2017-05-16 - MORE EXAMPLES OF MALSPAM PUSHING JAFF RANSOMWARE

malware-traffic-analysis.net/2017/05/16/index.html

ASSOCIATED FILES:

Zip archive of the pcap: 2017-05-16-Jaff-ransomware-malspam-traffic.pcap.zip 92.3 kB (92,253 bytes)

> 2017-05-16-Jaff-ransomware-malspam-traffic.pcap (97,799 bytes)

Zip archive of the spreadsheet tracker: 2017-05-16-Jaff-ransomware-tracker.csv.zip 1.1 kB (1090 bytes)

> 2017-05-16-Jaff-ransomware-tracker.csv (3,024 bytes)

Zip archive of an email example, several malware samples, and some artifacts: 2017-05-16-Jaff-ransomware-emails-and-artifacts.zip 1.2 MB (1,195,959 bytes)

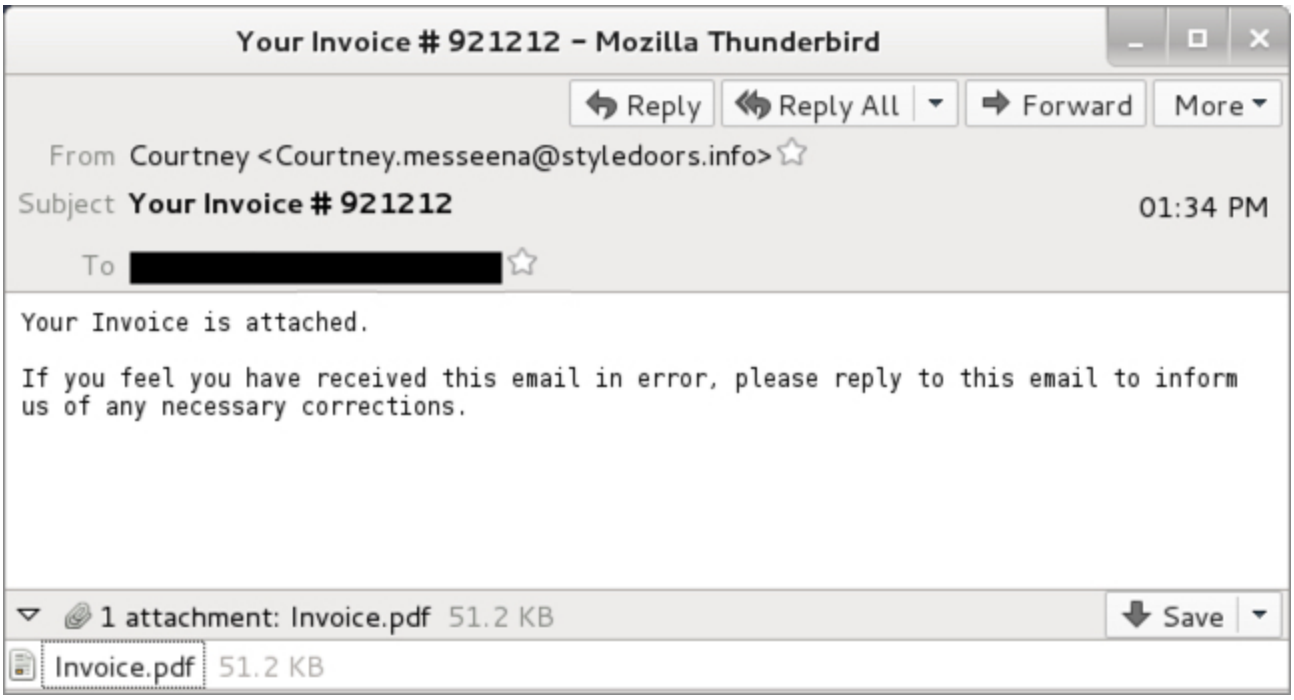
- 2017-05-16-133459-UTC-Invoice.pdf (52,399 bytes)
- 2017-05-16-141909-UTC-Invoice.pdf (52,239 bytes)
- 2017-05-16-142344-UTC-Invoice.pdf (52,322 bytes)
- 2017-05-16-142529-UTC-Invoice.pdf (52,322 bytes)
- 2017-05-16-142819-UTC-Invoice.pdf (52,322 bytes)
- 2017-05-16-143514-UTC-Invoice.pdf (52,322 bytes)
- 2017-05-16-144044-UTC-Invoice.pdf (52,322 bytes)
- 2017-05-16-145739-UTC-Invoice.pdf (52,464 bytes)
- 2017-05-16-150804-UTC-Invoice.pdf (52,439 bytes)
- 2017-05-16-155014-UTC-Invoice.pdf (52,214 bytes)
- 2017-05-16-173344-UTC-Invoice.pdf (52,185 bytes)
- 2017-05-16-182134-UTC-Invoice.pdf (51,875 bytes)
- 2017-05-16-Jaff-Decryptor-index.css (2,661 bytes)
- 2017-05-16-Jaff-Decryptor.html (5,090 bytes)
- 2017-05-16-Jaff-ransomware-ReadMe.bmp (3,145,782 bytes)
- 2017-05-16-Jaff-ransomware-ReadMe.html (1,431 bytes)
- 2017-05-16-Jaff-ransomware-ReadMe.txt (482 bytes)
- 2017-05-16-Jaff-ransomware-galaperidol8.exe (147456 bytes)
- 2017-05-16-jaff-malspam-133459-UTC.eml (71,787 bytes)
- GUMHSZUM.docm (55,176 bytes)
- HBTEJ.docm (55,154 bytes)
- HSOTN2JI.docm (55,170 bytes)
- LNJ9DNIJ.docm (55,187 bytes)
- U4HKZVPRL.docm (55,175 bytes)
- UCER2Q.docm (55,134 bytes)
- UTTNNVW6V.docm (55,166 bytes)
- VEZLGKVC.docm (55,155 bytes)

NOTES:

- More malspam pushing Jaff ransomware today...
- It's the same type of malspam we've seen before with PDF attachments --> embedded Word documents (with malicious macros) --> follow-up malware.
- Below are the blogs I've personally posted about it here at malware-traffic-analysis.net:

- 2017-04-19 - Dridex malspam with PDF attachments containing embedded Word docs
- 2017-04-21 - Dridex-style malspam pushes Locky ransomware instead
- 2017-05-11 - Jumping on the Jaff bandwagon
- 2017-05-15 - The Jaff ransomware train keeps on rollin'
- 2017-05-16 - More examples of malspam pushing Jaff ransomware (this blog post)

EMAIL



Shown above: An example of the emails.

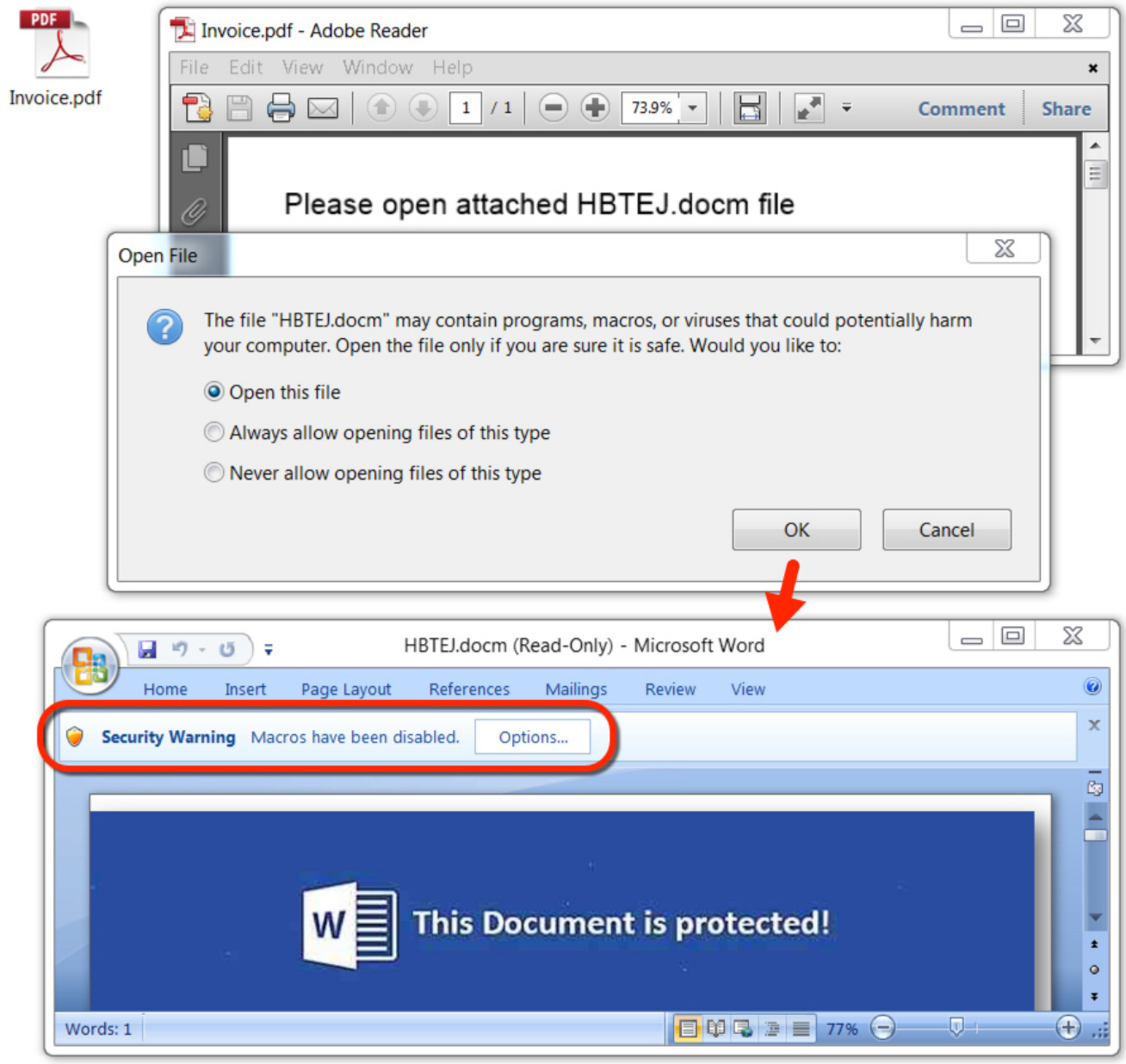
12 EMAIL EXAMPLES:

READ: DATE/TIME -- SUBJECT -- ATTACHMENT NAME -- SENDING ADDRESS (SPOOFED)

- 2017-05-16 13:34:59 UTC -- Your Invoice # 921212 -- Invoice.pdf -- "Courtney" <Courtney.messeena@styledoors.info>
- 2017-05-16 14:19:09 UTC -- Your Invoice # 878923 -- Invoice.pdf -- "Jeremiah" <Jeremiah.cogguns@ledomassage.nl>
- 2017-05-16 14:23:44 UTC -- Your Invoice # 654270 -- Invoice.pdf -- "Shelly" <Shelly.hullson@ariakarasanat.com>
- 2017-05-16 14:25:29 UTC -- Your Invoice # 87871 -- Invoice.pdf -- "Jodie" <Jodie.work@pisoria.com>
- 2017-05-16 14:28:19 UTC -- Your Invoice # 850914 -- Invoice.pdf -- "Blake" <Blake.sykes@vivacerveja.com.br>
- 2017-05-16 14:35:14 UTC -- Your Invoice # 62287 -- Invoice.pdf -- "Adrienne" <Adrienne.haddock@k2news.net>
- 2017-05-16 14:40:44 UTC -- Your Invoice # 24559 -- Invoice.pdf -- "Virgie" <Virgie.burke@spi.com.ar>
- 2017-05-16 14:57:39 UTC -- Your Invoice # 852594 -- Invoice.pdf -- "Krystal" <Krystal.doole@papa-ganda.net>
- 2017-05-16 15:08:04 UTC -- Your Invoice # 99499 -- Invoice.pdf -- "Laurie" <Laurie.devell@coveredwagon.ca>

- 2017-05-16 15:50:14 UTC -- Your Invoice # 08175 -- Invoice.pdf -- "Kristy" <Kristy.oglethorp@maloufimo.com>
- 2017-05-16 17:33:44 UTC -- Your Invoice # 927414 -- Invoice.pdf -- "Marlene" <Marlene.balmer@seniorsmarketplacenews.com>
- 2017-05-16 18:21:34 UTC -- Your Invoice # 376427 -- Invoice.pdf -- "Earlene" <Earlene.wyatville@gradinitamagica.ro>

MALWARE



Shown above: As usual, the PDF attachment contains an embedded Word document with malicious macros.

SHA256 HASHES FOR THE ATTACHMENTS:

- 279bd153041b64966147eb7d036f570199e2d068c92746eb3e571d49fd7e3805 - Invoice.pdf
- 5b10d2ae464ec1b3c5d62d70d452d205419c0892fa2d21892767f8f30a6b8e98 - Invoice.pdf
- 5da7c8bf86dc71531b2cd34e565385dae7b080cde104e5abe29577ed03787a71 - Invoice.pdf
- 66c406bbe06a7804508e39eb3822b0a4f27b14a9d4c5dff970d559bcd88d6abc - Invoice.pdf
- 728174eddaf20492bfc3d85df3148aad3ff2677c88c901d727272c0f1aa4a0dd - Invoice.pdf
- 85640107aec9c21f6fdcf62ef79046aa57c18da35d29795febb7ac634165f93c - Invoice.pdf
- bd5cc7c63481cb6f54b8ddd3b459976021839119f2f57a2f60e52159ac0c184d - Invoice.pdf
- ebcdc058e4d7d7e2d9bcf59042c50814c335e3aa18b59f76a9eccc9918c78bb7 - Invoice.pdf

SHA256 HASHES FOR THE EMBEDDED WORD DOCUMENTS:

- 1bc1196f611d2c6e5bd904160354fe1374c39b907411a5a15592bbc80bd4c4c4 - VEZLGKVC.docm
- 349365e97bba0377c960894ddcdb9939e386b55e764b7d3f8257aa538866167d - LNJ9DNIJ.docm
- 4da60d4278f4996163f5ffa28196919369d4ca365245ce8c60dc46bd9d816667 - HSOTN2JI.docm
- 4ff07b88668dfc828f18859b84805aae9c06b485594d029e42c1b0c9255988e6 - U4HKZVPRL.docm
- 9c9e0e6900b82b14816ccd7dd3f3269c44bb752a63c63afe652feaf090c551c2 - UCER2Q.docm
- a7810d1b9d50e78157ee43d2c6f34dddd70f11bc0c76311a0e223fbd9ee20165 - HBTEJ.docm
- b8ddb998befb348bbc242ed66757b8024f4fceec1f5b5b145f8aac5874d9e81f - GUMHSZUM.docm
- d30b4f0c787794a838b3cf34bdaee77bc95f42fe84bef67c5283033ee4265111 - UTTNNVW6V.docm

JAFF RANSOMWARE SAMPLE:

SHA256 hash: 387812ee2820cbf49812b1b229b7d8721ee37296f7b6018332a56e30a99e1092
File size: 147,456 bytes
File location: C:\Users\[username]\AppData\Local\Temp\galaperidol8.exe

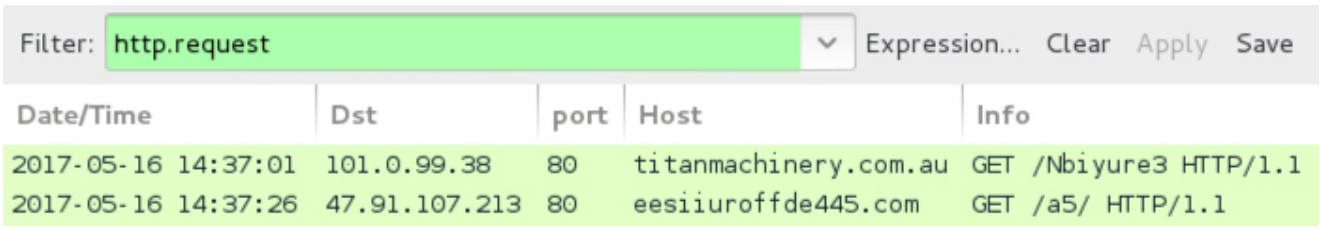
TRAFFIC

URLS FROM THE WORD MACROS TO DOWNLOAD JAFF RANSOMWARE:

- 34.209.214.237 port 80 - **herrossoidffr6644qa.top** - GET /af/Nbiyure3
- 194.58.119.16 port 80 - **jsplast.ru** - GET /Nbiyure3
- 80.150.6.143 port 80 - **juvadent.de** - GET /Nbiyure3
- 120.76.230.45 port 80 - **opearl.net** - GET /Nbiyure3
- 103.63.135.197 port 80 - **playmindltd.com** - GET /Nbiyure3
- 34.209.214.237 port 80 - **sjffonrvcik45bd.info** - GET /af/Nbiyure3
- 107.180.26.179 port 80 - **tidytrend.com** - GET /Nbiyure3
- 101.0.99.38 port 80 - **titanmachinery.com.au** - GET /Nbiyure3
- 92.245.188.95 port 80 - **tomcarservice.it** - GET /Nbiyure3
- 176.223.209.5 port 80 - **ventrust.ro** - GET /Nbiyure3
- 188.65.115.35 port 80 - **vipan-photography.com** - GET /Nbiyure3
- 107.180.48.250 port 80 - **wizbam.com** - GET /Nbiyure3

JAFF RANSOMWARE POST-INFECTION TRAFFIC:

- 47.91.107.213 port 80 **eesiiuroffde445.com** - GET /a5/
- **rktazuzi7hbln7sy.onion** - Tor domain for Jaff Decryptor (same as the last few times)



Traffic from the infection filtered in Wireshark.

Date/Time	Dst	port	Host	Info
2017-05-16 14:37:01	101.0.99.38	80	titanmachinery.com.au	GET /Nbiyure3 HTTP/1.1

Follow TCP Stream (tcp.stream eq 0)

Stream Content

```
GET /Nbiyure3 HTTP/1.1
Accept: */*
Accept-Language: en-US
User-Agent: "Mozilla/5.2 (Windows NT 6.2; rv:50.2) Gecko/20200103 Firefox/50.2"
Accept-Encoding: gzip, deflate
Host: titanmachinery.com.au
Connection: Keep-Alive

HTTP/1.1 200 OK
Date: Tue, 16 May 2017 14:37:01 GMT
Server: Apache
Last-Modified: Tue, 16 May 2017 12:49:24 GMT
Accept-Ranges: bytes
Cache-Control: max-age=31536000
Expires: Wed, 16 May 2018 14:37:01 GMT
Vary: Accept-Encoding,User-Agent
Content-Encoding: gzip
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
Transfer-Encoding: chunked
Content-Type: text/plain

1faa
............W\.].6H/
J/..;(!...."..."F...&.NH@...J..*b.i.F ..DE...! .(.D..........7..........w'..u...
{..uN.q...qaD;4....G#mlP8.*<.M.y.B...Q.=..
[.#O..i........w......<.W....4U.348.]........S......5x..ub....,.}
4q>.....}.xW..8..{......;(l\.a...x..r.......G[G..G.....XU.}.'......O.
```

HTTP request for the Jaff ransomware.

Date/Time	Dst	port	Host	Info
2017-05-16 14:37:26	47.91.107.213	80	eesiiuroffde445.com	GET /a5/ HTTP/1.1

Follow TCP Stream (tcp.stream eq 1)

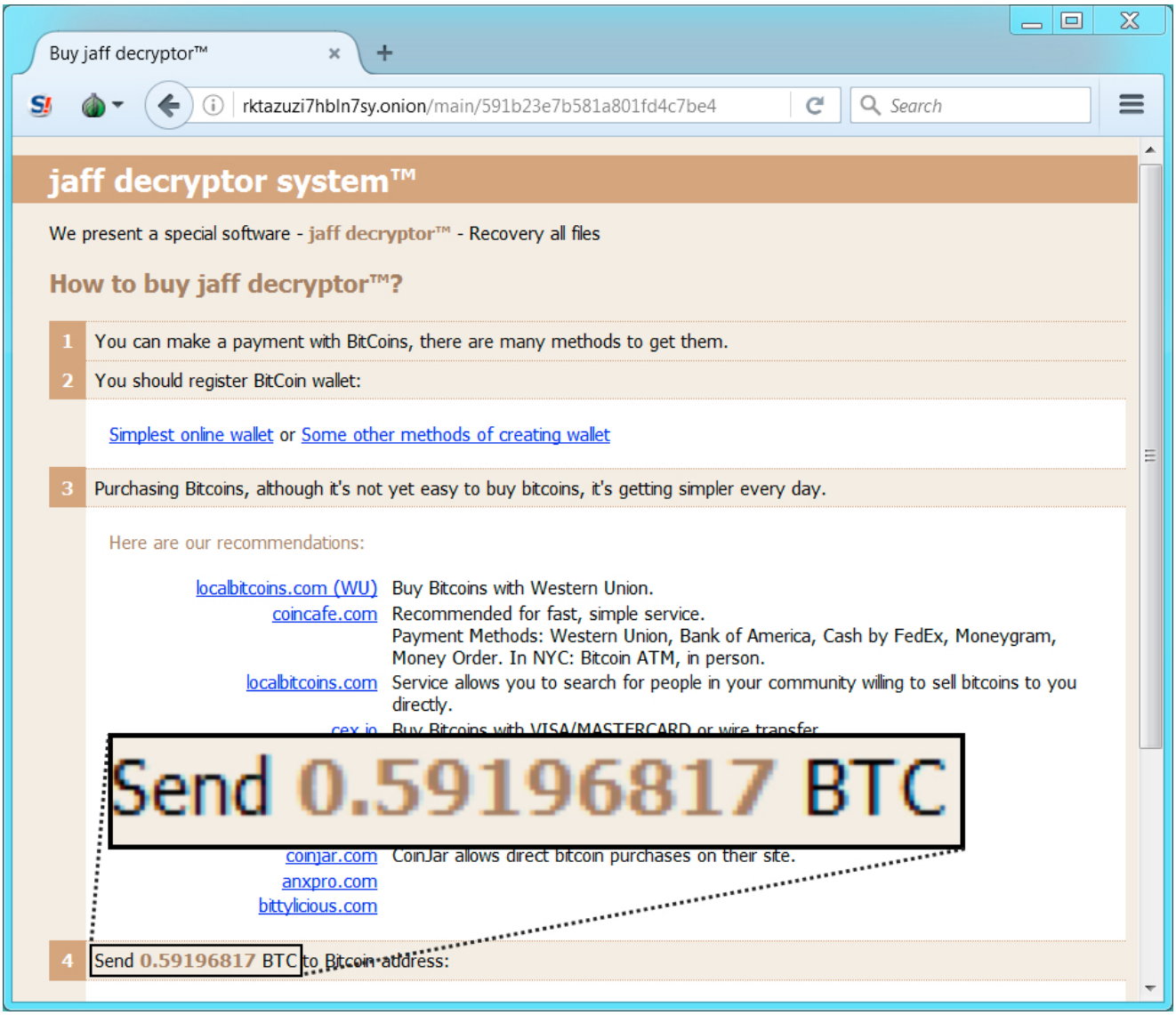
Stream Content

```
GET /a5/ HTTP/1.1
Host: eesiiuroffde445.com

HTTP/1.1 201 Created
Server: nginx
Date: Tue, 16 May 2017 14:37:26 GMT
Content-Type: text/plain; charset=utf-8
Content-Length: 7
Connection: keep-alive
ETag: W/"7-rM9AyJuqT6iOan/xHh+AW+7K/T8"

Created
```

Post-infection traffic from the infected Windows host.

IMAGES

Shown above: Desktop of an infected Windows host.



Shown above: Going to the Jaff Decryptor.

FINAL NOTES

Once again, here are the associated files:

- Zip archive of the pcap: 2017-05-16-Jaff-ransomware-malspam-traffic.pcap.zip 92.3 kB (92,253 bytes)
- Zip archive of the spreadsheet tracker: 2017-05-16-Jaff-ransomware-tracker.csv.zip 1.1 kB (1090 bytes)
- Zip archive of an email example, several malware samples, and some artifacts: 2017-05-16-Jaff-ransomware-emails-and-artifacts.zip 1.2 MB (1,195,959 bytes)

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