

WHAT IS WANNACRY/WANACRYPTOR?

WannaCry is ransomware that contains a worm component. It attempts to exploit vulnerabilities in the Windows SMBv1 server to remotely compromise systems, encrypt files, and spread to other hosts. Systems that have installed the MS17-010 patch are not vulnerable to the exploits used. Patches to address the vulnerabilities identified in Microsoft Security Bulletin MS17-010 are available for all versions of Windows from XP onward.

What if I have been infected?

- Isolate the system to prevent the malware from compromising additional devices.
 - While the system may still be used, WannaCry will continue to encrypt files and attempt to spread.
- Do not connect to or power on unpatched systems on compromised networks.
- The U.S. Government does not encourage paying a ransom to criminal actors. Paying the ransom does not guarantee decryption or removal of the malware. CERT Australia and other open source reporting have stated that a backdoor remains even if payment is made.
- A cyber security incident can be reported to the NCCIC 24/7/365 at NCCICCustomerService@hq.dhs.gov or (888) 282-0870.
- Restore from backups. Encrypted files cannot currently be decrypted without the corresponding private key.
 - If backups are not available, consider storing the encrypted data before wiping the computer in the event that a decryption method is found in the future.

What if a system cannot (currently) be patched?

There are several workarounds that can help protect systems from infection, including the following:

- Disable SMBv1 on every system connected to the network.
 - Information on how to disable SMBv1 is available from Microsoft.
 - While many modern devices will operate correctly without SMBv1, some older devices may experience communication or file/device access disruptions.
- Block port 445 (Samba).
 - This may cause disruptions on systems that require port 445.
- Review network traffic to confirm that there is no unexpected SMBv1 network traffic. The following links provide information and tools for detecting SMBv1 network traffic and Microsoft's MS17-010 patch:
 - o SMB—Audit Active Usage using Message Analyzer
 - Wireshark download
 - MS17-010 SMB RCE Detection
- Vulnerable embedded systems that cannot be patched should be isolated or protected from potential network exploitation.



How do I decrypt my files?

• There is currently no method of decrypting encrypted files without having the private key.

If I think a device is vulnerable and would like to report it, who do I contact?

• Contact NCCIC ICS to report the issue at ncciccustomerservice@hq.dhs.gov or (877) 776-7585.

What else can I do going forward to prevent this kind of attack?

- Keep systems up to date and patch as soon as possible.
 - o The CVEs for the vulnerabilities associated with WannaCry exploits are as follows: CVE-2017-0143; CVE-2017-0145; CVE-2017-0145; CVE-2017-0148
- Segregate networks based on functionality and the need to access resources.

- Keep offline data backups up to date.
- Additional information about ransomware is available in the following references:
 - o Destructive Malware White Paper
 - Ransomware
 - Alert (TA17-132A)
 - Ransomware—What It Is and What To Do About It
 - How to Protect Your Networks from Ransomware

About NCCIC

The National Cybersecurity and Communications Integration Center (NCCIC) is a 24x7 cyber situational awareness, incident response, and management center that is a national nexus of cyber and communications integration for the Federal Government, intelligence community, and law enforcement.

http://www.dhs.gov/national-cybersecurity-communications-integration-center