ANOMALI THREATSTREAM

ALERT - Petya Ransomware's Comeback using NSA Hacking Tools

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Stage **New**

User Assignment **elie.nasrallah@hitrustalliance.net**
Org Assignment **hitrustalliance.net**

Traffic-Light Protocol **TLP:Green**

Classification **Trusted Circles**

Shared with Trusted Circles: CTX - Academic Medical Centers; CTXIOCTEST; CTX-Pediatric Hospitals and Health Systems; HITRUST-Advanced; HITRUST-Core

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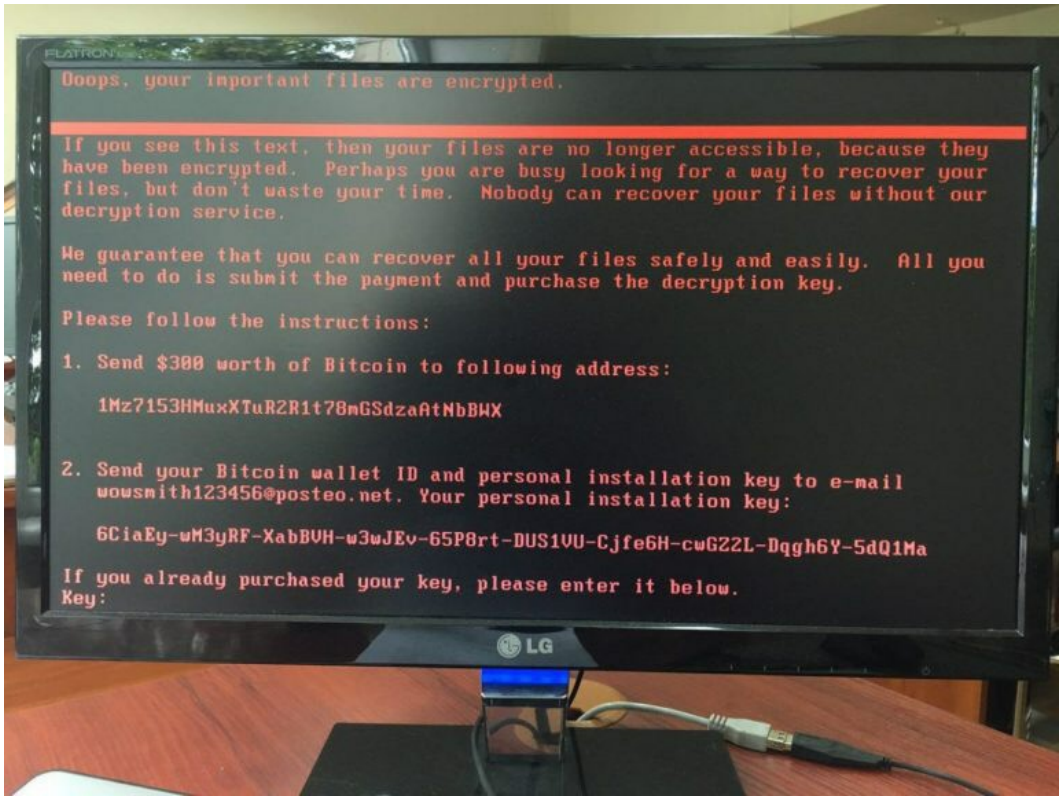
HITRUST is currently monitoring Petya Ransomware's Comeback, the latest outbreak which has targeted businesses in the Ukraine, India, France, Russia, and Spain. HITRUST will continue to monitor and update this Threat Bulletin.

The attacks utilize a new variant of the Petya ransomware and uses a fake Microsoft digital signature in the process.



UPDATE #1: This ransomware is using NSA's EternalBlue code (image below).

Pseudocode-B

```
int __stdcall exploit_host(char *cp, int a2, int a3, int a4, int a5, int a6, int a7)
{
  int v7; // edi@1
  int result; // eax@2
  int v9; // esi@3
  char Dst; // [esp+8h] [ebp-54h]@1

  memset(&Dst, 0, 0x54u);
  LOWORD(dword_1001FB48) = GetTickCount();
  byte_1001F8FD = 0;
  v7 = eternal_blue_exploit_host((int)&Dst, cp, 445u, 0, a2, a3, a4, a5, a6, a7);
  if ( v7 )
  {
    sub_10002068((SOCKET *)&Dst);
    result = v7;
  }
  else
  {
    byte_1001F8FD = 0;
    v9 = eternal_blue_exploit_host((int)&Dst, cp, 445u, (int)sub_10001F74, a2, a3, a4, a5, a6, a7);
    sub_10002068((SOCKET *)&Dst);
    result = v9;
  }
  return result;
}
```

UPDATE #2: This variant is using the same exploits as WannaCry, targeting SMB v.1 with the EternalBlue exploit and as such, the mitigation measures that were implemented for WannaCry v2.0 should cover this attack surface.
UPDATE #3: SHA256 IOCs include:027cc450ef5f8c5f653329641ec1fed91f694e0d229928963b30f6b0d7d3a745 (sample file name: petwrap.exe)
f8dbabdfa03068130c277ce49c60e35c029ff29d9e3c74c362521f3fb02670d5 (sample file name: dllhost.dat)

Import Session

Session 221110 (0)

No Indicators for this import session.

Comments

T_Boardman (Licking Memorial Health Systems) on 2017-06-27 15:21:53 +0000

Breakdown of this particular strain of Petya

https://securelist.com/petrwrap-the-new-petya-based-ransomware-used-in-targeted-attacks/77762/

History

elie.nasrallah (hitrustalliance.net)	Updated Report	2017-06-27 15:29:02 +0000
Trevor Boardman (Licking Memorial Health Systems)	Created Comment	2017-06-27 15:21:53 +0000
elie.nasrallah (hitrustalliance.net)	Created Report	2017-06-27 15:08:25 +0000