

[CDDC19]-TechNoLogic Writeup

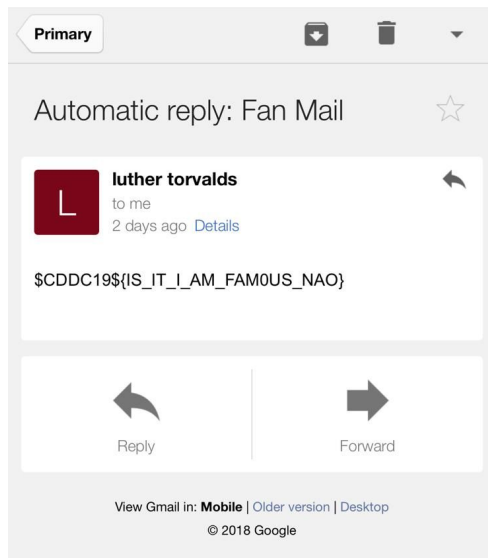
by Terence, Azalia, Darren, Zhi Qin

[R0] Everyone <3 Fan Mail

<https://who.is/whois/lightspeedcorp.global>

You will obtain the administrative email **Luther.Torvalds@outlook.com**

Then email to administrative contact as fan mail. There will be a return email with the flag



Flag

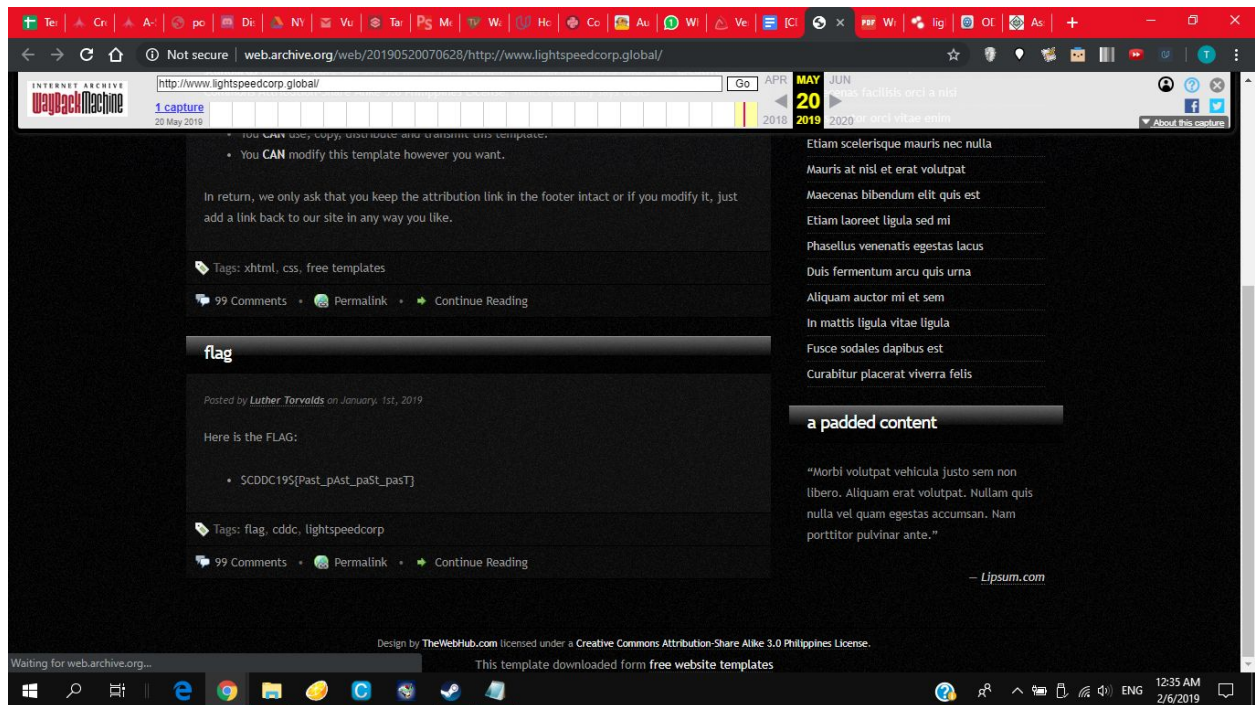
\$CDDC19\${IS_IT_I_AM_FAMOUS_NAO}

[R-1] Travel to the Past

Solution

<http://web.archive.org/web/20190520070628/http://www.lightspeedcorp.global/>

Use Wayback machine to get a previous web capture of the website



Flag

\$CDDC19{Past_pAst_paSt_pasT}

[R-2] I'm Sho Done With This

Solution

<https://www.shodan.io/search?query=lightspeedcorp>

The screenshot shows the Shodan search results for the query 'lightspeedcorp'. The page displays two search results. The first result is for IP 157.140.140.158, which is associated with 'MyRepublic' in Singapore. The second result is for IP 54.180.113.219, which is associated with 'AWS Asia Pacific (Seoul) Region' in Korea. Both results show a flag: }U-gnihc7aW-er4-sreht0rB-hc3T-g1B{\$91CDDC\$. The page also includes a sidebar with filters for countries, organizations, and products.

Shodan search results for 'lightspeedcorp'.

TOTAL RESULTS
2

TOP COUNTRIES

- Singapore 1
- Korea, Republic of 1

TOP ORGANIZATIONS

- MyRepublic 1
- AWS Asia Pacific (Seoul) Region 1

TOP PRODUCTS

- Apache httpd 2

New Service: Keep track of what you have connected to the Internet. Check out [Shodan Monitor](#)

157.140.140.158 [157.140.140.158.myrepublic.com.sg](#)
MyRepublic
Added on 2019-05-28 03:20:06 GMT
Singapore, Singapore

HTTP/1.1 200 OK
Date: Tue, 28 May 2019 03:20:06 GMT
Server: Apache
IMPORTANT: PLEASE-DO-NOT-ATTACK
Company: [lightspeedcorp](#)
FLAG: }U-gnihc7aW-er4-sreht0rB-hc3T-g1B{\$91CDDC\$
Content-Length: 21
Content-Type: text/html; charset=UTF-8

54.180.113.219 [ec2-54-180-113-219.ap-northeast-2.compute.amazonaws.com](#)
AWS Asia Pacific (Seoul) Region
Added on 2019-05-29 20:01:06 GMT
Korea, Republic of, Incheon

HTTP/1.1 200 OK
Date: Wed, 29 May 2019 20:01:06 GMT
Server: Apache
IMPORTANT: PLEASE-DO-NOT-ATTACK
Company: [lightspeedcorp](#)
FLAG: }U-gnihc7aW-er4-sreht0rB-hc3T-g1B{\$91CDDC\$
Content-Length: 21
Content-Type: text/html; charset=UTF-8

© 2013-2019, All Rights Reserved - Shodan®

Reverse the order of }U-gnihc7aW-er4-sreht0rB-hc3T-g1B{\$91CDDC\$

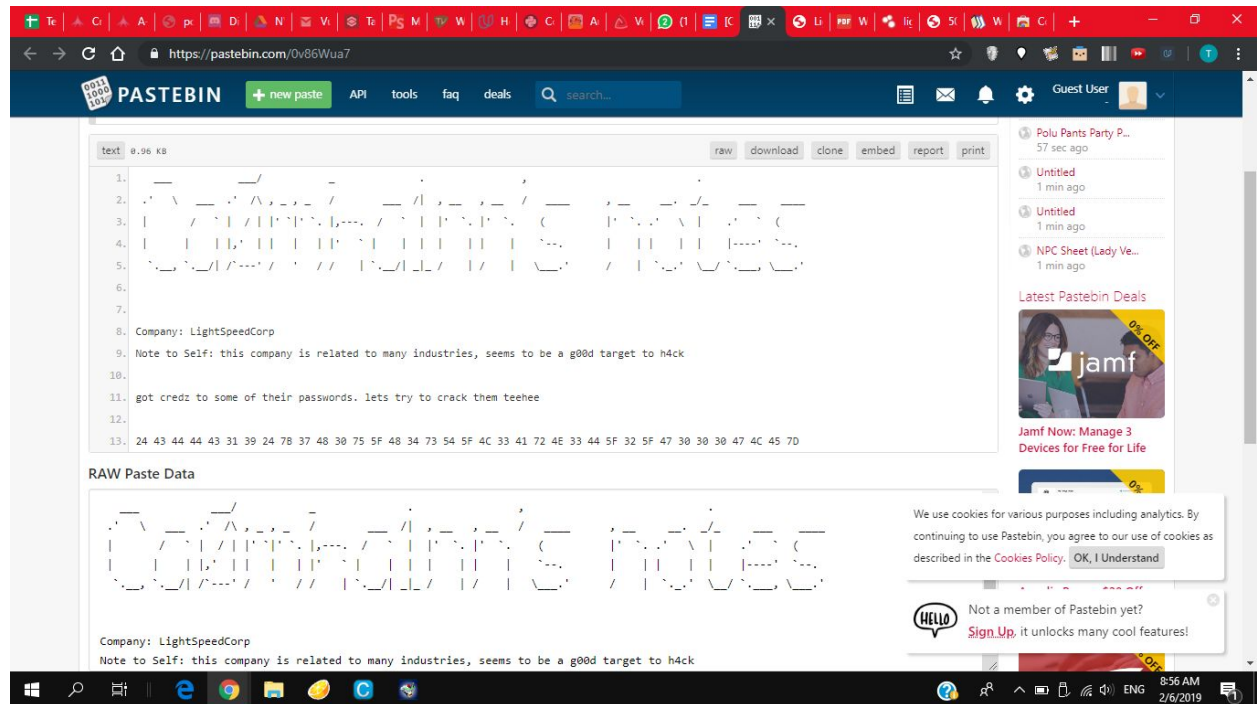
Flag

\$CDDC19\${B1g-T3ch-Br0thers-4re-Wa7ching-U}

[R-3-1] Have They Been Pwned?

Solution

<https://pastebin.com/0v86Wua7>



1. 24 43 44 44 43 31 39 24 7B 37 48 30 75 5F 48 34 73 54 5F 4C 33 41 72 4E 33 44 5F 32 5F
2. 47 30 30 30 47 4C 45 7D

Using a hexadecimal to text converter, you can get the flag

Flag

\$CDDC19\${7H0u_H4sT_L3ArN3D_2_G000GLE}

[R-4-1] Where I Get All My Memes From

Solution

<https://twitter.com/LutherTorvalds?lang=en> luther torvalds twitter.

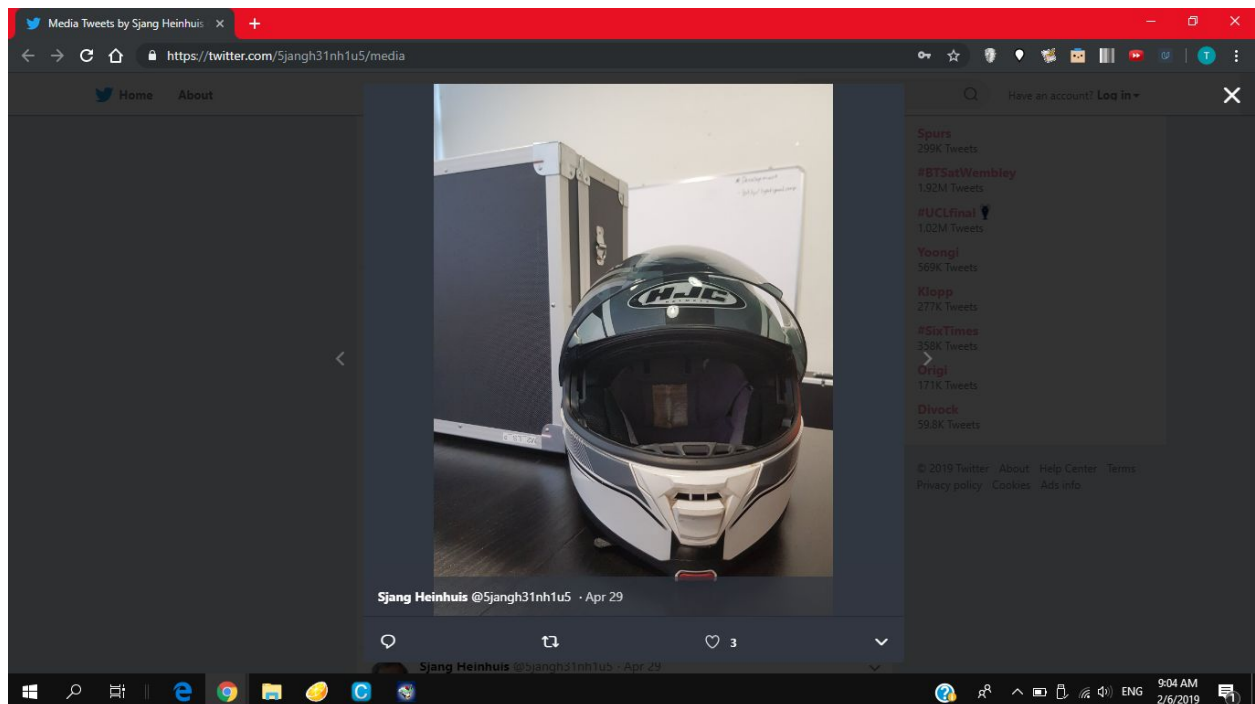
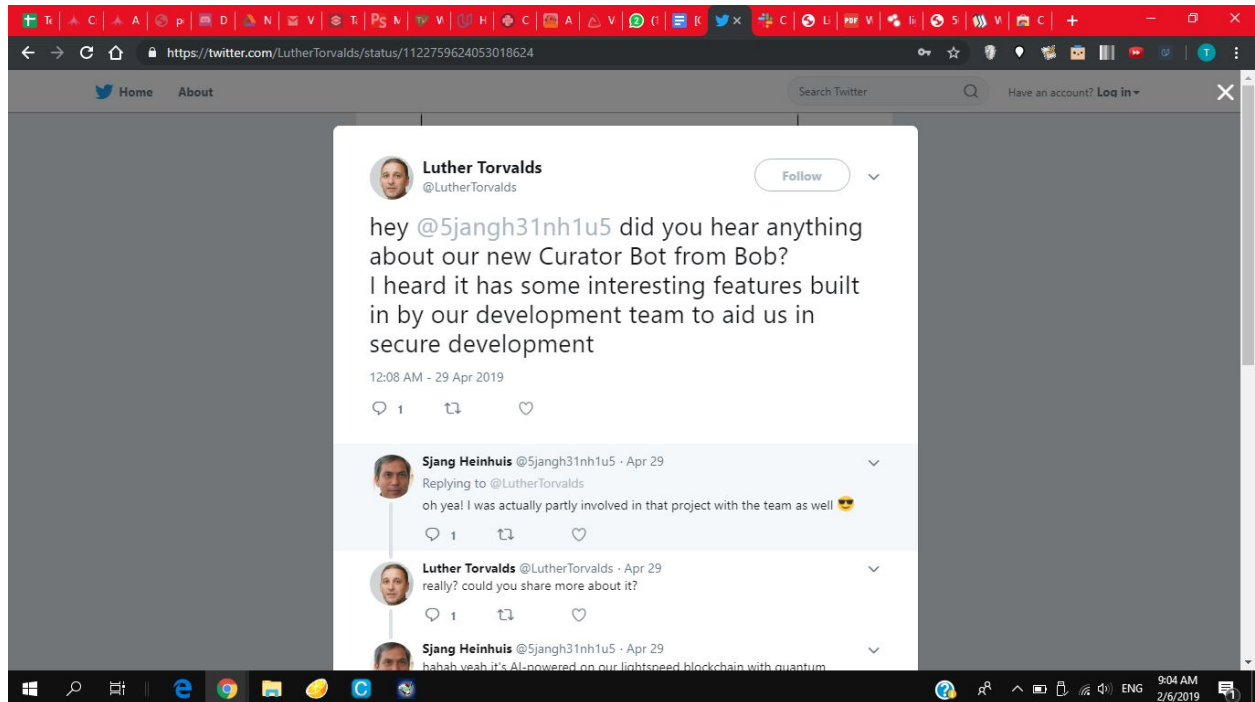


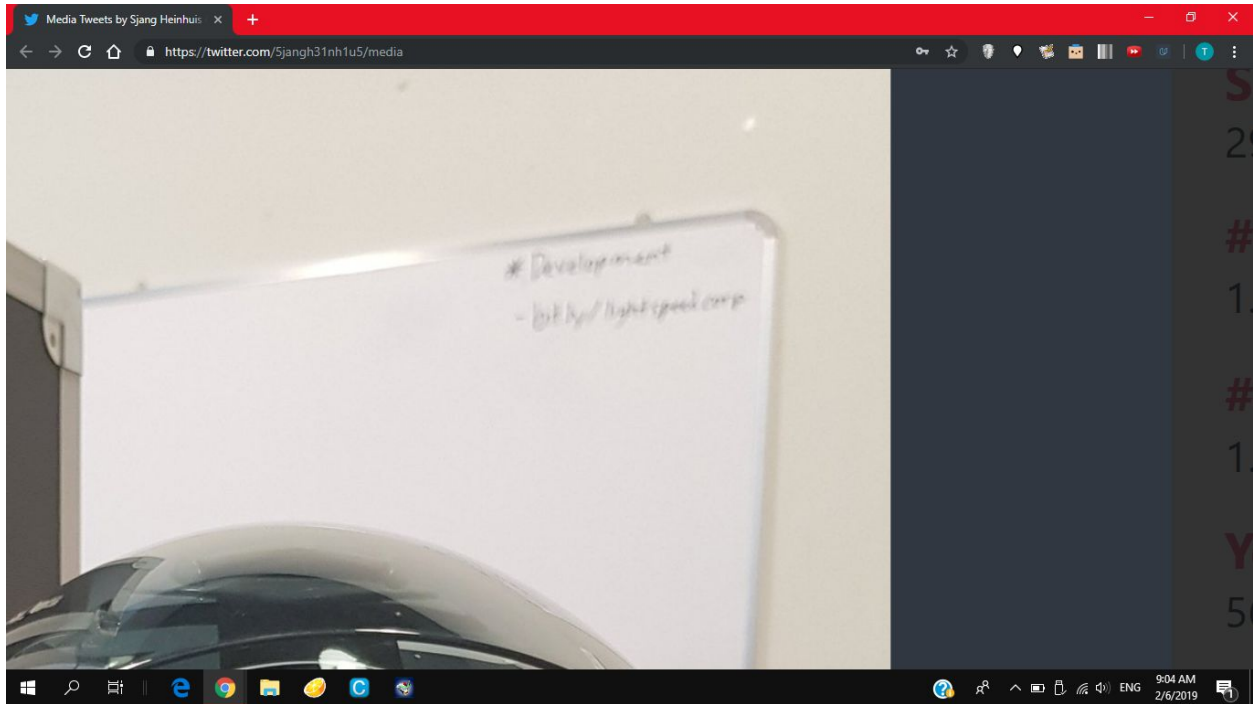
FLAG

\$CDDC19\${WHR_R_MY_D4NK_MEMES}

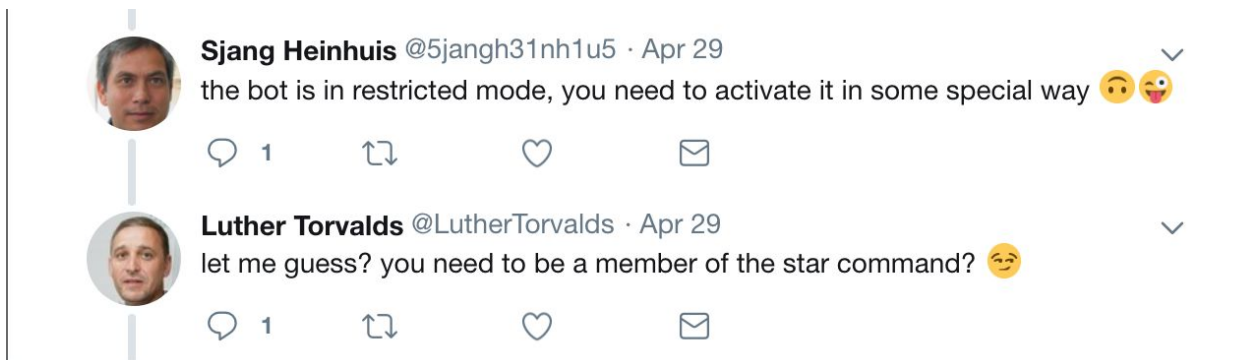
[R-4-1-1] Who Uses Teams Anyway?

<https://twitter.com/5jangh31nh1u5/media> LINK IS ON THE BOARD OF ONE OF THE PICTURES.

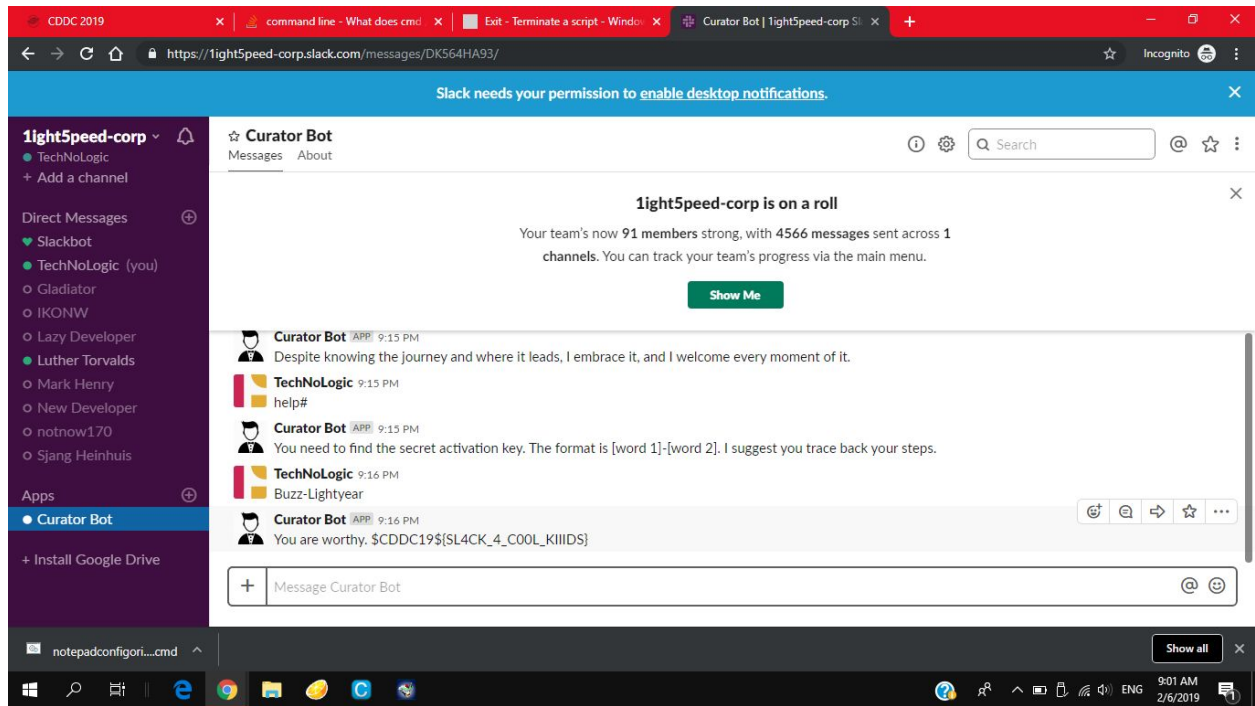




This <https://bit.ly/lightspeedcorp> is actually a link to the Slack workspace
The Curator Bot will need a secret activation key.



Based on this tweet and a quick google search of 'star command', we can derive that
Buzz-Lightyear is the secret activation key
Type Buzz-Lightyear in the Curator Bot to get the flag
<https://1ight5speed-corp.slack.com/messages/CHPC43SKG/>



Flag

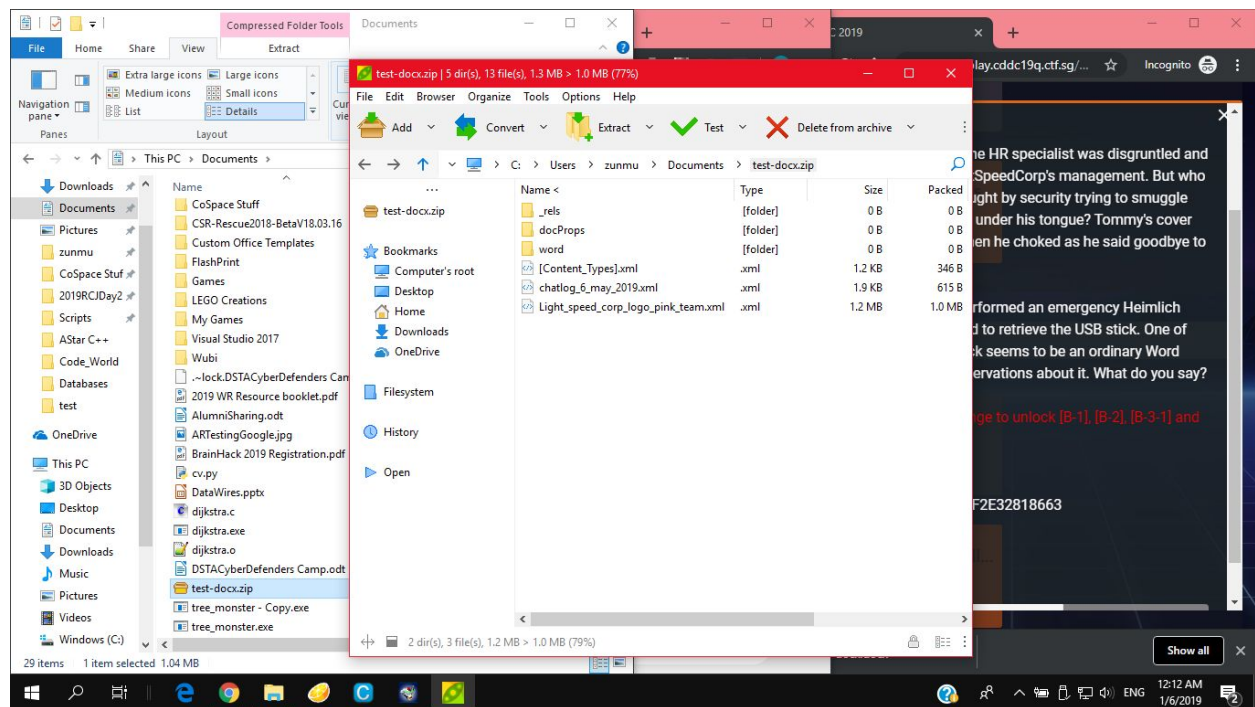
\$CDDC19\${SL4CK_4_C00L_KIIDS}

[B-0]What's in, Doc?

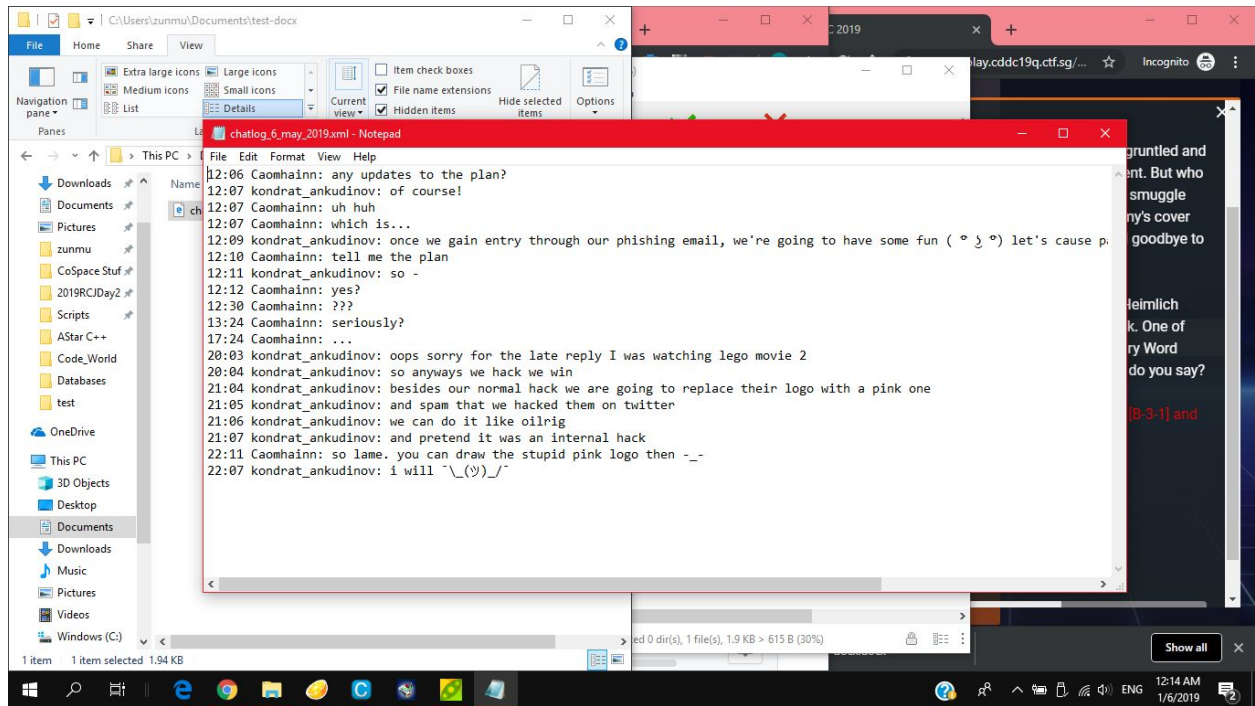
Solution

Change the extension of the docx file to zip, and unzip

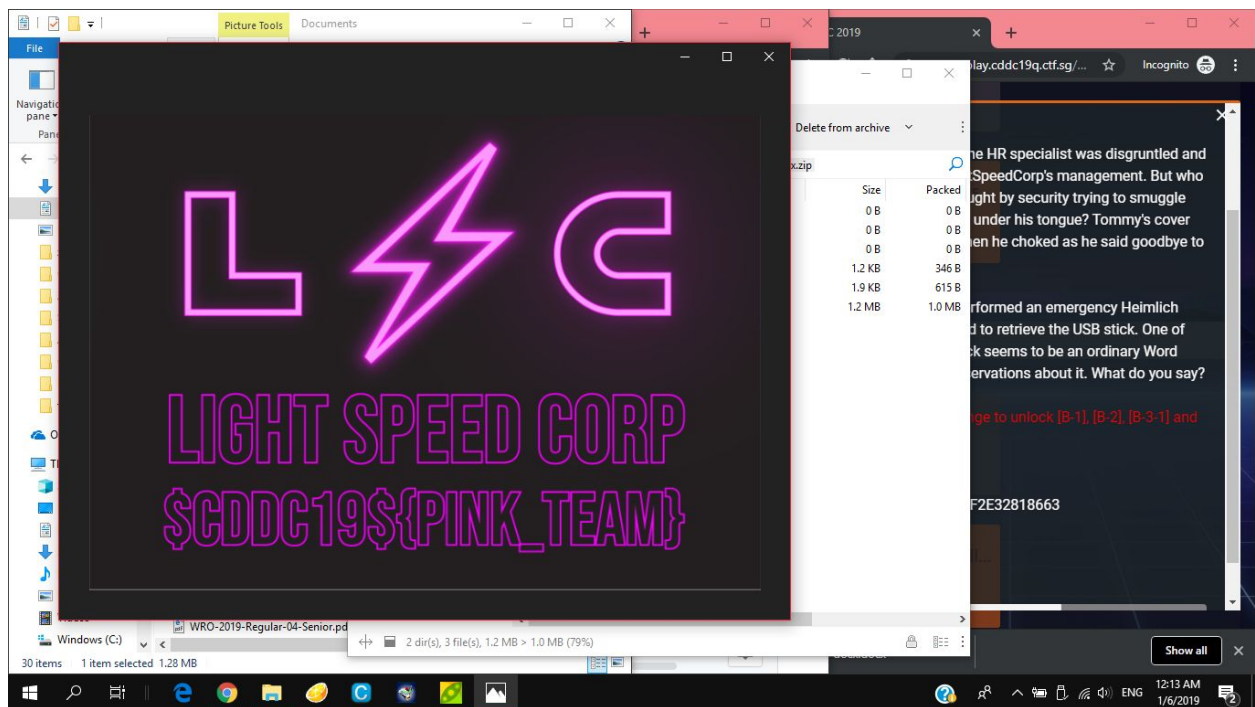
There are 2 xml files that are not usually in the doc at the root of the extracted folder



chatlog_6_may_2019.xml is about a conversation. Take note as this will be used for the other OSINT_BLUE Tasks



You can change the extension of the other xml file to jpg to get the flag



Flag

\$CDDC19\${PINK_TEAM}

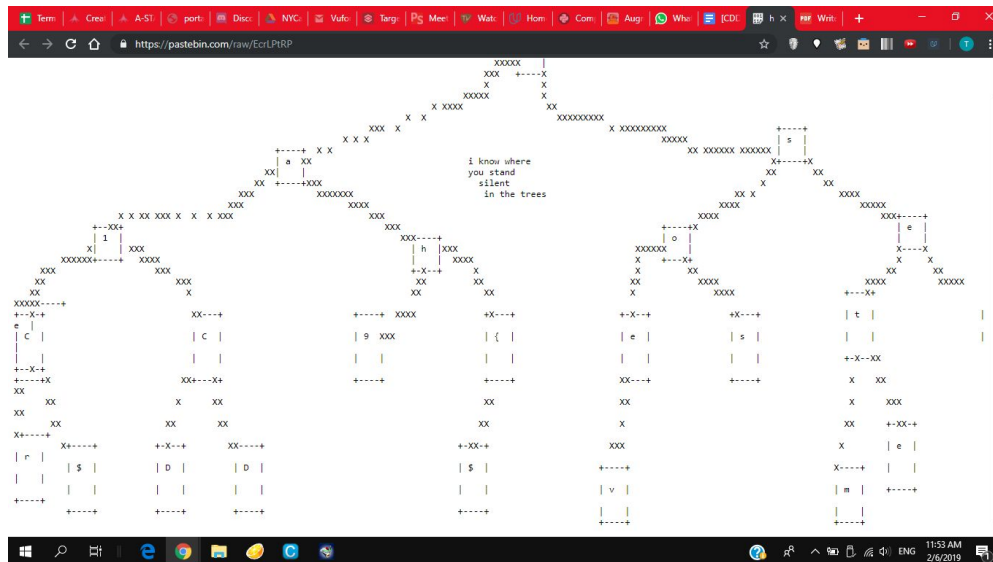
[B-1] Fight the Binary Monster

Solution

When you get the executable file, the first thing you might think of is to disassemble it. So putting it in the disassembler, you might see this section in the visual tree:

```
loc_4014BE:                ; dwContext
mov     dword ptr [esp+14h], 0
mov     dword ptr [esp+10h], 0 ; dwFlags
mov     dword ptr [esp+0Ch], 0 ; dwHeadersLength
mov     dword ptr [esp+8], 0 ; lpszHeaders
mov     dword ptr [esp+4], offset szUrl ; "https://pastebin.com/raw/EcrLPtRP"
mov     eax, [ebp+hInternet]
mov     [esp], eax          ; hInternet
call    _InternetOpenUrlA@24
sub     esp, 18h
mov     [ebp+hFile], eax
cmp     [ebp+hFile], 0
jnz     loc_40158D
```

So just open the link: <https://pastebin.com/raw/EcrLPtRP>



Start from bottom of tree first. Move through child nodes from left up to right, then to parent node

Flag

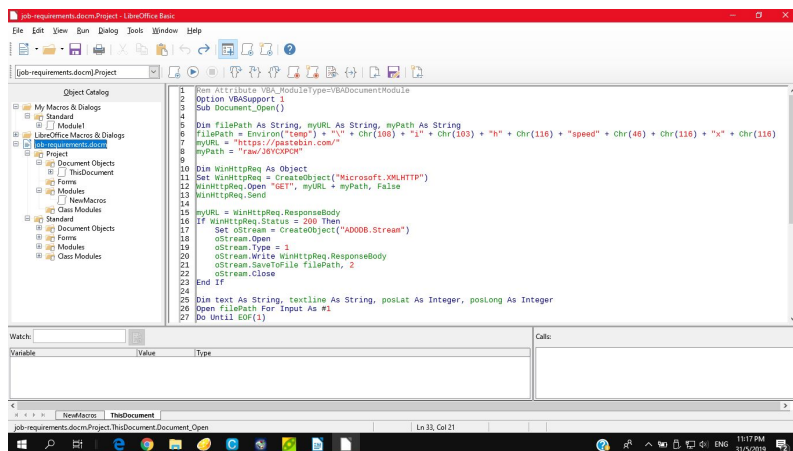
\$CDDC19\${havesometrees}

[B-2] I <3000 PHISH

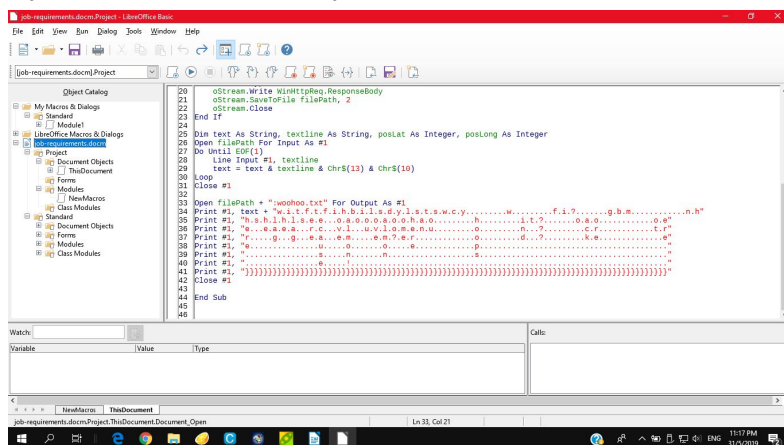
Solution

Looking at the macros code in the docm file, you will notice a

<https://pastebin.com/raw/J6YCXPCM> url



If you scroll further down you will also notice a section of text



Piece them together and you get this:

Try looking at the bottom section vertically. “What is the flag the flag is here because i love salmon! Do you love salmon too? Where can you whoops find it???? Go back more not here” Then you realise that one of the columns has the words: “THE FLAG IS \$CDDC19\$(salmon!)”

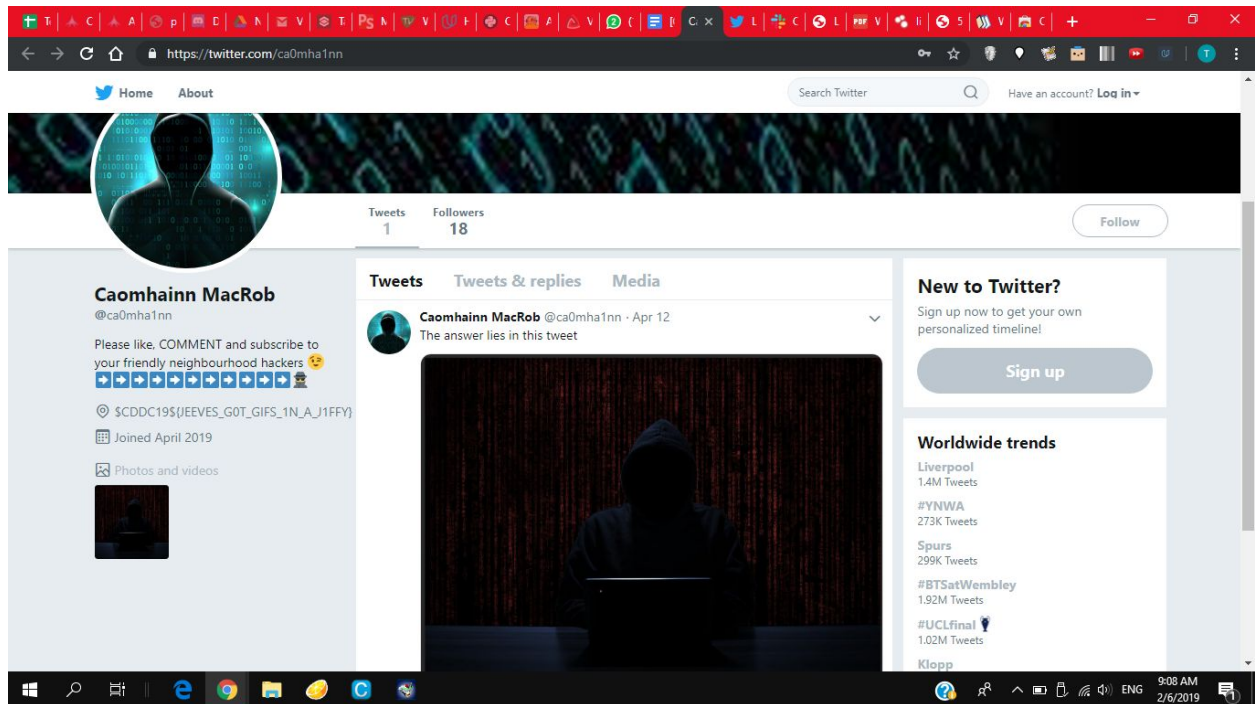
\$CDDC19\${salmon!}

[B-4-1] Where I Get All My GIFs From

Solution

By searching on twitter you can find the social media account of a person in the conversation (in the docm file)

<https://twitter.com/ca0mha1nn>



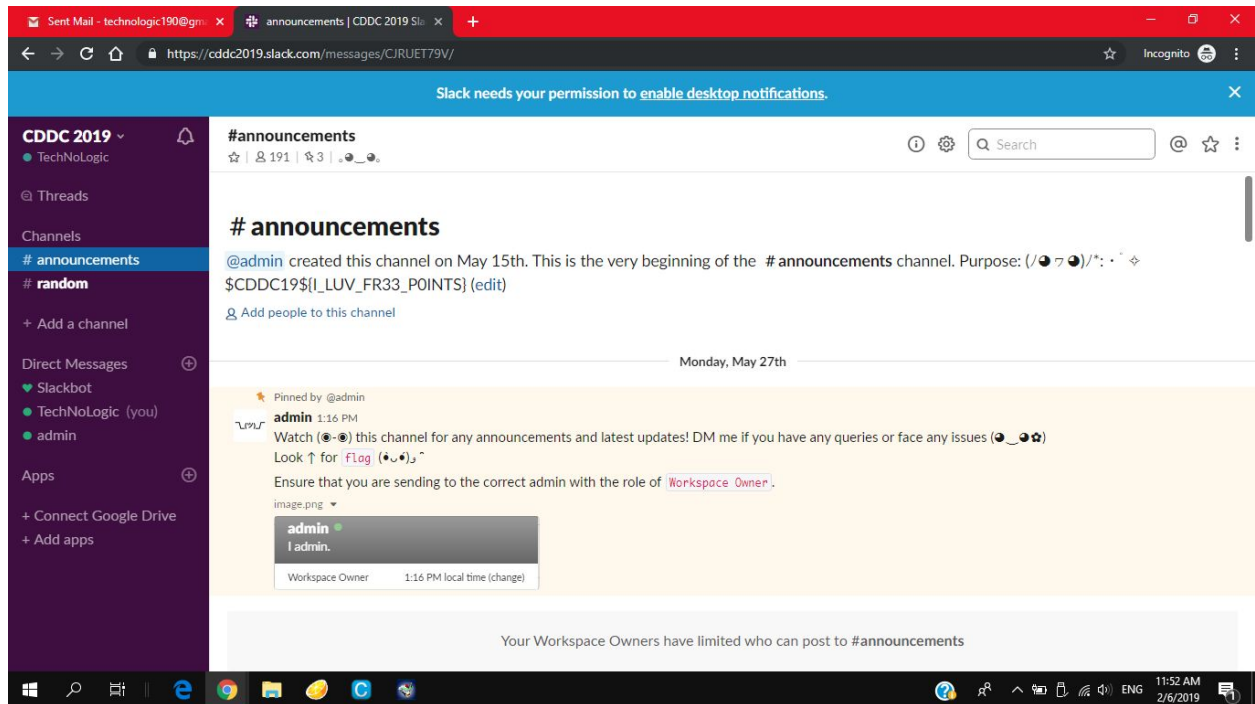
Flag

\$CDDC19\$(JEEVES_G0T_GIFS_1N_A_J1FFY}

[Slackers, Unite!]

Solution

Get the flag from the slack channel <https://cddc2019.slack.com>



Flag

\$CDDC19\${I_LUV_FR33_POINTS}

[Polyglot]

There are multiple languages that says 'The first character of this language creates a flag.'

Hindi

Indonesian

Chinese

Dutch

Danish

Catalan

Norwegian

Spanish

Hmong

Croatian

Flag

\$CDDC19\${HI~CDDC&NSHC!}

[Do you fancy numbers?]

Solution

Numbers are in Suzhou numerals.

When translated, the numbers are

36.67.68.68.67.49

.57.36.123.53.48.

95.121.48.117.95.

102.52.78.99.89.9

5.102.108.48.87.5

1.114.95.78.117.7

7.98.51.82.53.125

These values are in the ASCII table, so by converting them to ASCII, you get the flag

Flag

\$CDDC19\${50_y0u_f4NcY_fl0W3r_NuMb3R5}

[Very Serious Problem]

Solution

Just... do the survey?

[Count 1: Baby]

Solution

```
main(){int(i)=0;for(;++i<1e4;)printf("%d,",i);}
```

```
Your code : main(){int(i)=0;for(;++i<1e4;)printf("%d,",i);}
Flag : $CDDC19${Count2_is_waiting_Please_enjoy!}
```

Flag

\$CDDC19\${Count2_is_waiting_Please_enjoy!}

[Count 2: Wildness]

Solution

```
i;main(){for(;9999/++i;)printf("%d,",i);}
```

```
Your code : i;main(){for(;9999/++i;)printf("%d,",i);}
Flag : $CDDC19${This_really_helps_m3_a_lot!}
```

Flag

```
$CDDC19${This_really_helps_m3_a_lot!}
```

[Count 4: Madness - Filter]

Solution

A recursive implementation, so that you do not need to use for loops, and can use only the letters in “mad printf”:

```
main(i){9999/i&&printf("%i",i)&&main(++i);}
```

```
Your code : main(i){9999/i&&printf("%i",i)&&main(++i);}
Flag : $CDDC19${Main_might_be_just_a_function_but_it_is_really_special!}
```

Flag

```
$CDDC19{Main_might_be_just_a_function_but_it_is_really_special!}
```

Write-up

- We encourage players to submit write-ups for the challenges to gain bonus points.
- Submit your write-ups to cddc2019@nshc.net.
- All write-ups for completed challenges should be compiled into 1 single PDF document. Save this document as: "[CDDC19]-TEAM_NAME.pdf".

- The mail subject should be the same as the submitted PDF file. e.g. "[CDDC19]-TEAM_NAME".
- If there are any mistakes in the file name and/or mail subject header, we will consider the submission as void.
- You will receive an acknowledgement email from the organiser when your email and write-up document has been verified to be in the correct format.
- Only one team representative is required to submit this PDF document using your CDDC registered email.
- Only the last submission before the deadline will be considered.
- The deadline for submission is 2nd June 2019, Sunday, 23:59.
- Write-up for a particular challenge is only valid if the team has submitted the correct flag for that challenge during game time (i.e. between 31st May 2019 10:00 to 2nd June 2019 10:00).
- Write-ups will be counted per team, not per player. Bonus points awarded will be fixed at up to 5% of the respective challenge (based on dynamic scoring), depending on the quality of the write-up.
e.g. 1000 points challenge => team received 766 points due to dynamic scoring => writeup gives a maximum of 38.3 bonus points.
- If two or more teams have the same number of points, we will rank according to the timestamp in which the email write-up was received by the organiser.
- You are free to publish your write-ups on the Internet, but you may only do so after 2nd June 2019, Sunday, 23:59.
- You can find a sample write up format here (https://drive.google.com/file/d/1NNJwHpC0TLFpsNEftwAxT88wqO_ZwxMP/view).