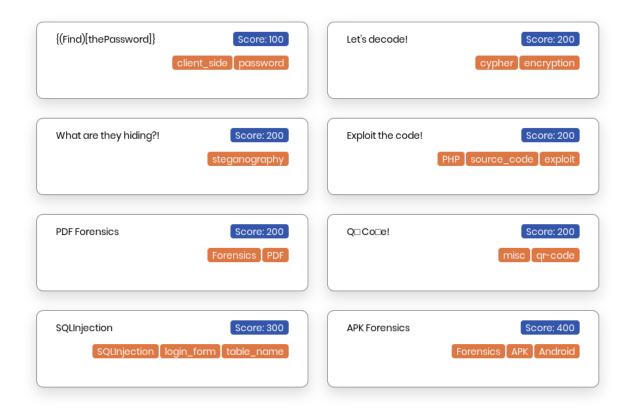
UNB CTF Competition Breakdown

BY KEVIN WONG

Welcome home! Here is the list of challenges:

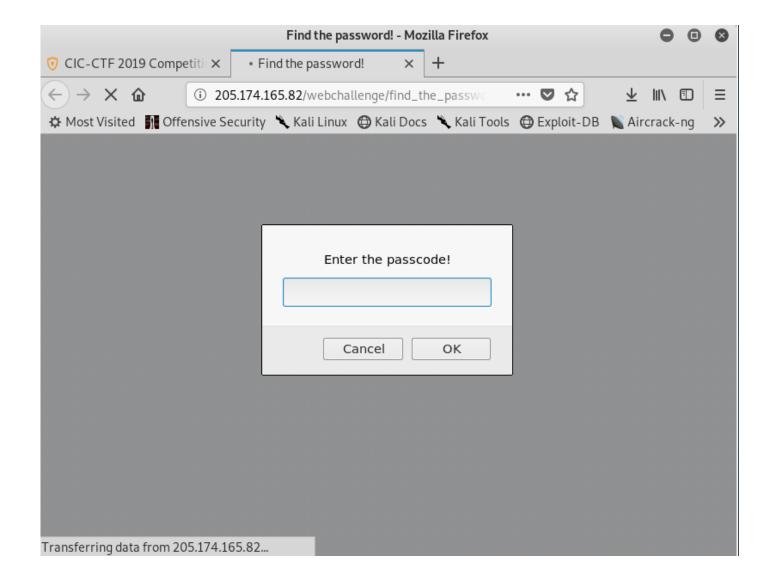


Challenges Page

Following slides have the challenges listed in order from left to right

Password Challenge (Pg 1)

Hello wonger92! | Logout Home {(Find)[thePassword]} Enter the password to get the flag! Click here to see the challenge page. Flag, e.g. flag{XXX...X} Submit Last failed try: 359 minute(s) and 11 second(s) ago.



Password Challenge (Pg 2)

Approaches:

- Brute Force via Hydra
- Simple password guesses (i.e: test123, password, etc)

'Let's decode' Challenge

Let's decode!

Just for warming up, let's try to decrypt a simple substitution cipher! Except it's not that simple! This is an ASCII to ASCII substitution cipher. It means the alphabet is the whole ASCII space (0x00 .. 0x7F). Fortunately, both the message and the cipher just contain printable characters (not control characters). However, the cipher (or in other words, the message) is case sensitive, and also contains a limited set of punctuations.

The space character is also a part of the alphabet, meaning the space caracter in cipher text is different from space character in the plain text.

All right! Let's get to work!

(Copy and paste the message below into a text editor and start analyzing it!)

HYP =EIBJG=EWYRYPTTTE#YO<PIFGRIFIYOJDE>YGEW NYW WEFAIJE= JJI<

DEXYYWEQYMDECAIJEIJEVYGPE@RI<KS IL>EMGCE@GODZELY= E=YP E<IMM PIJAEF UFDEPGJFEI<OYP EFA =T

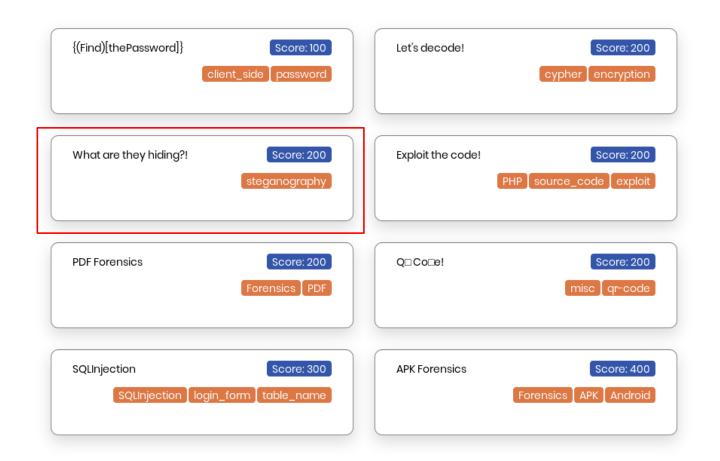
Flag, e.g. flag{XXX...X}

Submit

No submissions yet.

see decode_challenge text file to solve for this challenge

Welcome home! Here is the list of challenges:



What are they hiding?!

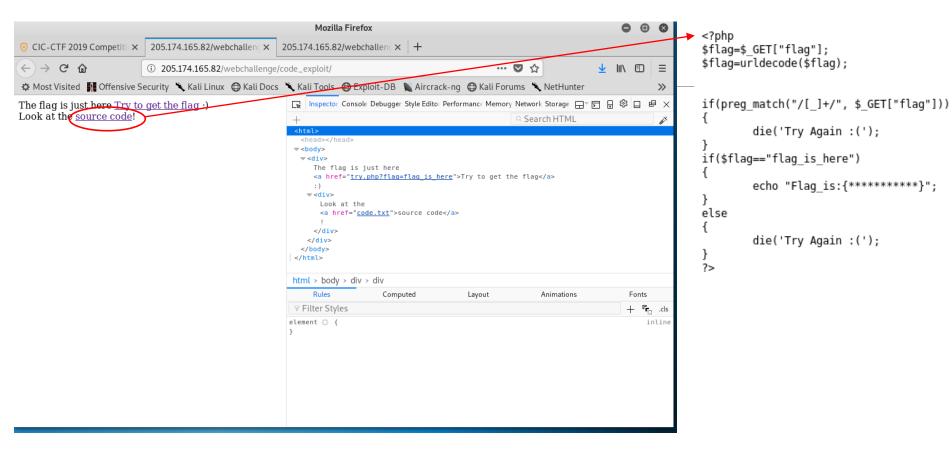
The picture below has been retreived from a secret communication. We beleive the should be a secret message hidden inside of it, maybe a location or something. But we are not sure. Can you help us figure out what is the secret message?



Steganography Challenge

see steg_img file to solve for this challenge

'Exploit The Code' Challenge



Welcome home! Here is the list of challenges:

```
{(Find)[thePassword]}
                                                                                        Score: 200
                                  Score: 100
                                                       Let's decode!
                      client_side | password
                                                                               cypher encryption
What are they hiding?!
                                                       Exploit the code!
                                                                                        Score: 200
                                 Score: 200
                                                                        PHP source_code exploit
                             steganography
                                 Score: 200
                                                                                        Score: 200
PDF Forensics
                                                       Q□Co□e!
                             Forensics PDF
                                                                                    misc | qr-code
SQLInjection
                                 Score: 300
                                                       APK Forensics
                                                                                        Score: 400
       SQLInjection | login_form | table_name |
                                                                           Forensics APK Android
```

'PDF Forensics' Challenge

PDF Forensics

Find the hidden Flag! Should be solved in Windows.

<u>Download the PDF file here. (Right click and save)</u>

SHA1: 60048e0a3e0231e386f50c9cebe01e6e29836027

Flag, e.g. flag{XXX...X}

Submit

No submissions yet.

See pdf_forensics file *

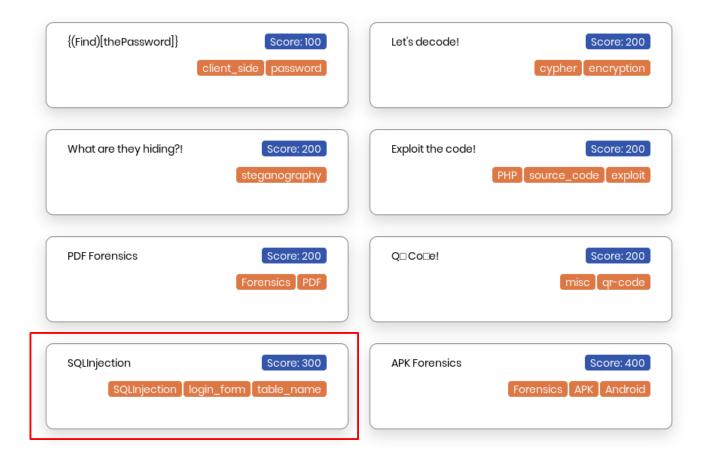
Q□ Co□e!

We have retrieved these pieces of a qr code in an investigation. But it seems some of the pieces are missing. Also, we don't know their correct orientation. (They might be rotated.)

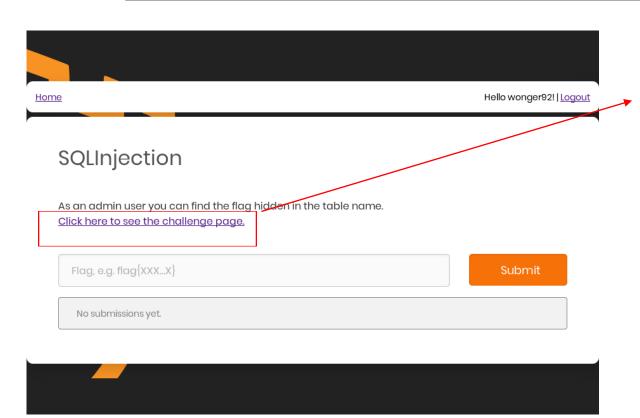
Could you help us figure are what is the hidden message inside this qr code?

didn't take individual images of the q-code itself. May have to use 'Snipping Tool' on Windows to isolate the six parts of the qcode to solve for this challenge Welcome home!

Here is the list of challenges:



'SQL Injection' Challenge



As an admin user you can find the table name as a flag.

USERNAME:

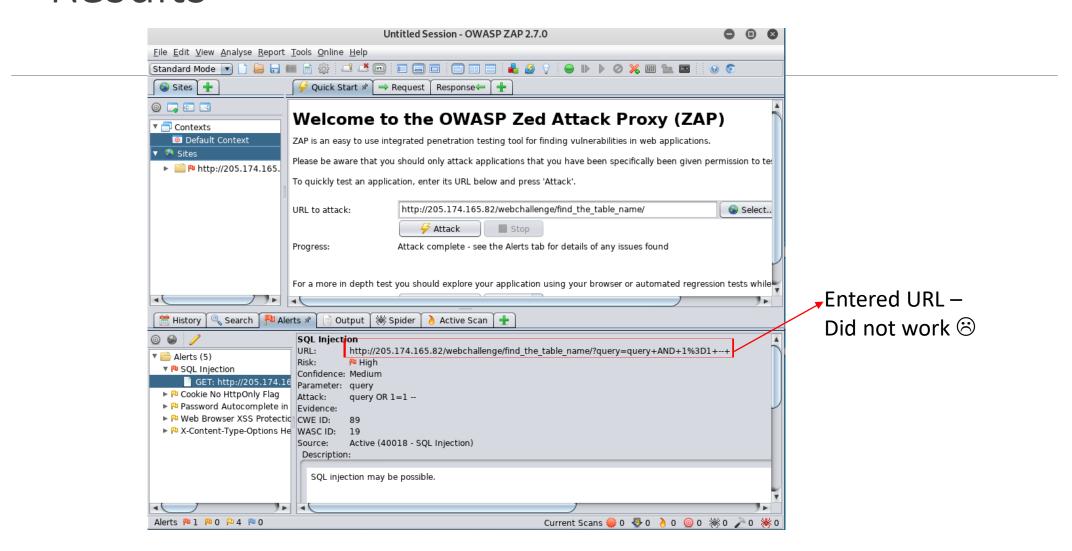
PASSWORD:

LOGIN

Limitation: Allowed to send one login request per second! If you try to send more requests in one second, they would be blocked!!!

Hint: The Table name's characters are in {a-z } and it starts with "tiny".

Attack Approach – OWASP ZAP Results



Android APK Challenge

APK Forensics

Only the authorized person can see the flag!

<u>Download the APK file here. (Right click and save)</u>

SHA1: 4e5bde5f28e226aabe7efc7bb3d7b1f6b0b8066a

Flag, e.g. flag{XXX...X}

Submit

No submissions yet.

See app-release.apk file to do this challenge