Broken gallery

This is another Ctf named broken gallery. The credit of this VM goes to "Avraham Cohen". The machine is focussed on for begginers. . This is a Linux based CTF challenge where you can use your basic pentest skill for Compromising this VM to escalate the root privilege shell.

Link to download: https://www.vulnhub.com/entry/broken-gallery,344/ Let's start

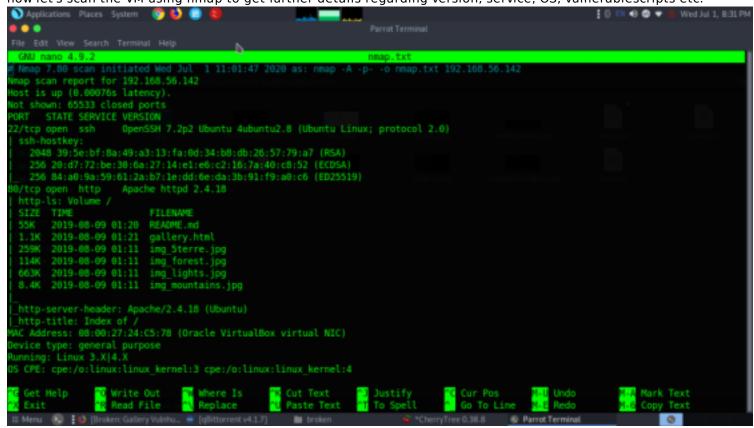
Information Gathering

As always let's start by getting the IP of the machine. For this we would use netdiscover. netdiscover -i vboxnet0

```
Currently scanning: 192.168.118.0/16
                                            Screen View: Unique Hosts
2 Captured ARP Reg/Rep packets, from 2 hosts.
                                                 Total size: 102
  IΡ
                At MAC Address
                                                   MAC Vendor / Hostname
                                    Count
                                              Len
192.168.56.100
                08:00:27:1e:ff:fa
                                               42
                                                   PCS Systemtechnik GmbH
192.168.56.142
                08:00:27:24:c5:78
                                        1
                                               60
                                                   PCS Systemtechnik GmbH
```

The IP of the VM is 192.168.56.142

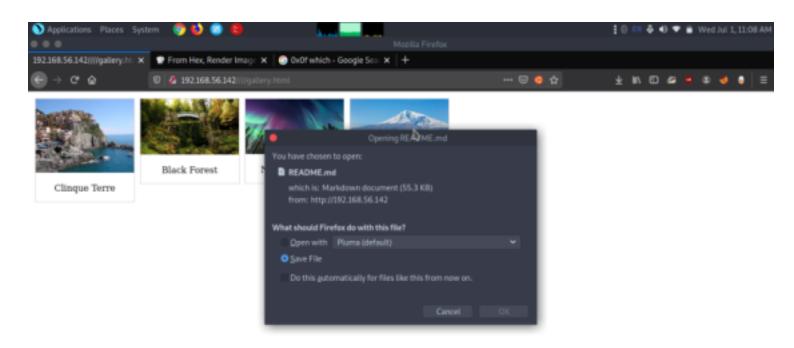
now let's scan the VM using nmap to get further details regarding version, service, OS, vulnerablescripts etc.

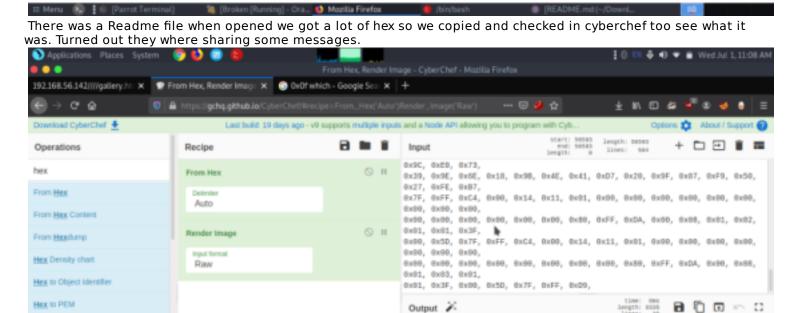


Enumeration

For more detail we need to start enumeration against the host machine, therefore, we navigate to a web browser for exploring HTTP service.

We obtained some image files . Thus, we downloaded and explored each file but didn't found any remarkable clue for further move.





Helia Bob

The application is BROKEN I the whole infrastructure is BROKEN III

I am leaving for my summer vacation, I hope you get it fix soon ...

we got a user named bob and some message. we tried different methods to move further. considering above file name could be helpful in generating a wordlist for brute force attack, I saved above file names and all relevant hint in two text files and named them "user.txt" & "pass.txt" as shown below.

Auto Bake

👿 BAKE!

STEP

Object Identifier to Hex

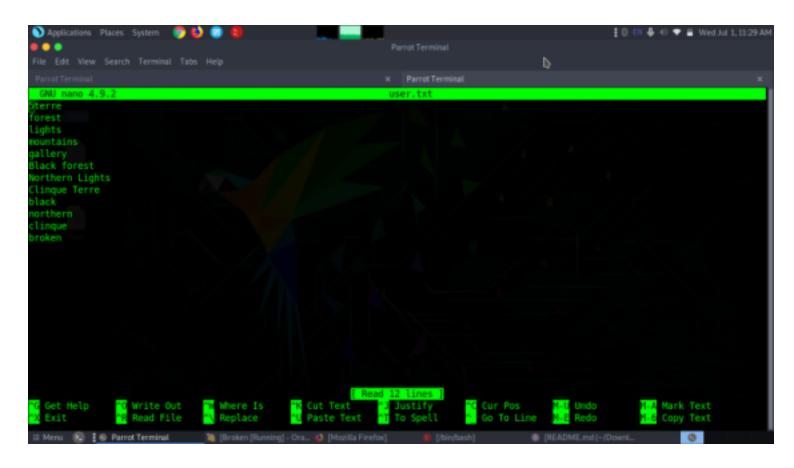
Parse ASN.1 hex string

PEM to Hex

To Hex

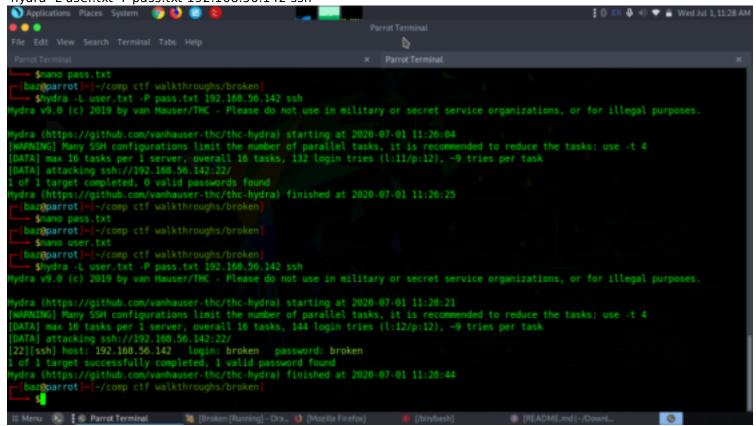
To Hex Content

To Hesdump



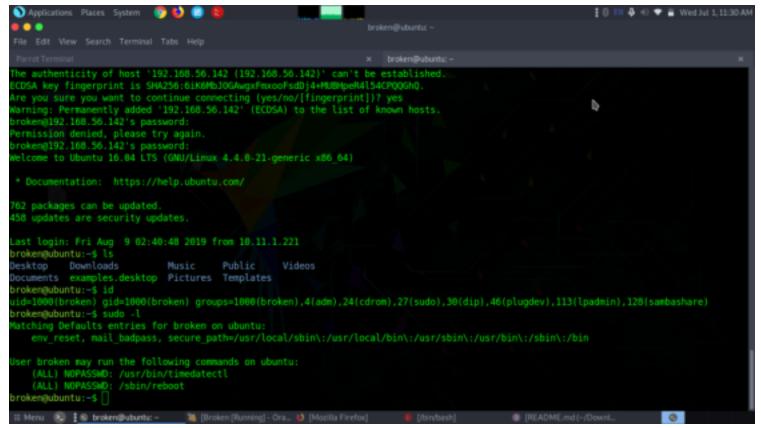
Exploitation

Then we tried to do a dictionary attack using hydra. hydra -L user.txt -P pass.txt 192.168.56.142 ssh



successfully we got a username and password named broken.

With the help of above credential, we logged in and access the low privilege through user broken and notice that he has sudo rights for timedatectl and reboot to be executed with root privilege.

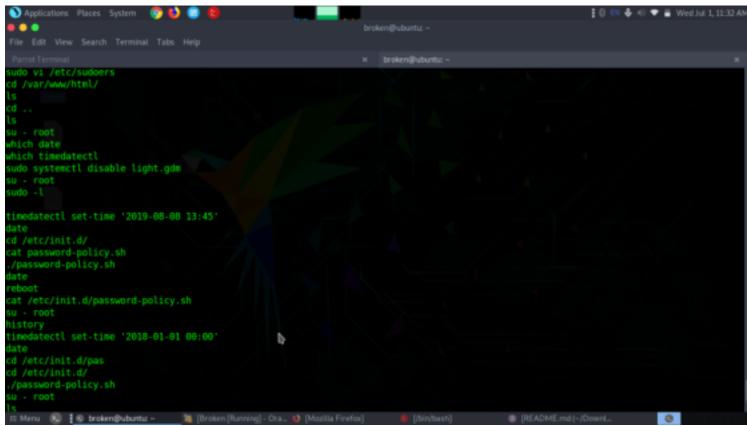


we got to know user had sudo permission and when tried sudo -l

we could escalate using timedatectl and reboot

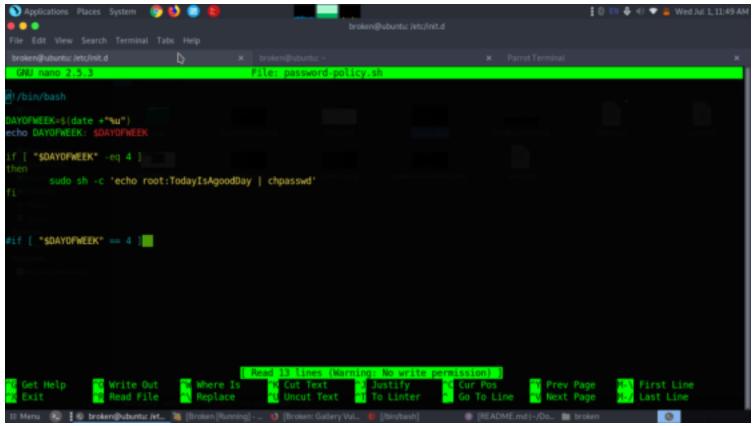
we checked for more hints and cat .bash_history gave us some more hints.

To escalate the root privilege, we went for post enumerating and looked for .bash_history file.

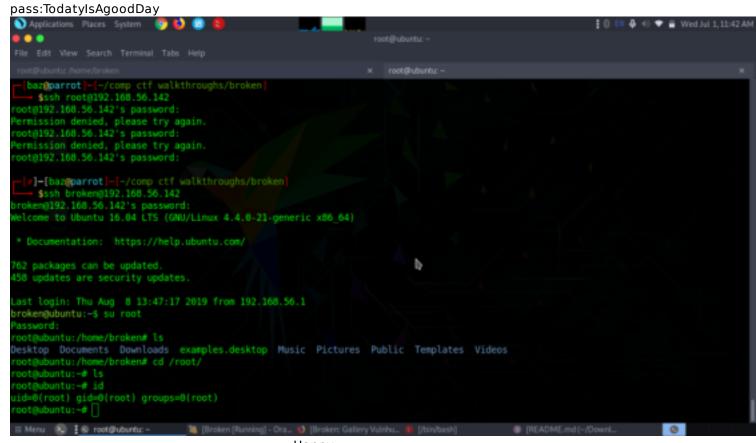


In this file, we noticed some interesting action has been performed by the author which was pointing towards a file name "password-policy.sh" that exist inside /etc/init.d moreover a command to set time-date using "timedatectl" command and much more.

so we were able to execute password-policy.sh now let's see the contents inside that executable file.



seems like we got the password of root. when tried to login using those credentials turned out to be successfull. su root



......Happy Hacking......Happy