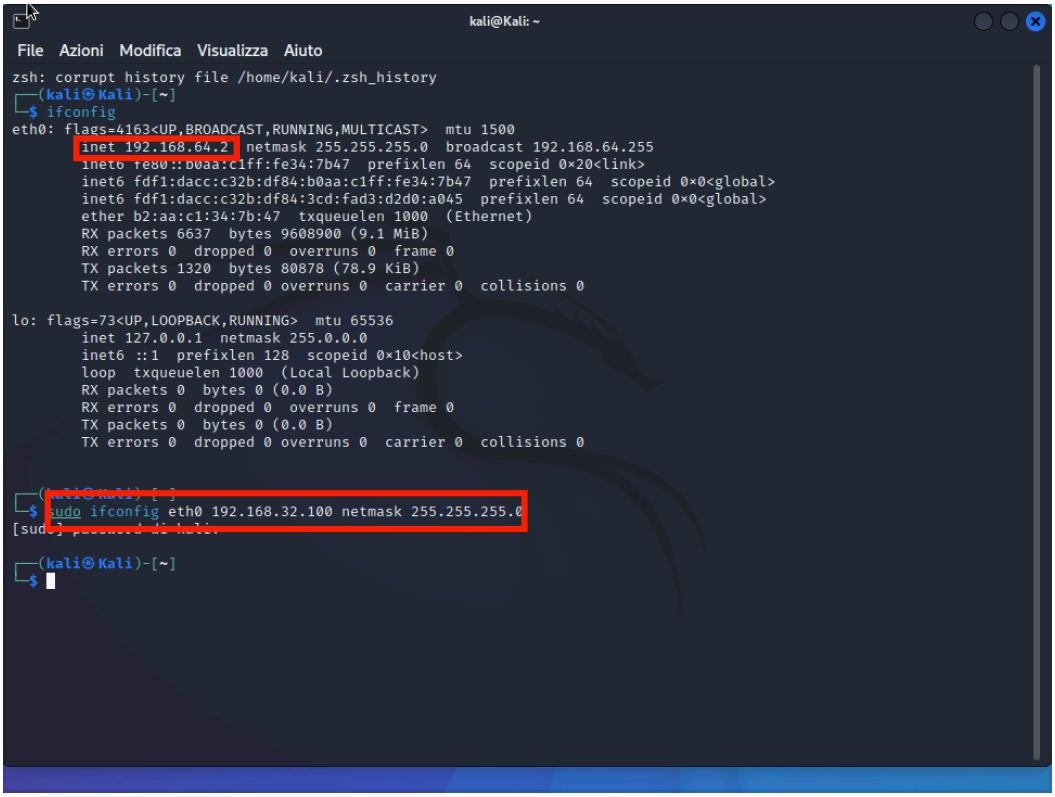
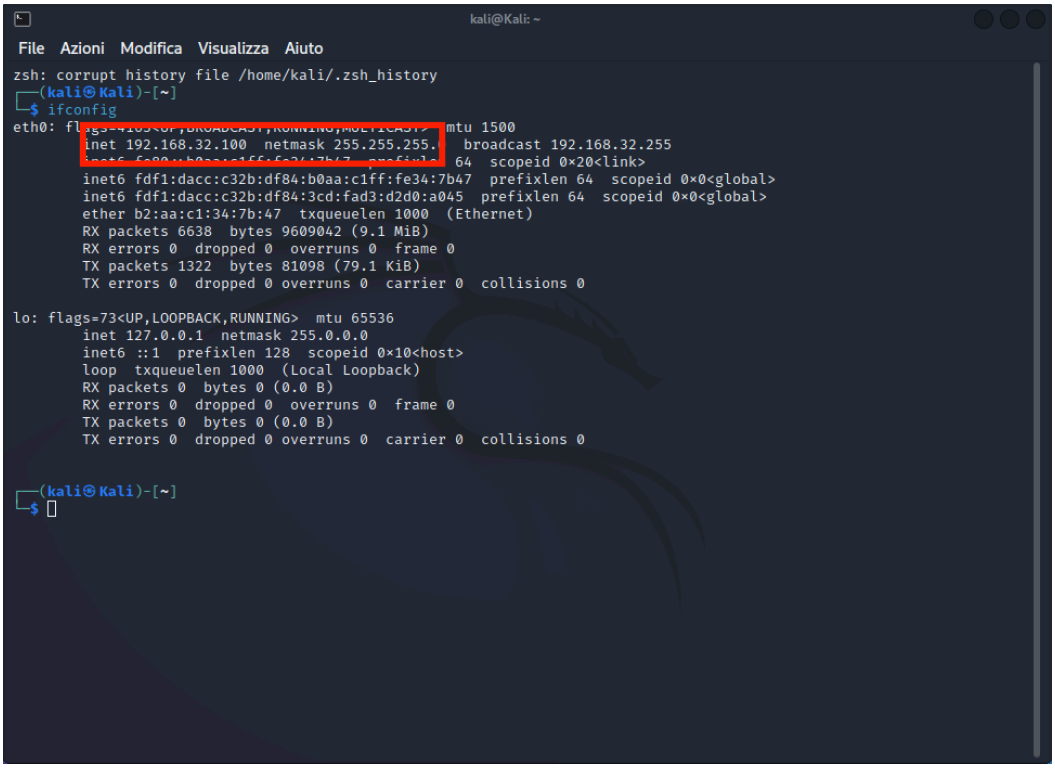
INDIRIZZI IP

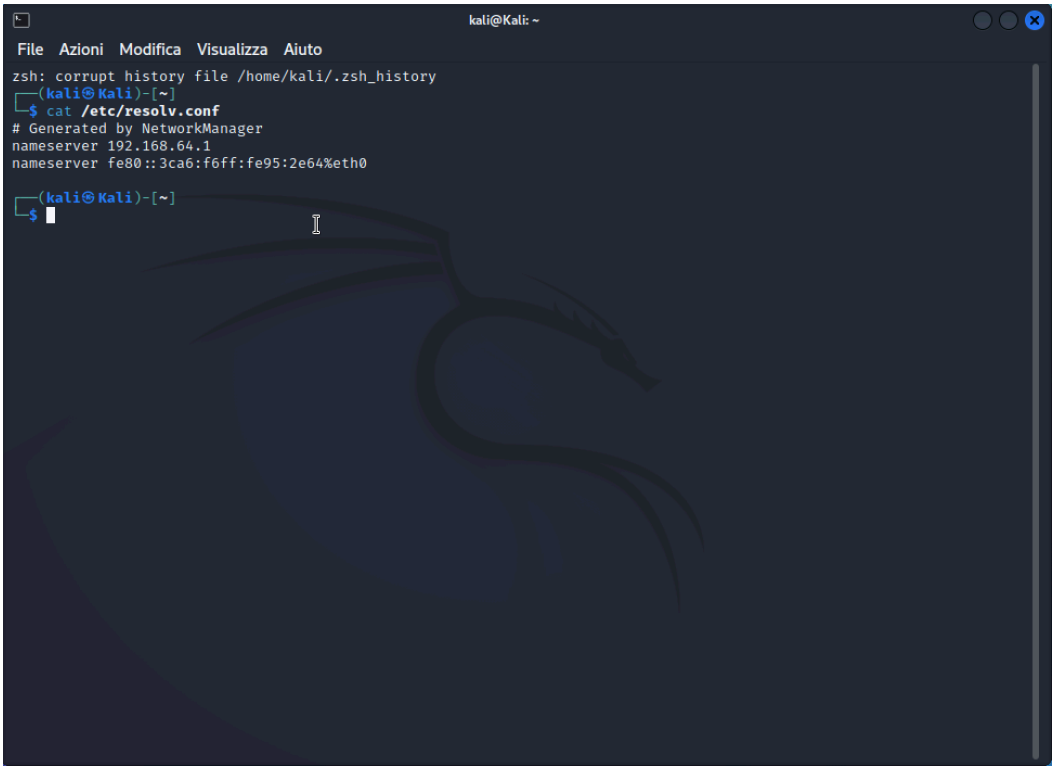
Nell'esercizio di oggi dovremo dovremo svolgere i seguenti esercizi:

- Modificare l'indirizzo IP manualmente su virtualbox sia su Kali Linux, sia su Windows 7.
- Tramite client di Windows 7, richiedere a client Kali Linux la risposta del web browser di epicode.internal.
- Tramite Wireshark intercettare la comunicazione, evidenziando i MAC Address di sorgente e destinazione.
- Ripetere l'esercizio sostituendo L'HTTPS con un server HTTP e spiegare le quali differenze abbiamo riscontrato.

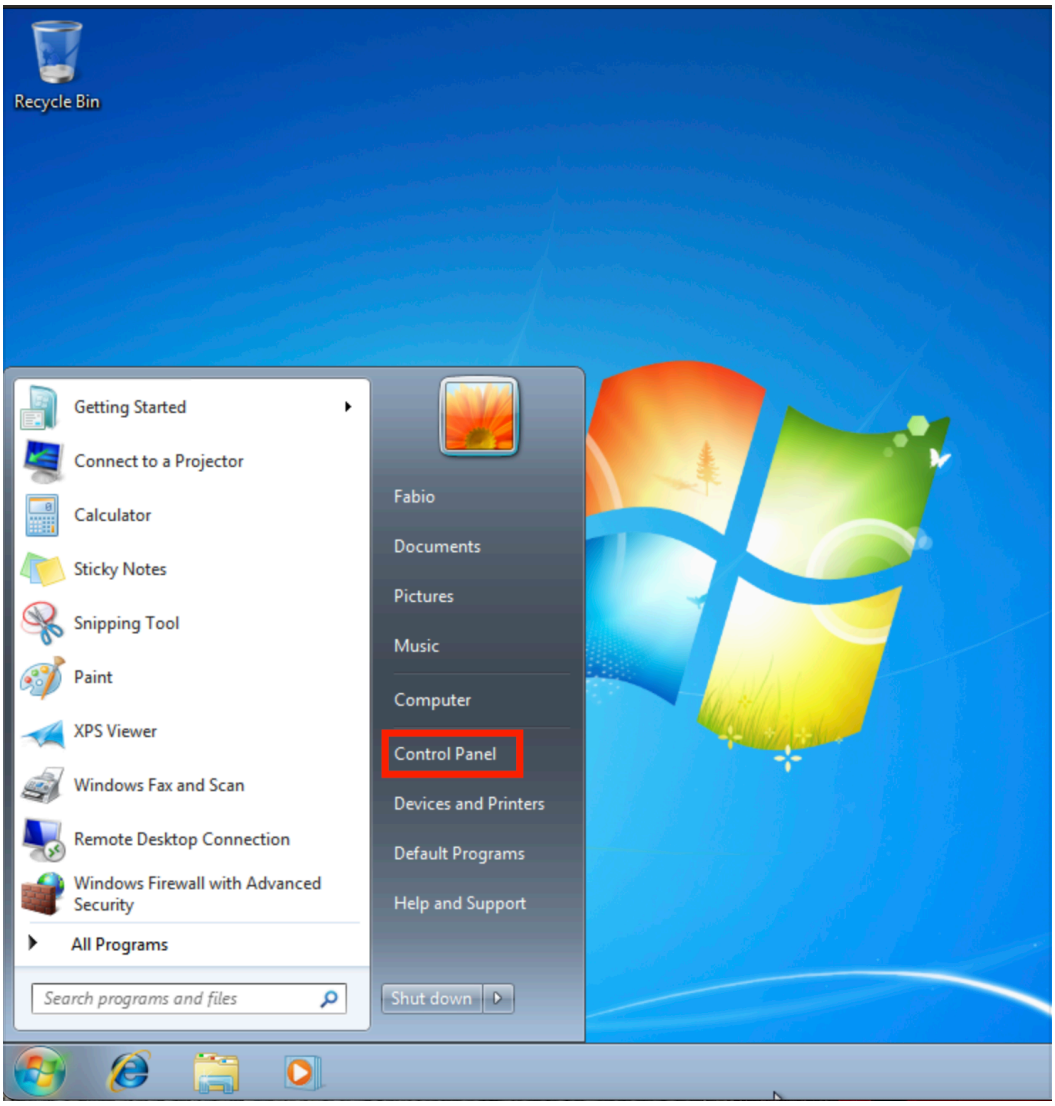
1. Per prima cosa andremo a configurare manualmente gli indirizzi IP per Kali Linux, quindi andremo ad aprire Kali e a cliccare sul centro comandi, per poi digitare la seguente stringa: "sudo if config eth0 192.168.32.100 netmask 255.255.255.0"

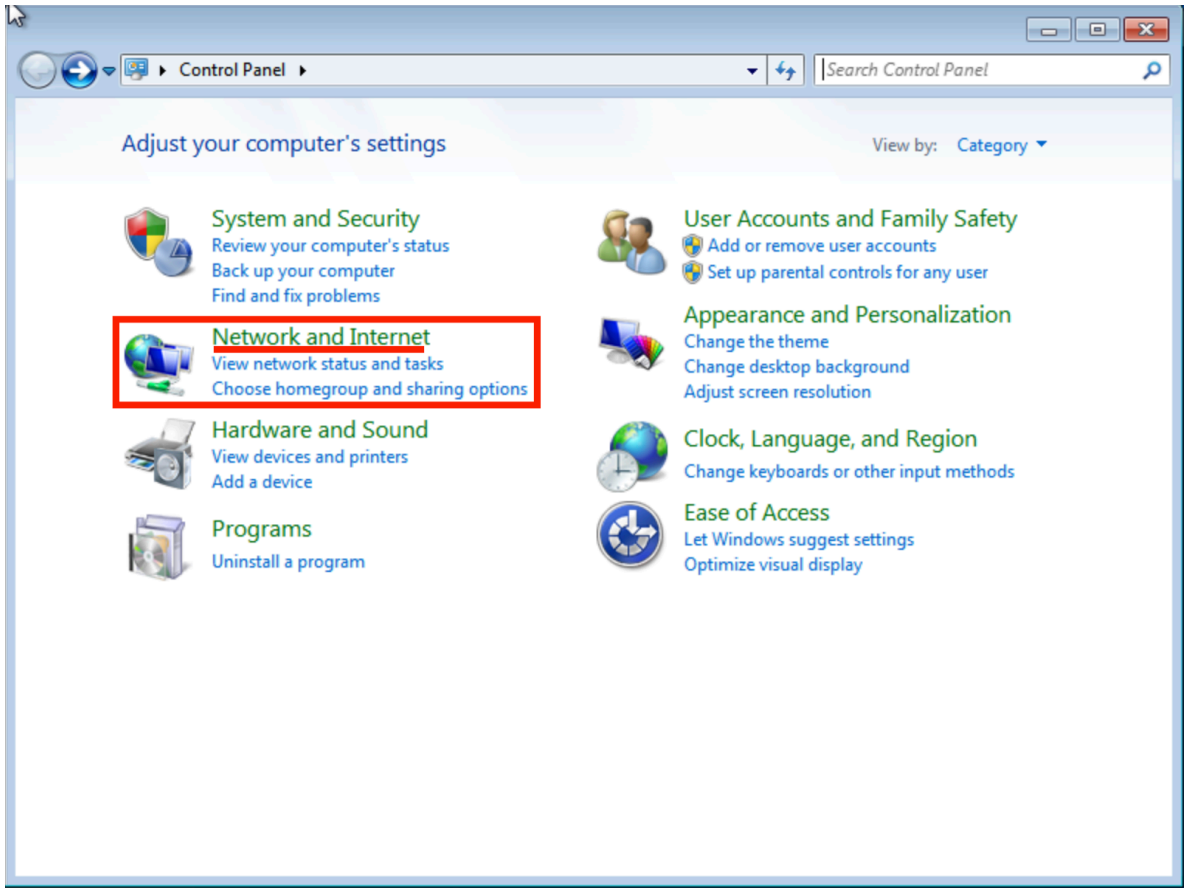


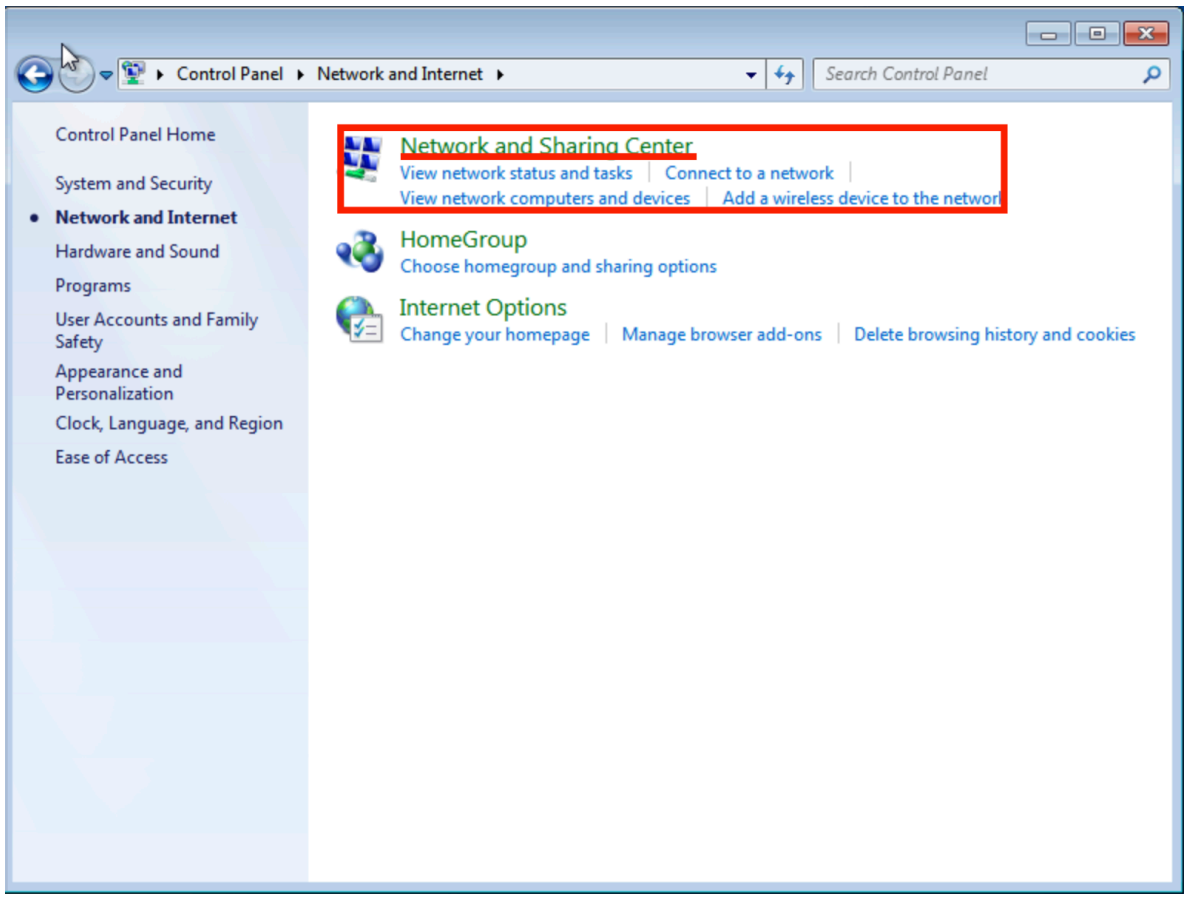


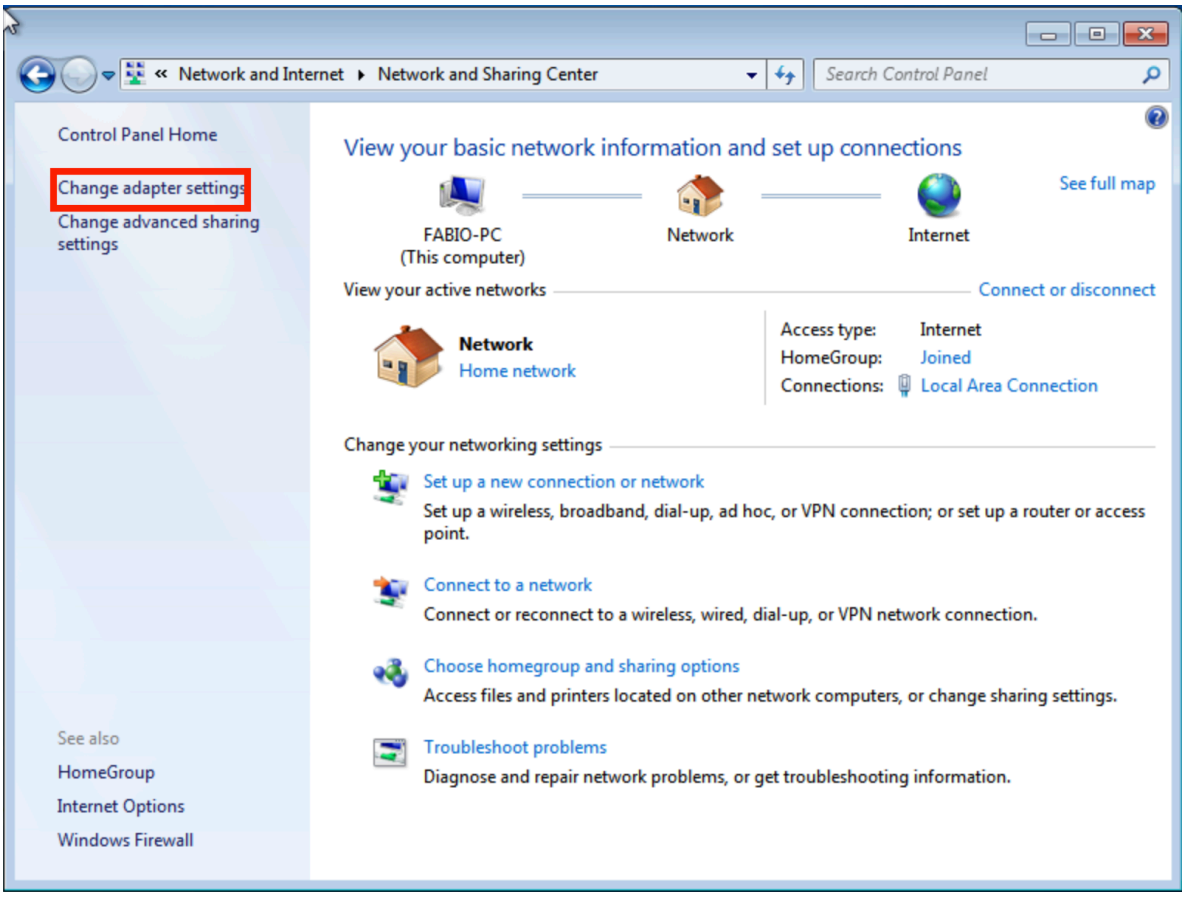


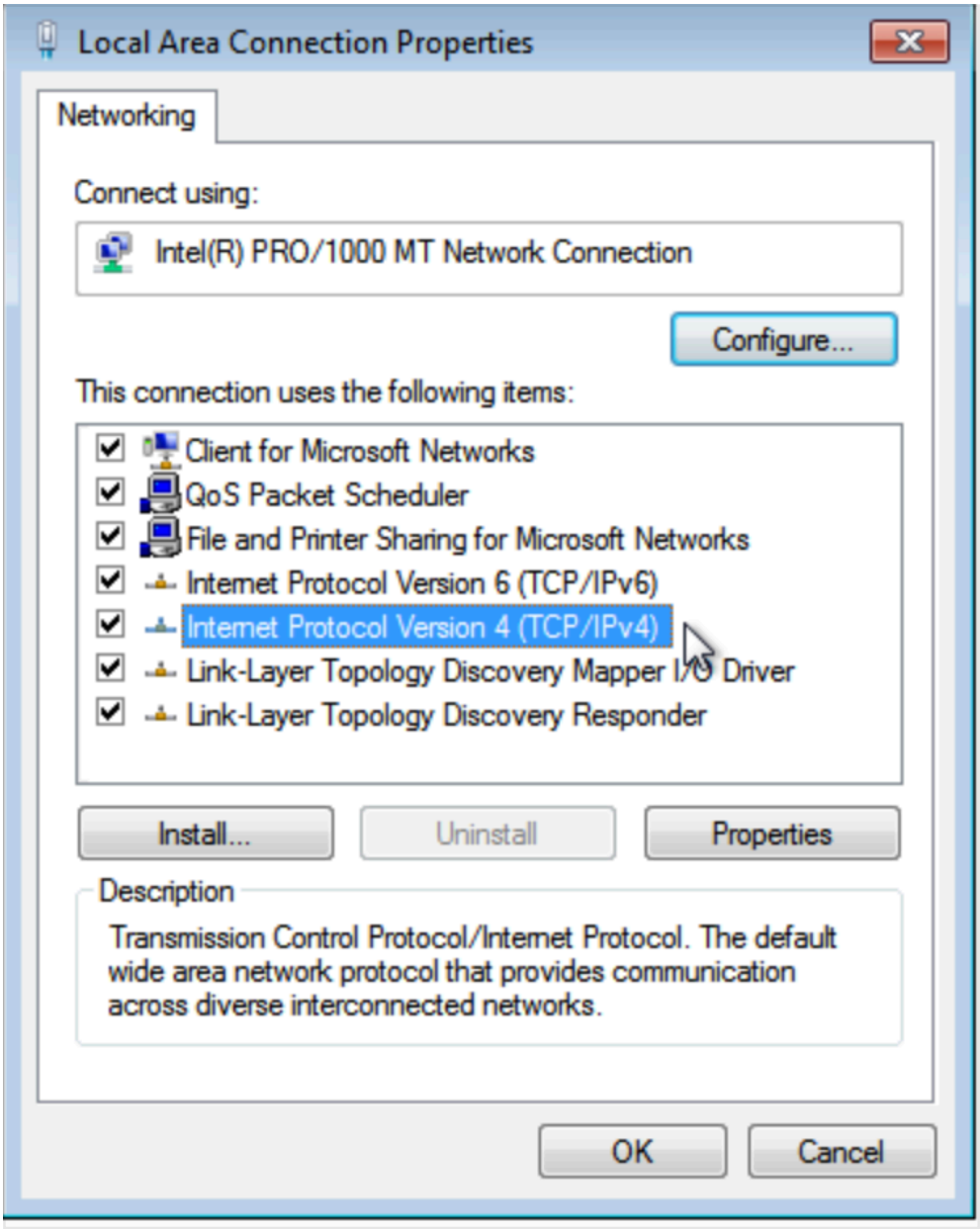
Ho usato comando “cat /etc/resolv.conf” pero ottenere l’indirizzo IP del DNS per poi inserirlo su windows 7.
Se tutto è stato fatto correttamente avremo cambiato con successo il nostro indirizzo IP.
Ora procediamo al cambio dell’indirizzo IP per Windows 7.

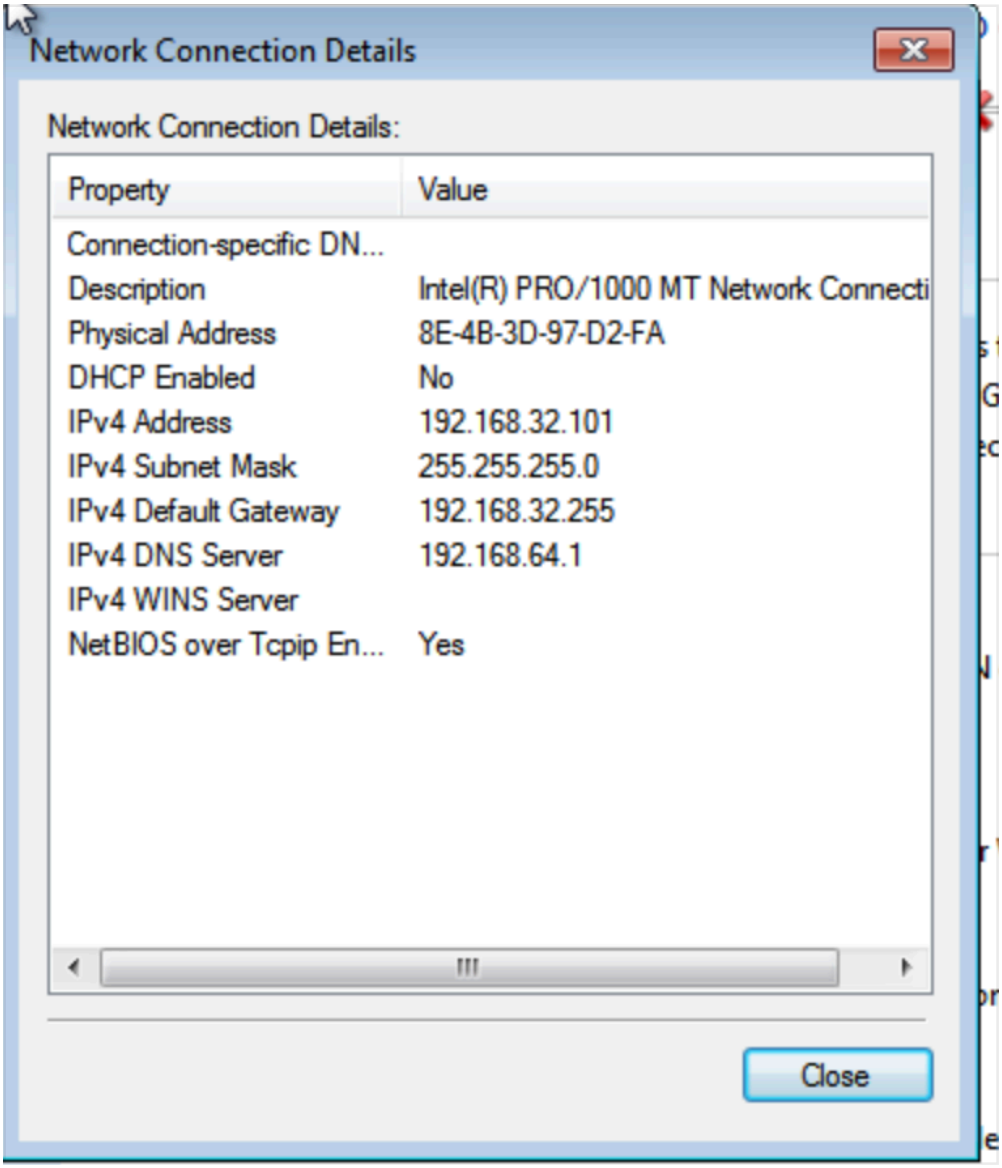

Recycle Bin
Getting Started
Connect to a Projector
Calculator
Sticky Notes
Snipping Tool
Paint
XPS Viewer
Windows Fax and Scan
Remote Desktop Connection
Windows Firewall with Advanced Security
All Programs
Search programs and files
Fabio
Documents
Pictures
Music
Computer
Control Panel
Devices and Printers
Default Programs
Help and Support
Shut down


Control Panel
Search Control Panel
Adjust your computer's settings
View by: Category
System and Security
Review your computer's status
Back up your computer
Find and fix problems
Network and Internet
View network status and tasks
Choose homegroup and sharing options
Hardware and Sound
View devices and printers
Add a device
Programs
Uninstall a program
User Accounts and Family Safety
Add or remove user accounts
Set up parental controls for any user
Appearance and Personalization
Change the theme
Change desktop background
Adjust screen resolution
Clock, Language, and Region
Change keyboards or other input methods
Ease of Access
Let Windows suggest settings
Optimize visual display

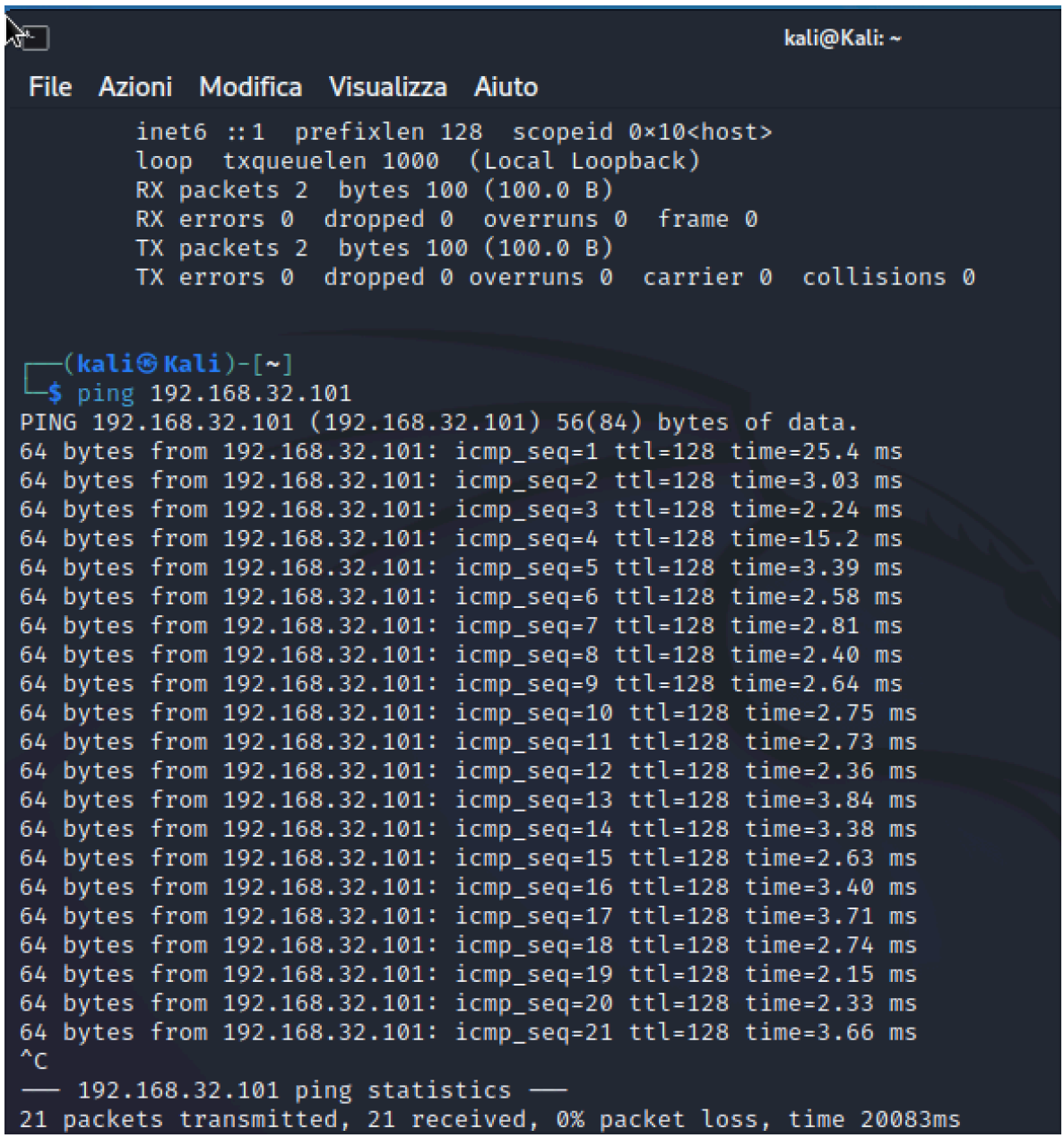

Control Panel
Network and Internet
Search Control Panel
Control Panel Home
System and Security
Network and Internet
Hardware and Sound
Programs
User Accounts and Family Safety
Appearance and Personalization
Clock, Language, and Region
Ease of Access
Network and Sharing Center
View network status and tasks
Connect to a network
View network computers and devices
Add a wireless device to the networ
HomeGroup
Choose homegroup and sharing options
Internet Options
Change your homepage
Manage browser add-ons
Delete browsing history and cookies


« Network and Internet ▸ Network and Sharing Center
Search Control Panel
Control Panel Home
Change adapter settings
Change advanced sharing settings
View your basic network information and set up connections
See full map
FABIO-PC
(This computer)
Network
Internet
View your active networks
Connect or disconnect
Network
Home network
Access type: Internet
HomeGroup: Joined
Connections: Local Area Connection
Change your networking settings
Set up a new connection or network
Set up a wireless, broadband, dial-up, ad hoc, or VPN connection; or set up a router or access point.
Connect to a network
Connect or reconnect to a wireless, wired, dial-up, or VPN network connection.
Choose homegroup and sharing options
Access files and printers located on other network computers, or change sharing settings.
Troubleshoot problems
Diagnose and repair network problems, or get troubleshooting information.
See also
HomeGroup
Internet Options
Windows Firewall


Local Area Connection Properties
Networking
Connect using:
Intel(R) PRO/1000 MT Network Connection
Configure...
This connection uses the following items:
Client for Microsoft Networks
QoS Packet Scheduler
File and Printer Sharing for Microsoft Networks
Internet Protocol Version 6 (TCP/IPv6)
Internet Protocol Version 4 (TCP/IPv4)
Link-Layer Topology Discovery Mapper I/O Driver
Link-Layer Topology Discovery Responder
Install...
Uninstall
Properties
Description
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
OK
Cancel



Cosi facendo abbiamo cambiato gli indirizzi IP e per assicurarci che ci sia un effettivo collegamento è consigliato fare Ping per entrambi i dispositivi.


kali@Kali: ~
File Azioni Modifica Visualizza Aiuto
inet6 ::1 prefixlen 128 scopeid 0×10<host>
loop txqueuelen 1000 (Local Loopback)
RX packets 2 bytes 100 (100.0 B)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 2 bytes 100 (100.0 B)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
(kali㉿Kali)-[~]
$ ping 192.168.32.101
PING 192.168.32.101 (192.168.32.101) 56(84) bytes of data.
64 bytes from 192.168.32.101: icmp_seq=1 ttl=128 time=25.4 ms
64 bytes from 192.168.32.101: icmp_seq=2 ttl=128 time=3.03 ms
64 bytes from 192.168.32.101: icmp_seq=3 ttl=128 time=2.24 ms
64 bytes from 192.168.32.101: icmp_seq=4 ttl=128 time=15.2 ms
64 bytes from 192.168.32.101: icmp_seq=5 ttl=128 time=3.39 ms
64 bytes from 192.168.32.101: icmp_seq=6 ttl=128 time=2.58 ms
64 bytes from 192.168.32.101: icmp_seq=7 ttl=128 time=2.81 ms
64 bytes from 192.168.32.101: icmp_seq=8 ttl=128 time=2.40 ms
64 bytes from 192.168.32.101: icmp_seq=9 ttl=128 time=2.64 ms
64 bytes from 192.168.32.101: icmp_seq=10 ttl=128 time=2.75 ms
64 bytes from 192.168.32.101: icmp_seq=11 ttl=128 time=2.73 ms
64 bytes from 192.168.32.101: icmp_seq=12 ttl=128 time=2.36 ms
64 bytes from 192.168.32.101: icmp_seq=13 ttl=128 time=3.84 ms
64 bytes from 192.168.32.101: icmp_seq=14 ttl=128 time=3.38 ms
64 bytes from 192.168.32.101: icmp_seq=15 ttl=128 time=2.63 ms
64 bytes from 192.168.32.101: icmp_seq=16 ttl=128 time=3.40 ms
64 bytes from 192.168.32.101: icmp_seq=17 ttl=128 time=3.71 ms
64 bytes from 192.168.32.101: icmp_seq=18 ttl=128 time=2.74 ms
64 bytes from 192.168.32.101: icmp_seq=19 ttl=128 time=2.15 ms
64 bytes from 192.168.32.101: icmp_seq=20 ttl=128 time=2.33 ms
64 bytes from 192.168.32.101: icmp_seq=21 ttl=128 time=3.66 ms
^C
— 192.168.32.101 ping statistics —
21 packets transmitted, 21 received, 0% packet loss, time 20083ms