_address_search_result:
        return mac_address_search_result.group(0)
    else:
        print("[-] Could not read Mac Address")



options = get_arguments()
current_mac = get_current_mac(options.interface)
print("Current Mac = " + str(current_mac))

change_mac(options.interface, options.new_mac)

current_mac = get_current_mac(options.interface)
if current_mac == options.new_mac:
    print("[+] MAC address was Successfully changed to " + current_mac)
else:
    print("[-] MAC address did not get changed")
```


Applications
Places
Jul 23 19:39
root@kali: ~/PycharmProjects/mac_changer
root@kali: /opt/pycharm-community-2024.1.4/bin
root@kali: ~/PycharmProjects/mac_changer
root@kali: ~/PycharmProjects/mac_changer 126x35
root@kali:~/PycharmProjects/mac_changer# python mac_changer.py --i eth0 --mac 00:22:33:99:88:12
Current Mac = 00:0c:29:39:3b:59
[-] Changing MAC address for eth0 to 00:22:33:99:88:12
[+] MAC address was Successfully changed to 00:22:33:99:88:12
root@kali:~/PycharmProjects/mac_changer# python mac_changer.py --i eth0 --mac 00:22:33:99:88:21
Current Mac = 00:22:33:99:88:12
[-] Changing MAC address for eth0 to 00:22:33:99:88:21
[+] MAC address was Successfully changed to 00:22:33:99:88:21
root@kali:~/PycharmProjects/mac_changer# python3 mac_changer.py --i eth0 --mac 00:22:33:99:88:11
Traceback (most recent call last):
File "/root/PycharmProjects/mac_changer/mac_changer.py", line 36, in <module>
current_mac = get_current_mac(options.interface)
File "/root/PycharmProjects/mac_changer/mac_changer.py", line 28, in get_current_mac
mac_address_search_result = re.search(r"\w\w:\w\w:\w\w:\w\w:\w\w:\w\w", ifconfig_result)
File "/usr/lib/python3.11/re/__init__.py", line 176, in search
return _compile(pattern, flags).search(string)
TypeError: cannot use a string pattern on a bytes-like object
root@kali:~/PycharmProjects/mac_changer# python3 mac_changer.py --i eth0 --mac 00:22:33:99:88:19
Current Mac = 00:22:33:99:88:21
[-] Changing MAC address for eth0 to 00:22:33:99:88:19
[+] MAC address was Successfully changed to 00:22:33:99:88:19
root@kali:~/PycharmProjects/mac_changer# ifconfig eth0
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
inet 192.168.10.142 netmask 255.255.255.0 broadcast 192.168.10.255
inet6 fe80::20c:29ff:fe39:3b59 prefixlen 64 scopeid 0x20<link>
ether 00:22:33:99:88:19 txqueuelen 1000 (Ethernet)
RX packets 1073 bytes 1014341 (990.5 KiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 574 bytes 115400 (112.6 KiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
root@kali:~/PycharmProjects/mac_changer#