



WannaCry/WannaCrypt Ransomware

Important Information

15th May 2017

Key Points on the Malware

Name: WannaCrypt, WannaCry, WanaCrypt0r, WCCrypt, WCRY

Affected Systems: Windows – Vista SP2, Windows 2008 R2, Windows 7, Windows 8.1, Windows 2012 R2, Windows 10, Windows Server 2016 (other Windows versions affected by ETERNALBLUE *may be vulnerable*)

Vector: It uses ETERNALBLUE (SMBv1) MS17-010 to propagate. *Microsoft released patches for Windows XP, Server 2003, and Windows 8 on Friday, 12 May 2017.*

Ransom Amount: between \$300 to \$600. There is code to 'rm' (delete) files in the virus. Seems to reset if the virus crashes.

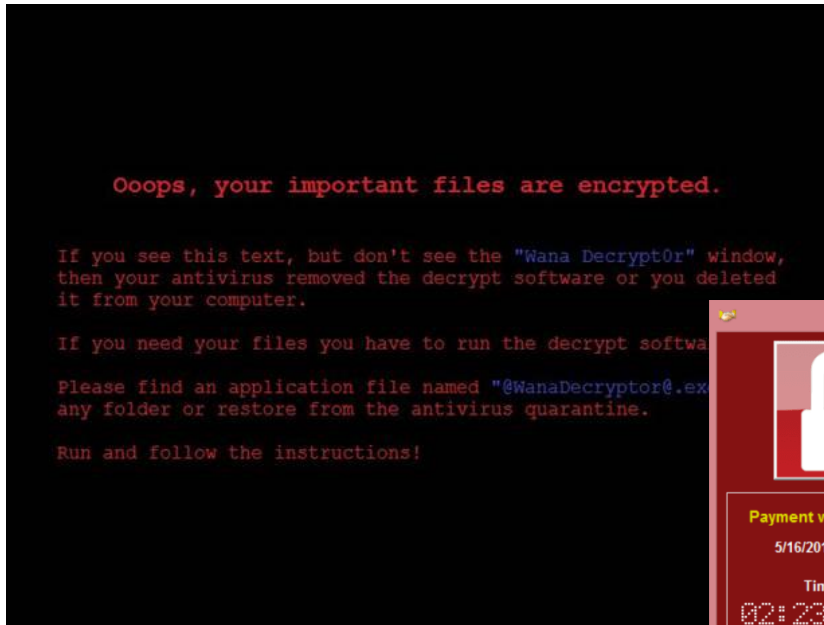
Persistence Techniques: Malware loops through every open RDP session on a system to run the ransomware as that user (using tscon.exe equivalent as SYSTEM). Various reports that variants also install the in-memory DOUBLEPULSAR backdoor.

Example of affected organisations: NHS (UK), Telefonica (Spain), FedEx (US), University of Waterloo (US), Russia interior ministry & Megafon (Russia), Сбєpa bank (Russia), Shaheen Airlines (India), Neustadt station (Germany), University of Milan (Italy) amongst others....

Spread so far: Over 100,000 attacks in over 150 countries

Kill switch: Initially, the 'kill-switch' domain was sinkholed, stopping the spread of the worm. However, multiple security researchers have claimed that there are more samples of WannaCryout there, with different 'kill-switch' domains and without any kill-switch function, continuing to infect unpatched computers worldwide.

What you see...



International Coverage

Following languages by default:

Bulgarian, Chinese (simplified), Chinese (traditional), Croatian, Czech, Danish, Dutch, English, Filipino, Finish, French, German, Greek, Indonesian, Italian, Japanese, Korean, Latvian, Norwegian, Polish, Portuguese, Romanian, Russian, Slovak, Spanish, Swedish, Turkish, Vietnamese



Ooops, your files have been encrypted!

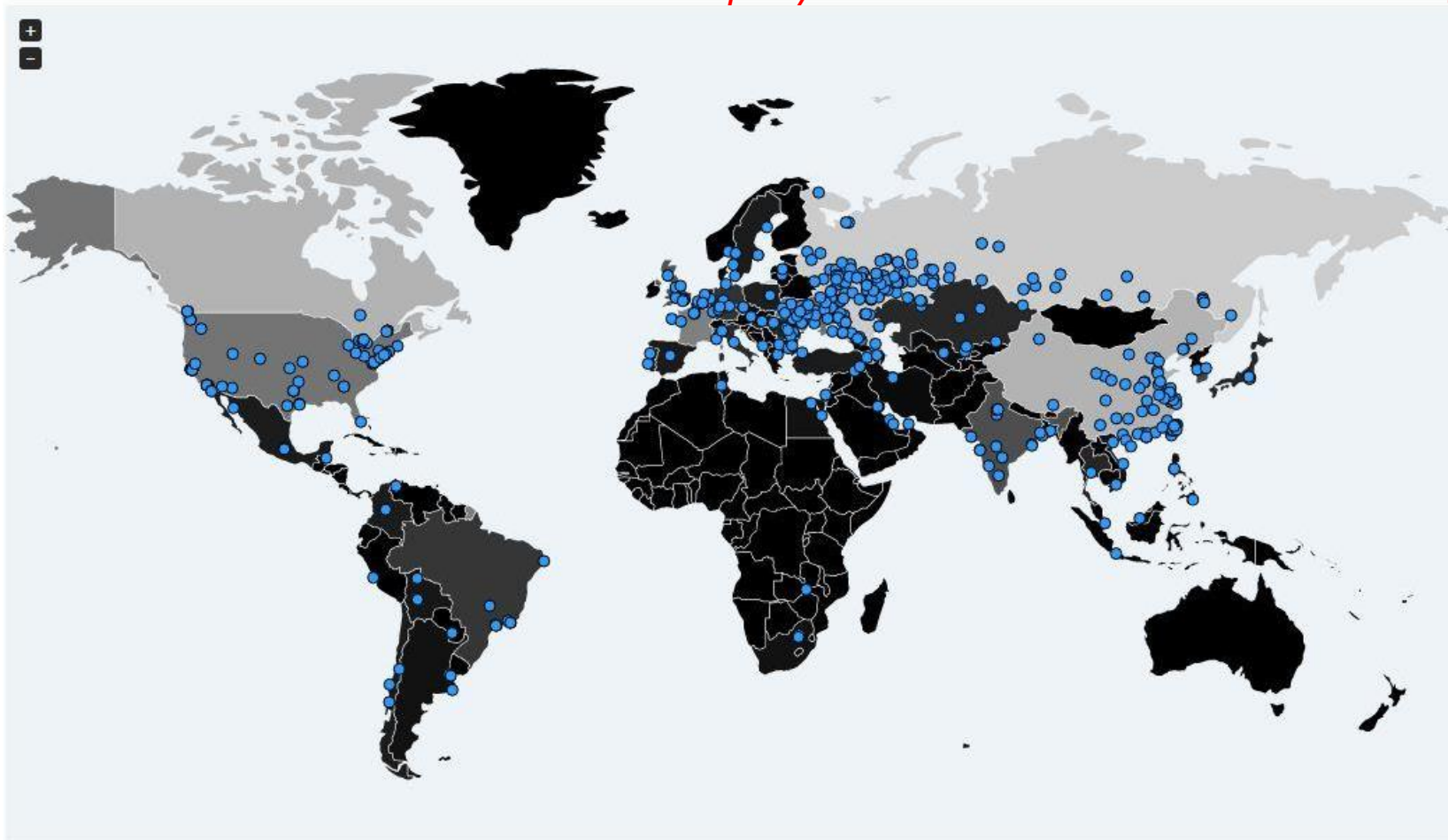
我的电脑出了什么问题？
您的一些重要文件被我加密保存了。
照片、图片、文档、压缩包、音频、视频文件、exe文件等，几乎文件都被加密了，因此不能正常打开。
这和一般文件损坏有本质上的区别。您大可在网上找找恢复文件的保证，没有我们的解密服务，就算老天爷来了也不能恢复这些文档。

有没有恢复这些文档的方法？
当然有可恢复的方法。只能通过我们的解密服务才能恢复。我以人够提供安全有效的恢复服务。
但这是收费的，也不能无限期的推迟。
请点击 <Decrypt> 按钮，就可以免费恢复一些文档。请您放心，骗你的。
但想要恢复全部文档，需要付款点费用。
是否随时都可以固定金额付款，就会恢复的吗，当然不是，推迟作对你不利。
最好3天之内付款费用，过了三天费用就会翻倍。
还有，一个礼拜之内未付款，将会永远恢复不了。
对了，忘了告诉你，对半年以上没钱付款的穷人，会有活动免费恢复，能否轮到您，就要看您的运气怎么样了。

Language selection dropdown menu:
Chinese (simplified) ▼
English
Bulgarian
Chinese (simplified)
Chinese (traditional)
Croatian
Czech
Danish
Dutch
Filipino
Finnish
French
German
Greek
Indonesian
Italian
Japanese
Korean
Latvian
Norwegian
Polish
Portuguese
Romanian
Russian
Slovak
Spanish
Swedish
Turkish
Vietnamese

Infection Patterns (Current Status)

The number of affected countries has rapidly increased to over 150 and still rising.



Is it time to....



Mitigation Steps

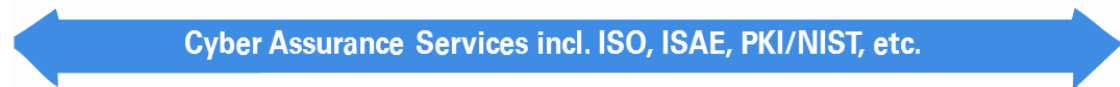
- There are also mitigation steps that can be taken – these are by no means exhaustive
 - Block all *.onion sites at edge firewalls
 - Turn off attachments in email (painful but until it “dies down”) - email without attachments is better than no email at all!
 - **Block ports TCP 445/139 at edge firewalls** and perform external scanning of all internet facing ranges to confirm ports are blocked.
 - **Push out MS17-010 to every machine as a matter of priority**
 - For Windows XP/2003 machines consider using the inbuilt firewall to block ports TCP 445/139 (however this will have severe repercussions for domain joined machines)
 - **Disable SMBv1!** <https://support.microsoft.com/en-us/help/2696547/how-to-enable-and-disable-smbv1,-smbv2,-and-smbv3-in-windows-vista,-windows-server-2008,-windows-7,-windows-server-2008-r2,-windows-8,-and-windows-server-2012>
 - Update AV/SIEM/IPS/Everything!
 - Start monitoring for IoC's if you have a SOC
 - Upgrade all end of life machines as a matter of priority.
 - For systems without patches isolate from the network as much as possible (strict VLAN's and Firewalls with very very tight ACL's (for example only allow 139/445 to FileServer and DC)



How KPMG can Help you

- ❑ We can help you to develop a robust incident response capability for times such as this;
- ❑ We can help you exercise and test incident response capabilities using credible scenarios;
- ❑ We can help you improve your cyber security defences; and
- ❑ We can help you test cyber security defences using our ethical hacking teams!

KPMG Cyber Security Services Overview





Contact

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