

RACTF2020 Writeup – Mad CTF Disease

Todo:

- [x] Be a cow
- [x] Eat grass
- [x] Eat grass
- [x] Eat grass
- [] Find the flag

350 Points

In this challenge, a picture of a cow was provided:



I ran the image through the usual tools (binwalk, strings) but found nothing. So I decided to download Stego Toolkit by Dominic Breuker (<https://github.com/DominicBreuker/stego-toolkit>), a docker image that has plenty of built in steganography tools. I ran it using the following command:

```
sudo docker run -it dominicbreuker/stego-toolkit /bin/bash
```

Once in, I transferred the image to the server using python's SimpleHTTPServer module, and ran the image through stegoveritas. The first result returned something of interest:

After showing this to a team member, they identified it as COW language (<https://esolangs.org/wiki/COW>). So after a quick read on that I went to find an interpreter for COW, and stumbled upon Try It Online (<https://tio.run/>) which had a compiler for COW. I put the extracted COW code into the COW interpreter and got the flag:

ractf{exp3rt-mo0neuv3r5}