MyFileServer 3

I will share with you a new Walkthrough for Infosec Warriors CTF machines. My File Server: 3 Walkthrough for the CTF machine is created by Vishal Biswas AKA Cyberknight. You can download here this CTF. It states the level is Intermediate level and that is true. Either way, you explore a little if this is unfamiliar and that's how you learn. Link to download: https://www.infosecwarrior.com/my-file-server-3/

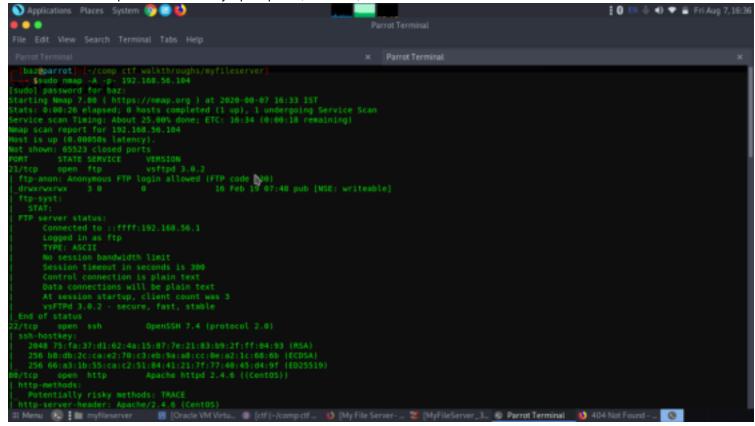
Reconnaisance

Let's start by identifying our target IP using netdiscover

```
Currently scanning: 192.168.125.0/16
                                           Screen View: Unique Hosts
2 Captured ARP Reg/Rep packets, from 2 hosts.
                                               Total size: 102
  IP
                At MAC Address
                                  Count
                                                  MAC Vendor / Hostname
                                             Len
192.168.56.100
               08:00:27:cb:83:eb
                                              42
                                                  PCS Systemtechnik GmbH
                                       1
192.168.56.104
               08:00:27:b9:fa:7d
                                              60
                                                  PCS Systemtechnik GmbH
  [baz@parrot]—[~/comp ctf walkthroughs/myfileserver]
```

IP- 192.168.56.104

Now let's do nmap scan to identify open ports, services, version etc



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Applications Places System 

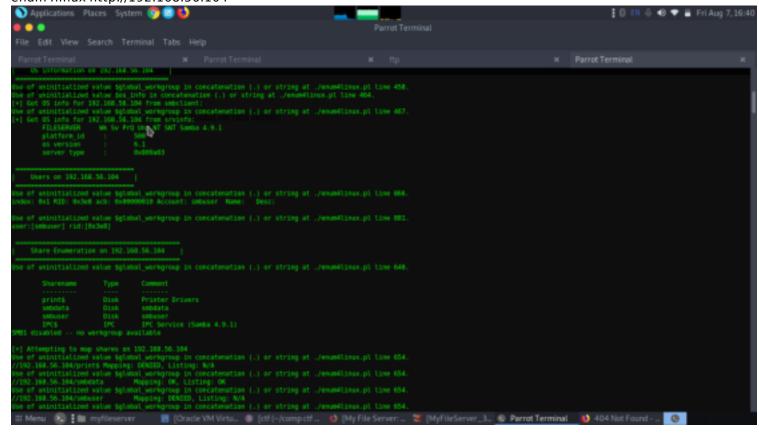
Parrot Terminal

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There was a number of ports open. 21, 2121 (ftp)- It also allows anonymous login. 80(http) 22(ssh) 139,445(netbios,samba) 1337(waste management) 2049,20048,56494,59370

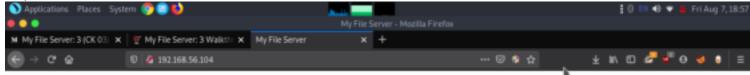
Enumeration

Since the smb ports are open let's first enumerate using enum4linux enum4linux http://192.168.56.104



Great from this scan we got to know there were few shares which were present and smbdata was also open. Now I went on to explore port 80 http service

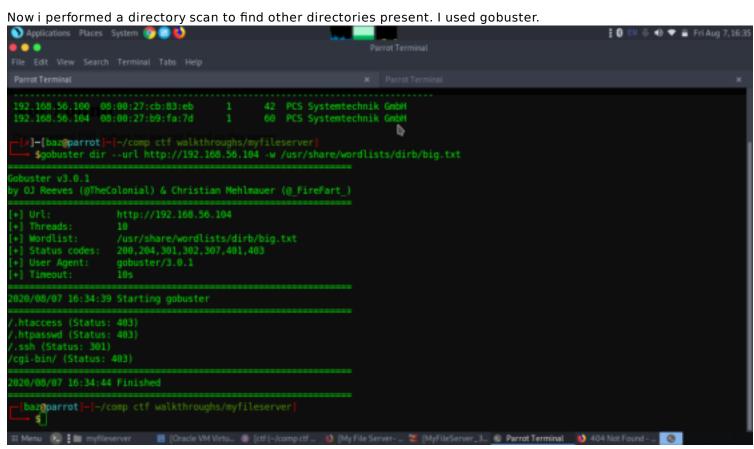
http://192.168.56.104



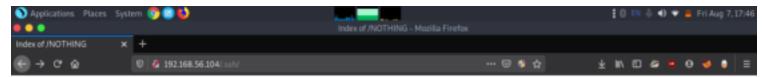
Armour Infosec

Menu 😥 📳 [myfileserver3] 🐞 My File Server - Mazilla... 🐞 [Index of /NOTHIN

My File Server

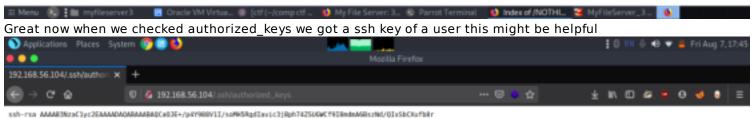


Now from the scan we understood there is a directory named .ssh present. Let's check to find contents present in it. http://192.168.56.104/.ssh



Index of /.ssh





ssh-rsa MAARSNzaClyc2EAAAADNQARAARBQCs03E+/p4Y968V1I/soMsSRpdIxvic3j8ph74ZSUGWCf918mdmAG8csNd/OlxSbCNufb8r /yPMuoTDet3NDHysb3RuPsS08NN12G+ZsQATcGdf67S8W8+9vG1APPxbbZiaok8jWXkSvMXx3mDhhtqENjbnn3fb000vdek1/+xh2ChwknsKtf55zMgv2kFXFfm308KVogVYncnmsNohd8wJullmDJVHuGqvg9KnFCjb /gPhfh0jT1287cuseaKAzY802g41MPNyV65zwAmHxH00000u6ssXn12MCRq/imd0v7It1+L1406b0TRCqm2FLRKKcGPohJC1ElnzTkvhalEx smbuser@FileServer_CK10-test

Let's download it into our local machine. It would be really helpful.

wget http://192.168.56.104/.ssh/authorized_keys

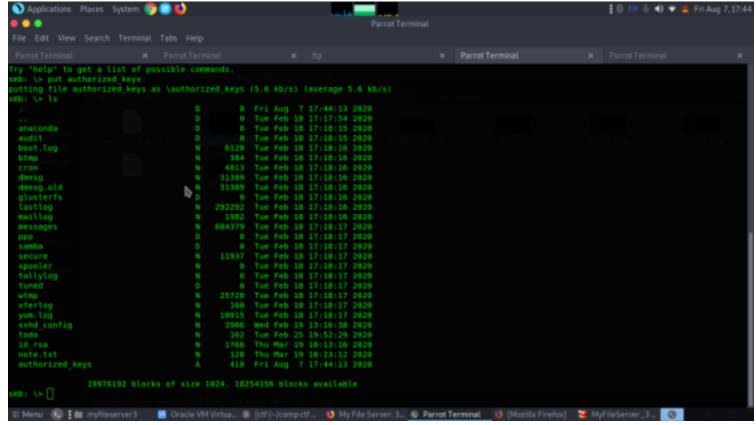
After downloading the file we went to smb server. We know that "smbdata" has read and write permission . so put the authorized_keys in it.. which i downloaded from port 80 ".ssh" folder...

and its successfully done.

smbclient //192.168.56.104/smbdata

put authorized_keys

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We also downloaded id_rsa which was present in the smbserver.

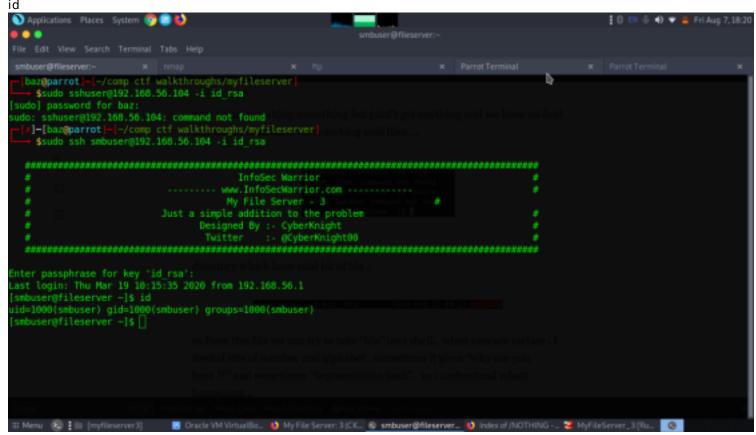
we know that port 2121 ProFTPD 1.3.5 has "FILE COPY" vulnerability.. so i login in ftp 2121 without username and password just press enter and enter..

and copy authorized_keys from smbdata to smbuser's .ssh directory.. (because authorized_keys will connect id_rsa file when we use ssh for login of smbuser)

Exploitation

now i tried to take ssh form id_rsa file which we downloded from port 80.. and enter passphrase which we cracked "password" and yeahh we got a smbuser shell

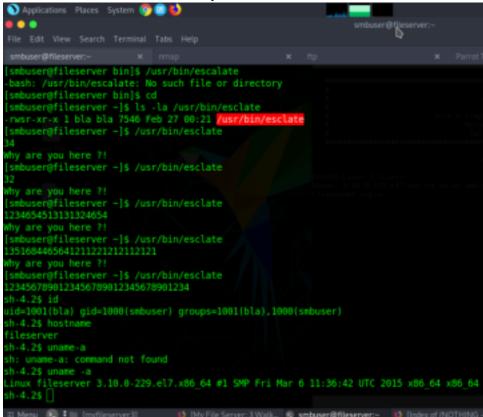
ssh smbuser@192.168.56.104 -i id_rsa pass- password



here we got 2 folders in home directory ..but "bla" directory has no read and write permission for smbuser..now i start searching something but i did't get anything and we have no find and locate command for searching suid files...

so i start searching manually and i got a file "esclate" from "/usr/bin" directory which have suid bit of bla. so from this file we can try to take "bla" user shell.. when execute esclate . I feeded lots of number and alphabet ..sometimes it gives "why are you here ?!" and sometimes "Segmentation fault".. so i understand whats happening ..

" i gave a value (number) which comes in between both the errors..and yeahh "i got a bla user group" (i think this vulnerability is known as buffer errors or bufferoverflow not confirmed but may be)



and yesss .. finally i got a "bla" user groups..

then i tried to go in bla user directory .. and yeah finally i am in.

yeahh i got bla user flag: 0aab4a2c6d75db7ca2542e0dacc3a30f

after reading the flag .. here is a hint that "you can crack this hash, because it is also my pasword" so after cracking the hash i got bla user password 0aab4a2c6d75db7ca2542e0dacc3a30f:itiseasy

password is "itiseasy" bla:itiseasy sudo -l sudo -u root /usr/sbin/capsh -id cd /root

