

To: Trend Micro™ TippingPoint Customers

Subject: WCRY Ransomware Attack (update)

The following is an update related to the WannaCry/WCry ransomware outbreak that has affected several organizations around the world. Trend Micro TippingPoint is continuing to actively review the contents of this disclosure in order to recommend coverage leveraging the TippingPoint solution. At this point, we have identified the following filters that should help you protect against the exploits listed in the table below:

| CVE Number | Filter(s) | Source | Released | Category | Comments |
|---|----------------|--------|---------------|------------------|---|
| CVE-1999-0519 CVE-1999-0520 | 2176 | | Prior to 2006 | Security Policy | SMB: Null Session SetUp |
| | 5614 | DV7378 | 9/24/2007 | Exploit | SMB: Malicious SMB Probe/Attack |
| | *11403 | DV8265 | 11/01/2011 | Security Policy | SMB: Suspicious SMB Fragmentation |
| CVE-2017-0145 | 27711 | DV8936 | 4/11/2017 | Exploit | SMB: Server SMBv1 Buffer Overflow Vulnerability |
| CVE-2017-0144 | 27928 | DV8938 | 4/18/2017 | Vulnerabilities | SMB: Remote Code Execution Vulnerability (EternalBlue) |
| CVE-2017-0146 | 27928 27929 | DV8938 | 4/18/2017 | Vulnerabilities | SMB: Remote Code Execution Vulnerabilities (EternalChampion) SMB: Remote Code Execution Vulnerability (EternalBlue) |
| CVE-2017-0147 | 27929 27937 | DV8938 | 4/18/2017 | Vulnerabilities | SMB: Remote Code Execution Vulnerability (EternalBlue) SMB: NT_TRANSACT_RENAME Information Disclosure Vulnerability (EternalSynergy) |
| | 27935 | DV8938 | 4/18/2017 | Exploit | SMB: DoublePulsar Backdoor |
| | 28304 | MW1370 | 5/15/2017 | Virus (ThreatDV) | Ransom_WCRY.I Download Attempt (Specific) |
| | 28305 | MW1370 | 5/15/2017 | Virus (ThreatDV) | Ransom_WCRY.I Download Attempt (Generic) |
| | 30623 | MW1251 | 8/16/2016 | Virus (ThreatDV) | TLS: Suspicious SSL Certificate (DGA) |
| *Prone to false positives or performance issues | | | | | |

Additionally, here are some of the solutions and best practices that organizations can adopt and implement to safeguard their systems from threats like WannaCry:

- Customers should not use any security product to block the malwares attempt to reach the killswitch domain. During the early stages of infection, the malware reaches out to a hardcoded killswitch domain (for example: [www.iuqerfsodp9ifjaposdfjhgosurijfaewrgwea\[.\]com](http://www.iuqerfsodp9ifjaposdfjhgosurijfaewrgwea[.]com)). If the malware cannot resolve that address, it proceeds with delivering the ransomware component. If the malware receives a valid response from the killswitch domain, it does not deploy the ransomware. Right now, researchers and organizations are buying these killswitch domains to slow down the number of infections. It's important that these domains are NOT blocked.

- The ransomware exploits a vulnerability in SMB server. Patching is critical for defending against attacks that exploit security flaws. A patch for this issue is [available](#) for Windows systems, [including those no longer supported by Microsoft](#). When organizations can't patch directly, using a [virtual patch](#) can help mitigate the threat.
- Deploying firewalls and [intrusion prevention systems](#) can help reduce the spread of this threat. A security system that can [proactively monitor attacks in the network](#) also helps stop these threats.
- Aside from using an exploit to spread, WannaCry [reportedly](#) also uses spam as entry point. [Identifying red flags on socially engineered spam emails](#) that contain system exploits helps. IT and system administrators should [deploy security mechanisms that can protect endpoints from email-based malware](#).
- WannaCry drops several malicious components in the system to conduct its encryption routine. [Application control](#) based on a whitelist can prevent unwanted and unknown applications from executing. [Behavior monitoring](#) can block unusual modifications to the system. Ransomware uses a number of techniques to infect a system; defenders [should do the same](#) to protect their systems.
- WannaCry encrypts files stored on local systems and network shares. Implementing [data categorization](#) helps mitigate any damage incurred from a breach or attack by protecting critical data in case they are exposed.
- [Network segmentation](#) can also help prevent the spread of this threat internally. Good network design can help contain the spread of this infection and reduce its impact on organizations.
- Disable SMB by enabling a traffic management rule to block port 445 over TCP/IP on systems that do not require SMB to be enabled. Running unneeded services gives more ways for an attacker to find an exploitable vulnerability.

For additional information, visit the following blogs:

- [Updates on the latest WCRY \(WannaCry\) Ransomware Attack and Trend Micro Protection](#)
- [WannaCry/WCry Ransomware: How to Defend against It](#)

For questions or technical assistance, on any TippingPoint product, contact the TippingPoint Technical Assistance Center (TAC).

Thank you,
Trend Micro™ TippingPoint

For contact information, please visit us at <https://tmc.tippingpoint.com>