On the Hunt for FIN7: Pursuing an Enigmatic and Evasive Global Criminal Operation | Mandiant

By Mandiant

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On Aug. 1, 2018, the United States District Attorney's Office for the Western District of Washington unsealed indictments and announced the arrests of three individuals within the leadership ranks of a criminal organization that aligns with activity we have tracked since 2015 as FIN7. These malicious actors are members of one of the most prolific financial threat groups of this decade, having carefully crafted attacks targeted at more than 100 organizations. FIN7 is referred to by many vendors as "Carbanak Group," although we do not equate all usage of the CARBANAK backdoor with FIN7. This blog explores the range of FIN7's criminal ventures, the technical innovation and social engineering ingenuity that powered their success, a glimpse into their recent campaigns, their apparent use of a security company as a front for criminal operations, and what their success means for the threat landscape moving forward. With this release, FireEye is also providing technical context, historical indicators, and techniques that organizations can use to hunt for FIN7 behavior enterprise-wide.

FIN7 Does the Crime...

The threat group is characterized by their persistent targeting and large-scale theft of payment card data from victim systems, which it has monetized at least a portion of through a prominent card shop. But FIN7's financial operations were not limited to card data theft. In some instances, when they encountered and could not obtain payment card data from point of sale (POS) systems secured with end-to-end encryption (E2EE) or point-to-point encryption (P2PE), FIN7 pivoted to target finance departments within their victim organizations.

Furthermore, in April 2017, FireEye reported that FIN7 sent spear phishing emails to personnel involved with United States Securities and Exchange Commission (SEC) filings at multiple organizations, providing further insight into FIN7's targeting. These targeted individuals would likely have access to material non-public information that FIN7 actors could use to gain a competitive advantage in stock trading.

Diversification of their monetization tactics has allowed the group to impact a wide range of industries beyond those solely associated with payment card industry. During campaigns that FireEye associates with FIN7, victims within the following sectors have been targeted within the United States and Europe:

- Restaurants
- Hospitality
- Casinos and Gaming
- Energy
- Finance
- High-tech
- Software
- *Travel
- *Education
- *Construction
- *Retail
- *Telecommunications
- *Government
- *Business services

FIN7's Innovation Enabled their Success

Throughout FireEye's tracking of FIN7 campaigns, the attackers have attempted to stay ahead of the game and thwart detection, using novel tactics and displaying characteristics of a well-resourced operation. For example, in April 2017, FireEye blogged about FIN7's spear phishing emails that leveraged hidden shortcut files (LNK files) to initiate the infection and VBScript functionality launched by mshta.exe to infect the victim. This was a direct departure from their established use of weaponized Office macros and highlighted the group's adaptive nature to evade detection.

FireEye also previously reported on FIN7's use of the CARBANAK backdoor as a post-exploitation tool to cement their foothold in a network and maintain access to victim environments. CARBANAK is well known for its use in highly profitable and sophisticated attacks dating back to 2013, with usage attributable to FIN7 beginning in late 2015, although how interconnected the campaigns employing the malware over this five-year span are is unclear. FIN7's use of CARBANAK is particularly notable due to their use of creative persistence mechanisms to launch the backdoor. The group leveraged an application shim database that injected a malicious in-memory patch into the Services Control Manager ("services.exe") process, and then spawned a CARBANAK backdoor process. FIN7 also used this tactic to install a payment card harvesting utility.

Another notable characteristic of FIN7 has been their heavy use of digital certificates. Unsurprisingly, malicious threat actors have sought to exploit the legitimacy afforded by these certificates. By digitally signing their phishing documents,

backdoors and later stage tools, FIN7 was able to bypass many security controls that may limit execution of macros from Office documents and restrict execution of unsigned binaries on trusted systems.

Organization	Country	Serial	Email
Korsar Travel TOV	UA	88:21:ac:7e:6c:da:11:00:1d:b3:d3:1a:16:c1:5c:26	korsartravel@bk.ru
Kaitschuck James	GB	30:2e:7f:14:3a:f3:f3:98:20:70:42:4e:ea:52:5d:d2	oliversoftware@hotmail.com
Park Travel	RU	4d:e2:87:56:98:bf:c7:74:a3:f3:47:d6:70:7c:9b:f0	inga@parktravel-mx.ru

Table 1: Sample FIN7 code signing certificates

FIN7 developed evasive techniques at a rapid pace. Throughout 2017, FIN7 was observed creating novel obfuscation methods, and in some cases modifying the methods on a daily basis while launching attacks targeting multiple victims. The threat group regularly tested malicious DOC, DOCX, and RTF phishing documents against public repositories to check static detection engine coverage. Their development of a payload obfuscation style using the Windows command interpreter's (cmd.exe) native string substitution was so unique that FireEye dubbed it "FINcoding." These methods inspired deep command line obfuscation research and the release of Daniel Bohannon's Invoke-DOSfuscation. Reference Table 2 and Table 3 for a selection of samples and their associated command line obfuscation techniques.

FIN7's Relentless Phone Calls and Bellyaching

Over the three years of responding to a multitude of compromises and proactively defending against FIN7, FireEye observed unprecedented social engineering prowess. From leveraging web forms for initial contact to targeting and engaging directly with pre-determined store managers, the operators demonstrated a range of capabilities. FIN7's reach extended beyond their targets' computer systems. FireEye has responded to incidents where FIN7 has called victims *prior* to lodging digital complaints laden with malicious documents as well as after the phishing documents have been sent, in order to check if they were received – a crude but effective FIN7 email delivery tracking technique.

As FIN7 has matured, so did the quality of their phishing lures and templates, which were most often sent from fake but thoroughly disguised individuals and businesses – and occasionally from sender addresses impersonating legitimate government entities. Their phishing has often exploited urgent, high value business matters tailored to their chosen targets. At individual stores, managers were contacted about lost items or sent a "receipt" claiming overcharging. Other FIN7 phishing emails masqueraded as detailed catering orders or requests for special menus tailored to individuals with dietary restrictions.

In early 2017, a pattern of complaints emerged and has continued for well over a year, where FIN7 has contacted stores and corporate offices to lodge food poisoning complaints with malicious attachments. Internally dubbed "FINdigestion" by FireEye, this pattern of detailed complaints eventually expanded beyond individual complaints and into litigious concerns raised on behalf of "the government", as shown in Figure 1.

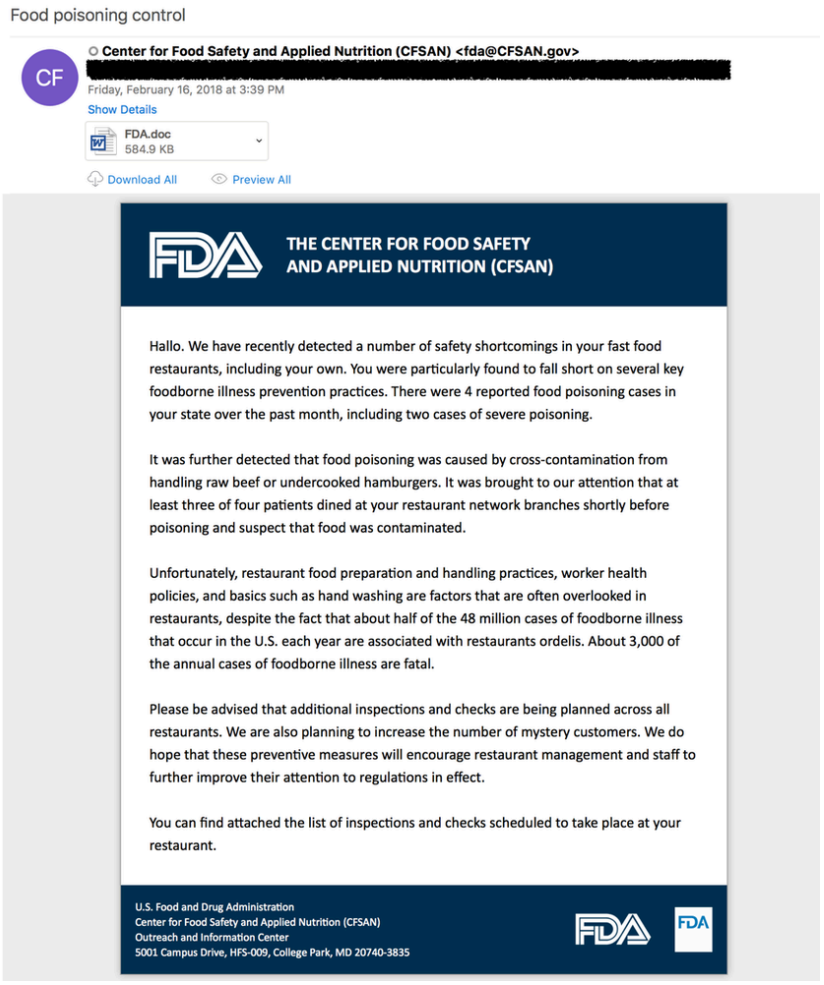

Figure 1: FDA themed spear phishing email

It is noteworthy that the BATELEUR backdoor activity first identified by Proofpoint in July 2017, which FireEye tracks as a suspected FIN7 subgroup, uses highly-customized graphics for their targets, often created in Adobe Photoshop. In this same phishing campaign, FIN7's malicious attachment was graphically themed to match, as shown in Figure 2.

Figure 2: FDA themed spear phishing attachment

Throughout their operations, the professional design and continued development of phishing elements in parallel to other post-compromise tools indicated to FireEye that FIN7 was most likely a well-resourced criminal operation.

It's Just Metadata

FireEye has tracked several FIN7 personas throughout their operations by collecting and parsing filetypes of forensic value for juicy metadata. In a previous blog, we shared how LNK files created by FIN7 unintentionally revealed valuable information about their development environment.

LNK files can contain metadata that reveals attributes about the systems on which the LNKs were created, including original file paths, volume serial numbers, MAC addresses, and hostnames. By studying values within the LNK metadata we often identify "toolmarks," or unique values associated with distinct malware developer and operator personas.

FIN7 LNK metadata shows that the actors routinely used virtual machines with generic hostnames such as ANDY-PC or USER-PC, and default hostnames with the structure WIN-[A-Z0-9]{11} (e.g. WIN-ABCDEFGH1JK).

FireEye has tracked several hostname and path toolmarks associated with FIN7's operations, which we have used to link clusters of threat activity together. These toolmarks may be linked to FIN7 members who are involved in tool development or the broader criminal operation. Notable personas from the technical data, which are explored in more detail in the Technical Appendix section, include:

- "andy" / "andy-pc"
- "Hass"
- "jimbo"
- "Константин" (Konstantin)
- "oleg"

This analysis allowed us to understand FIN7's systems and correlate future attack activity to the different personas. Furthermore, the metadata analysis helped us monitor for files generated by the group and use the established toolmarks to establish detection for other adversary methodologies (such as direct RDP or SMB access) if the group changed TTPs.

Video Playback of FIN7 Operations

While responding to multiple FIN7 intrusions, FireEye recovered a custom video recording capability used by FIN7 as a part of their operations. FireEye's FLARE team reverse engineered the video protocol, which appeared to be custom-written by FIN7 as it has no external library dependencies, contained Cyrillic comments in the code, and required the use of a bespoke video player unique to FIN7. The attackers most likely leveraged this video recording capability in their arsenal to monitor operations in victim environments to inform later stages of their intrusions.

FireEye obtained a version of the criminal developers' video player from a trusted source and with the knowledge of the reverse engineered protocol, the FLARE team modified the source code to support multiple versions of FIN7's custom encoding. With the patched source code, FireEye can decode and playback FIN7's video monitoring for affected victims in possession of these files.

Recent Shifts in FIN7 Operations

Throughout 2018, FireEye has continued to identify multiple domains registered using patterns consistent with prior FIN7 activity, as well as campaigns using disparate TTPs that we have attributed to FIN7 with varying degrees of confidence. ZIP archives delivering the BIRDDOG backdoor were hosted on a portion of suspected FIN7 domains registered in 2018. Some evidence further characterizing the nature of this campaign suggests these malicious documents were sent to financial institution customers in Eastern Europe and Central Asia as early as September 2017. The targeting of individuals rather than organizations would mark a significant shift in their targeting, although it is also possible that the banks spoofed in these campaigns were FIN7's ultimate targets.

Additionally, we have identified similarities between FIN7 activity and BATELEUR campaigns, which began as early as mid-2017 and have been primarily aimed at U.S.-based restaurant chains. These campaigns leveraged macro-embedded Word documents directly attached to the emails as well as ones hosted on Google Drive. The documents were meticulously crafted to appear as though they came from legitimate organizations (e.g. restaurant associations and suppliers of POS hardware). This suspected FIN7 activity continued past the date of most recent arrest announced by U.S. law enforcement, although the attackers are now leveraging an updated JavaScript backdoor dubbed GRIFFON.

These recent campaigns could be representative of a decisive effort to diversify TTPs to avoid detection or could indicate the formation of FIN7 splinter groups carrying out autonomous campaigns. As a result, organizations need to remain vigilant and continue to monitor for changes in the methods employed by the FIN7 actors.

Unveiling FIN7's Front Company and Industry

Figure 3: Combi Security logo as retrieved from 2016 cache of combisecurity.com

According to U.S. law enforcement, at least a portion of FIN7 activity was run out of a front company dubbed Combi Security. A cache of its website reveals that the company purported to be "the world leaders in the field of comprehensive protection of large information systems from modern cyber threats" with headquarters in Moscow, Haifa, and Odessa. We have identified job advertisements for Combi Security that have been posted on popular Russian, Ukrainian, and Uzbek job recruitment sites, as well as numerous individuals who most likely worked for the company. Due to the seeming legitimacy of the recruitment postings, some individuals may have been unaware of illicit nature of their work. While the recruitment of unwitting individuals as puppets has been a common component of at least some criminal schemes – for example, reshipping mules who are recruited through postings on career sites advertising attractive work-from-home jobs – FIN7's veiling of full-scale financial compromises as legitimate offensi

ve security engagements is particularly notable. The apparent success of Combi Security in recruiting unsuspecting individuals in this manner, may lead to more of this type of technical recruitment by cyber criminals in the future.

Splitting Up?

The criminal organization behind FIN7 is almost certainly comprised of many additional individuals beyond those already apprehended by law enforcement authorities. FireEye iSIGHT Intelligence expects that at least a portion of these malicious actors are likely to continue conducting cyber crime activity in some capacity. Although we expect activity to continue, it is extremely common for threat actors to either modify their TTPs or temporarily halt operations following significant developments such as arrests of high-level members and/or public disclosure of TTPs that they employ.

Depending on the organizational and communication structure of the group, it is also plausible that multiple subgroups could form and carry out independent operations in the future. Recent campaigns, as well as those using tactics that were atypical for historical FIN7 campaigns, such as the SEC campaigns with widespread targeting, may be representative of semi-autonomous groups pre-existing within, or cooperating with, the FIN7 criminal organization. As noted in our CARBANAK overview, certain malware families and techniques transcend strictly defined threat groups, and may be re-used by developers and operators as they transition between organizations and campaigns.

Conclusion

These recent announcements by U.S. law enforcement highlight the positive impact that can result from synergy between private and public sector organizations in disrupting organized cyber crime operations. As demonstrated by FIN7, financially-motivated threat actors are becoming extremely advanced and are capable of inflicting significant harm on organizations through vast, but carefully orchestrated campaigns. As sophisticated threat groups continue to emerge, partnerships, such as those exhibited here, will almost certainly play a key role in combating these threats.

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Technical Appendix

FireEye has responded to many FIN7 incidents, which has provided us extensive insight into their operations. As part of this blog post, we are also including numerous indicators that we attribute to FIN7 and an overview of their techniques to aid organizations in identifying malicious activity across their networks.

Phishing Documents Technical Details

In addition to LNK metadata, FIN7 phishing documents consistently contained artifacts detailing the local file system paths of component files used to construct the spear phishing documents. In the following tables, we have also included examples of the myriad of command line obfuscation techniques used by FIN7. Of particular note is the quick turnaround time between documents employing different techniques.

EXIF Creation Time	**Attribution**	**Malware**	**MD5**	**Filename**
2018:05:21 17:32:00	Suspected FIN7	GRIFFON	7e703dddcfc83cd352a910b48eaca95e	
C:\Users**jimbo**\Desktop\Files\Картинки\outlook2.png				
cmd.exe /k "SET a01=wscr& SET a02=ipt&&call %a01%%a02% /e:jscript //b %TEMP%\errors.txt				
EXIF Creation Time	**Attribution**	**Malware**	**MD5**	**Filename**
2018:01:26 15:59:00	Suspected FIN7	BATELEUR	bb1a76702e2e7d0aa23385f24683d214	Doc1.doc
C:\Users**Hass**\Desktop\Картинки\New\outlook3.png				
cmd.exe /c wscript.exe //b /e:jscript %TEMP%\crashpad.ini				
EXIF Creation Time	**Attribution**	**Malware**	**MD5**	**Filename**
2018:01:11 13:16:00	Suspected FIN7	BATELEUR	5972597b729a7d2853a3b37444e58e01	check.doc
C:\Users**Hass**\Desktop\Картинки\New\outlook2.png				
cmd.exe /c wscript.exe //b /e:jscript %TEMP%\crashpad.ini				
EXIF Creation Time	**Attribution**	**Malware**	**MD5**	**Filename**
2017:10:25 07:43:00	Suspected FIN7	BATELEUR	c4aabdcf19898d9c30c4c2edea0147f0	document1.c

C:\Users**oleg**\Desktop\Файлы\Картинки\New\defender.jpg				
cmd.exe /c wscript.exe //b /e:jscript %TEMP%\crashpad.ini				
EXIF Creation Time	**Attribution**	**Malware**	**MD5**	**Filename**
2017:06:23 15:18:00	Suspected FIN7	BATELEUR	467062d2a5a341716c42c6d7f36ba0ed	check.doc
C:\Users**Work**\Desktop\IMAGES\outlook2.png				
wscript.exe //b /e:jscript %TEMP%\debug.txt				

Table 2: Suspected FIN7 spear phishing launch parameters and attacker local system artifacts

EXIF Creation Time
2017:10:06 11:21:00
C:\Users**andy**\Desktop\unlock.cmd
cmd /c ""%TMP%\unlock.cmd" "
@set w=wsc@ript /b /e:js@cript %HOMEPATH%\tt.txt@echo try{var fs=new ActiveXObject('Scripting.FileSystemObject');sh=new ActiveXObject('W f=fs.OpenTextFile(p,1,false);for(i=0;i^<4;i++)f.SkipLine();var com='';while(!f.AtEndOfStream)com+=f.ReadLine().substr(1);f.Close();try{fs.DeleteFil >%HOMEPATH%\tt.txt@copy /y %TMP%\unlock.cmd %HOMEPATH%\pp.txt@echo %w:@=%|cmd
EXIF Creation Time
2017:09:27 11:56:00
C:\Users**usr**\Documents\send\270917\unlock.doc.lnk
wmic.exe process call create "cmd start /min cmd /c for /f \"usebackq delims=\" %x in (`FindStr /R /C:\"@#[0-9]#@\" \"%TEMP%\unlock.doc.lnk\"`) d
cmd.exe /S /D /c" echo /*@#8#@*/try{sh=new ActiveXObject("Wscript.Shell");fs=new ActiveXObject("Scripting.FileSystemObject");p=sh.ExpandEnvironmentStrings("%TM"+"P%");f=fs.GetFile(p+"//unlock.doc.lnk");s=f.OpenAsTextSt (c);}catch(e){} >%HOMEPATH%\t.txt & wscript //b /e:jscript %HOMEPATH%\t.txt >nul 2>&1 &"
EXIF Creation Time
2017:08:08 17:38:00
C:\Users**andy**\Desktop\unlock.doc.lnk
wmic.exe process call create "mshta javascript:eval(\"try{eval('wall=GetObject(\\'\\'+String.fromCharCode(44)+'\\'Word.Application\\')');eval(wall.Acti
mshta.exe "try{jelo = 'try{w=GetObject("","Wor"+"d.Application");this[String.fromCharCode(101)+\\'va\\'+\\'l\\'](w.ActiveDocument.Shapes(1).TextFr ActiveXObject("Scripting.FileSystemObject");var sh = new ActiveXObject("Wscript.Shell");var p = sh.ExpandEnvironmentStrings("%HOMEPATH%'
EXIF Creation Time

2017:07:27 15:51:00
C:\Users**jinvr-3-1**\Desktop\unlock.doc.lnk
cmd.exe /C set x=wsc@ript /e:js@cript %HOMEPATH%\ttt.txt & echo try{w=GetObject("","Wor"+"d.Application");this[String.fromCharCode(101)+'v >%HOMEPATH%\ttt.txt & echo %x:@=%|cmd
EXIF Creation Time
2017:06:28 16:21:00
C:\Users**andy**\Desktop\unprotect.rtf.lnk
cmd.exe /C set x=wsc@ript /e:js@cript %HOMEPATH%\md5.txt & echo try{w=GetObject("","Wor"+"d.Application");this[String.fromCharCode(101) >%HOMEPATH%\md5.txt & echo %x:@=%|cmd
EXIF Creation Time
2017:05:11 12:59:00
C:\Users**user**\Documents\unprotect.lnk
C:\WINDOWS\system32\mshta.exe vbscript:Execute("On Error Resume Next:set yjdsqjtrn=GetObject(,""Word.Application""):execute yjdsqjtrn.Activ
EXIF Creation Time
2017:04:20 16:27:00
C:\Users**testadmin.TEST**\Desktop\unprotect.lnk
C:\WINDOWS\system32\mshta.exe vbscript:Execute("On Error Resume Next:set wprotect=GetObject(,""Word.Application"& wprotect.ActiveDocument.Shapes(1).TextFrame.TextRange.Text:close")
EXIF Creation Time
2017:01:12 18:00:00
C:\Users**testadmin.TEST**\Desktop\unprotected.vbeC:\Users**tst01**\Desktop\unprotected.vbs
%WINDIR%\System32\Wscript.exe %TEMP%\WindowsUpdate_X24532\beginer.vbs
EXIF Creation Time
2016:08:12 11:26:00

C:\Users**test**\Documents\sploits\120816\order.vbe
%WINDIR%\System32\Wscript.exe %TEMP%\AdobeUpdateManagementTool.vbs

Table 3: FIN7 spear phishing launch parameters and attacker local system artifacts

FIN7 Tactics, Techniques & Procedures (TTPs)

FireEye is providing insight into FIN7's notable methodologies across multiple stages of the attack lifecycle and tips for identifying evidence of this activity and similarly suspicious activity in your environment.

Attack Lifecycle Stage	**Adversary Methodology**	**Discovery Tips**
Initial Compromise	Spear phishing emails sent using PHP Mailer	Inbound emails containing metadata such as "X-Mailer: PHPMailer"
Establish Foothold	Persistence using registry Run and Run Once keys	New Run and RunOnce registry entries referencing .VBS and .VBA
Establish Foothold	Execution or persistence using Scheduled Tasks	New Scheduled Tasks referencing .CMD, .LNK, .VBS, .VBA, .PS1 and other scripting language extensions
Establish Foothold	Persistence using Windows Services, Startup Directory	New Windows Services, new files in Startup directories
Establish Foothold	Persistence using AppCompat Shim	New shim database files and modifications of AppCompatFlags registry keys (see FIN7 SDB Persistence)
Maintain Presence	C2 using favored C2 ports	Outbound connections with port-protocol mismatches on common ports such as 53,80,443,8080
Maintain Presence	C2 using favored generic 3LDs	Outbound connections or DNS resolutions to "sketchy" 2nd level domains with generic 3rd level domains such as mail, www1, www2, dns, ftp (eg. "mail[.]qefg[.]info")
Maintain Presence	C2 using VPS infrastructure with low reputation	Inbound and outbound connections from and to non-standard IP ranges, especially from international Virtual Private Server (VPS) providers
Maintain Presence	C2 using legitimate services including Google Docs, Google Scripts and Pastebin	
Maintain Presence	C2 using DNS via A, OPT, TXT records	Unusually long or numerous DNS A, TXT and OPT record queries
Maintain Presence	C2 domains registered with REG.RU	Newly observed domains registered via REG.RU

Maintain Presence	C2 domains registered with NameCheap	Newly observed domains registered via NameCheap
Maintain Presence	C2 domains registered with odd format and top-level domains	Unusually long or numerous DNS queries with the structure [a-zA-Z]{4,5}\.[pw|us|club|info|site|top] (eg. “pvze[.]club”)
Maintain Presence	C2 domains registered with hyphen	Outbound connections to newly registered, hyphenated domains

Table 4: FIN7 TTPs

FIN7 Indicators

FireEye is providing these granular technical indicators so that interested parties can better understand the threat actor and search for their historical activity across enterprise networks.

Phishing Documents Droppers

Filename	MD5	Attribution	Malware
menu.rtf	c14eb54769ff208a2562e4ef47958d9e	FIN7	
	76eb6f124fba6599a54e92b829c55b63	FIN7	BEACON
3-ThompsonDan.rtf	4b783bd0bd7fcf880ca75359d9fc4da6	FIN7	BEACONBELLHOPHALFBAKED
claim.rtf	af53db730732aa7db5fdd45ebba34b94	FIN7	BEACONBELLHOPHALFBAKED
order.rtf	cea2989309ccd5128f437335622978f1	FIN7	BEACONBELLHOPHALFBAKED
order.rtf	cf4ccb3707e5597969738b4754782e4d	FIN7	BEACONBELLHOPHALFBAKED
Doc2_rtf.rtf	2dc0f4bece10759307026d90f585e006	FIN7	BEACONHALFBAKED
doc1.doc	37759603c6cd91ebc8a1ea9ac0f2d580	FIN7	BEACONHALFBAKED
quote.rtf	3c0bd71e91e0f18621ba43de4419f901	FIN7	BEACONHALFBAKED
Doc2_rtf.rtf	562a64f1c09306d385962cf8084b6827	FIN7	BEACONHALFBAKED
information.doc	5dace5ac5ba89c9bba4479264f75b2b6	FIN7	BEACONHALFBAKED
Doc_rest_rtf.rtf	619aa4e6c9db275381ab0e7fc7078f5f	FIN7	BEACONHALFBAKED
doc1.docx	67c9bfd4d6ac397fb0cd7da2441a6fe2	FIN7	BEACONHALFBAKED
Doc33.docx	6a5a42ed234910121dbb7d1994ab5a5e	FIN7	BEACONHALFBAKED

info_.rtf	6ac5ae6546746e3a9502cc489b71146e	FIN7	BEACONHALFBAKED
bmg.docx	754fc509328af413d93131e65fc46d31	FIN7	BEACONHALFBAKED
Doc_0405_1.rtf	7b2315ff1f2d763857aa70ad34b75449	FIN7	BEACONHALFBAKED
doc1.docx	99975b5ee2ddd31e89c9bdda7a3871d9	FIN7	BEACONHALFBAKED
doc0505_1.rtf	9eb71edd5ec99294a1c341efa780b1b1	FIN7	BEACONHALFBAKED
DonovanR.docx	b5829caad7c448c558cb1dab2d9f4320	FIN7	BEACONHALFBAKED
rising star.rtf	c8b8420d1503ae48ff35362f5d29eeb3	FIN7	BEACONHALFBAKED
inf6.docx	e494356fc0db7ef6009d29e5ae869717	FIN7	BEACONHALFBAKED
Claim.docx	06b9e2fdd2c0eeb78b851c93ca66f25f	FIN7	BELLHOP
order.rtf	80eed9f87a18b0093eb3f16fa495b6f7	FIN7	BELLHOP
Details Joseph.docx	b4d48f3e1ae339f2fcb94b7abceecfff	FIN7	BELLHOP
order.doc	e2a6b351c276d02d71e18cd0677e8236	FIN7	BELLHOPHALFBAKED
	b14bc8cbc7f2d36179ebff96ade6d867	FIN7	CARBANAK
features.doc	bbd99ef280efebe9066c0aef91bf02cd	FIN7	DRIFTPINHALFBAKED
doc2709.rtf	01d666fcbc4cdcedbfe7963f498e7858	FIN7	HALFBAKED
doc_n0908.rtf	03e85ad4217775906e6b5ceae8dc27af	FIN7	HALFBAKED
doc1.docx	0d6619481cfd29791a51ebb42ace5c03	FIN7	HALFBAKED
doc1.rtf	0e0a51489054529a9dcb177d39f08b81	FIN7	HALFBAKED
doc0719.docx	101bdbbd99cfd74aa5724842404642f2	FIN7	HALFBAKED
doc0507.docx	17fabe288d640476a70154c59d5a1ba1	FIN7	HALFBAKED
info_1.rtf	189c5a090d2b3b87ab65a8b156cd971e	FIN7	HALFBAKED
doc.docx	1a6c18967f4ce1c91c77098af4957e6e	FIN7	HALFBAKED

Mail.rtf	1a9e113b2f3caa7a141a94c8bc187ea7	FIN7	HALFBAKED
Doc_rest_n_rtf.rtf	1f5022a02c82fbe414dc91bf3f1b5180	FIN7	HALFBAKED
doc.docx	1f98c4ff12fc2c6fbf8247a5b2e4e7f4	FIN7	HALFBAKED
doc1909.docx	1fbe77a3b5771ce4f95e02a49c5b7f30	FIN7	HALFBAKED
doc_n0808.rtf	21926646a658bdf39cf28cdfbb1aced7	FIN7	HALFBAKED
doc0507.rtf	22ad7c05128ca7b48b0a2a4507803b16	FIN7	HALFBAKED
Doc2.docx	22e7d4f7401ef34b3b6d17c15291c497	FIN7	HALFBAKED
menu.rtf	24fab1e9831e57307d17981abaabf960	FIN7	HALFBAKED
2-order.docx	28ad8e3a225400a1d00f6023f8e6c9c8	FIN7	HALFBAKED
doc0610.docx	29a3666cee0762fcd731fa663ebc0011	FIN7	HALFBAKED
doc2209_1.rtf	2d36634974c85eff393698b39edc561c	FIN7	HALFBAKED
Doc1.rtf	307a9ce257e97189e046fa91d3c27dab	FIN7	HALFBAKED
doc1.rtf	325844f1b956c52fc220932bc717f224	FIN7	HALFBAKED
doc0910.rtf	3917028799d2aa3a43ec5bad067e99a5	FIN7	HALFBAKED
doc1.docx	397d45b6001919b04739e26379c84dd9	FIN7	HALFBAKED
docr.rtf	3a303f02e16d7d27fa78c3f48a55d992	FIN7	HALFBAKED
oliver_davis.docx	3b12f36a01326ec649e4def08b860339	FIN7	HALFBAKED
doc2209.docx.docx	402c34d7d6ce92bf5a048023bd2fde4a	FIN7	HALFBAKED
Dooq.docx	41c6861313e731bd3f84dd70360573ce	FIN7	HALFBAKED
info.rtf	42a2a2352f6b1f5818f3b695f240fc3a	FIN7	HALFBAKED
james.docx	499ebef3ab31a2f98fc8a358bd085b0f	FIN7	HALFBAKED
doc1007.rtf	4b7a742d5c98fc62f0f67445032e7bc6	FIN7	HALFBAKED

tem6.doc	4bf691809224d17e49cebb071d22a867	FIN7	HALFBAKED
doc1.rtf	511af2b4c62fa4c2bb91f3be1ca96094	FIN7	HALFBAKED
doc1.docx	52cf6a63da29331d805a5a9b5015580f	FIN7	HALFBAKED
doc2209.rtf	560e72858ee413d7a6f72fff5ab7577b	FIN7	HALFBAKED
doc1.docx	5a0b796c7a6040e02c822cac4475f11a	FIN7	HALFBAKED
doc0717.rtf	5d49b444734b003b6917b81f0a779b3e	FIN7	HALFBAKED
	5d9525b48870dc438130bd96fb8c5b66	FIN7	HALFBAKED
doc2.doc	5dd2e677fd1d65f051b7f54e7402721f	FIN7	HALFBAKED
Dooq.docx	63e2eb258a85ed4e72f951cdbff2a58e	FIN7	HALFBAKED
doc0720.rtf	6a860285a6f7521995151a2a0cb6e316	FIN7	HALFBAKED
doc0719.rtf	6adec78e874232722c3758bbbcb95829	FIN7	HALFBAKED
virus.docx	70f0f8db551dd6b084682188c3923e26	FIN7	HALFBAKED
check.rtf	72d973ebfbc00d26170bfafdfbbd0179	FIN7	HALFBAKED
Doc_0405.rtf	74165408ff12d195fb9d68afe0a6011e	FIN7	HALFBAKED
oliver_davis.rtf	793511c86a0469d579ff8cc99a7311e3	FIN7	HALFBAKED
doc_n0808.docx	79628a598303692238cc4aeb19da6fed	FIN7	HALFBAKED
Doc1.rtf	7d664485c53b98180e6f3c69e9dfa81e	FIN7	HALFBAKED
doc1.docx	82a32d98e68891625b6de67a9d0b61c6	FIN7	HALFBAKED
document.doc	853a53419d9dbc606d2392b99e60c173	FIN7	HALFBAKED
doc2806.rtf	856cec68ddd28367c0d0f0a6f566187a	FIN7	HALFBAKED
doc1.rtf	8608b31a446f42a7f36807bd6c16d2c0	FIN7	HALFBAKED
Doc1.rtf	8bd798e89d075827cc757b9586f15ce2	FIN7	HALFBAKED

doc1.rtf	94771bcf572d5c0b834f73d577f06cc8	FIN7	HALFBAKED
doc1610.rtf	973377e27b5dffa289f84e62a6833ebc	FIN7	HALFBAKED
Doc0725.rtf	9788b3faa29ba9eb4cae46f3c249937e	FIN7	HALFBAKED
Doc1.rtf	9b87f9f6498c241f50208f9906907195	FIN7	HALFBAKED
doc1.rtf	a5f75333d0c81387a5a9c7696b967a20	FIN7	HALFBAKED
doc0610.rtf	a8e312d0c230e226e97e7a441fadbd85	FIN7	HALFBAKED
doc2_r_new.rtf	a9c50b7761519fb684cdee2d59f99f91	FIN7	HALFBAKED
credit details.rtf	aaf42acedc38565f4c33cfdbb09733b9	FIN7	HALFBAKED
doc2.docx_	b5cc86726ab8f1fb3c281ab8f935260f	FIN7	HALFBAKED
	b6f005236a37367a147f9060c708ccca	FIN7	HALFBAKED
doc1.rtf	c0d122bcdcb6ede7fc7f1182e4d0e599	FIN7	HALFBAKED
doc2806.docx	c3f48e69bb90be828ba2835b76fb2080	FIN7	HALFBAKED
doc1.rtf	c5e94d973ed4f963ddc09ab88def3b5f	FIN7	HALFBAKED
doc1.rtf	c6cddc475d62503a17a34419918e7fc0	FIN7	HALFBAKED
doc0714.docx	caec3babdec3cf267cc846fd084c4626	FIN7	HALFBAKED
doc1909.rtf	d1f55491472ca747561509106b71eab8	FIN7	HALFBAKED
doc_n0908.docx	d38fb2d95812ffa1014e52ef3079e5da	FIN7	HALFBAKED
catering_.rtf	d5cd1dedf3bf5c943e348a8b84e37b2a	FIN7	HALFBAKED
doc0714.rtf	dde72a54716deb88c1ffef2a63faab6b	FIN7	HALFBAKED
m1.doc	e0ca85c0d264b84d977df0c48fd383cc	FIN7	HALFBAKED
doc1.rtf	e17fe2978ebe1b0a6923acd2ffeda3c2	FIN7	HALFBAKED
doc2009.rtf	e184219366afb2e6bd0b9502beab1156	FIN7	HALFBAKED

doc1610.docx	e9154e2f80389b853ab4cf2fe98f1ed2	FIN7	HALFBAKED
doc1.rtf	edc4f02f265a4aaa552435f293409f01	FIN7	HALFBAKED
doc2_r_new.rtf	ee5a600ef9fd1defe07ea097095d1beb	FIN7	HALFBAKED
doc1.rtf	effdaf7f61acb277ac44ee4d9bc8900a	FIN7	HALFBAKED
info_.docx	f2ac2ec8173db4963dc2089ac90b8807	FIN7	HALFBAKED
Doc0725.docx	f80a80d25b3393825baa1e84e76ddf6c	FIN7	HALFBAKED
1.rtf	fa1c548a5d691ac9ce7bfd929f204261	FIN7	HALFBAKED
	fa93c93a02fe2dee8a3b3d1cd82f293f	FIN7	HALFBAKED
poisoning.rtf	faed087e820cad3c023be1db8d4ba70a	FIN7	HALFBAKED
order.docx	fc661e18137583dc140e201338582a99	FIN7	HALFBAKED
SEC_Security_Policy_2017_02.doc	032fe02e54a010d21fd71e97596f4101	FIN7	POWERSOURCE
SEC_Security_Policy_2017_10.doc	14334c8f93f049659212773ecee477a2	FIN7	POWERSOURCE
VargheseJ.doc	2abad0ae32dd72bac5da0af1e580a2eb	FIN7	POWERSOURCE
SEC_Security_Policy_2017_03.doc	37d323ffc33a0e1c6cd20234589a965d	FIN7	POWERSOURCE
2017.doc	5a88e3825c5e89b07fa9050b6b6eca7c	FIN7	POWERSOURCE
SEC_Security_Policy_2017.doc	6ff3272cd9edf115230bad6a55cb3ca8	FIN7	POWERSOURCE
EDGAR_FILLINGS_RULES_2016.doc	7bd2235f105dee20825b4395a04892bf	FIN7	POWERSOURCE
SEC_Security_Policy_2017_05.doc	8fa8d4c30429c099dc7e565e57db55c0	FIN7	POWERSOURCE
SEC_Security_Policy_2017_06.doc	ccd2372bb6b07f1b5a125e597005688d	FIN7	POWERSOURCE
Important_Changes_to_Form10_K.doc	d04b6410dddee19adec75f597c52e386	FIN7	POWERSOURCE
SEC_Security_Policy_2017.doc	f20328b49ec605fd425ed101ff31f14b	FIN7	POWERSOURCE
SEC_Security_Policy_2017_07.doc	f74958adcfb11abcb37e043013f6a90f	FIN7	POWERSOURCE

Filings_and_Forms.docx	47111e9854db533c328ddbe6e962602a	FIN7	POWERSOURCE (Downloader)
doc.doc	189c72bfd8ae31abcff5e7da691a7d30	Suspected FIN7	BATELEUR
protected_instructions.doc	302ab8bd6a8effa58a675165aa9600a2	Suspected FIN7	BATELEUR
Doc2.doc	40c4c02d1e506a5ffc2939ec0ee8e105	Suspected FIN7	BATELEUR
3528579_security_protocol.doc	58fbf6f9405327d8d158a1eeac19b81a	Suspected FIN7	BATELEUR
check.doc	5972597b729a7d2853a3b37444e58e01	Suspected FIN7	BATELEUR
	6fff1d68203f8d23ccd23507ba00b9df	Suspected FIN7	BATELEUR
check.doc	762eef684e01831aa2f96031eff378bf	Suspected FIN7	BATELEUR
check.doc	9b1af2d9c0c0687c70466385800b6847	Suspected FIN7	BATELEUR
Doc1.doc	bb1a76702e2e7d0aa23385f24683d214	Suspected FIN7	BATELEUR
check.doc	d4088f8202e0eb27f90e692f988f0780	Suspected FIN7	BATELEUR
invoices.doc	dc8b30c5253f02a790a31f2853fe41f8	Suspected FIN7	BATELEUR
blah.doc	e020668055eb1d22710aa07f72860075	Suspected FIN7	BATELEUR
photos.doc	c517f48bf95a4f3ecba2046d12e62c88	Suspected FIN7	GRIFFON
test.doc	d7ca38e21327541787ab84bde83d7f81	Suspected FIN7	GRIFFON

Additional Malware

MD5	Malware	Attribution

5f73beb23c45006ad952a71fa62c6f9f	BABYMETAL	FIN7
a3754fba24f85d1d1bb7c0382e41586b	BABYMETAL	FIN7
dad8ebcbb5fa6721ccad45b81874e22c	BABYMETAL	FIN7
ecd88797023479667 50c37247ef6c2e6	BABYMETAL	FIN7
039d9e47e4474bee24785f8ec5307695	BIRDDOG	FIN7
92dfd0534b080234f9536371be63e37a	BIRDDOG	FIN7
188f261e5fca94bd1fc1edc1aafee8c0	CARBANAK	FIN7
2828ea78cdda8f21187572c99ded6dc2	CARBANAK	FIN7
291a17814d5dbb5bce5b186334cde4b1	CARBANAK	FIN7
4b3dac0a4f452b07d29f26b119180bd2	CARBANAK	FIN7
4eda75dfd4d12eda6a6219423b5972bd	CARBANAK	FIN7
6e9408c338e98a8bc166a8d4f8264019	CARBANAK	FIN7
749c5085cda920e830cfed32842ba835	CARBANAK	FIN7
80b022b39d91527f6ae5b4834d7c8173	CARBANAK	FIN7
8ae284d547bd1b8bd6bc2431735f9142	CARBANAK	FIN7
8e1e7f5ad99e48b740fd00085eab1f84	CARBANAK	FIN7
9ae433cd5397af6b485f1abb06b2c5a2	CARBANAK	FIN7
be1154e38df490e1dcbde3ffb2ebd05c	CARBANAK	FIN7
c6b57e042ceadb60d6fab217d3523e17	CARBANAK	FIN7
c6ec176592ea26c4ee27974273e592ff	CARBANAK	FIN7
dd4f312c7e1c25564a8d00b0f3495e24	CARBANAK	FIN7
facd37cd76989f45088ae98de8ed7aa0	CARBANAK	FIN7

4dc99280459292ef60d6d01ed8ece312	DRIFTPIN	FIN7
63241a3580cd1135170b044a84005e92	DRIFTPIN	FIN7
70345aa0b970e1198a9267ae4532a11b	DRIFTPIN	FIN7
de50d41d70b8879cdc73e684ad4ebe9f	DRIFTPIN	FIN7
ddc9b71808be3a0e180e2befae4ff433	SIMPLECRED	FIN7
90f35fd205556a04d13216c33cb0dbe3	BIRDDOG	Suspect FIN7

IPs

IP Address	Malware	Attribution
107.161.159.17	CARBANAK	FIN7
107.181.160.12	CARBANAK	FIN7
107.181.160.75*	DRIFTPINHALFBAKED	FIN7
162.244.32.168	CARBANAK	FIN7
162.244.32.175	CARBANAK	FIN7
179.43.140.82*	CARBANAK	FIN7
179.43.140.85*	CARBANAK	FIN7
179.43.160.162	CARBANAK	FIN7
179.43.160.215	CARBANAK	FIN7
185.104.8.173	CARBANAK	FIN7
198.100.119.28	CARBANAK	FIN7
204.155.30.100	CARBANAK	FIN7
204.155.30.100	DRIFTPINHALFBAKED	FIN7
23.249.162.161	CARBANAK	FIN7

5.8.88.64	BIRDDOG	FIN7
94.140.120.132	CARBANAK	FIN7
95.215.45.95	CARBANAK	FIN7
95.215.46.70	CARBANAK	FIN7
95.215.46.76	CARBANAK	FIN7
185.66.15.50		Suspected FIN7
194.165.16.113		Suspected FIN7
46.161.3.23		Suspected FIN7
85.93.2.148		Suspected FIN7
85.93.2.149		Suspected FIN7
81.177.27.41		Suspected FIN7
95.46.45.128	BATELEUR	Suspected FIN7
185.17.121.200	BATELEUR	Suspected FIN7
185.20.184.109*	BATELEUR	Suspected FIN7
185.220.35.20	BATELEUR	Suspected FIN7
185.5.248.167*	BATELEUR	Suspected FIN7
194.165.16.134	BATELEUR	Suspected FIN7
195.133.48.65	BATELEUR	Suspected FIN7
195.133.49.73	BATELEUR	Suspected FIN7
217.23.155.19	BATELEUR	Suspected FIN7
31.184.234.66	BATELEUR	Suspected FIN7
31.184.234.71	BATELEUR	Suspected FIN7

5.188.10.102	BATELEUR	Suspected FIN7
5.188.10.102	BATELEUR	Suspected FIN7
5.188.10.248	BATELEUR	Suspected FIN7
85.93.2.111	BATELEUR	Suspected FIN7
85.93.2.148	BATELEUR	Suspected FIN7
85.93.2.56	BATELEUR	Suspected FIN7
85.93.2.73	BATELEUR	Suspected FIN7
85.93.2.92	BATELEUR	Suspected FIN7
89.223.30.99	BATELEUR	Suspected FIN7
104.193.252.167	HALFBAKED	FIN7
104.232.34.166	HALFBAKED	FIN7
104.232.34.36	HALFBAKED	FIN7
107.181.160.76*	HALFBAKED	FIN7
119.81.178.100	HALFBAKED	FIN7
119.81.178.101	HALFBAKED	FIN7
138.201.44.3	HALFBAKED	FIN7
138.201.44.4	HALFBAKED	FIN7
179.43.147.71	HALFBAKED	FIN7
185.180.197.20	HALFBAKED	FIN7
185.180.197.34	HALFBAKED	FIN7
185.86.151.175	HALFBAKED	FIN7
191.101.242.162	HALFBAKED	FIN7

195.54.162.237*	HALFBAKED	FIN7
195.54.162.245	HALFBAKED	FIN7
195.54.162.79*	HALFBAKED	FIN7
198.100.119.6	HALFBAKED	FIN7
198.100.119.7	HALFBAKED	FIN7
204.155.31.167	HALFBAKED	FIN7
204.155.31.174	HALFBAKED	FIN7
217.12.208.80	HALFBAKED	FIN7
31.148.219.141*	HALFBAKED	FIN7
31.148.219.18*	HALFBAKED	FIN7
31.148.219.44*	HALFBAKED	FIN7
31.148.220.107*	HALFBAKED	FIN7
31.148.220.215*	HALFBAKED	FIN7
5.149.250.235	HALFBAKED	FIN7
5.149.250.241	HALFBAKED	FIN7
5.149.252.144	HALFBAKED	FIN7
5.149.253.126	HALFBAKED	FIN7
8.28.175.68*	HALFBAKED	FIN7
81.17.28.118*	HALFBAKED	FIN7
91.235.129.251*	HALFBAKED	FIN7
94.140.120.122	HALFBAKED	FIN7
94.140.120.134	HALFBAKED	FIN7

95.215.46.229	HALFBAKED	FIN7
95.215.47.105	HALFBAKED	FIN7
5.135.73.113	BIRDDOG	Suspect FIN7
5.8.88.64	BIRDDOG	FIN7

*VPS that may also have legitimate traffic.

Full Qualified Domain Names (FQDNs)

Domain	**Malware**	**Attribution**
bigred-tours.com		FIN7
clients12-google.com	BEACON.DNS	FIN7
clients2-google.com		FIN7
p3-marketing.com		FIN7
cdn-googleapi.com	GRIFFON	Suspect FIN7
cdn-googleservice.com	GRIFFON	Suspect FIN7
acity-lawfirm.com		FIN7
algew.me	POWERSOURCE	FIN7
aloqd.pw	POWERSOURCE	FIN7
amhs.club	TEXTMATE	FIN7
anselbakery.com		FIN7
apvo.club	TEXTMATE	FIN7
arctic-west.com		FIN7
auyk.club	POWERSOURCE	FIN7
b-bconsult.com		FIN7
bcleaningservice.com		FIN7

bigrussianbss.com		FIN7
bipismol.com		FIN7
bipovnerlvd.com		FIN7
blopsadmvdrl.com		FIN7
blopsdmvdrl.com		FIN7
bnrnboerxce.com		FIN7
bpee.pw	POWERSOURCE	FIN7
bureauofinspections.com		FIN7
bvyv.club	POWERSOURCETEXTMATE	FIN7
bwuk.club	POWERSOURCETEXTMATE	FIN7
bwwrvada.com		FIN7
cgqy.us	POWERSOURCETEXTMATE	FIN7
chatterbuzz-media.com		FIN7
chenstravelconsulting.com		FIN7
cihr.site	POWERSOURCETEXTMATE	FIN7
citizentravel.biz		FIN7
cjsanandreas.com		FIN7
ckwl.pw	POWERSOURCETEXTMATE	FIN7
cloo.com	POWERSOURCE	FIN7
cnkmoh.pw	POWERSOURCE	FIN7
cnlu.net	TEXTMATE	FIN7
cnmah.pw	POWERSOURCE	FIN7

coec.club	POWERSOURCETEXTMATE	FIN7
coffee-joy-usa.com		FIN7
cspg.pw	TEXTMATE	FIN7
ctxdns.org		FIN7
ctxdns.pw		FIN7
cuuo.us	POWERSOURCETEXTMATE	FIN7
daskd.me	POWERSOURCE	FIN7
dbxa.pw	POWERSOURCETEXTMATE	FIN7
ddmd.pw	POWERSOURCE	FIN7
deliciouswingsny.com		FIN7
dlex.pw	POWERSOURCE	FIN7
dlox.pw	POWERSOURCE	FIN7
dnstxt.net		FIN7
dnstxt.org		FIN7
doof.pw	POWERSOURCE	FIN7
dosdkd.mo	POWERSOURCE	FIN7
dpoo.pw	POWERSOURCE	FIN7
dsud.com	POWERSOURCE	FIN7
dtxf.pw	POWERSOURCE	FIN7
duglas-manufacturing.com		FIN7
dvso.pw	POWERSOURCETEXTMATE	FIN7
dyiud.com	POWERSOURCE	FIN7

eady.club	POWERSOURCETEXTMATE	FIN7
enuv.club	POWERSOURCETEXTMATE	FIN7
eter.pw	POWERSOURCETEXTMATE	FIN7
extmachine.biz		FIN7
facs.pw	TEXTMATE	FIN7
fbjz.pw	POWERSOURCETEXTMATE	FIN7
fhyi.club	POWERSOURCETEXTMATE	FIN7
firsthotelgroup.com		FIN7
firstprolvdrec.com		FIN7
fkij.net	TEXTMATE	FIN7
flowerprosv.com		FIN7
fredbanan.com	POWERSOURCE	FIN7
futh.pw	POWERSOURCETEXTMATE	FIN7
gcan.site	TEXTMATE	FIN7
ge-stion.com		FIN7
gjcu.pw	POWERSOURCE	FIN7
gjuc.pw	POWERSOURCE	FIN7
glavpojdfde.com	BEACON.DNS	FIN7
gnoa.pw	POWERSOURCETEXTMATE	FIN7
gnsn.us	TEXTMATE	FIN7
goldman-travel.com		FIN7
goproders.com	BEACON.DNS	FIN7

gprw.site	TEXTMATE	FIN7
grand-mars.ru		FIN7
grij.us	POWERSOURCETEXTMATE	FIN7
gsdg.site	TEXTMATE	FIN7
guopksl.com	BEACON.DNS	FIN7
gxhp.top	POWERSOURCETEXTMATE	FIN7
hijrnataj.com		FIN7
hilertonv.com	BEACON.DNS	FIN7
hilopser.com	BEACON.DNS	FIN7
hippsjnv.com		FIN7
hldu.site	POWERSOURCE	FIN7
hoplessinple.com		FIN7
hoplessinples.com		FIN7
hopsl3.com	BEACON.DNS	FIN7
hvzr.info	POWERSOURCETEXTMATE	FIN7
idjb.us	POWERSOURCETEXTMATE	FIN7
ihrs.pw	POWERSOURCE	FIN7
imyo.site	TEXTMATE	FIN7
itstravel-ekb.ru		FIN7
ivcm.club	TEXTMATE	FIN7
jblz.net	TEXTMATE	FIN7
jersetl.com	BEACON.DNS	FIN7

jimw.club	POWERSOURCETEXTMATE	FIN7
jipdfonte.com		FIN7
jiposlve.com	BEACON.DNS	FIN7
jjee.site	POWERSOURCE	FIN7
johsimsoft.org		FIN7
jomp.site	POWERSOURCETEXTMATE	FIN7
josephevinchi.com		FIN7
just-easy-travel.com		FIN7
juste-travel.com	HALFBAKED	FIN7
jxhv.site	POWERSOURCETEXTMATE	FIN7
kalavadar.com		FIN7
kashtanspb.ru		FIN7
kbep.pw	TEXTMATE	FIN7
kiposerd.com	BEACON.DNS	FIN7
kiprovol.com		FIN7
kiprovolswe.com		FIN7
kjke.pw	POWERSOURCE	FIN7
kjko.pw	POWERSOURCE	FIN7
koldsdes.com		FIN7
kshv.site	POWERSOURCETEXTMATE	FIN7
kuyarr.com		FIN7
kwoe.us	POWERSOURCETEXTMATE	FIN7

ldzp.pw	POWERSOURCE	FIN7
lgdr.com	POWERSOURCE	FIN7
lhlv.club	POWERSOURCETEXTMATE	FIN7
lnoy.site	POWERSOURCETEXTMATE	FIN7
luckystartwith.com		FIN7
lvrm.pw	POWERSOURCETEXTMATE	FIN7
lvxf.pw	POWERSOURCE	FIN7
manchedevs.org		FIN7
maofmdfd5.com		FIN7
meli-travel.com	HALFBAKED	FIN7
melitravel.ru		FIN7
mewt.us	POWERSOURCE	FIN7
mfka.pw	POWERSOURCETEXTMATE	FIN7
michigan-construction.com		FIN7
mjet.pw	POWERSOURCE	FIN7
mjot.pw	POWERSOURCE	FIN7
mjut.pw	POWERSOURCE	FIN7
mkwl.pw	TEXTMATE	FIN7
molos-2.com	BEACON.DNS	FIN7
mtgk.site	POWERSOURCE	FIN7
mtxf.com	TEXTMATE	FIN7
muedandubai.com		FIN7

muhh.us	POWERSOURCE	FIN7
mut.pw	POWERSOURCE	FIN7
mvze.pw	POWERSOURCE	FIN7
mvzo.pw	POWERSOURCE	FIN7
mxfg.pw	POWERSOURCE	FIN7
mxtxt.net		FIN7
myspoernv.com		FIN7
navigators-travel.com		FIN7
neartsay.com		FIN7
nevaudio.com		FIN7
neverfaii.com		FIN7
nroq.pw	POWERSOURCE	FIN7
ns0.site	POWERPIPE	FIN7
ns0.space	POWERPIPE	FIN7
ns0.website	POWERPIPE	FIN7
ns1.press	POWERPIPEPOWERSOURCE.V2	FIN7
ns1.website	POWERPIPEPOWERSOURCE.V2	FIN7
ns2.press	POWERPIPEPOWERSOURCE.V2	FIN7
ns3.site	POWERPIPEPOWERSOURCE.V2	FIN7
ns3.space	POWERPIPEPOWERSOURCE.V2	FIN7
ns4.site	POWERPIPEPOWERSOURCE.V2	FIN7
ns4.space	POWERPIPEPOWERSOURCE.V2	FIN7

ns5.biz	POWERPIPEPOWERSOURCE.V2	FIN7
ns5.online	POWERPIPEPOWERSOURCE.V2	FIN7
ns5.pw	MAL	FIN7
ntlw.net	POWERSOURCE	FIN7
nwrr.pw	POWERSOURCE	FIN7
nxpu.site	POWERSOURCETEXTMATE	FIN7
oaax.site	POWERSOURCETEXTMATE	FIN7
odwf.pw	POWERSOURCE	FIN7
odyr.us	POWERSOURCETEXTMATE	FIN7
okiq.pw	POWERSOURCE	FIN7
oknz.club	POWERSOURCETEXTMATE	FIN7
olckwses.com		FIN7
olgw.my	POWERSOURCE	FIN7
oloqd.pw	POWERSOURCE	FIN7
oneliveforcopser.com		FIN7
onokder.com	BEACON.DNS	FIN7
ooep.pw	POWERSOURCETEXTMATE	FIN7
oof.pw	POWERSOURCE	FIN7
ooyh.us	POWERSOURCETEXTMATE	FIN7
orfn.com	POWERSOURCE	FIN7
otzd.pw	POWERSOURCE	FIN7
oxrp.info	POWERSOURCETEXTMATE	FIN7

oyaw.club	POWERSOURCETEXTMATE	FIN7
p3marketing.org		FIN7
pafk.us	POWERSOURCETEXTMATE	FIN7
palj.us	POWERSOURCETEXTMATE	FIN7
park-travels.com		FIN7
parktravel-mx.ru		FIN7
partnersind.biz		FIN7
pbbk.us	POWERSOURCETEXTMATE	FIN7
pbsk.site	TEXTMATE	FIN7
pdoklbr.com	BEACON.DNS	FIN7
pdokls3.com	BEACON.DNS	FIN7
pgnb.net	POWERSOURCE	FIN7
pinewood-financial.com		FIN7
pjpi.com	POWERSOURCE	FIN7
plusmarketingagency.com		FIN7
ppdx.pw	POWERSOURCETEXTMATE	FIN7
prideofhume.com		FIN7
pronvowdecee.com		FIN7
proslr3.com	BEACON.DNS	FIN7
prostelap3.com	BEACON.DNS	FIN7
proverslokv4.com		FIN7
provnkfexxw.com		FIN7

pvze.club	POWERSOURCETEXTMATE	FIN7
qdtn.us	TEXTMATE	FIN7
qefg.info	POWERSOURCETEXTMATE	FIN7
qlpa.club	POWERSOURCETEXTMATE	FIN7
qsez.club	TEXTMATE	FIN7
qznm.pw	POWERSOURCE	FIN7
rdnautomotiv.biz		FIN7
redtoursuk.org		FIN7
reld.info	POWERSOURCETEXTMATE	FIN7
rescsovwe.com	BEACON.DNS	FIN7
revital-travel.com	HALFBAKED	FIN7
revitaltravel.com		FIN7
rmbs.club	TEXTMATE	FIN7
rnkj.pw	POWERSOURCE	FIN7
rtopsmve.com	BEACON.DNS	FIN7
rzzc.pw	POWERSOURCE	FIN7
sgvt.pw	POWERSOURCE	FIN7
shield-checker.com		FIN7
simpelkocsn.com		FIN7
simplewovmde.com		FIN7
soru.pw	POWERSOURCE	FIN7
sprngwaterman.com		FIN7

strideindastry.biz		FIN7
strideindustrial.com		FIN7
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strikes-withlucky.com		FIN7
swio.pw	POWERSOURCE	FIN7
tijm.pw	POWERSOURCE	FIN7
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turp.pw	POWERSOURCE	FIN7
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ufyb.club	POWERSOURCETEXTMATE	FIN7
utca.site	POWERSOURCETEXTMATE	FIN7
uwqs.club	TEXTMATE	FIN7
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vjro.club	POWERSOURCETEXTMATE	FIN7
vkpo.us	POWERSOURCETEXTMATE	FIN7

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vpuo.pw	POWERSOURCE	FIN7
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wein.net	POWERSOURCE	FIN7
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widermachinery.biz		FIN7
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wqiy.info	POWERSOURCETEXTMATE	FIN7
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yamd.pw	POWERSOURCE	FIN7

ybnz.site	TEXTMATE	FIN7
ydvd.net	TEXTMATE	FIN7
yedq.pw	POWERSOURCE	FIN7
yodq.pw	POWERSOURCE	FIN7
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clients57-google.com		FIN7
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ssl-googles4.com		FIN7
ssl-googlesr5.com		FIN7
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