

Domino Ransomware Analysis

Domino enters the targeted system when the user tries to install "KMSPico Windows Activation Crack" which seems to be a modified version of KMSPico.



Fig 1. KMSPico Installation

During the installation process, the installer file drops the below components onto the %Temp% location:

- %Temp%\KMSpico_setup.exe
- %Temp%\31688EFBC3B9C99914A5BB7FB58AEC9E.exe
 - %Temp%\help.zip
 - %Temp%\help.exe
 - %Temp%\HelloWorld.exe

These files keep running in memory with the below structure:

☐ 31688EFBC3B9C99914A5BB7FB58AEC9E.exe	4240		34,524 K	38,040 K Setup
help.exe	5464	3.23	18,936 K	19,004 K bootcfg
	3520		1,984 K	3,608 K KMSpico Setup
KMSpico_setup.tmp	4600	< 0.01	3,652 K	11,184 K Setup/Uninstall
take 1				

Fig 2. Dropped components in Execution



Dropped *KMSpico_setup.exe* performs its regular activities. *31688EFBC3B9C99914A5BB7FB58AEC9E.exe* drops *help.zip* which is a password-protected file, containing *HelloWorld.exe* and *help.exe*. This zip file is extracted and executed further by *31688EFBC3B9C99914A5BB7FB58AEC9E.exe*.

help.exe file scans the infected system, encrypts supported files present on it and appends ".domino" to the encrypted files.



Fig 3. Encrypted Files

When the ransomware completes its encryption activity, *HelloWorld.exe* file is executed and shows the below ransom note, demanding 1 Bitcoin in exchange for a key that can decrypt the victim's encrypted files.



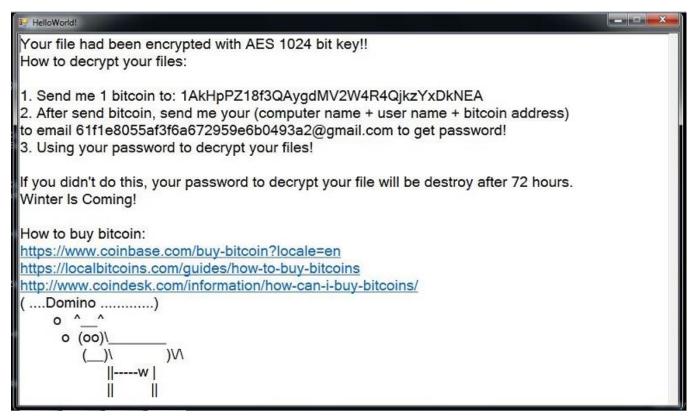


Fig 4. Ransomware Note

Quick Heal Anti-Ransomware Technology successfully detects the file encryption activity of Domino ransomware.



Fig 5. Quick Heal Anti-Ransomware Technology



Quick Heal Virus Protection also successfully detects this malicious ransomware activity as "TrojanRansom.Crypmodadv".



Fig 5. Quick Heal Virus Protection

Quick Heal detects packed installer of this software as "HackTool.AutoKMS"

As mentioned in the <u>Quick Heal Q2 Threat Report 2016 for Windows</u>, the infection vector of domino ransomware is a good example of a threat which could be caused from the use of Activator software like Activators for Windows, Office, AVs, etc., and Keygens. These software could be exploited by attackers and used to spread malware.