

W4D4 - PRATICA

per eseguire l'esercizio per prima cosa imposto ip statico da kali linux

Editing Wired connection 1

Connection nameWired connection 1

GeneralEthernet802.1X SecurityDCBProxyIPv4 SettingsIPv6 Settings

MethodManual

Addresses

Address	Netmask	Gateway	
192.168.32.100	24	192.168.32.1	<div>AddDelete</div>

DNS servers

Search domains

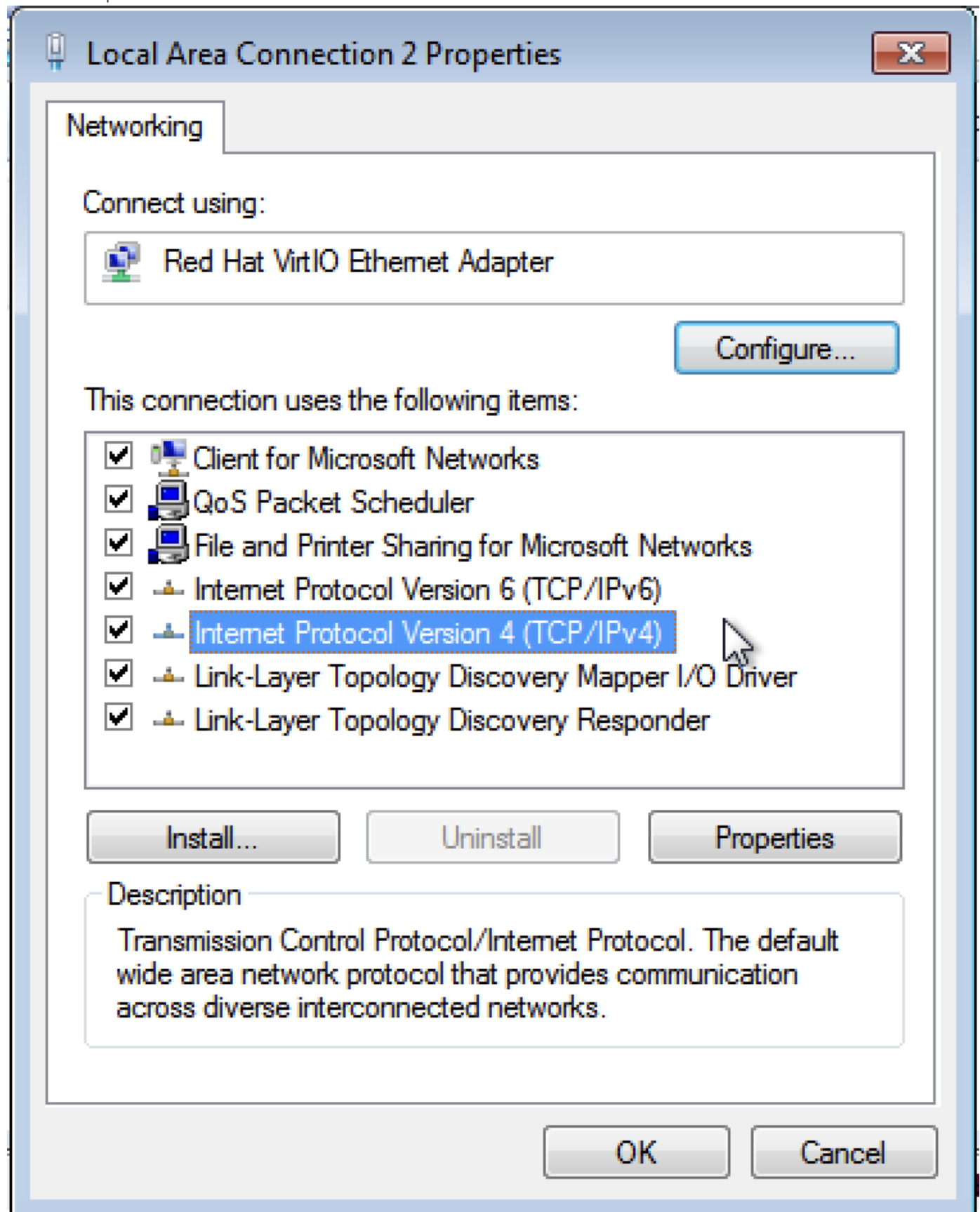
DHCP client ID

☐ Require IPv4 addressing for this connection to complete

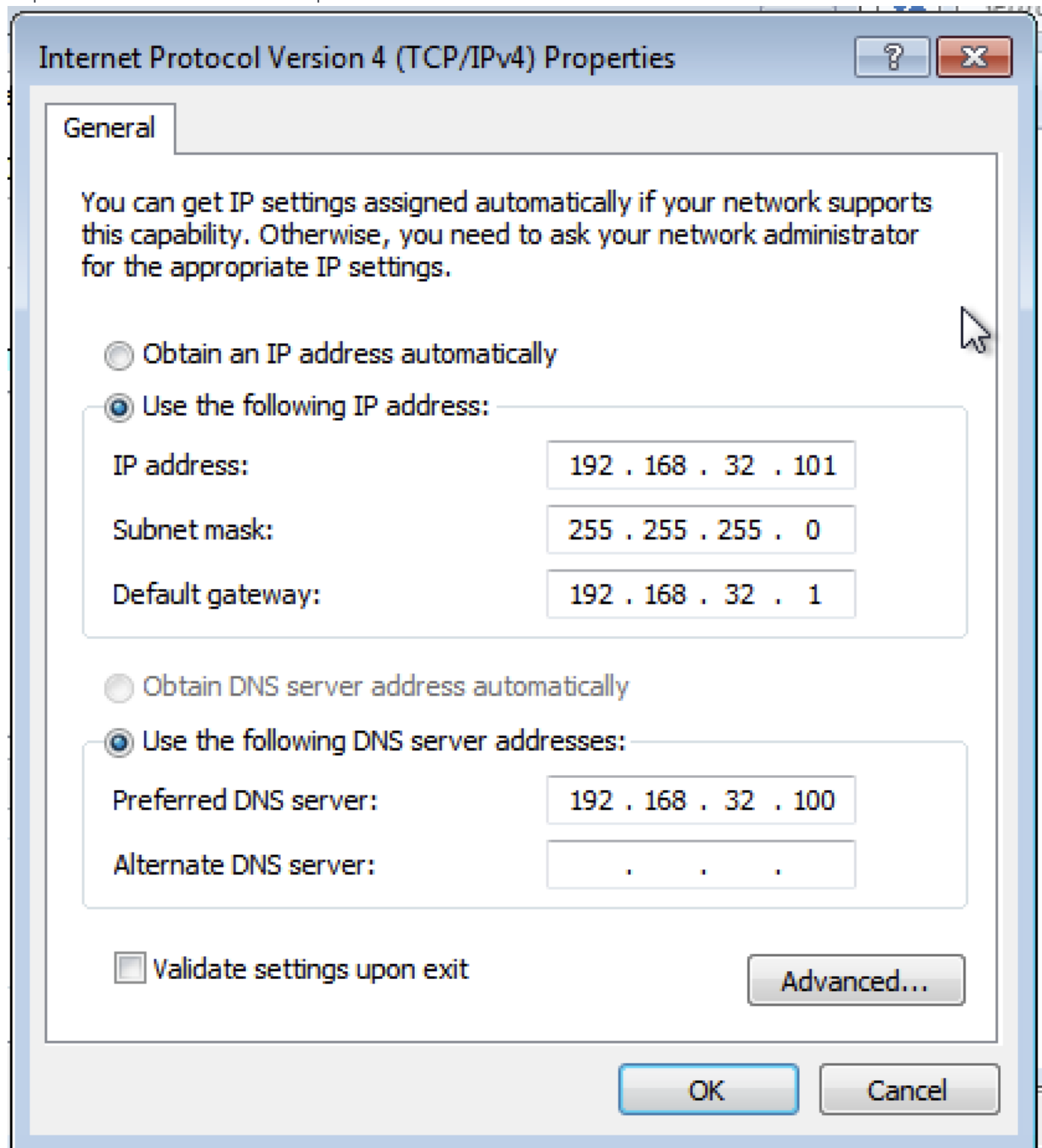
Routes...

Cancel

Save



imposto come DNS l'indirizzo ip di kali linux



per emulare un server DNS useremo inetsim su kali linux

```
(kali㉿kali)-[~]  
$ /etc/inetsim  
  
(kali㉿kali)-[/etc/inetsim]  
$ ls -l  
total 88  
-rw-r--r-- 1 root root 41652 Mar 15 11:15 inetsim.conf  
-rw-r--r-- 1 root root 41640 Mar 15 10:29 inetsim.conf.copy
```

avvio la configurazione di inetsim con il seguente comando

```
(kali㉿kali)-[/etc/inetsim]  
$ sudo nano inetsim.conf
```

aperto il file dovremo attivare, togliendo # dalla riga, start_service
e lasciare attivo l'elenco sottoriportato accertandosi che siano attivi dns http e https

```
kali@kali: /etc/inetsim
File Actions Edit View Help
kali@kali: ~ x kali@kali: ~ x kali@kali: /etc/inetsim x
GNU nano 7.2 inetsim.conf
1 #####
2 #
3 # INetSim configuration file
4 #
5 #####
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8 #####
9 # Main configuration
10 #####
11
12 #####
13 start_service 192.168.32.101 TCP 54 80 -
14 #
15 # The services to start 192.168.32.100 TCP 66 49249
16 # 192.168.32.101 TCP 66 443 -
17 # Syntax: start_service <service name> 192.168.32.100 TCP 54 49249
18 # 192.168.32.100 TCP 66 49250
19 # Default: none 192.168.32.101 TCP 66 443 -
20 # 192.168.32.100 TCP 54 49250
21 # Available service names are: 192.168.32.100 TLSv1 216 Client
22 # dns, http, smtp, pop3, tftp, ftp, ntp, time_tcp, TCP 54 443 -
23 # time_udp, daytime_tcp, daytime_udp, echo_tcp, TLSv1 216 Client
24 # echo_udp, discard_tcp, discard_udp, quotd_tcp, TCP 54 443 -
25 # quotd_udp, chargen_tcp, chargen_udp, finger, bits) on interface eth0,
26 # ident, syslog, dummy_tcp, dummy_udp, smtps, pop3s, 8d:d3:3b (66:02:4f:
27 # ftps, irc, https 192.168.32.101, Dst: 192.168.32.100
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30 start_service http
31 start_service https
32 start_service smtp
33 start_service smtps
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```
kali@kali: /etc/inetsim
File Actions Edit View Help
kali@kali: ~ x kali@kali: ~ x kali@kali: /etc/inetsim x
GNU nano 7.2 inetsim.conf
57 start_service dummy_udp
58
59
60 #####
61 # service_bind_address
62 #
63 # IP address to bind services to
64 #
65 # Syntax: service_bind_address <IP address>
66 #
67 # Default: 127.0.0.1
68 #
69 service_bind_address 192.168.32.100
70
71
72
```

il dns default ip

```
kali@kali: /etc/inetsim
File Actions Edit View Help
kali@kali: ~ x kali@kali: ~ x kali@kali: /etc/inetsim x
GNU nano 7.2 inetsim.conf
198 #####
199 # dns_default_ip
200 #
201 # Default IP address to return with DNS replies
202 #
203 # Syntax: dns_default_ip <IP address>
204 #
205 # Default: 127.0.0.1
206 #
207 dns_default_ip 192.168.32.100
208
209
```

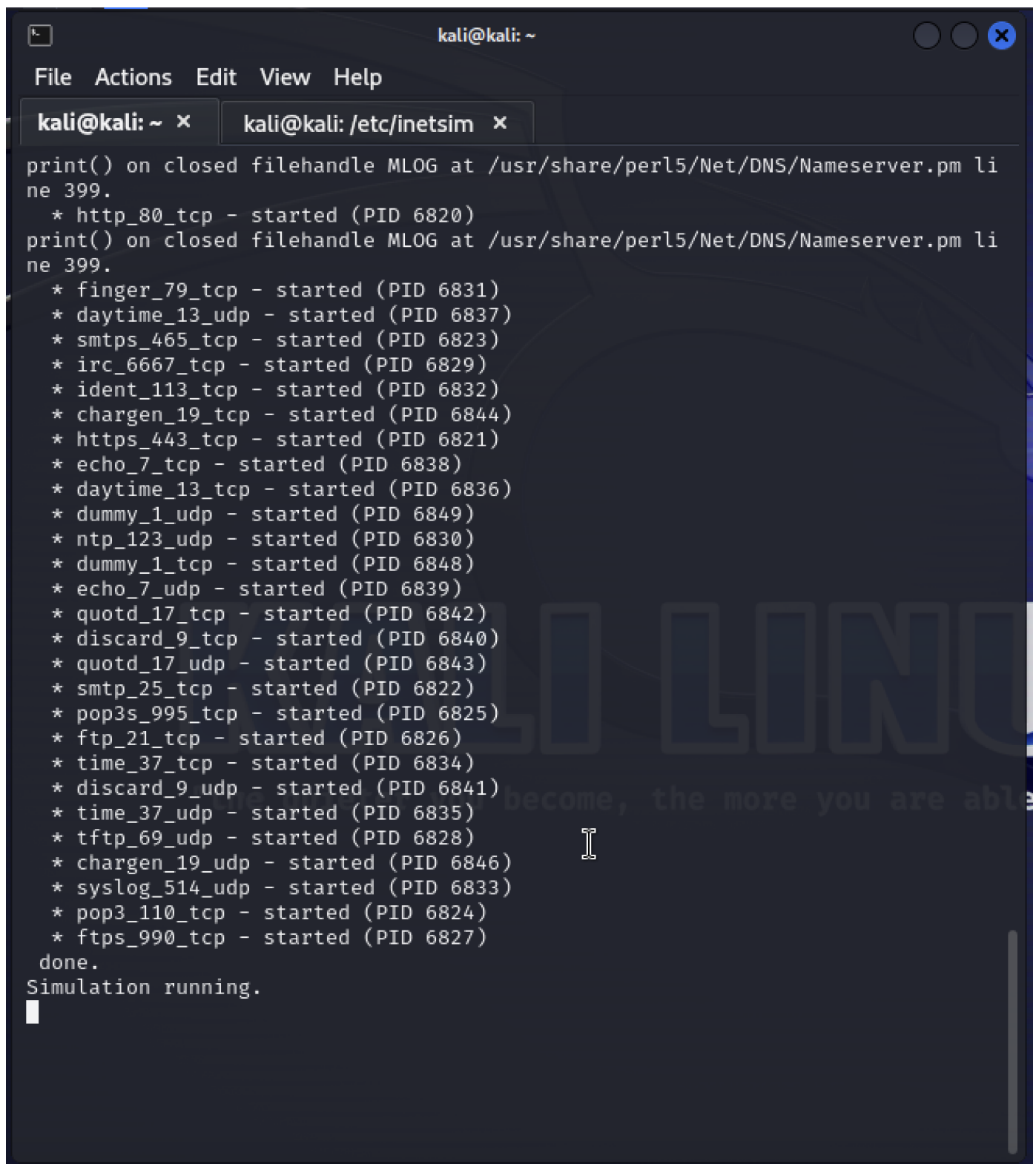
e il dns statico

```
kali@kali: /etc/inetsim
File Actions Edit View Help
kali@kali: ~ x kali@kali: ~ x kali@kali: /etc/inetsim x
GNU nano 7.2 inetsim.conf
234 #####
235 # dns_static
236 #
237 # Static mappings for DNS
238 #
239 # Syntax: dns_static <fqdn hostname> <IP address>
240 #
241 # Default: none
242 #
243 dns_static epicode.internal 192.168.32.100
244 #dns_static ns1.foo.com 10.70.50.30
245 #dns_static ftp.bar.net 10.10.20.30
246
247
```

salvo le modifiche con ^o e chiudo il file

faccio partire inetsim come segue e si visualizzeranno le seguenti immagini

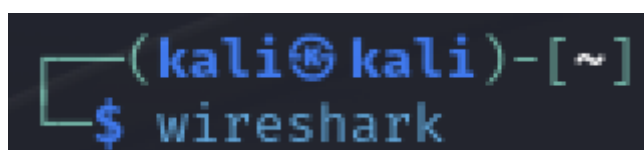
```
kali@kali: ~  
File Actions Edit View Help  
kali@kali: ~ x kali@kali: /etc/inetsim x  
  
(kali@kali)-[~]  
$ sudo inetsim  
INetSim 1.3.2 (2020-05-19) by Matthias Eckert & Thomas Hungenberg  
Using log directory: /var/log/inetsim/  
Using data directory: /var/lib/inetsim/  
Using report directory: /var/log/inetsim/report/  
Using configuration file: /etc/inetsim/inetsim.conf  
Parsing configuration file.  
Use of uninitialized value $args[1] in lc at /usr/share/perl5/INetSim/Config.p  
m line 529, <$CONFIGFILE> line 13.  
Warning: Unknown service name '' in configuration file '/etc/inetsim/inetsim.c  
onf' line 13  
Configuration file parsed successfully.  
== INetSim main process started (PID 6817) ==  
Session ID: 6817  
Listening on: 192.168.32.100  
Real Date/Time: 2024-03-15 11:00:07  
Fake Date/Time: 2024-03-15 11:00:07 (Delta: 0 seconds)  
Forking services ...  
* dns_53_tcp_udp - started (PID 6819)  
print() on closed filehandle MLOG at /usr/share/perl5/Net/DNS/Nameserver.pm li  
ne 399.  
* http_80_tcp - started (PID 6820)  
print() on closed filehandle MLOG at /usr/share/perl5/Net/DNS/Nameserver.pm li  
ne 399.  
* finger_79_tcp - started (PID 6831)  
* daytime_13_udp - started (PID 6837)  
* smtps_465_tcp - started (PID 6823)  
* irc_6667_tcp - started (PID 6829)  
* ident_113_tcp - started (PID 6832)  
* chargen_19_tcp - started (PID 6844)  
* https_443_tcp - started (PID 6821)  
* echo_7_tcp - started (PID 6838)  
* daytime_13_tcp - started (PID 6836)  
* dummy_1_udp - started (PID 6849)  
* ntp_123_udp - started (PID 6830)  
* dummy_1_tcp - started (PID 6848)  
* echo_7_udp - started (PID 6839)  
* quotd_17_tcp - started (PID 6842)
```

```
kali@kali: ~
File Actions Edit View Help
kali@kali: ~ x kali@kali: /etc/inetsim x
print() on closed filehandle MLOG at /usr/share/perl5/Net/DNS/Nameserver.pm line 399.
* http_80_tcp - started (PID 6820)
print() on closed filehandle MLOG at /usr/share/perl5/Net/DNS/Nameserver.pm line 399.
* finger_79_tcp - started (PID 6831)
* daytime_13_udp - started (PID 6837)
* smtps_465_tcp - started (PID 6823)
* irc_6667_tcp - started (PID 6829)
* ident_113_tcp - started (PID 6832)
* chargen_19_tcp - started (PID 6844)
* https_443_tcp - started (PID 6821)
* echo_7_tcp - started (PID 6838)
* daytime_13_tcp - started (PID 6836)
* dummy_1_udp - started (PID 6849)
* ntp_123_udp - started (PID 6830)
* dummy_1_tcp - started (PID 6848)
* echo_7_udp - started (PID 6839)
* quotd_17_tcp - started (PID 6842)
* discard_9_tcp - started (PID 6840)
* quotd_17_udp - started (PID 6843)
* smtp_25_tcp - started (PID 6822)
* pop3s_995_tcp - started (PID 6825)
* ftp_21_tcp - started (PID 6826)
* time_37_tcp - started (PID 6834)
* discard_9_udp - started (PID 6841)
* time_37_udp - started (PID 6835)
* tftp_69_udp - started (PID 6828)
* chargen_19_udp - started (PID 6846)
* syslog_514_udp - started (PID 6833)
* pop3_110_tcp - started (PID 6824)
* ftps_990_tcp - started (PID 6827)
done.
Simulation running.
```

si possono vedere tutti i processi simulati da inetsim e la scritta Simulation running ci conferma che inetsim è attivo.

avvio wireshark per mettermi in ascolto digitandolo dalla shell

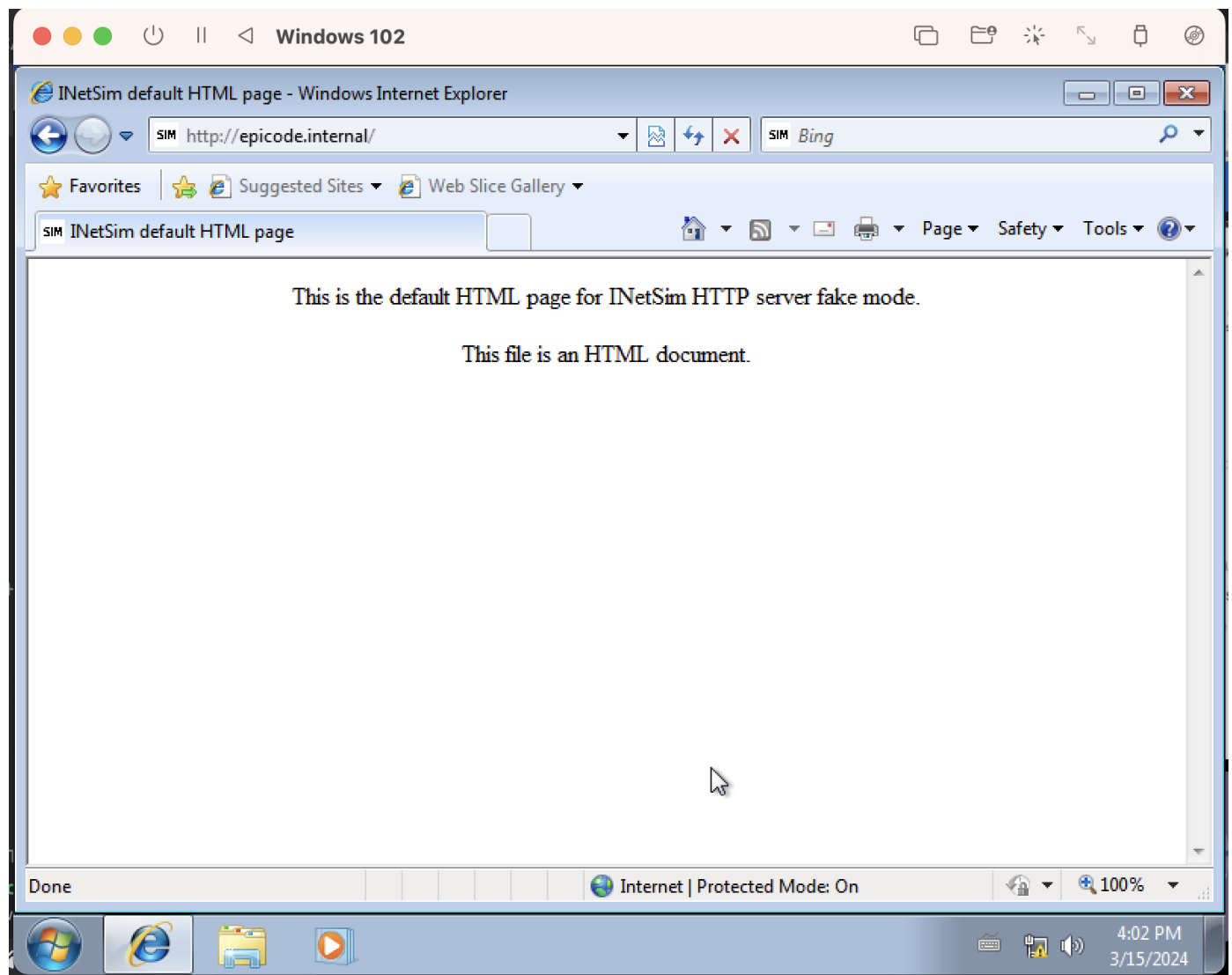


```
(kali@kali)-[~]
$ wireshark
```

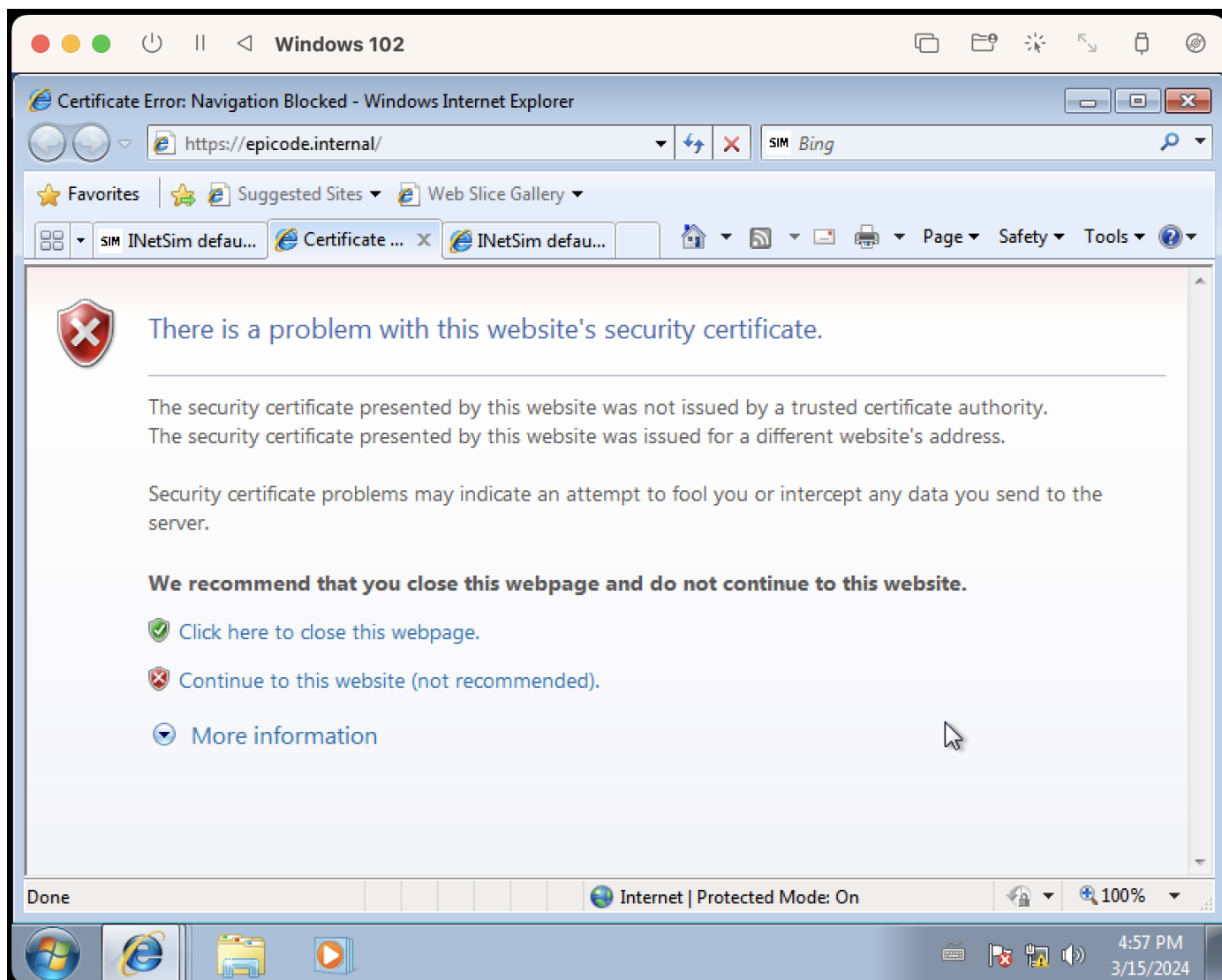
passo a window 7

avvio internet explorer e inserisco l'indirizzo richiesto

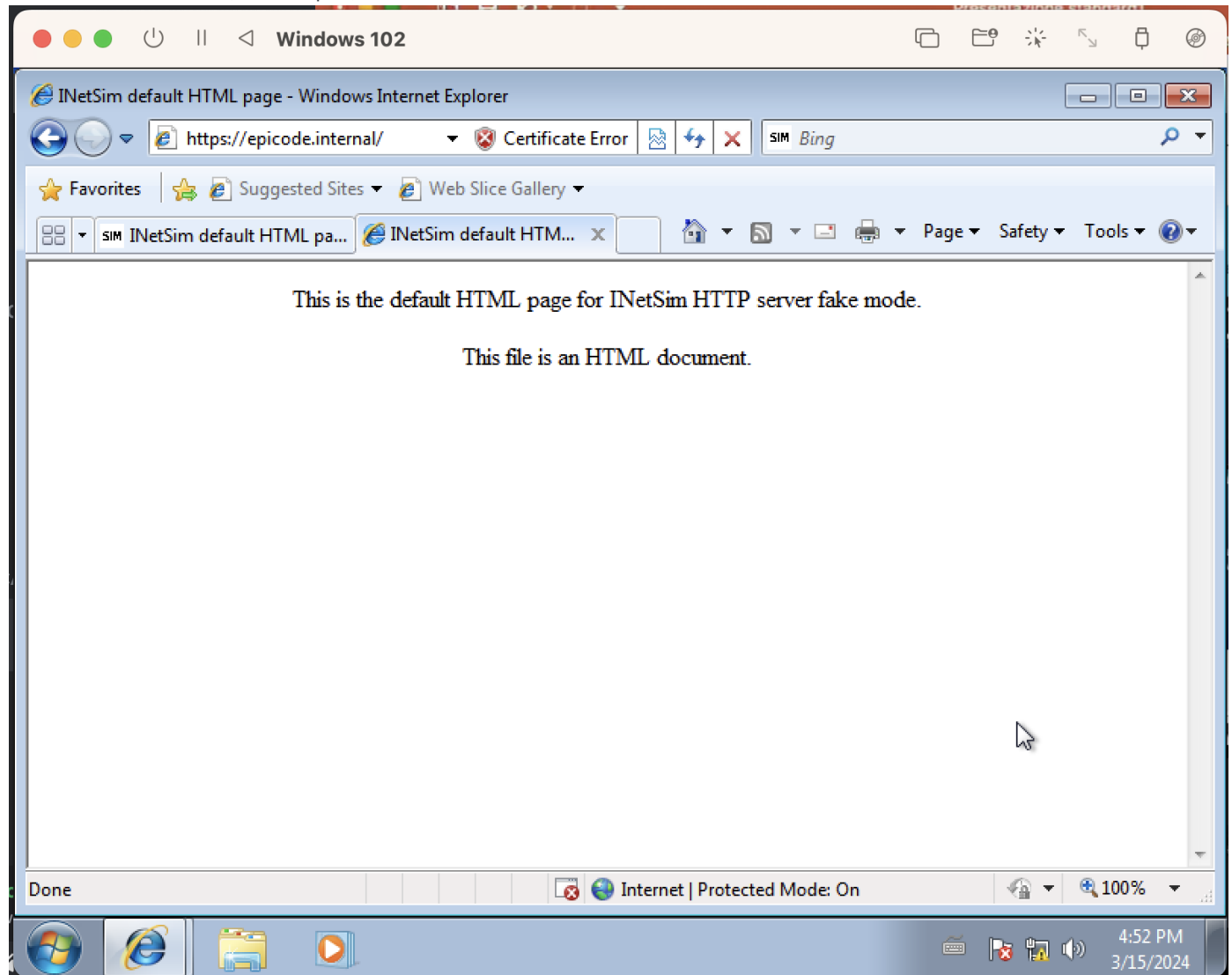
<http://epicode.internal>



apro un altra scheda di internet explorer e digito <https://epicode.internal>
clicco su Continue to this website

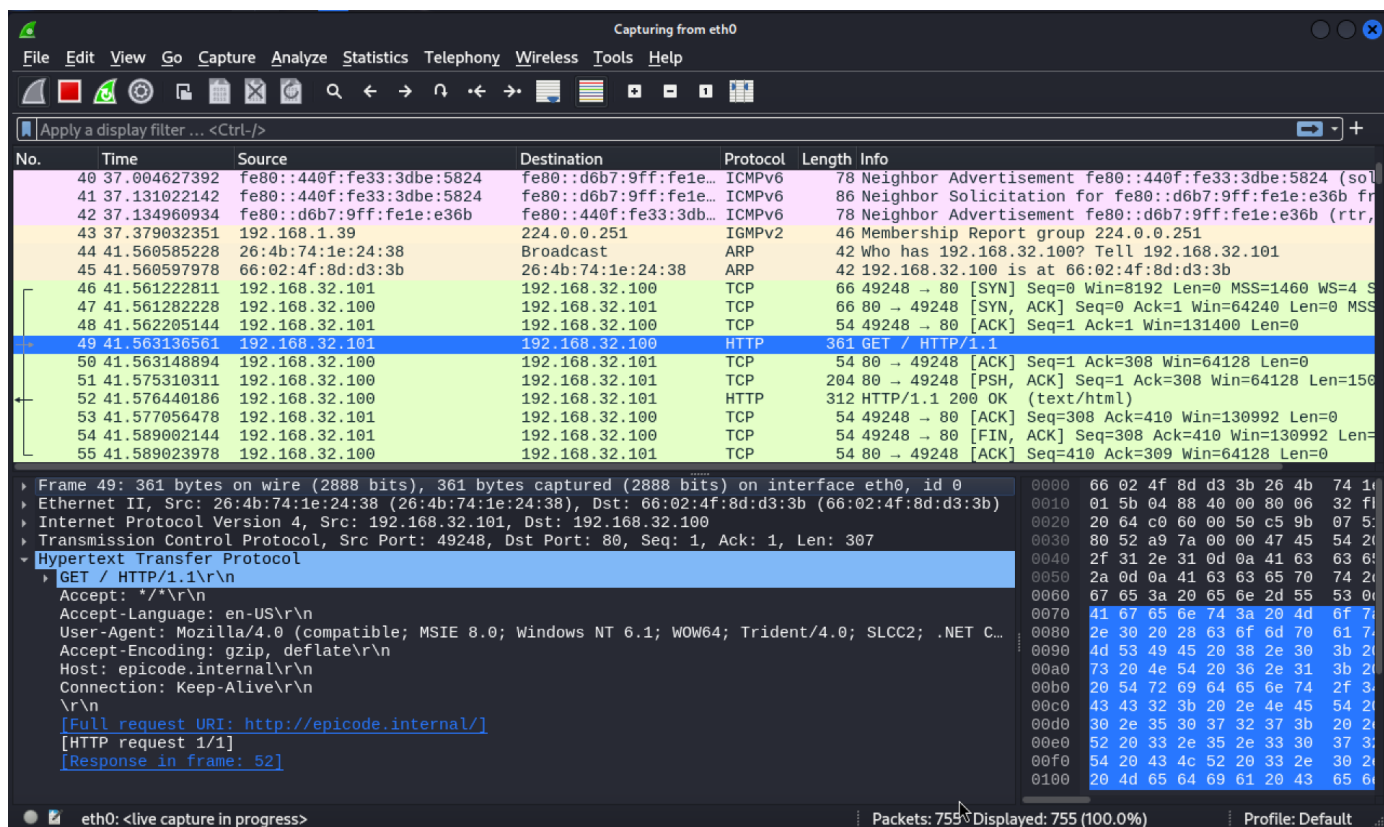


mi restituisce la seguente pagina

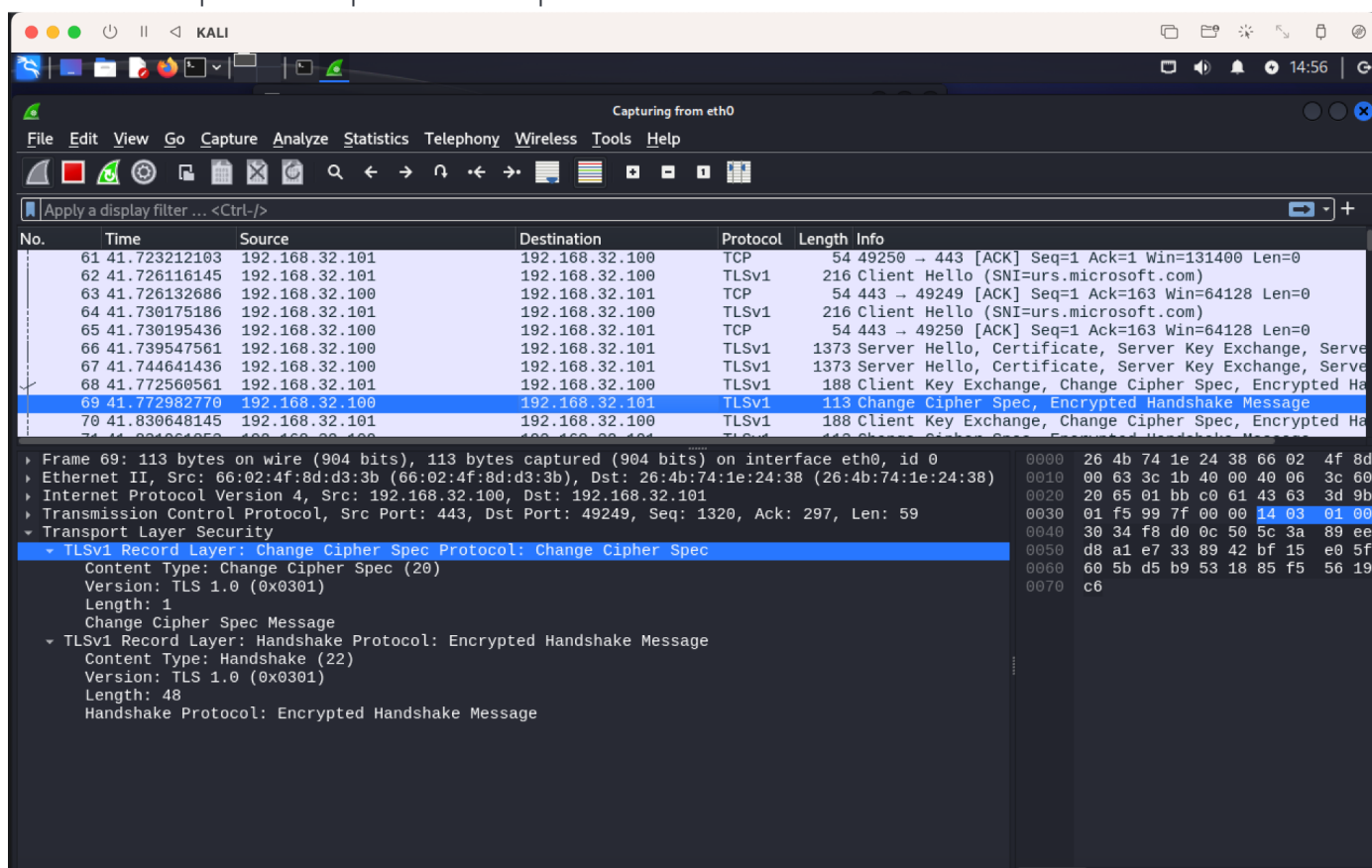


ritorno su kali linux e wireshark

alla riga 49 posso vedere la richiesta http al nostro sito
<http://epicode.internal> e i 2 MAC address



scendendo alla riga 69 posso vedere i 2 MAC address
e l'handshake protocol criptato con l'https



Http e https sono due varianti dello stesso protocollo di trasmissione, sono molto utilizzati durante la navigazione web mediati i più conosciuti browser.

La principale differenza tra http (HyperText Transfer Protocol) ed https (la cui s finale sta per Secure) sta nella maggiore sicurezza che quest'ultima variante di protocollo offre rispetto alla prima. Infatti, se nell'http lo scambio di risorse tra client e server avviene "in chiaro" (ovvero l'informazione che viene diffusa può essere letta da chi decide di intromettersi senza diritto nello scambio dei dati), nell'https la comunicazione è protetta grazie all'impiego di determinati certificati (come quello SSL, acronimo di Secure Socket Layer) che garantiscono l'identità dei dati e la loro riservatezza, la cifratura del traffico, la verifica di integrità del traffico