Petya and Mischa for All! The RaaS Boom Expands to Include the Petya/Mischa Combo

blogs.blackberry.com/en/2016/05/petya-and-mischa-for-all-the-raas-boom-expands-to-include-the-petya-mischacombo

Jim Walter

- 1. BlackBerry Blog
- 2. Petya and Mischa for All! The RaaS Boom Expands to Include the Petya/Mischa Combo

FEATURE / 05.19.16 / Jim Walter



News recently broke [1] of the ransomware Trojan <u>Petya</u> coming bundled together with an additional, secondary Trojan. The second Trojan, Mischa, is included as a fallback or failsafe. If the initial Petya installation routine is unable to acquire proper privileges on the system to do its dirty work, Mischa can run instead.

Often, the logged-in user is an employee using a company system and does not have admin rights, or User Account Control (UAC) prompts allow a user to disallow code. This can frustrate the malware authors and ultimately eat into their profits. You can understand why it would then make sense for them to include Mischa as a backup.

Towards the end of April 2016, the public face of Petya and Mischa, self-described 'professional cybercriminals' Janus Cybercrime Solutions, began updating various resources. This included the creation of their Twitter handle (@janussec) and updates to their dark web presence.

PROFIT FROM PETYA & MISCHA!

HIGH INFECTION RATES

PETYA comes bundeled with his little brother MISCHA. Since PETYA can't do his evil work without administrative privileges, MISCHA launches when those can't be obtained.

PETYA does a low level encryption of the disk, which is a completly new technique in ransomware. MISCHA acts as an traditional file-based ransomware. For more informations see our FAQ.

PROVABLY FAIR

As professional cybercriminals, we know that you can't trust anyone. So we developed a payment system based on multisig addresses, where no one (including us) can rip you off.

For more informations see our FAQ.



JANUS SECRETARY @janussec



Promotion then began for a closed and exclusive beta phase of the new combined malware. Currently this program is closed off to all but approved "high-volume distributors". The current message on the site reads as follows:

The registration is closed at the moment. We are testing this platform with a few high volume distributors. But this closed beta phase is almost finished.

Please try again in a few days. Follow our twitter page for updates.

If you think you are a high volume distributor and want access to the closed beta, please write a message to BM-2cXrxmXcTtQah7rAvofVTXdWeZAYJHwRmk (bitmessage).

Start FAQ Login	
Registration	Login
The registration is closed at the moment. We are testing this platform with a few high volume distributors. But this closed beta phase is almost finished.	Please login with your credentials. If you can't BM-2cXrxmXcTtQah7rAvofVTXdWeZAYJHwR
	Username
If you think you are a high volume distributor and want access to the closed beta, please write a message to BM-2cXrxmXcTtQah7rAvofVTXdWeZAYJHwRmk (bitmessage).	Password

Furthermore, the page highlights the new features of the combined ransomware:

HIGH INFECTION RATES

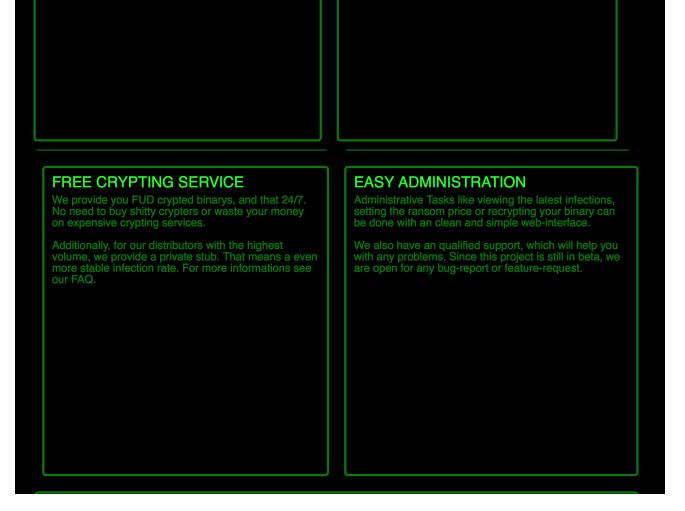
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Petya is considered by malware experts to be above average in terms of sophistication, which makes it surprising to see it spring up so quickly as a pseudo-public ransomware-asa-service (RaaS) offering. From a code and execution perspective, it is far beyond previous offerings, including the likes of Tox, Ransom32, and especially the Goliath offering from 'Hall of Ransom'.

Hall of Ransom



Goliath

Goliath is a new generation Ransomware. It was developed from source code of locki. It consists of two parts, the ransomware and the trojan. Plus it limits the use of server.

In addition to the new combined Petya/Mischa offering, it is very important to note the FUD/Evasion offering. For those enrolled, free crypting/FUD services are included. The authors are providing assurance that your binaries will go undetected, ongoing and 24/7. As a bonus, if you are one of their 'high-volume distributors', you will get your own unique stub. This step further assures evasion, as private stubs are 100% unique to those recipients.

This step helps reduce the amount of 'leakage' of the binaries into the wild, and gives them an advantage, evasion-wise, over the public/non-private stub crypts.

FREE CRYPTING SERVICE

We provide you FUD crypted binarys, and that 24/7. No need to buy shitty crypters or waste your money on expensive crypting services.

Additionally, for our distributors with the highest volume, we provide a private stub. That means a even more stable infection rate. For more informations see

Similar to other RaaSofferings, administration duties for the ransomware are handled via a simple web interface. The provided interface gives the ransomware buyer basic administration access, which includes management of payment amounts, victim tracking, binary updating/recrypting and more. You also get full support for any issues that might arise. Consider this as the cybercriminal's version of a gold-level technical support package.

EASY ADMINISTRATION

Administrative Tasks like viewing the latest infections, setting the ransom price or recrypting your binary can be done with an clean and simple web-interface.

We also have an qualified support, which will help you with any problems. Since this project is still in beta, we are open for any bug-report or featurerequest.

Their FAQ provides basic answers to questions around infection, encryption and options around payment:

Petya/ Mischa FAQ Section

is the infection screen shown before Windows starts?

Our system has a strong physical low level encryption, which encrypts all of your data storages, include USB devices. Windows repair programs or other diagnostic tools can't restore any data.

What will happen if I just reinstall my computer?

All your data will be irreversible destroyed and you have to buy a new windows license. Nobody can restore any data without your personal decryption key.

Which encryption algorithms are used?

The RSA (cryptosystem) 4096 bit and Advanced Encryption Standard (AES) 256 bit are used. Both systems are very secure and can't be bypassed or cracked.

What can I do?

Follow the decryption wizard on this page. It will help you with the payment and the decryption of your computer. In some cases your personal data will published to the darknet if you don't pay!

FAQ - Frequently Asked Questions

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Revenue and profit sharing is set up to benefit the highest-volume distributors of the ransomware. Again, the fact that Mischa is included as a user-context failsafe makes this goal far more attractive and achievable.

PAYMENT SHARE		
Your share on the payments you have generated is calculated with the following table. The more volume you generate in one week, the	Volume/Week	Share
more share on the profit you get.	<5 BTC	25%
Example: If you generate a volume of 125 BTC, you get a payout of	<25 BTC	50%
106.25 BTC. That are at the moment about 45,000 USD! To get a	<125 BTC	75%
volume over 100 BTC is not a big deal with the right technique!	>=125 BTC	85%

Behavior-wise, the malware behaves in a very similar fashion to prior versions of Petya. A few seconds after execution, the system reboots and the victim is presented with a fake chkdsk screen. Allowing this process to complete, or forcing a reboot results in the familiar skull and crossbones strobe (as shown below), albeit an updated version to match their new color scheme:

Repairing file system on C:

The type of the file system is NTFS. One of your disks contains errors and needs to be repaired. This process may take several hours to complete. It is strongly recommended to let it complete.

WARNING: DO NOT TURN OFF YOUR PC! IF YOU ABORT THIS PROCESS, YOU COULD DESTROY ALL OF YOUR DATA! PLEASE ENSURE THAT YOUR POWER CABLE IS PLUGGED IN!

CHKDSK is repairing sector 28992 of 158176 (18%)

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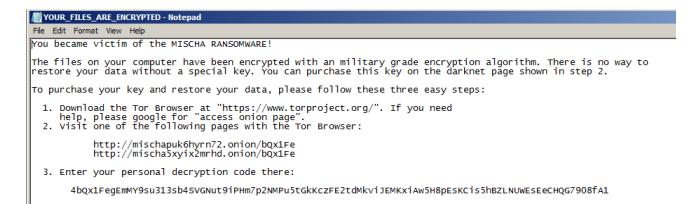
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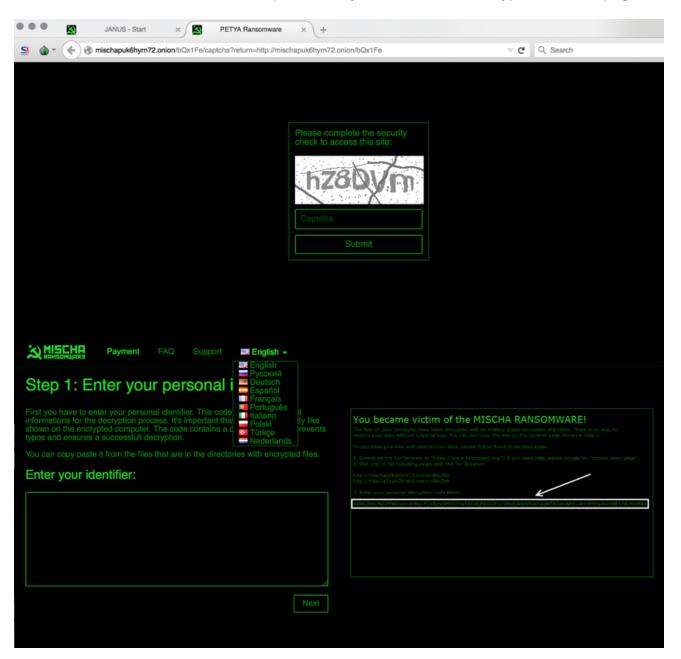
Once again, this is exactly what occurs when Petya is able to get full administrative privileges. When Petya is unable to gain admin rights (due to UAC or other controls), Mischa then deploys.

Mischa infections resemble the more traditional ransomware cases. There are no skulls or fancy special effects. You simply get notified of the encryption via a plain text file on the desktop. All encrypted files are appended with a '.bQx1' extension. The instructions include links for 'potential' recovery of the files.

🌍 User Account Cont	rol			×
	to allow the following nake changes to this			
Program name: Publisher: File origin:	d4b6524315d5de727a Unknown Hard drive on this com		8b28dab27c6.exe	
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Name *	Date modified	Туре	Size	<u> </u>
鷆 dirty	5/17/2016 10:27 PM	File folder		
1ststop.txt.bQx1	5/17/2016 10:27 PM	BQX1 File	6 KB	
alancasterteen.txt.bQx1	5/17/2016 10:27 PM	BQX1 File	7 KB	
apsnet.txt.bQx1	5/17/2016 10:27 PM	BQX1 File	5 KB	
basehead.txt.bQx1	5/17/2016 10:27 PM	BQX1 File	39 KB	
bitbucket.txt.bQx1	5/17/2016 10:27 PM	BQX1 File	5 KB	
c0dez.txt.bQx1	5/17/2016 10:27 PM	BQX1 File	63 KB	
cgo.txt.bQx1	5/17/2016 10:27 PM	BQX1 File	11 KB	
chickenheadbbs.txt.bQx1	5/17/2016 10:27 PM	BQX1 File	23 KB	
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View problem det	ails			



The Mischa .onion links lead to an updated Petya Ransomware decryption service page:



When entering the personal decryption code, you are presented with details on how to purchase bitcoins (BTC), and shown the amount demanded. In the example above, the Mischa decryption price is 2.08600000 BTC, which is roughly \$947.00 USD.

Enter your identifier:

4bQx1FegEmMY9su313sb4SVGNut9iPHm7p2NMPu5tGkKczFE2tdMkviJEMKxi Aw5H8pEsKCis5hBZLNUWEsEeCHQG7908fA1 Next Payment 📲 English 🚽

Step 2: Purchase Bitcoins

Your decryption key can only be purchased with Bitcoins. Bitcoin is a digital currency which can be exchanged from nearly every normal currency. There are a lot of exchange platforms on the internet, most of them are specialized on a single currency. Today buying bitcoins online is very easy and it's getting simpler every day!

You have to purchase at least the amount shown below. It is recommended to purchase a bit more, to ensure a successfull payment. An extra of 5% should be enough. If you already own enough Bitcoins, you could skip this step.

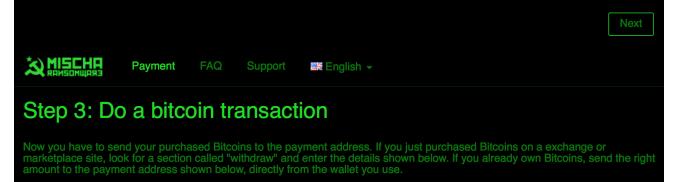
Demand: 2.08600000 Bitcoins

The following exchanges and marketplaces are recommended:

- http://www.localbitcoins.com Bank Wire and Cash
 http://www.coincafe.com Instant in NYC, Bank Wire and Mail Cash, Bank Wire and Credit Card

Any kind of Bitcoin-Wallet isn't required, you can transfer the purchased bitcoins directly to the payment address. If you want create a wallet anyway, http://www.blockchain.com is recommended.

If you successfull bought the right amount of Bitcoins, click "Next" for the next step.



Address: 1AMBh1HtqhTCcNm31xuLp2DPvaL3umjoTM Demand: 2.08600000 Bitcoins

After you made the payment transaction, you have to wait until we manually confirm it. This process usually takes a few hours. In some rare cases some payments need more time to get confirmed. Please refresh this page to see if your payment got confirmed.

The BTC wallet cited in our example is: **1AMBh1HtqhTCcNm31xuLp2DPvaL3umjoTM**

It is highly likely that the payment wallets are processed though several layers of obfuscation (washing). The wallet above currently holds 0.00 (no funds) with no attached transactions, according to Blockchain.

Analysis on the service side of this is ongoing. We will update this blog as new developments become available.

Detection

One sample has been circulated in multiple recent blogs and articles:

SHA256: d4b6524315d5de727a8af3e4e73e8b28dab27c62fd0a6a7a891460061c2f3d60

Upon analysis of this file, we came across a few other samples that are similar/ directly related.

Note: Compilation dates on all these are as follows:

d4b6524315d5de727a8af3e4e73e8b28dab27c62fd0a6a7a891460061c2f3d60 3/27/2016 6f9aae315ca6a0d3a399fa173b0745b74a444836b5efece5c8590589e228dbca 3/27/2016 e03e2d150b8135cfb330394c35f9bf372801b8a7c52a7a271db0a4ee46abbdd7 3/27/2016

CylancePROTECT® vs. Petya and Mischa

CylancePROTECT is able to detect and prevent execution on 100% of the binaries from this particular malware family - even with the malware authors' guarantee of 24/7 FUD and evasion. This level of detection does not exist with the more traditional, signature-based AV technologies.

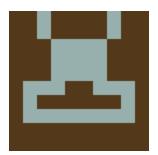
Here are the CylancePROTECT detection results for the prior-noted binaries. As you can see, CylancePROTECT detected and quarantined each malicious binary, pre-execution:

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Th	reats Exploit	s Ev	ents (3)	Scripts					
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	ined:]\\$rq6jyb8.exe ined:]\d4b6524315d5de	e727a8af3e4e	Quarantine		AC23C760C04C4817B3DD57DA6C26 D4B6524315D5DE727A8AF3E4E73E8				
	ined:]\e03e2d150b813				E03E2D150B8135CFB330394C35F9B				
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Offerings like the Petya/Mischa combo are sure to flourish and become far more prevalent and accessible. Advanced, artificial intelligence based AV solutions are now required to provide ongoing and preventative protection.

Believe the Math!

[1] http://www.securityweek.com/upgraded-petya-malware-installs-additional-ransomware



About Jim Walter

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<u>Back</u>