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The "Police Trojan"

AN IN-DEPTH ANALYSIS

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INTRODUCTION

A ransomware is a kind of malware that withholds some digital assets from victims and asks for payment for the assets' release. Ransomware attacks were first seen in Russia in 2005-2006 and have since changed tactics and targets.

The most recent wave of ransomware attacks targeted users in a very specific way—tracking their geographic locations and scaring them with their respective countries' police forces while holding their entire systems captive. These attacks have come to be known as the "Police Trojan" attacks.

Trend Micro has been tracking this campaign since the beginning and is now ready to show some of our conclusions after the investigation. A mix of well-tuned social engineering tactics as well as an advanced and very dynamic networking model shows that the Police Trojan's creators are well-organized, apart from being persistent and creative.

TECHNICAL ANALYSIS

Based on purely technical analysis, we found that the Police Trojan is a run-of-the-mill ransomware Trojan. After infecting a user's system, it contacts a command-and-control (C&C) server that detects what country the victim is from. If the victim's country is in the ransomware's list, it downloads a localized graphic with the appropriate language and police force logo then hijacks the victim's screen so he/she cannot do anything until he/she has paid a fine.

On first run—when run with no parameters, the Police Trojan creates a copy of itself in an innocuous-looking folder such as:

```
c:\Documents and Settings\%user%\Application
Data\adobeflash\adobeflash.exe
```

Afterward, it creates a persistency mechanism—a simple registry entry in the *autorun* registry hive. Note how it uses a *-b* parameter to distinguish between the first and subsequent executions:

```
HKCU\Software\Microsoft\Windows\
CurrentVersion\Run\
[ "c:\Documents and
Settings\%user%\Application
Data\adobeflash\adobeflash.exe -b" ]
```

Then it starts itself in a special installation mode. To do this, it runs itself again but this time with an *-i* parameter (we assume *"i"* stands for "install"):

```
c:\Documents and Settings\%user%\Application
Data\adobeflash\adobeflash.exe -i
```

During the installation—when run with an *-i* parameter, the Trojan injects the installation code into *explorer.exe* so that all HTTP connections that will be described next happen from that process. The first thing it does is to connect to the first of a set of four hardcoded C&C servers and a specific HTTP server path from a set of 15.

In the samples we have seen, the C&C servers always pointed to the same IP address. The attackers do not use four different C&C servers, as the four spots always point to the same IP address.

After the first contact, the server must reply with one of two possible strings—"ok" or "del." The "ok" string allows the sequence to proceed. The "del" string, on the other hand, makes the Trojan delete itself from the system, along with the registry key it created.

Based on our observation, the C&C servers reply with "ok" when a client comes from a country that the attackers' localization efforts support. The following are the "target countries" we have seen:

- Germany
- Spain
- France
- Italy
- Belgium
- Great Britain
- Austria

Requests coming from any other country return a "del" command, which helps avoid infecting systems from places other than those specifically targeted.

Once the client receives an "ok" command to the first request, it continues the sequence described below. It sends a request to find what geographical area it is connecting from. The server provides a link to download the bitmap image representing the logo of the police force of the appropriate location.

- `> /loc/gate.php?getip=getip`
- `< 1.2.3.4` (your IP address)
- `> /loc/gate.php?getpic=getpic`
- `< http://<C&C ip address>/pic/ES.bmp`

The Trojan then downloads the bitmap image and stores it as:

```
c:\Documents and Settings\%user%\Application  
Data\adobe\flash\pic.BMP
```

The image is displayed when in ransomware mode—when run with the `-b` parameter.

The following list the URL paths though we have only seen servers and clients use `/loc/gate.php`:

- `cow/gate.php`
- `like/gate.php`
- `mozy/gate.php`
- `leex/gate.php`
- `zuum/gate.php`
- `plea/gate.php`
- `code/gate.php`
- `zerro/gate.php`
- `milk/gate.php`
- `tron/gate.php`
- `prog/gate.php`
- `in/gate.php`
- `pic8/gate.php`
- `zip/gate.php`
- `loc/gate.php`

At some point, the Trojan also tries to update itself by accessing the following URL:

```
/loc/gate.php?user=lesnik1&upg=upg
```

In ransomware mode—when run with the `-b` parameter, the Trojan creates two threads:

- *Thread 1:* A never-ending loop that displays `pic.BMP` and waits for the user to enter his/her *Ukash* or *Paysafe* personal identification number (PIN), which means the victim has paid the ransom.
- *Thread 2:* Another loop that constantly checks the process list to look for processes named:
 - `regedit.exe`
 - `msconfig.exe`
 - `seth.exe`
 - `utilman.exe`
 - `narrator.exe`

Once the Trojan finds one of these, it kills the process. This is, in effect, a black list of processes that the ransomware's author absolutely does not want to run on the system.

Regedit.exe and *msconfig.exe* are familiar to any system administrator or power user. These are the *Registry Editor* and the *System Configuration* tools, respectively. The other binaries are special programs that the *Windows OS* calls by means of specific key combinations. They are legitimately used to enable accessibility. It is possible to rename the *Command Prompt* program—*cmd.exe*, to one of the names above and therefore gain access to the hijacked computer by pressing the right key sequence. The ransomware's author denies the use of this trick on the part of the administrator of the victim's computer by killing the programs as soon as these are opened. These are the sequences for documentation purposes:

- *Seth.exe*: Press the *Shift* key five times.
- *Utilman.exe*: Press the *Windows* and *U* keys at the same time.
- *Narrator.exe*: In the login screen, click *Ease of Access* then *Narrator*. This is also accessible from the real *utilman.exe* tool.

The Police Trojan also has a few other small capabilities. One of these is that before calling home to download the appropriate image, it checks if *pinok.txt* file exists in the installation folder. If it does, the Trojan looks inside it for specific content. This file is created once the ransomware determines that the user has entered his/her *Ukash* or *Paysafe* PIN and that the PIN has been verified.

The Police Trojan employs two checks for *pinok.txt*—one for *Ukash* and another for *Paysafe*. The following shows how it checks for *Ukash*:

- The PIN must be exactly 19 bytes long.
- It must contain the string, "633718XXX," where *XXX* is a short list of three-digit combinations.

- It must not contain any string found in the following hardcoded list:
 - "000000000000000001"
 - "00000000000000011"
 - "1111111111111111"
 - "2222222222222222"
 - "3333333333333333"
 - "4444444444444444"
 - "5555555555555555"
 - "6666666666666666"
 - "7777777777777777"
 - "8888888888888888"
 - "9999999999999999"
 - "12345"
 - "6789"
 - "9876"
 - "54321"
 - "1111"
 - "2222"
 - "3333"
 - "4444"
 - "5555"
 - "6666"
 - "7777"
 - "8888"
 - "9999"
 - "0000"

Some of the rules contradict others, which reinforces our theory that the code is dirty. Moreover, in our sample, when we create a valid *pinok.txt* file, the program fails.

If the victim ends up paying and entering a valid PIN, it is submitted to the C&C server, along with other system-related information:

```
/loc/gate.php?user=[affiliate_id]&uid=[unique_id]&os=[OS_number]&pin=[Ukash_PaysafePIN]
```

The Police Trojan also supports a *-u* parameter that does not do anything much. It just exits.

The name of the mutex that the Trojan uses to check if it is already running is *jwergwekrkwerlw*. This is hardcoded in the code but since it looks random, it does not provide any clue to aid in our analysis.

The Police Trojan contains a debugging code that displays errors in Russian. Warnings such as "Error copying file" or "Mutex found, stop not passed, we delete ourselves" look like remnants from the development process that the author did not bother to remove from the final version but definitely pointed us to its origin.

Technical Findings

It is interesting to note that we saw different C&C login requests of the same kind but with different user names. Since the user name appears to be hardcoded into the binary, along with the C&C server to connect to, this could mean that the cybercriminals recompiled the binary on a per-user basis. We also saw user names such as *affiliate_18*, which suggests that the cybercriminals' infection model was by means of an affiliate network that relies on partners for distribution, most likely by means of porn pages. This theory matches our expectation that there must be an affiliate download site where partners can download a ready-made Trojan using their own user names and the C&C server of the day already embedded. This also explains the very low detection rates across the board. Each Trojan is custom compiled with different configurations and applies two layers of packing and obfuscation on top. Given the rate at which the attackers are changing C&C servers, this recompilation must be happening very often that is why security companies are having a difficult time obtaining good detections.

Figures 1-7 show the images downloaded to infected systems, depending on what regions these are in. Note how the police forces' logos perfectly match the victims' respective geographical areas even though the languages used are not native in all cases.



Figure 1: Image users from Austria see



Figure 2: Image users from Belgium see



Figure 3: Image users from Germany see



Figure 4: Image users from Spain see

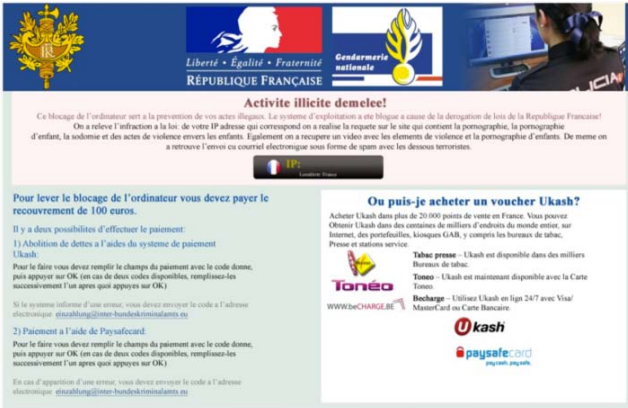


Figure 5: Image users from France see



Figure 7: Image users from Italy see



Figure 6: Image users from Great Britain see

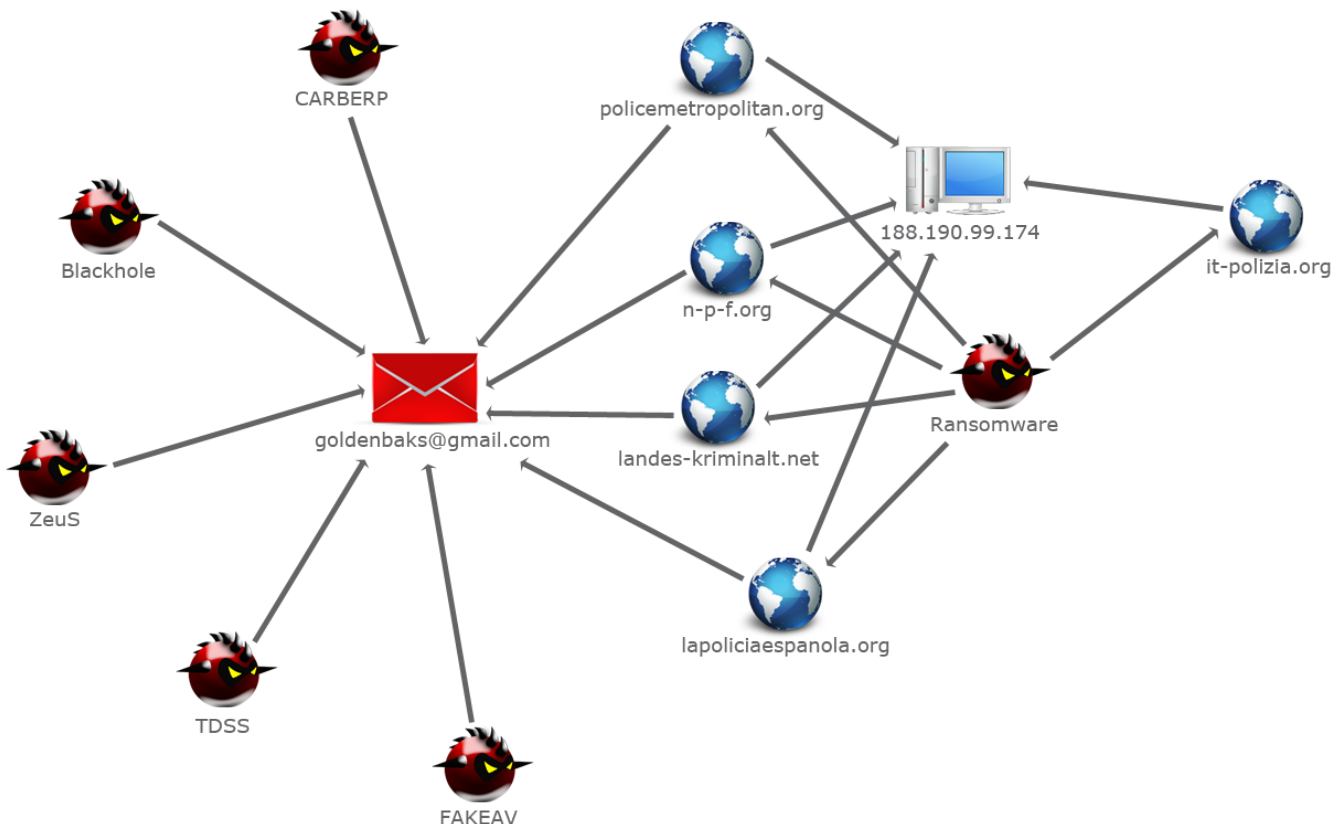
NETWORK ANALYSIS

The starting point of our network analysis was the IP address, *188.190.99.174*, which is located in the Ukraine. The address hosted a Police Trojan C&C server in February 2012 (see a sample analysis at <http://www.abuse.ch/?p=3610>).

A few domains were involved in the attack as well. These domains were also hosted on *188.190.99.174* and related to the European police force the Trojan impersonates. Looking at the email addresses of the registrants in *whois* revealed the following:

- *landes-kriminalt.net* (*goldenbaks@gmail.com*)
- *policemetropolitan.org* (*goldenbaks@gmail.com*)
- *n-p-f.org* (*goldenbaks@gmail.com*)
- *it-polizia.org* (*privacy protected registration*)
- *lapoliciaespanola.org* (*goldenbaks@gmail.com*)

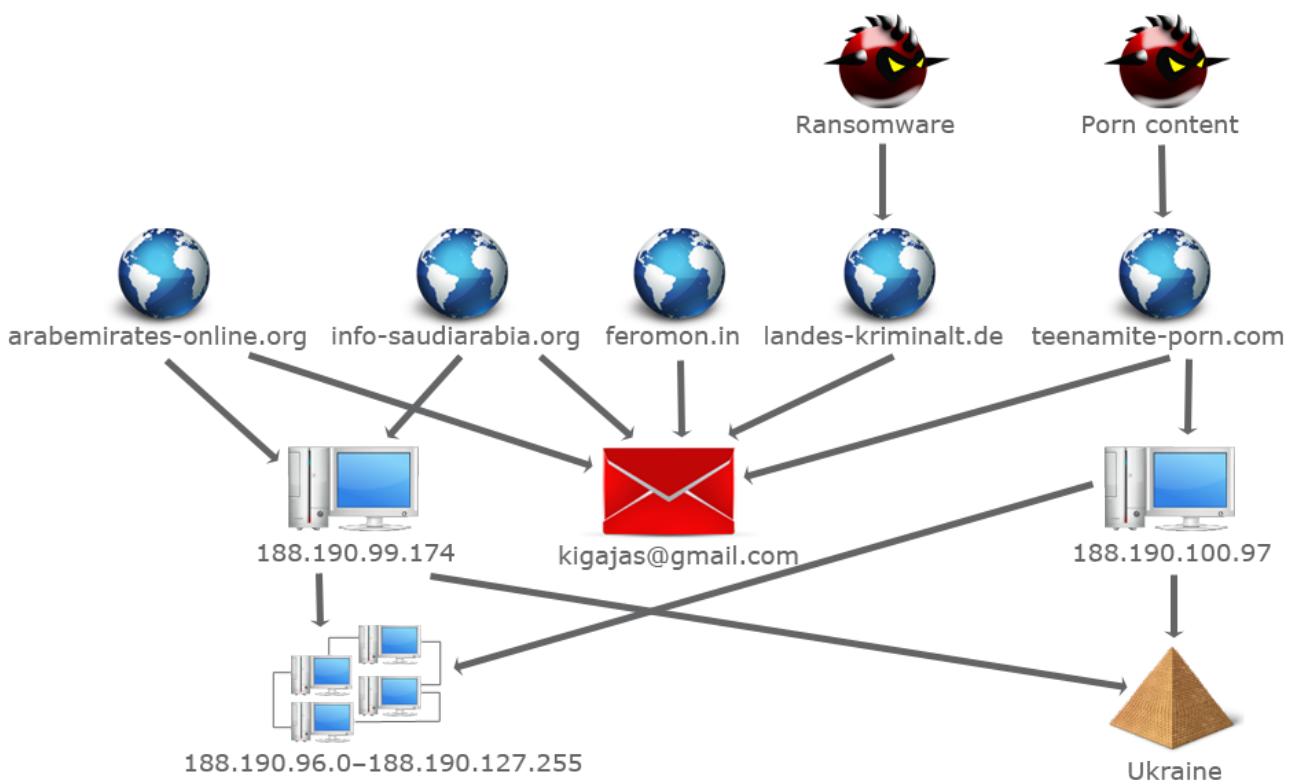
The registrant's email address—*goldenbaks@gmail.com*—has been in use for a couple of years now. It has been used to register several porn sites, among others. We were also able to connect the registrant's email address to domains that have been used in ZeuS, CARBERP, TDSS, and FAKEAV malware campaigns in 2010 and 2011. (A more detailed list of associated domain names is found in the *Appendix*.)



As of March this year, the ransomware C&C server hosted on IP address, *188.190.99.174*, is no longer active. It, however, appears that the IP address, *188.190.100.97*, hosted the same Police Trojan C&C server on March 6 of this year. Both servers—*188.190.99.174* and *188.190.100.97*, looked identical. As such, we suspect that both IP addresses belong to virtual servers hosted on the same physical server. Later on, a porn site—*teenamite-porn.com* (registered by *kigajas@gmail.com*), was temporarily hosted on the IP addresses. The email address, *kigajas@gmail.com*, was also used to register other domain names such as:

- *arabemirates-online.org* (*kigajas@gmail.com*)
- *info-saudiarabia.org* (*kigajas@gmail.com*)
- *teenamite-porn.com* (*kigajas@gmail.com*)
- *landes-kriminalt.de* (*kigajas@gmail.com*)
- *feromon.in* (*kigajas@gmail.com*)

Landes-kriminalt.de was used by a Police Trojan to impersonate the German National Police. We found that *arabemirates-online.org* and *info-saudiarabia.org* resolved to the same IP address—*188.190.99.174*. We began to see a relationship between the two sets of domains. Both sets shared IP addresses and hosted Police Trojan and porn domains.



In the latter part of March this year, new Police Trojans began pointing to two domains—*lertionk03.be* and *lertionk07.be*. These domains were registered by *thefirstweek@yandex.ru*. It appears that the domains *lertionk[1-20].be* all exist as well. These all have authoritative name servers, *ns1.nssserver.be* and *ns2.nssserver.be*. Looking deeper, we noticed that the name servers also had authority over the following domains:

- *lockcattrade.biz* (*zemcovolejjammdf@gmail.com*)
- *lertionk[01-020].be* (*thefirstweek@yandex.ru*)
- *zaletelly[01-020].be* (*thefirstweek@yandex.ru*)
- *robot[01-010].be* (*thefirstweek@yandex.ru*)
- *pornolabs.be* (*thefirstweek@yandex.ru*)
- *mekrosoft.in* (*alexudakovnah@gmx.de*)
- *mifkrosoft.in* (*alexudakovnah@gmx.de*)

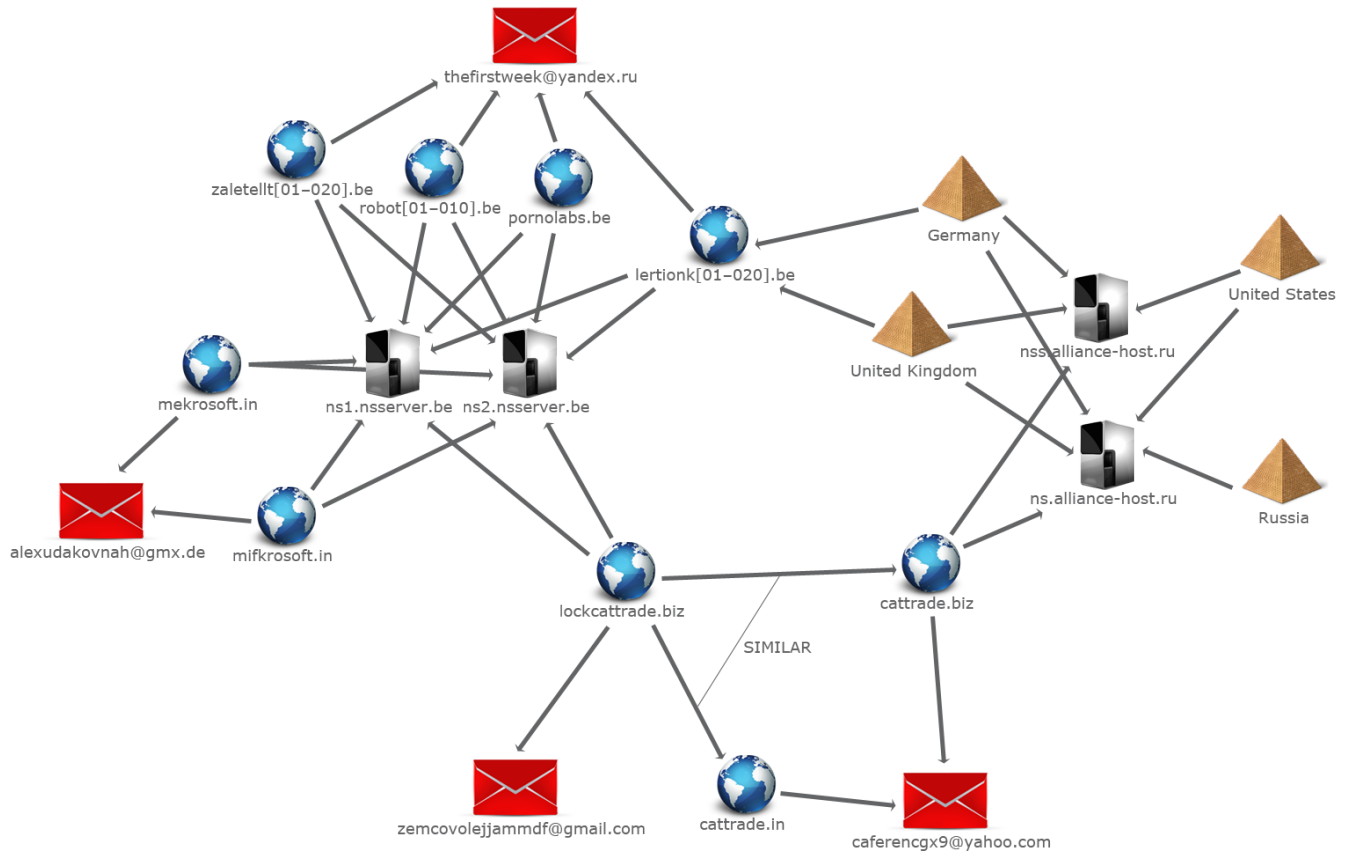
We also found that the *.be* C&C domain names moved from one IP address to another in Germany and the United Kingdom.

The domain name, *lockcattrade.biz*, can be a C&C or an affiliate domain. A similar domain—*cattrade.biz*, held the affiliate program of a ransomware Trojan just a month before.¹ This made us think that the Trojan we recently found and the one we were analyzing were related even though the affiliate program hosted on *cattrade.biz* was no longer there. After taking a look at the registration details of *cattrade.biz*, we discovered one more domain registered by the same email address— *cattrade.in* (*caferencgx9@yahoo.com*).

Cattrade.biz had authoritative name servers—*nss.alliance-host.ru* and *ns.alliance-host.ru*. *Lockcattrade.biz* can be an administrative or an affiliate program domain but this is only a wild guess based on its name. It is related to the other domains in *name server ns{1, 2}.nssserver.be*.

Alliance-host.ru turned out to be a shady bulletproof web-hosting reseller in Russia. According to its website, it is “a guaranteed bulletproof hosting provider.” Alliance Bulletproof Hosting claims that it has servers in the United States, the United Kingdom, Germany, and the Ukraine. It just so happened that the C&C servers we looked at sat in Germany, the United Kingdom, the Ukraine, and the United States. Was it a coincidence? We do not think so. The company does not have an address, a phone number, or any regular kind of business data as well. All it had was an *ICQ* or *Jabber* address for contact details. It was very likely the provider in charge of the Police Trojan’s network infrastructure and moving the C&C servers around.

¹ <http://xylibox.blogspot.com/2012/02/cattrade-ransomware-affiliate.html>



CONNECTIONS TO OTHER MALWARE CAMPAIGNS

The gang spreading the ransomware discussed in this research paper does not seem to be a novice in committing cybercrime. In fact, we can relate the ransomware Trojan to several data-stealing campaigns involving ZeuS and CARBERP Trojans, TDSS rootkits, and FAKEAV malware dating back to 2010 and 2011. We can also relate the Police Trojan gang to a ZeuS Trojan campaign launched in mid-March of this year and a Gamarue worm.

Earlier, we showed the registrant, *goldenbaks@gmail.com*, register several Police Trojan domain names. This registrant has been active since 2010 and owns domain names that have been used for ZeuS, CARBERP, TDSS, and FAKEAV campaigns.

Domain	Campaign
<i>fastsearchportal.org</i>	CARBERP
<i>traffogon.net</i>	CARBERP
<i>kukushata.com</i>	ZeuS
<i>fastprosearch.com</i>	FAKEAV
<i>kigatropol.com</i>	Blackhole Exploit
<i>dscodec.com</i>	TDSS

Table 1. Domains used in various malware campaigns in 2010 and 2011

MD5 Hash	Campaign
<i>e7cf4d8e210cafcb5b45c92f9e0a547f</i>	CARBERP
<i>35b622c56a6958ec552f78f1e1e1aa9</i>	CARBERP
<i>3dd1b084a3994a6269a99427d1bca796</i>	ZeuS
<i>ce4fddb8d2cabd90e8f6871d392b7aae</i>	FAKEAV
<i>4bcb8136ba416358ff3e01d607594de7</i>	FAKEAV
<i>3ec7361806c77126e432f35459a11e6f</i>	TDSS
<i>6dd5fcdcfed4af796e07e18bef163c7e2</i>	TDSS
<i>b0d5ef00e7aebdb67b22718b2ce418a3</i>	TDSS
<i>cad50f33fc6e375e003cf7ba50d0b3b9</i>	TDSS
<i>dae428ab8b10da86cfb231d2cc4de76c</i>	TDSS
<i>ce4fddb8d2cabd90e8f6871d392b7aae</i>	FAKEAV
<i>be07e8f685e6303837d48c54c16ed760</i>	Chyup
<i>f41dff5982f29a44c3ad234c7a483b4d</i>	TDSS

Table 2: MD5 hashes of some malware samples that had ties to the Police Trojan gang

Closer analysis of the TDSS samples showed that these were the same samples from Estonian cybercrime gang—Rove Digital's Nelicash affiliate program. Rove Digital was taken down on November 8, 2011 by the Federal Bureau of Investigation (FBI), the National Aeronautics and Space Administration (NASA)'s Office of the Inspector General, and the Estonian Police Force in collaboration with Trend Micro and other security industry partners.² Rove Digital was responsible for spreading Domain Name System (DNS) changer Trojans on a large scale.

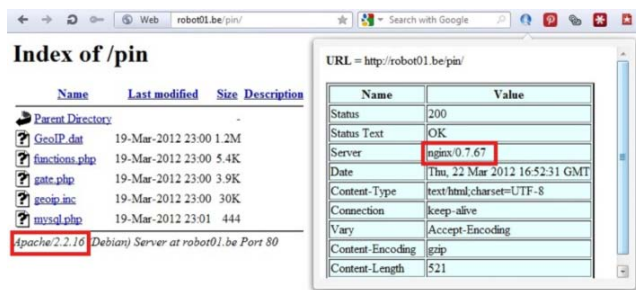
The TDSS samples we have seen in Police Trojan attacks were also the DNS changers Rove Digital's affiliate program used. As such, we believe that one or some of the gang members spreading the Police Trojans may also have been members of Rove Digital's affiliate program in the past. This shows that the gang is certainly not new to cybercrime.

At present, the gang also actively spreads variants of the Gamarue worm, some of which drop Police Trojans. Also, just this March, we saw a ZeuS Trojan connect to a Police Trojan C&C server, *blackblueroose.com*, which has ties to authoritative name servers, *ns{3,4}.nsserver.be*. *Nsserver.be* was also registered by *thefirstweek@yandex.ru*, the same registrant of several *.be* Police Trojan and Gamarue worm C&C domains.

² <http://blog.trendmicro.com/esthost-taken-down-biggest-cybercriminal-takedown-in-history/>

POSSIBLE INFECTION STARTING POINT

Looking at one of the Police Trojan C&C servers, we noticed that the attackers always used the *nginx* HTTP server. When we probed a little deeper though, we saw that the content server that actually serves the files was not the *nginx* but an *Apache* server. Actually, the C&C boxes have *nginx* listening on port 80 and the *Apache* server on port 81. Redirection seems to be taking place from one port to the other for an unknown purpose though a valid theory is that the front-end *nginx* server may be proxying the incoming client requests to the real back-end server located somewhere else.



We have not found a definite infection chain for the Police Trojan yet. One remarkable link to a proxy network of Blackhole exploits—domain name, *kigatropol.com*, however, has the same registrant email address, *lapoliciaespanola.org* (*goldenbaks@gmail.com*). This was hosted on *199.15.236.24* (now clean) at the end of January. At that time, *199.15.236.24* was part of a proxy network that hosted a *Blackhole Exploit* pack. This network had IP addresses that looked nearly identical. These may all be related to the same backend server or were spawned by the same base virtual image.

We suspect that this is one of the affiliate networks the ransomware Trojan directed potential victims to.

CONCLUSION

We suspect that we are facing a Russian-speaking gang (possibly from Russia or the Ukraine) that operates the whole ransomware campaign. They seem to be using Alliance Bulletproof Hosting via a network of separate C&C servers in the United States, the United Kingdom, Germany, and the Ukraine. These could alternatively be C&C nodes that proxy requests to a central C&C server.

The Russian-speaking cybercriminals responsible for the ransomware Trojan seem to have been involved in several malware campaigns in the past. They used CARBERP, Zeus, and FAKEAV Trojans as well as dangerous TDSS rootkits so they are not new to the malware scene. The TDSS Trojans appeared to be part of Rove Digital's affiliate program, Nelicash. As such, we suspect that the bad actors were previous Rove Digital affiliates.

The bad actors also owned numerous porn domains that may have been used to infect victims' systems. They used to run an affiliate *partnërka* site—*cattrade.biz*, that, at some point, made the jump to distributing ransomware. The affiliates that spread this ransomware seem to be primarily in the porn business.

Users' systems were infected after visiting an affiliate's porn page. The Trojan suggests that they have been watching objectionable content (which was probably true) and so are being required by the police to pay a fine. The porn site's webmaster gets a cut from the amount the victim pays. Based on this, porn sites are the most likely candidates as affiliates.

Even though porn seems to be the main link in this campaign, we saw other kinds of sites spread the Trojan as well. As such, the affiliates of this *partnërka* also utilize different ways to infect users' systems. The recent infection of the site, *laduree.fr*, shows how the attackers also compromise sites to peddle the Police Trojan.³

³ <http://blog.trendmicro.com/compromised-website-for-luxury-cakes-and-pastries-spreads-ransomware/>

APPENDIX

In sum, we are looking at a Russian-speaking cybercriminal gang with a dynamic network infrastructure that probably uses an affiliate network to help spread the ransomware Trojan and infect as many people's systems as possible.

Associated Email Addresses

- *alexudakovnah@gmx.de*
- *caferencgx9@yahoo.com*
- *goldenbaks@gmail.com*
- *kigajas@gmail.com*
- *thefirstweek@yandex.ru.*
- *zemcovolejammddf@gmail.com*

C&C Servers

- As of March 8, 2012:
 - *46.37.180.92*
 - *176.9.137.119*
 - *188.190.100.97*
- As of March 15, 2012:
 - *176.9.139.166*

Other IP Addresses

- *31.193.14.220* (name server)
- *31.193.14.221* (name server)
- *31.193.14.222* (name server)
- *31.193.14.223* (name server)
- *64.120.190.166* (*lockcattrade.biz*)
- *78.47.116.212* (*lockcattrade.biz*)
- *124.109.1.165* (*blackbluerose.com - lotentake.net*)

Possibly Associated Domains

The following domains were also registered using the email address, *alexudakovnah@gmx.de*:

- *krobodoping.in*
- *poletaem001.in*
- *poletaem002.in*
- *poletaem003.in*
- *poletaem004.in*
- *poletaem005.in*
- *mekrosoft.in*
- *micolosoft.in*
- *microlsoft.in*
- *mifkrosoft.in*
- *mikrosoft.in*
- *minkrosoft.in*

The following domains were also registered using the email address, *caferencx9@yahoo.com*:

- *cattrade.biz*
- *cattrade.in*

The following domains were also registered using the email address, *goldenbaks@gmail.com*:

- *apopeshko-kakashek.com*
- *besplatnporno.org*
- *bundeskriminalamtes.org*
- *bundes-kriminalamt.net*
- *dscodec.com*
- *exchangeofchecks.com*
- *fastglobeoearch.com*
- *fastprosearch.com*
- *fastsearchportal.org*
- *forbiddenexplicit.net*
- *gibridpk.com*
- *goldsexmovies.com*
- *grandporno.org*
- *gwb-cash.com*
- *incOgnit02.com*
- *incOgnit0.com*
- *kigatropol.com*
- *kukushata.com*
- *landes-kriminalt.net*
- *landeskriminalt.net*
- *landes-kriminalt.org*
- *lapoliciaespanola.org*
- *mega-porn0.net*
- *mpmasterporn.com*
- *myxxxhot.org*
- *nadrochi.net*
- *nitrosearch.info*
- *n-p-f.org*
- *policemetropolitan.org*
- *porno-day.net*
- *pornofromallworld.net*
- *pornopinto.com*

- *porno-pir.org*
- *pornopriv.net*
- *privatetechnology.biz*
- *sexysheep.org*
- *sexzavod.net*
- *spacecodecpack.net*
- *speedsearch4you.com*
- *speedsearch4you.in*
- *systemcodec.net*
- *systemscodec.com*
- *theworldsearch.com*
- *tourboportal.com*
- *traffcash.biz*
- *traffogon.net*
- *tubechube.org*
- *turb-o-search.com*
- *vaginagold.net*
- *vtraxe.net*
- *winhomesecurity.net*
- *nanosearchpro.net*

The following domains were also registered using the email address, *kigajas@gmail.com*:

- *arabemirates-online.org*
- *feromon.in*
- *info-saudi Arabia.org*
- *landes-kriminalt.de*
- *teenamite-porn.com*

The following domain was also registered using the email address, *zemcovojejammadf@gmail.com*:

- *lockcattrade.biz*

The following domains were also registered using the email address, *thefirstweek@yandex.ru*:

- *nsserver.be*
- *lertionk[01-020].be*
- *zaletelly[01-020].be*
- *robot[01-010].be*
- *pornolabs.be*

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