DiverCTF Writeup

[Introduction]

Challenge Name- bx

Description- Give coordinates of the "BX" signboard visible in this picture.

Approach- Reverse image search on google lens.

Copy the name shown in Japanese and put it in the search bar along with the image.

This will show an Instagram reel which when you play shows the same building as shown in the given image.

The description of the reel gives names of two stations namely "JR Ueno station" and "Uguisudani station".

Also note that the building next to the billboard has cross sign (likely to be a church).

Considering these and looking between the stations gets us to the desired spot.

Flag- Mark the pointer around this coordinate 35.7182597319839, 139.78083224178724 (context- In some challenges, you need to mark the locations around the intended place to get the correct flag)

Challenge name- finding_my_way

Description- Answer the Way number in OpenStreetMap of the building located at 34.735639, 138.994950. Flag Format: Diver25{123456789}

「建造物」は「地物」の一種である / a "building" is categorized into "features"

Approach- Surf to openstreetmap.org and put the given coordinates in the search bar.

Note that challenge gives hint that building is categorized into “features”.

Right click the building and click on “query features”.

It shows the features of the location and we find “Building” with its Way number #568613762

Flag- Diver25{568613762}

Challenge name- hidden_service

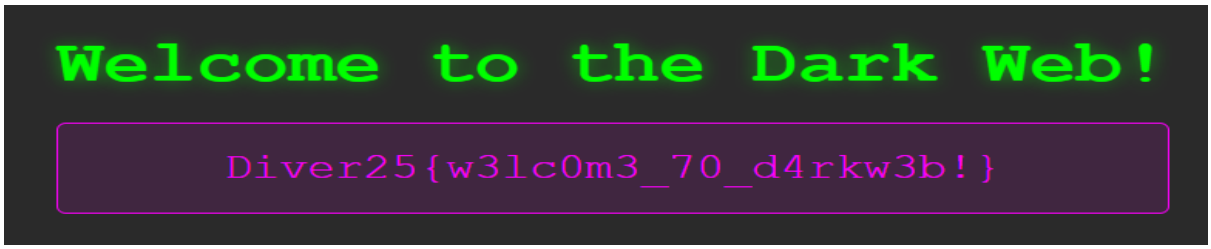
Description- See the attached file and capture the flag!
Flag形式 / Flag Format: Diver25{xxxxxxxxxxxxxxxx}

Approach- “flag is hidden in the underground” and .onion refer to only one thing in this context i.e. dark web.

Use VPN and torr, then paste the link in the search bar.

It will lead you to the site which displays the flag.

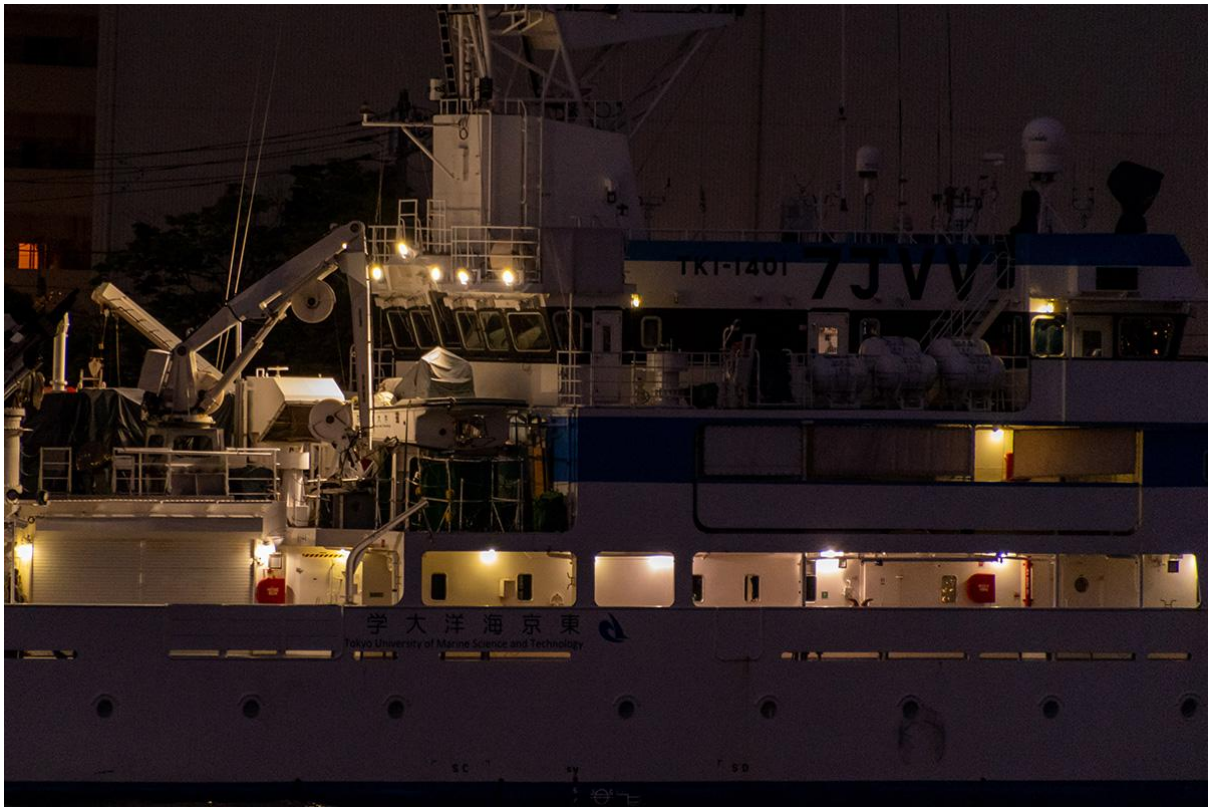
Flag-



Challenge name- ship

Description- This is a vessel operated by a some organisation. Answer the number that would remain the same if this vessel were to be sold to a foreign country in the future.
Flag Format: Diver25{ship name in **the local language**_number} (e.g. If the ship name is "ペンギン饅頭号" and the number is 1234567, the flag should be Diver25{ペンギン饅頭号_1234567}.)

Hint: The ship name doesn't contain symbols.



Approach- Reverse image search gives name of the ship "Shinyo Maru".

Visiting the "maritime database" site gives us details about the ship.

A little bit of research on the part “number that would remain same if the ship were to be sold to foreign country in the future” points at the IMO number which is 9767675.

The name of the ship is to be submitted in local language (Japanese), so visiting a native website would yield better outcome.

Searching the owner of ship (in order to find their website) gives us “Tokyo University of Marine Science and Technology”.

When you search “shinyo maru Tokyo university”, it leads us to native website “kaiyodai.ac.jp” which contains ship details in English.

Changing web page language to Japanese to get the accurate name of the ship gives us “神鷹丸”.

Flag- Diver25{神鷹丸_9767675}

Challenge name- night_accident (this was an interesting one)

Description- In this video, where did the car and bus almost collide? https://www.youtube.com/watch?v=jHgqCpJNL28

Approach- So, in the video, we see car turning at a node (picking up pace) and the bus trying to overtake the bus ahead of it (almost crashing into the car).

The important thing to be noted here is the name on the bus “SBS transit”, a little bit of searching implies that the video is based on Singapore.

There were two buses and one of the bus’ number was 52, so I searched for the route in google maps.

After that, try to find residential area in the route which (after some searching) was almost around the end of the bus route (115, Bishan Street 12, Singapore).

Flag- Mark the pointer around this coordinate 1.3482429571661043, 103.84868476417184

[Geo]

Challenge name- advertisement

Description- Where was the photograph in this article taken?

https://web.archive.org/web/20250108154113/https://www.noticiasaominuto.com/mundo/2699746/kyiv-diz-que-russia-usou-como-recrutas-ate-180000-presidiarios

Approach- Reverse image search spawns multiple news articles about the poster content.

Visiting any site gives the location "St. Petersburg, Russia" (which is quite vague).

Note that there is a text in russian in the image. Copy that and put in the search box of google maps.

This will give multiple outlets of the shop shown in the image.

A bit of manual search and visualization leads us to the exact location.

Flag- Mark the pointer around this coordinate 59.942995897777465, 30.2788484550494

Challenge name- Afghanistan

Description- When and where was the photo shown at 65-67 seconds in this video taken?
Flag format: Diver25{location name_YYYY-MM-DD} (location name should be in English)
For example, if it was taken at Camp Darby on June 5, 2025, it would be Diver25{Camp Darby_2025-06-05}.

https://www.youtube.com/watch?v=NWQwx4-MeRg&t=65s

Approach- Reverse image search along with “camp” in search bar.

You’ll get “Camp Bostick”, now we need to find the date on which that image was taken.

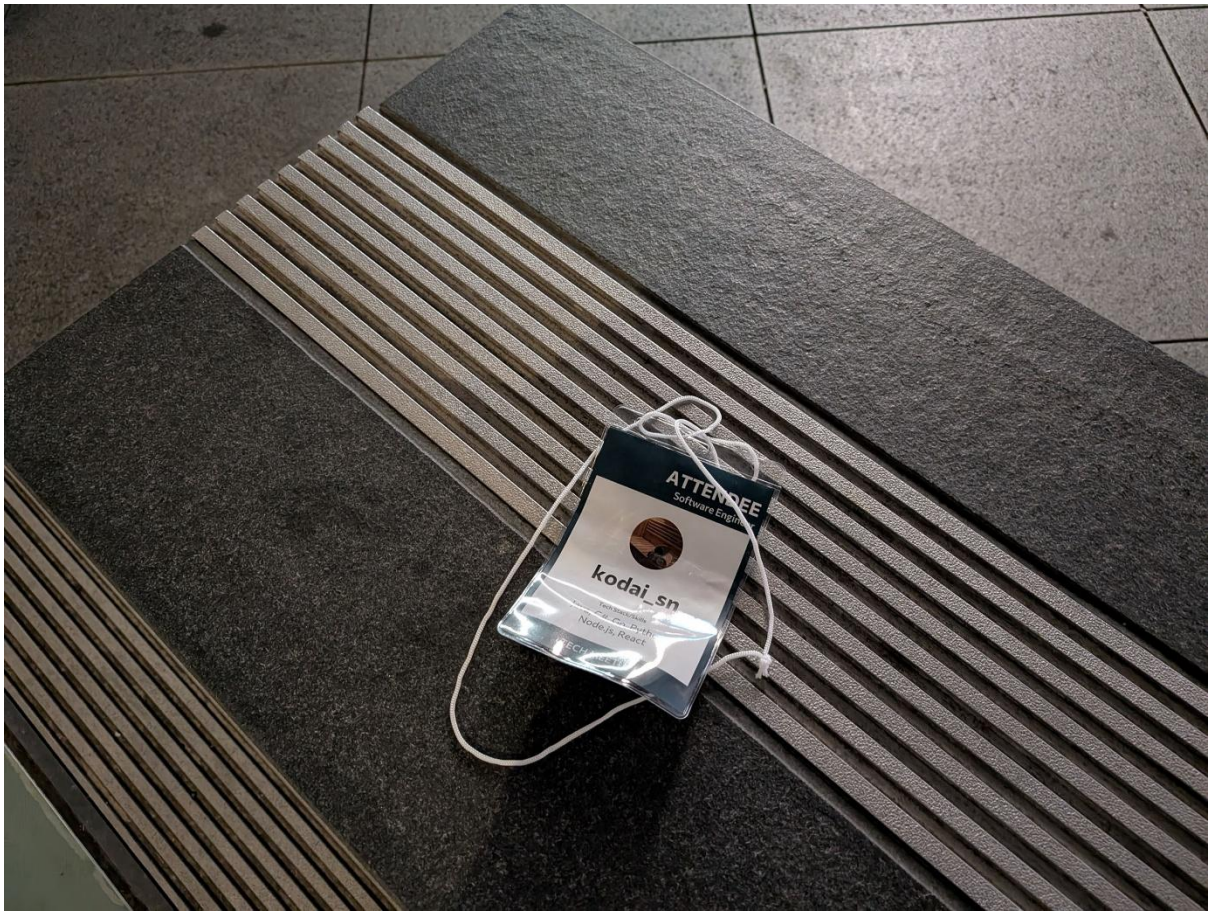
The reverse search gives us leads on the site “gettyimages.in”, visiting it and viewing the same image, we find the date on which the photograph was taken i.e. April 16, 2009.

Flag- Diver25{Camp Bostick_2009-04-16}

[Recon]

Challenge name- 00_engineer

Description- An software engineer's nameplate was picked up near Tokyo Station. This should be a lost item.
Answer the URL of the website (index page) of the company where this engineer works.
Flag Format: Diver25{https://google.com}



Approach- Use “sherlock” tool on Kali terminal, the prompt being “sherlock kodai_sn”.

You find the intended twitter account.

In the bio, you find the personal website “https://kodai-sn.github.io/” where you find the name of the company “Magneight Software”.

A google search gives you the URL of the website “magneight.com”

Flag- Diver25{https://magneight.com}