For this flag we looked at password cracking at the ip 10.162.2.88, with nmap -p- we got the open ports

PORT STATE SERVICE
21/tcp open ftp
22/tcp open ssh
80/tcp open http
135/tcp open msrpc
139/tcp open netbios-ssn
445/tcp open microsoft-ds
3389/tcp open ms-wbt-server
5985/tcp open wsman
8009/tcp open ajp13
8282/tcp open libelle
47001/tcp open winrm
49664/tcp open unknown
49665/tcp open unknown
49666/tcp open unknown
49667/tcp open unknown
49668/tcp open unknown
49669/tcp open unknown
49674/tcp open unknown

where **port 21** is the **ftp** service. When logging in into an ftp service we need a password and username.
We also tried some simple dictionary attacks with username lists and password lists, however we probably did not use a good username list as we didnt get any good results. We did however use the rockyou password lists.

We first tried to login as anonymous with ftp anonymoys@10.162.2.88 with a blank password but that did not work. With hydra we can use a dictionary attack with wordlists to guess the password and username. First we just tried with the username anonymous against the rockyou list but this did not yield any results. Then we tried the bruteforce on ssh but this also did not yield any results. After that we tried a username list together with the rockyou wordlists but this did also not yield results, probably because of the username list. Then in seclists we found **ftp-betterdefaultpasslist.txt** which when used the -C option in hydra yielded a username and password.
Username: **admin**
Password: **1111**
Command:
hydra -C /usr/share/seclists/Passwords/Default-Credentials/ftp-betterdefaultpasslist.txt -l ftp://10.162.2.88
Once we got the credentials we logged in into the server and got the flag which was the name of a jpg file.

Flag:
flag{adcb1f7ada617b25c8316d3a8fa8b4f48f242e0d25baa1}