

New pastebin-like service used in multiple malware campaigns

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Juniper Threat Labs identified several malware campaigns that rely on a pastebin-like service for its infection chain. The domain in question is paste.nrecom.net. The attacks usually start as a phishing email and, when a user is tricked into executing the malware, it downloads the succeeding stage of the malware from paste.nrecom.net and loads it into the memory without writing to disk. Using a legitimate web-service for the malware infrastructure is not new, as we have seen APT group [FIN6 using pastebin](#) to host parts of the infection chain and [Rocke](#) using it for command and control. Although using legitimate web services is not novel, this is the first time that we have seen threat actors use paste.nrecom.net. Among the malware we have identified are AgentTesla, LimeRAT, Ransomware and Redline Stealer.

What is paste.nrecom.net?

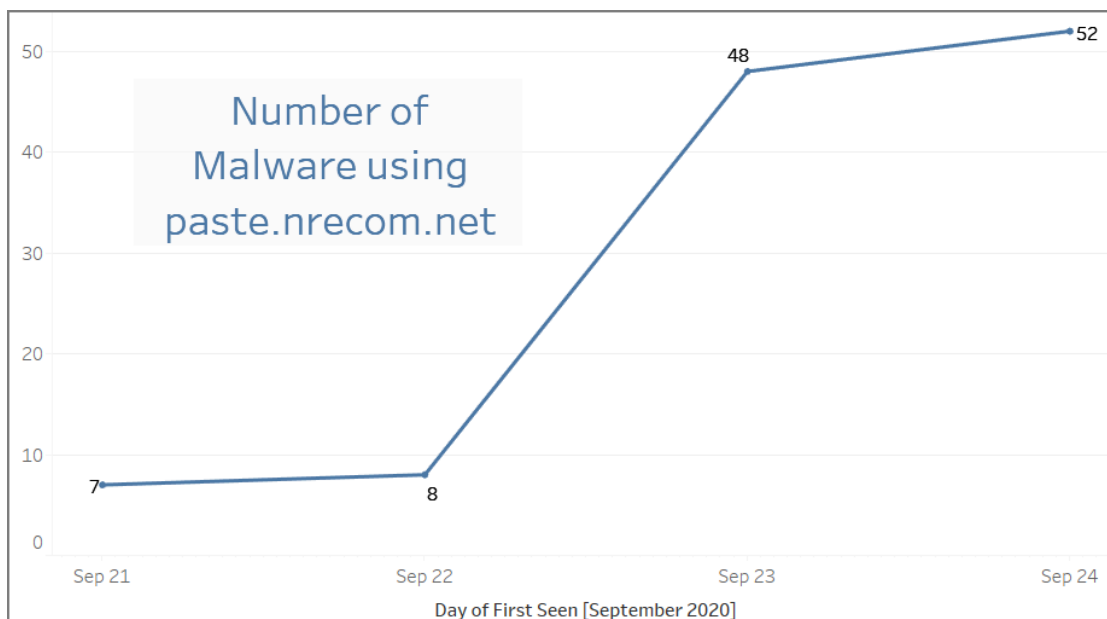

```
λ base64 -d 3529ec57 | xxd | head
00000000: 4f58 9202 0102 0202 0602 0202 fdfd 0202  OX.....
00000010: ba02 0202 0202 0202 4202 0202 0202 0202  .....B.....
00000020: 0202 0202 0202 0202 0202 0202 0202 0202  .....
00000030: 0202 0202 0202 0202 0202 0202 8202 0202  .....
00000040: 0c1d b80c 02b6 0bcf 23ba 034e cf23 566a  .....#..N.#Vj
00000050: 6b71 2272 706d 6570 636f 2261 636c 6c6d  kq"rpmepco"acllm
00000060: 7622 6067 2270 776c 226b 6c22 464d 5122  v"~g"pwl"kl"FMQ"
00000070: 6f6d 6667 2c0f 0f08 2602 0202 0202 0202  omfg,...&.....
00000080: 5247 0202 4e03 0102 dbcd 655d 0202 0202  RG..N....e]....
00000090: 0202 0202 e202 2002 0903 5202 02f6 0502  .....R.....
```

After base64 decoding, the file is still encrypted with XOR algorithm.

```
λ xxd 3529ec57.dec.XOR.02 | head
00000000: 4d5a 9000 0300 0000 0400 0000 ffff 0000  MZ.....
00000010: b800 0000 0000 0000 4000 0000 0000 0000  .....@.....
00000020: 0000 0000 0000 0000 0000 0000 0000 0000  .....
00000030: 0000 0000 0000 0000 0000 0000 8000 0000  .....
00000040: 0e1f ba0e 00b4 09cd 21b8 014c cd21 5468  .....!..L.!Th
00000050: 6973 2070 726f 6772 616d 2063 616e 6e6f  is program canno
00000060: 7420 6265 2072 756e 2069 6e20 444f 5320  t be run in DOS
00000070: 6d6f 6465 2e0d 0d0a 2400 0000 0000 0000  mode...$.
00000080: 5045 0000 4c01 0300 d9cf 675f 0000 0000  PE..L....g_....
00000090: 0000 0000 e000 2200 0b01 5000 00f4 0700  .....".P.....
```

After all the necessary decoding and decryption, you will then see the executable file, as shown above.

From September 21, 2020, we have seen several malware families taking advantage of this service and quickly ramped up.



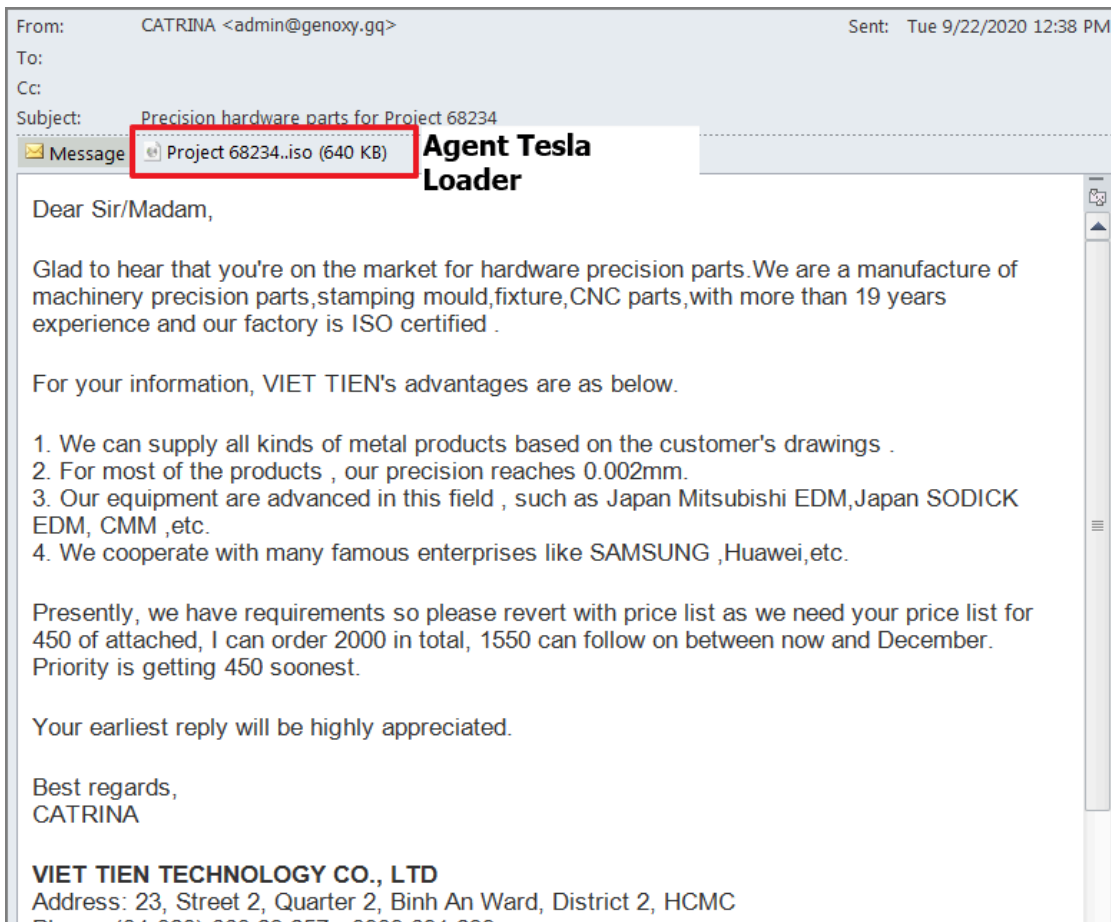
Malware Campaigns

The attack usually starts with a phishing email that includes an attachment, such as a document, archive or an executable. When a user is tricked into installing the malicious attachment (first stage), it downloads the next stages from paste.nrecom.net. We have also seen malware hosting their configuration data in the same service.

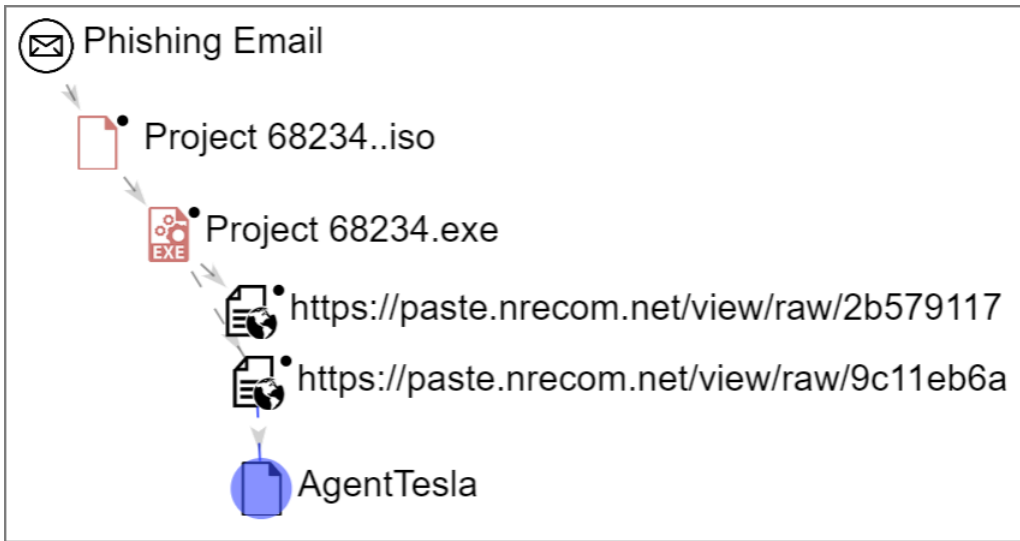
Agent Tesla

Agent Tesla is a spyware that is capable of stealing personal data from web browsers, mail clients and FTP servers. It can also collect screenshots, videos and capture clipboard data. Recent versions of this malware are also capable of stealing personal data from VPN clients. It is being sold on the underground markets for as low as \$15 and could go up to \$70 depending on the additional features.

[Agent Tesla](#) is among the most active malware using this pastebin-like service. Campaigns usually start with a phishing email with a malicious attachment. Based on the samples we found, these campaigns target multiple industries related to shipping, supply chain and banks. In some cases, the attachments are archives, such as .iso, .rar or .uuu like below:

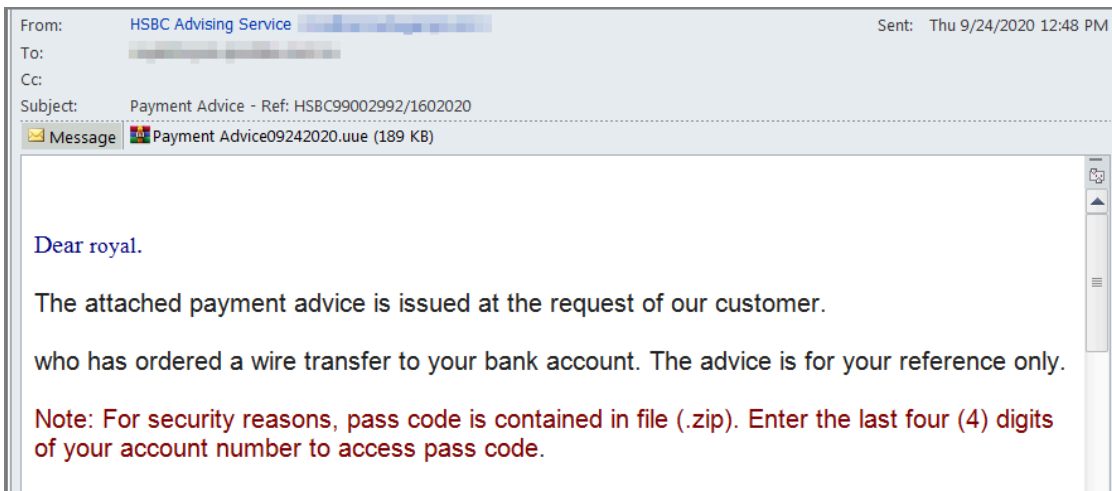


Attachment Sha256: 9c38ab9d806417e89e3c035740421977f92a15c12f9fa776ac9665a1879e5f67



Infection Chain for 9c38ab9d806417e89e3c035740421977f92a15c12f9fa776ac9665a1879e5f67

As you can see from the chain, there are two requests to paste.nrecom because it divides the Agent Tesla payload into two. The first request is the first half of the file and the second request makes the second half. This technique makes it harder for security solutions to analyze the payload.



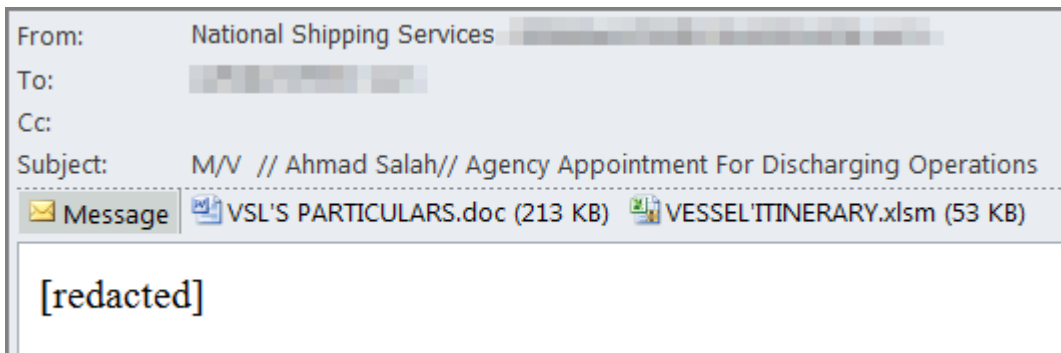
Another sample phishing email has the attachment with Sha256:
199a98adf78de6725b49ec1202ce5713eb97b00ae66669a6d42f8e4805a0fab9

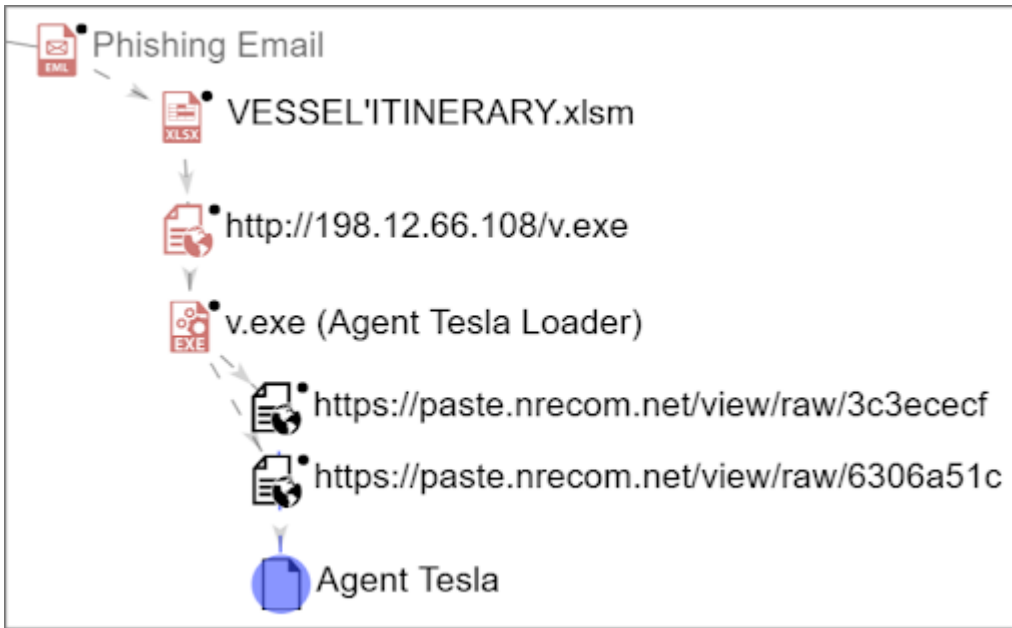
Below are email attachments and files inside some email attachments that we have found to install Agent Tesla using paste.nrecom.

File Name	Sha256
Emirate bank TT copy 2020-09-20 at 07.30.55.uue	f8c02c3f6d22978b3c478d0fb7ad4845609b8ad4a38e0ed2a75721156a6a8e44

Inv C-22464 PO 3871.exe	27f8e739b62c685c4115f49ae146bb75271d0b8fad021436939735bf7492186b
PO#150367285 SECONDO VERGANI SPA Ref#BK043383.exe	3101003430beae11fe082a07878ac2f643a64e3abd82b7b2a787a0e1fde27307
Payment Notification.uue	b7cf6fb7557f435bab1b815a38b1771aea9d118192f6d184111754615e8881af
bank payment copy.exe	136991b95c503e13d7ed77305a305f6f568c9d93273584d19a33014202a6ebbb
Payment docs63878288882788.docx.rar	44221603cb9e19a630e35bd12a9c8bd97a9d2743a6fc5528e81db0718fc3e1b3
Attachment JOIN LEADERS PO332.pdf.exe	167139073c586fd0d7de374611f899e170fd0316463be6c65170496636b3e42d
APROBACION DE TRANSFERENCIA INUSUAL REALIZADA EXITOSAMENTE.tar	0e044c8570122a280c963cac80e0140da78ee0d378cd17cab4ea6f146ce35d15

In some cases, the attached files are Office Documents that download the Agent Tesla loader.





Infection chain for c66e6c6018d3e51e8b39146c6021fb51f59750b93778a063f7d591f24068c880

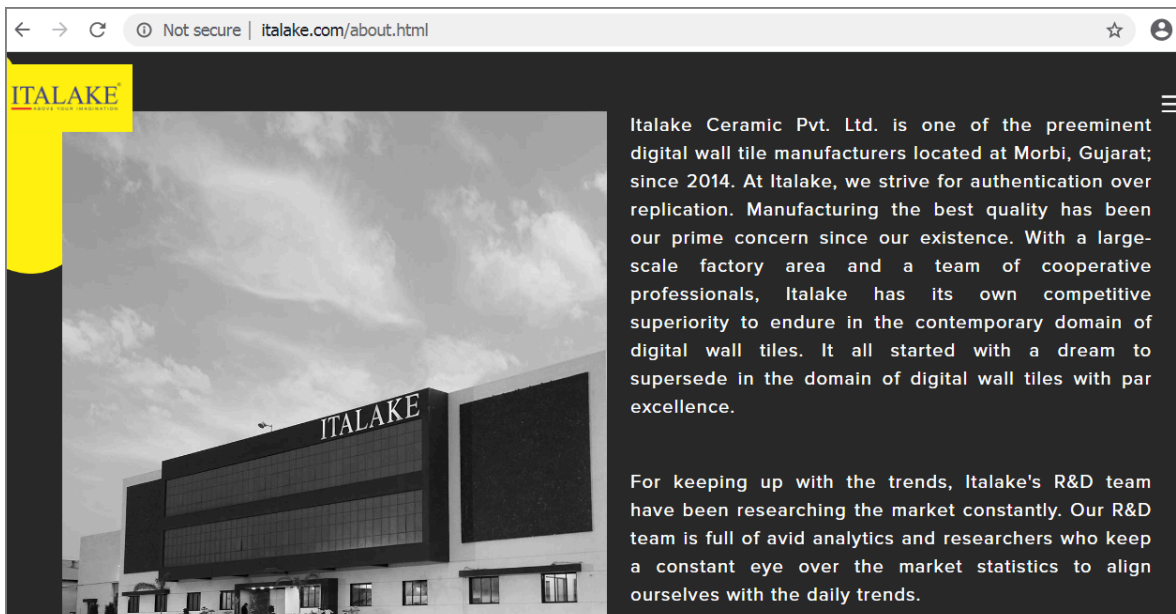
W3Cryptolocker Ransomware

W3Cryptolocker is a relatively new ransomware. Based on our telemetry, this ransomware surfaced in July 2020. We will call this malware W3Cryptolocker, based on a string found in its code.

```
.....bÿÿÿ.....u~  
.°^[$.„B´4¿İ«)Ý¹Òìž.ÈÕ™=ù&<¼°W3CRYPTO LOCKER...  
@.....Attention! ....All your files are encryp  
ted....to purchase an unique decryptor use e-mai  
l filessupport@cock.li ....or create ticket here  
: https://yip.su/2QstD5.....expand 32-byte k....
```

Strings found in the binary code of this ransomware.

The loader was hosted on a potentially hacked site, italake.com.

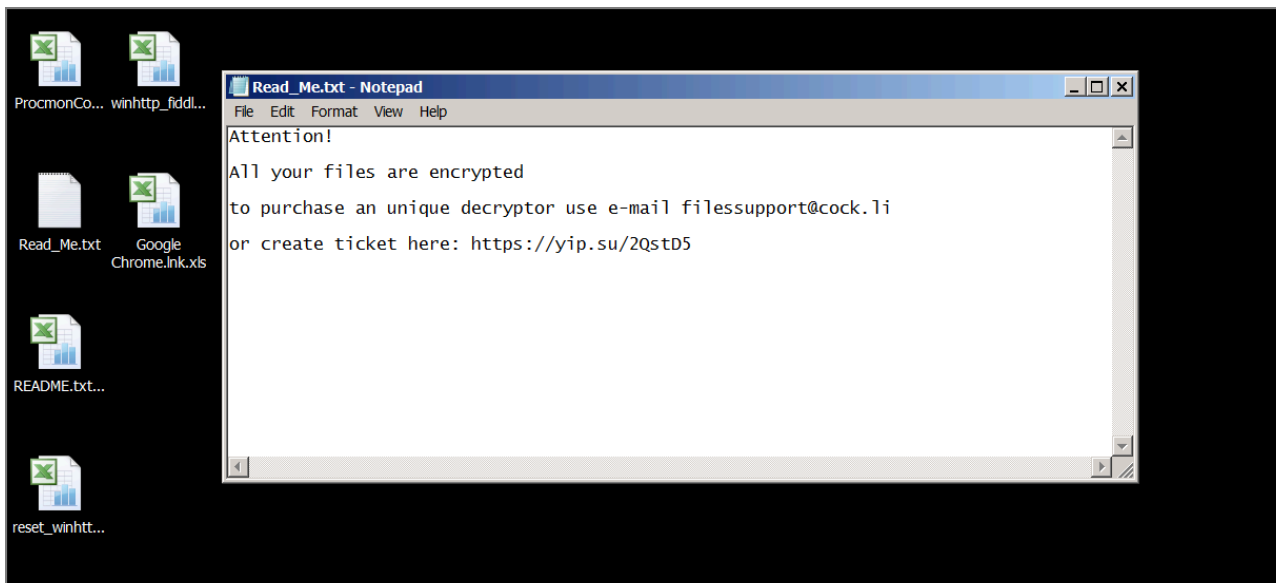


Infection Chain of Ede98ae4e8afea093eae316388825527658807489e5559bff6dbf5bc5b554a2c

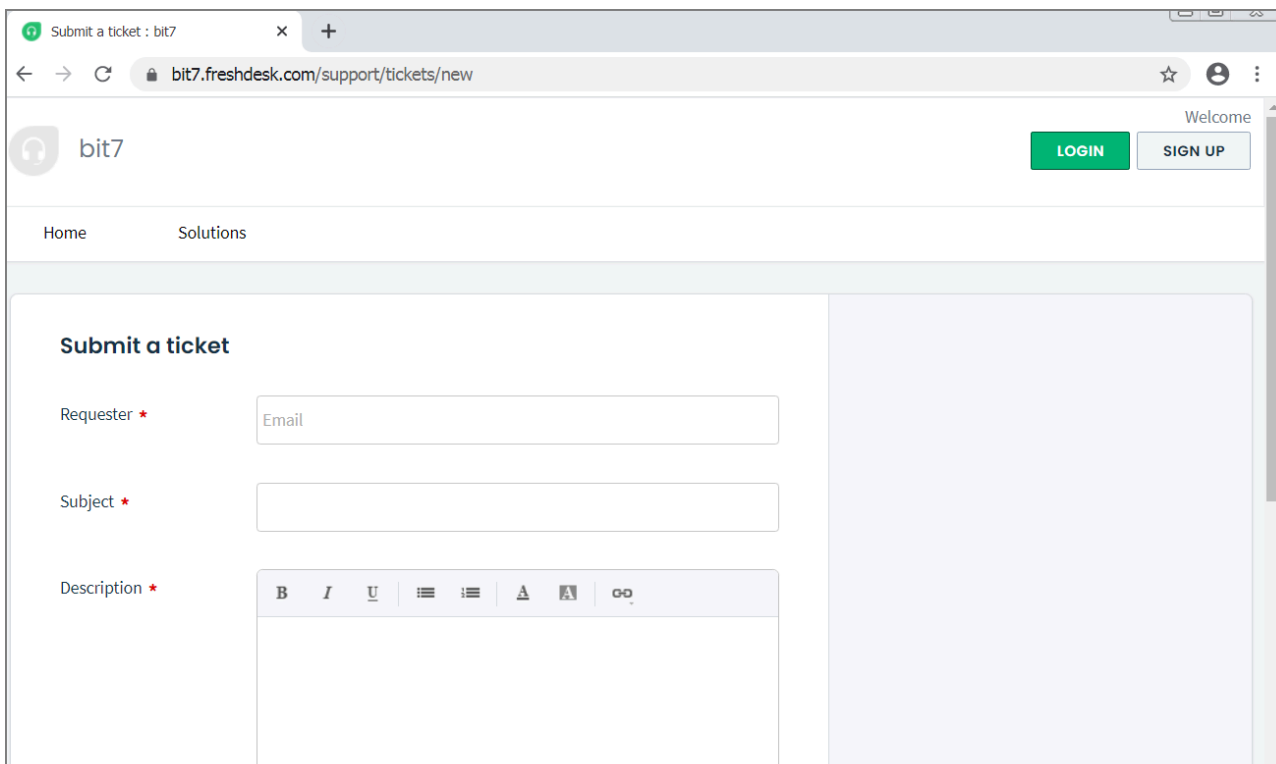
It will encrypt all files in all drives except for files having “.xls” extension and folders having the following strings:

- Windows
- ProgramData
- \$Recycle.bin
- System Volume Information

It adds an extension .xls for encrypted files. After it is done encrypting each folder, it creates a “Read_Me.txt” file on each folder with the following message.



Visiting the [https://yip\[.\]su/2QstD5](https://yip[.]su/2QstD5) leads you to a freshdesk support site, bit7.freshdesk.com.



Other W3Cryptolocker Samples

- c97852b425e41d384227124d93baf6c2d3e30b52295a828b1eac41dc0df94d29
- 9a0af98d0b8f7eacc3fdd582bbc0d4199825e01eeb20c2a6f98023c33ece74f6
- 01eea2a4628c6b27a5249a08152655246871acafa657e391b73444c05097976e
- 9a08e87e8063b13546e464f73e87b2ca5bde9410fec4e614313e2b8a497592fa
- 8dfe87850bd17b4eb0169b85b75b5f104ae6b84deeb2c81fe6ae5e19685f6c66
- 53124033d521158771eac79ad6f489c6fdd5b25ab96712035c2ca65b3a3c5eed
- aac2024789ffd2bfce97d6a509136ecf7c43b18c2a83280b596e62d988cedb10

- fafabdf67883587ba1a3c29f6345a378254f720efe8c2f318a4d5acdbce373

Redline Stealer

Redline Stealer is a malware that surfaced around March 2020 and it was reported to have targeted healthcare and manufacturing industries in the United States. This malware is found being advertised on forums with several pricing options starting from \$100/month subscription. It has the following functionality:

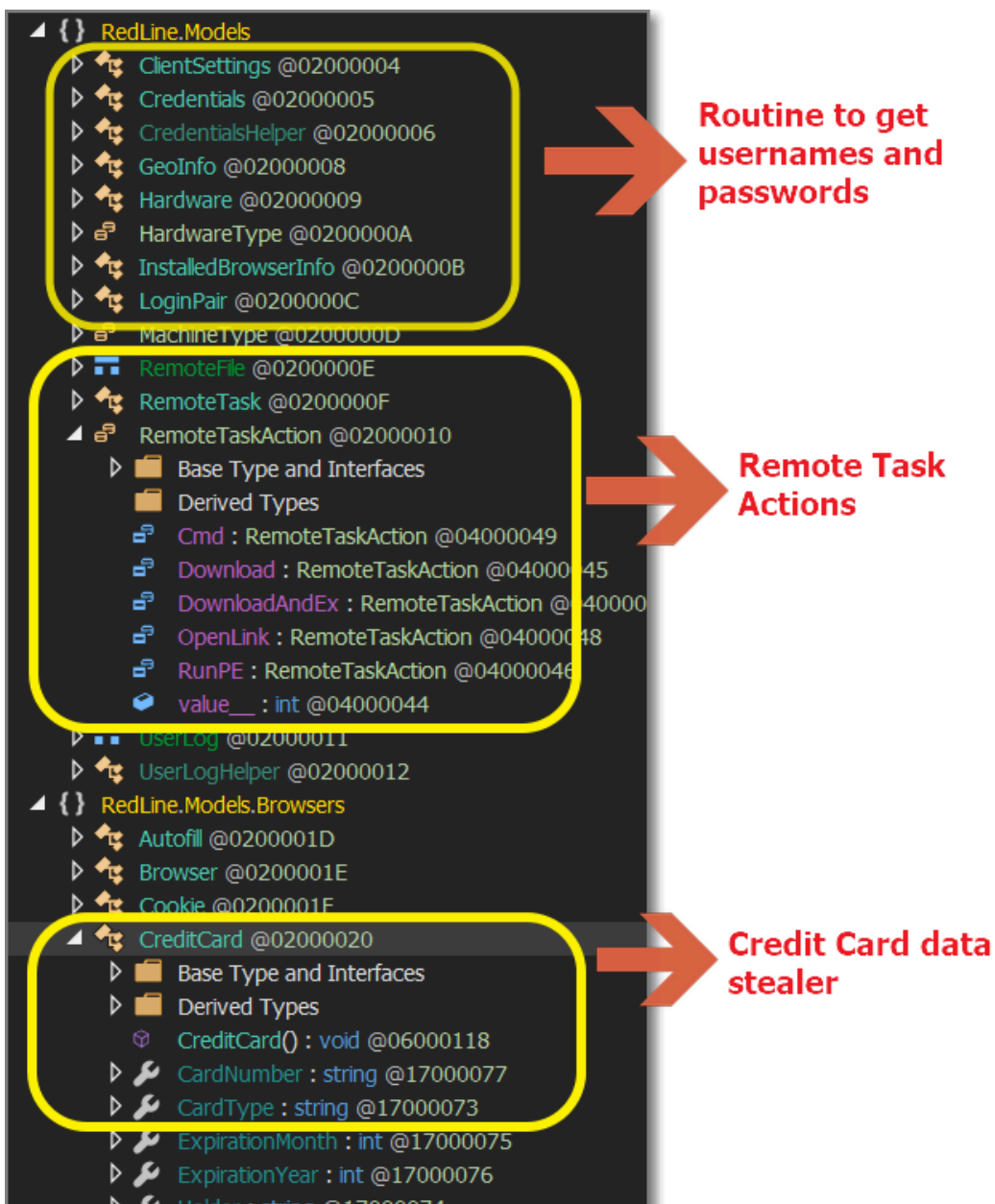
- Browser Data Stealer
 - Login and Passwords
 - Cookies
 - Autocomplete Fields
 - Credit Cards
- Remote Task Functions
 - Execute Commands
 - Download Files
 - Download Files and Execute
 - RunPE (Process Injection for fileless infection)
 - OpenLink
- FTP and IM client stealer
- File-grabber
- Collects information about the victim's system

The sample we found poses as a Bitcoin Miner archived into a RAR file. The archive contains an executable, MinerBitcoin.exe, that downloads the Redline Stealer payload from paste.nrecom.net.



Infection Chain of Redline Stealer: Sha256:

a719affc96b41b63f78d03dc3bc6b7340287d25d876e58fd1ab307169a1751dc

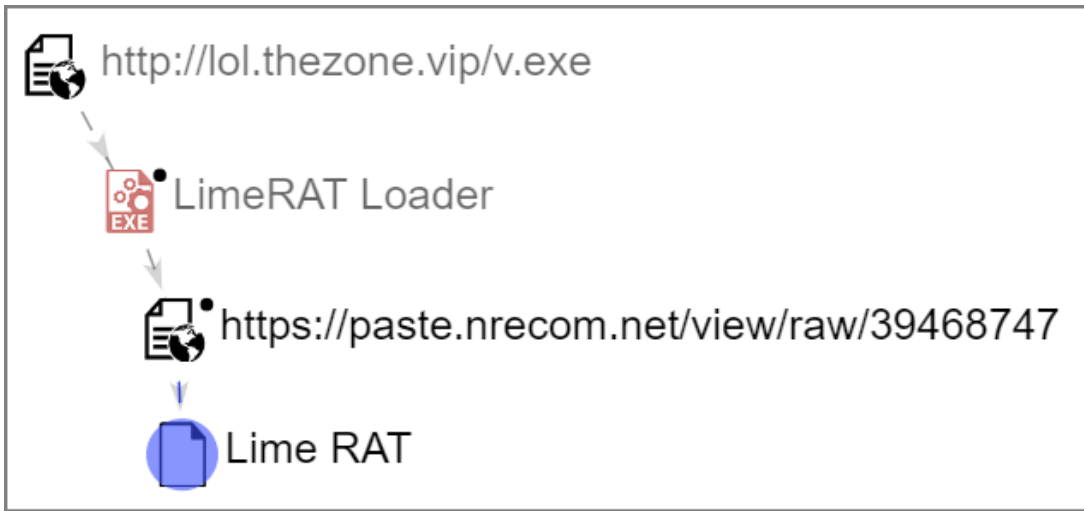


Redline Stealer malicious functions

LimeRAT

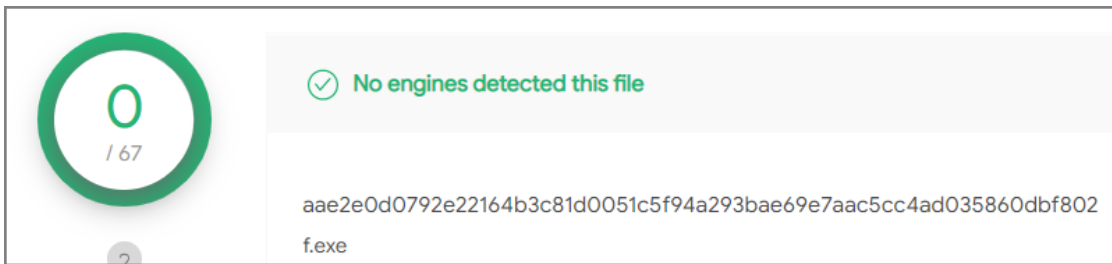
[LimeRAT](#) is a remote administration trojan coded in .NET and is open source. It was a malware used to target Colombian government institutions by the APT-C-36 group. Among its many capabilities, it can be used as:

- Ransomware
- Remote Desktop
- Crypto Mining
- CryptoStealer
- DDOS
- Keylogger
- Password Stealer



Infection Chain of 20ad344d20337f8a782135e59bc1f6e1a7999bcddc50fc1dc3b8b6645abcb91e

Another sample we found is aae2e0d0792e22164b3c81d0051c5f94a293bae69e7aac5cc4ad035860dbf802. At the time of this analysis, this sample still has zero VT detections. It downloads the LimeRAT from `https://paste[.]nrecom[.]net/view/raw/93a7cd20`.



aae2e0d0792e22164b3c81d0051c5f94a293bae69e7aac5cc4ad035860dbf802 with no VT hits

Conclusion

Using legitimate web-services like pastebin or paste.nrecom for malware infrastructure gives cybercriminals an advantage, as these services cannot be easily taken down due to their legitimate use. We recommend Security Operations to add paste.nrecom to potentially web services being abused for malicious purposes. It is recommended to monitor web-services like this one for suspicious content particularly binary data encoded in base64. Juniper's Encrypted Traffic Insights capability on the SRX NGFW does detect the malicious TLS connections to paste.nrecom.net as malicious using machine learning as seen in the screenshot below for W3Cryptolocker loader.

Juniper Advanced Threat Protection (ATP) detects these threats.

Monitor / File Scanning / HTTP File Downloads What's new tenant

9c38ab9d806417e89e3c... Report False Positive Download STIX Report

Threat Level

9 ● File name 9c38ab9d806417e89e3c0357...
Category other (MIME type: applic...

Top Indicators

Malware Name Unavailable:Production
Signature Match Unavailable
Antivirus Clean

Prevalence

Global prevalence Medium
Unique users 1
Protocols seen HTTP

GENERAL BEHAVIOR ANALYSIS NETWORK ACTIVITY BEHAVIOR DETAILS

Status

Threat Level ● 9
Global Prevalence Medium
Last Scanned Oct 1, 2020 11:41 AM

File Information

File Name 9c38ab9d806417e89e3c035740421977f92a15c12f9fa776ac9665a1879e5f67
Category other (MIME type: application/octet-stream)
Size 640KB
Platform Generic
Malware Name Unavailable:Production
Type Generic
Strain Unavailable:Production

Other Details

sha256 9c38ab9d806417e89e3c035740421977f92a15c12f9fa776ac9665a1879e5f67
md5 eb7da6ec44167818dc6e01ba787f3ef6

Detection of AgentTesla Loader (Project 68234.iso)

c66e6c6018d3e51e8b39... Report False Positive Download STIX Report

Threat Level

9 ● File name VESSEL'ITENERARY.xlsm
Category document (Extension: xlsm...

Top Indicators

Malware Name Unavailable:Js:Unavailable:Production
Signature Match Unavailable (Unavailable)
Antivirus Clean

Prevalence

Global prevalence Medium
Unique users 1
Protocols seen HTTP

GENERAL BEHAVIOR ANALYSIS NETWORK ACTIVITY BEHAVIOR DETAILS

Status

Threat Level ● 9
Global Prevalence Medium
Last Scanned Oct 1, 2020 12:00 PM

File Information

File Name VESSEL'ITENERARY.xlsm
Category document (Extension: xlsm, MIME type: application/open-office-xml)
Size 53KB
Platform Generic

Other Details

sha256 c66e6c6018d3e51e8b39146c6021fb51f59750b93778a063f7d591f24068c880
md5 0e71c5aade8078858f45a73a67be9b2

Detection of AgentTesla Loader (VESSEL'ITENERARY.xlsm)

ede98ae4e8afea093eae... Report False Positive

Threat Level

9 ● File name wrcryptoloker_loader.exe
Category executable (Extension: e...

Top Indicators

Malware Name Win32:Trojan:Unavailable:Production
Signature Match Unavailable (Trojan)
Antivirus Clean

Prevalence

Global prevalence Medium
Unique users 1
Protocols seen HTTP

GENERAL BEHAVIOR ANALYSIS NETWORK ACTIVITY BEHAVIOR DETAILS

Status

Threat Level ● 9
Global Prevalence Medium
Last Scanned Oct 1, 2020 12:05 PM

File Information

File Name wrcryptoloker_loader.exe
Category executable (Extension: exe, MIME type: application/dosexec)
Size 106KB
Platform Win32

Other Details

sha256 ede98ae4e8afea093eae316388825527658807489e5559bffd0f50c5b554a2c
md5 d6edc18e25ca020cb5aba8366e8be1f3

Detection of W3Cryptolocker Loader (0022.exe)

Encrypted Traffic Insights

External Server IP	External Server Hostname	Highest Threat Level	Count	Country	Last Seen	Category
7.0.0.27	paste.nrecom.net	● 10	2	United States	Oct 1, 2020 11:44 AM	

Detection of malicious connection to paste.nrecom using Juniper Encrypted Traffic Insights

Indicators of Compromise (IOC)

Domain

Paste.nrecom.net

192.12.66.108

lol.thezone.vip

URL

[https://198\[.\]12\[.\]66\[.\]108/v\[.\]exe](https://198[.]12[.]66[.]108/v[.]exe)

[https://lol\[.\]thezone\[.\]vip/v\[.\]exe](https://lol[.]thezone[.]vip/v[.]exe)

[https://italake\[.\]com/assets/css/0022\[.\]exe](https://italake[.]com/assets/css/0022[.]exe)

[https://paste\[.\]nrecom\[.\]net/view/raw/3c3ecef](https://paste[.]nrecom[.]net/view/raw/3c3ecef)

[https://paste\[.\]nrecom\[.\]net/view/raw/6306a51c](https://paste[.]nrecom[.]net/view/raw/6306a51c)

[https://paste\[.\]nrecom\[.\]net/view/raw/bfefa179](https://paste[.]nrecom[.]net/view/raw/bfefa179)

[https://paste\[.\]nrecom\[.\]net/view/raw/39468747](https://paste[.]nrecom[.]net/view/raw/39468747)

[https://paste\[.\]nrecom\[.\]net/view/raw/c230a816](https://paste[.]nrecom[.]net/view/raw/c230a816)

[https://paste\[.\]nrecom\[.\]net/view/raw/3529ec57](https://paste[.]nrecom[.]net/view/raw/3529ec57)

[https://paste\[.\]nrecom\[.\]net/view/raw/7900ed08](https://paste[.]nrecom[.]net/view/raw/7900ed08)

[https://paste\[.\]nrecom\[.\]net/view/raw/bd63e76f](https://paste[.]nrecom[.]net/view/raw/bd63e76f)

[https://paste\[.\]nrecom\[.\]net/view/raw/658b9281](https://paste[.]nrecom[.]net/view/raw/658b9281)

[https://paste\[.\]nrecom\[.\]net/view/raw/b44fe71a](https://paste[.]nrecom[.]net/view/raw/b44fe71a)

[https://paste\[.\]nrecom\[.\]net/view/raw/93a7cd20](https://paste[.]nrecom[.]net/view/raw/93a7cd20)

[https://paste\[.\]nrecom\[.\]net/view/raw/d8aedaf6](https://paste[.]nrecom[.]net/view/raw/d8aedaf6)

[https://paste\[.\]nrecom\[.\]net/view/raw/91aec4e7](https://paste[.]nrecom[.]net/view/raw/91aec4e7)

[https://paste\[.\]nrecom\[.\]net/view/raw/4736837b](https://paste[.]nrecom[.]net/view/raw/4736837b)

[https://paste\[.\]nrecom\[.\]net/view/raw/aec14685](https://paste[.]nrecom[.]net/view/raw/aec14685)

[https://paste\[.\]nrecom\[.\]net/view/raw/c7dfc858](https://paste[.]nrecom[.]net/view/raw/c7dfc858)

[https://paste\[.\]nrecom\[.\]net/view/raw/bebcab0a](https://paste[.]nrecom[.]net/view/raw/bebcab0a)

[https://paste\[.\]nrecom\[.\]net/view/raw/bfbb1544](https://paste[.]nrecom[.]net/view/raw/bfbb1544)

[https://paste\[.\]nrecom\[.\]net/view/raw/7f41da66](https://paste[.]nrecom[.]net/view/raw/7f41da66)

[https://paste\[.\]nrecom\[.\]net/view/raw/0d9233c8](https://paste[.]nrecom[.]net/view/raw/0d9233c8)

[https://paste\[.\]nrecom\[.\]net/view/raw/4f789f73](https://paste[.]nrecom[.]net/view/raw/4f789f73)

[https://paste\[.\]nrecom\[.\]net/view/raw/6550c073](https://paste[.]nrecom[.]net/view/raw/6550c073)

[https://paste\[.\]nrecom\[.\]net/view/raw/3066146f](https://paste[.]nrecom[.]net/view/raw/3066146f)

[https://paste\[.\]nrecom\[.\]net/view/raw/019f27dd](https://paste[.]nrecom[.]net/view/raw/019f27dd)

[https://paste\[.\]nrecom\[.\]net/view/raw/04fba6cb](https://paste[.]nrecom[.]net/view/raw/04fba6cb)

Sha256

9c38ab9d806417e89e3c035740421977f92a15c12f9fa776ac9665a1879e5f67
Ede98ae4e8afea093eae316388825527658807489e5559bff6dbf5bc5b554a2c
cb1da05bac46d1aeb0eeec67b2249aa8f539784c4a9ff9245b4ed4a8937ccd0f
337f28a9250592d0ebc58f5a913114df82e69ef4c44243191204adfa61f9819b
8d804533708c03ed4236be70e113a419ce1c8d8a5c36baa755cb7b787f29f54f
20ad344d20337f8a782135e59bc1f6e1a7999bcddc50fc1dc3b8b6645abcb91e
bc2e03ca292da305602c8755453fa87073810a6359f2ec9a0935fe3bb51ef886
4f31265917db7d9abbdf4b6378da0822158cc9b4bff1904adad63a87cfa82f2e
3d3ab28f09d5736fcd2215fb6395e7b15e6e9f1f86931b1d3d956c70879e9d33
13b630c5c157585f6abcb2fc8e3388c23a09f881c20cdeaffda291fb36a37539
a78cce9dc644987d3404335cefeca9833ea5f69a36b2da05e5a86505c862d867
29f7eb242d7ddcaacfaac36f036081abc28ba48faaaf9fca601725a6ed160637
62fa4dea77f33cfe294110457af90d2ccd0fc32f3d37c9ddf7a0457ed8f315ee
9c0b50ba7ea383bf16b25ea12a830d5c63c5c995ab2f494dc270137ecfd31701
3c940fdf850d0e6211b340564357094fa8ddb81351789bfd43465efa2e52acfd
59bf368c532ca20de17fdaee2160451ae8c8f7cafd8d3c7adb263dd0978e918
b9e094892d6ed3b3eba5b56416d31b5ea635cf666ddf67ff4eb62475db7371ca
9b876e4ddeaf0d950860db4942d9be1507453ba1065a03672de41dfb287b2511
f8ef2da125ebd0f972969d12f28964a00954bad6e4f804bd1db8c0507e751bc9

f679912dbe6576989cd541b866f5f3a7a2423b1a6f92cc189a12fbffc42b926d
1e4b7d7868d25071db67da87392fd5dafab344a9fa6dc040f7afb0699152fc13
1a8573f9acba3f7d8863043223fb1d6ef4b52ad5bb4cdbc5e178e935b25b40e3
94b9c9154a23db8df436f4cdda225d9bd28dfae325dfe68e034462d70245fb0e
a7f337587cdd0e9a1fb013da274293d207815843f778c714e75693cd2c8e5f11
afb7a097cebd29157285861e7bac37648c92243143b560772e652fa87b8aed6b
e3065a6f8e49ccda273bf283c18b9344cc9ad802c1065b0fdf45cdafe92d1029
d38feef0723f730c8bb5704b4b45c8c0c324b1718b42e80b98244a7e49844331
99121c7c11bb444912d0200ce2e8a39b3e885d66889547ec8fb0c88906c22f4
6194207c32a23bac956afb47f857ebcdcb3aa37e818907e98b27acaf4b83d60f
435f9c7e3e74fa789f423e1a3c794fc8347414495a46de36e82de0e10cc0cf38
41502bc411135eb896c8a8aa7aa337ae437977473bd329ac1d0ccfa639ec4e2c
5d4b172afd897db7ddd983697c620cb1dde6341380b849f81f7606ae2073093
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