NioGuard analyzed the latest version of DeriaLock ransomware (MD5: 0a7b70efba0aa93d4bc0857b87ac2fcb). This version is unique because of two reasons. First, it demands to pay the 30 USD/EUR ransom to the Skype account. Second, DeriaLock incorporates three types of functionality: SystemLocker, CryptoLocker, and FileKiller within a single attack.

If you managed to remove the DeriaLock infection and keep your encrypted files, you can start now decrypting your documents using the encryption key and initialization vector calculated by our script based on the password string extracted from the DeriaLock's body:

- *AES 256-bit key: 9c9e1ba2ee5b86494b7e1ebba6420ee6ab64ce6d678604eb5b5049b210693743*
- *IV: 9fa4ed4d89b04ee7f3b74c9b46588e18*

There are three ways you can decrypt the files encrypted by DeriaLock:

1. Executing DeriaLockDecryptor.exe
2. Running the Python script DeriaDecryptor.py
3. Using OpenSSL or another crypto tool

Caution: Use the decryptor at your own risk. We are not responsible for any damage that it may cause.

To decrypt the files encrypted by DeriaLock ransomware using the decryptor:

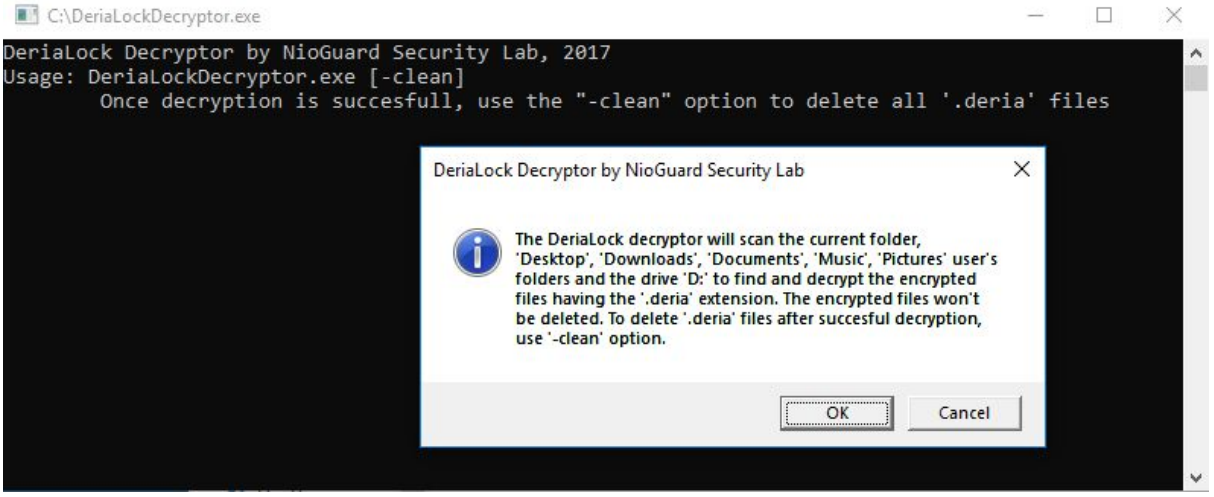
1. Download the decryptor 'DeriaLockDecryptor.exe' from the GitHub: https://github.com/AlexanderAda/Ransomware-Decryptors/blob/master/DeriaLock/DeriaLockDecryptor.exe

   MD5: c2c2d048101843dfb2d8afa3c539f4a5
   SHA1: 473d8a02db60209351d36c9f4fed41f7c1c026f0

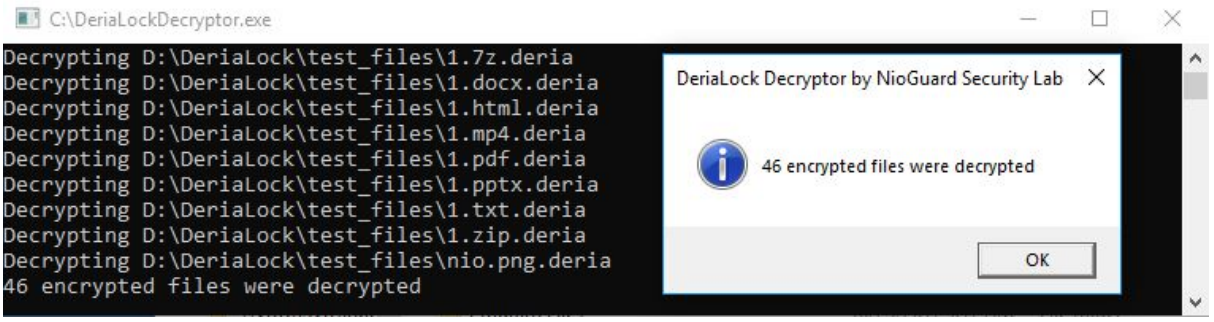
2. Run the decryptor on an infected machine.

   Note: The decryptor will scan the following locations for the presence of the files having the '.deria' extension:
   - Current folder
   - Desktop
   - Downloads
   - Documents or My Documents
   - Music or My Music
   - Pictures or My Pictures
   - D:\

   Example of output:

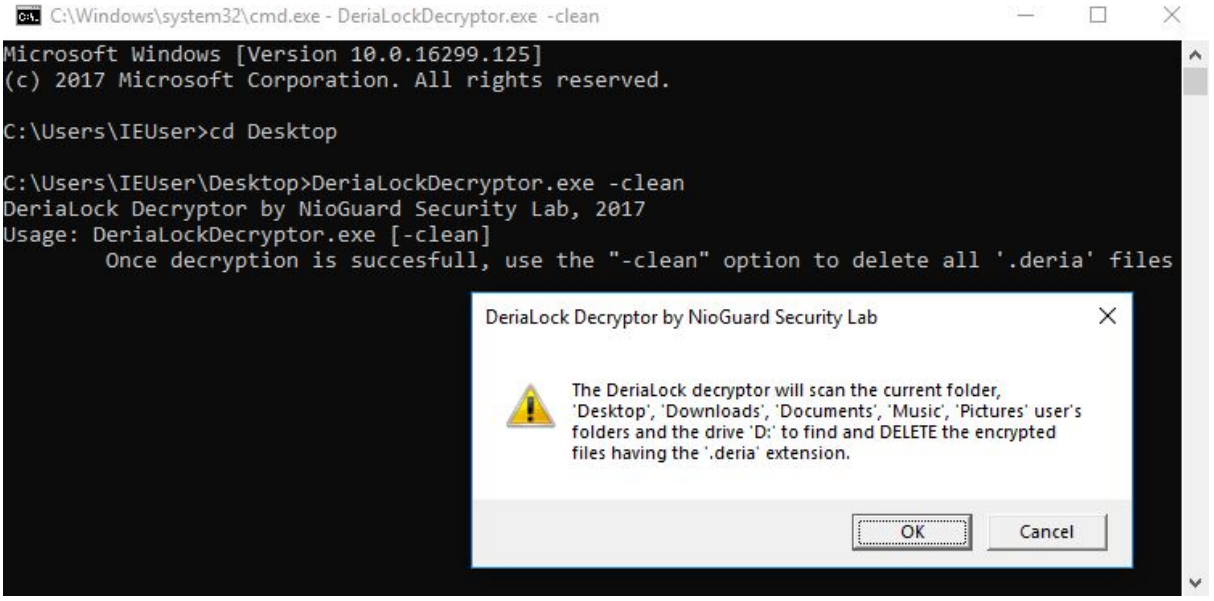


3. Click 'Ok' and wait until the decryptor finishes the decryption process.
   Example of output:

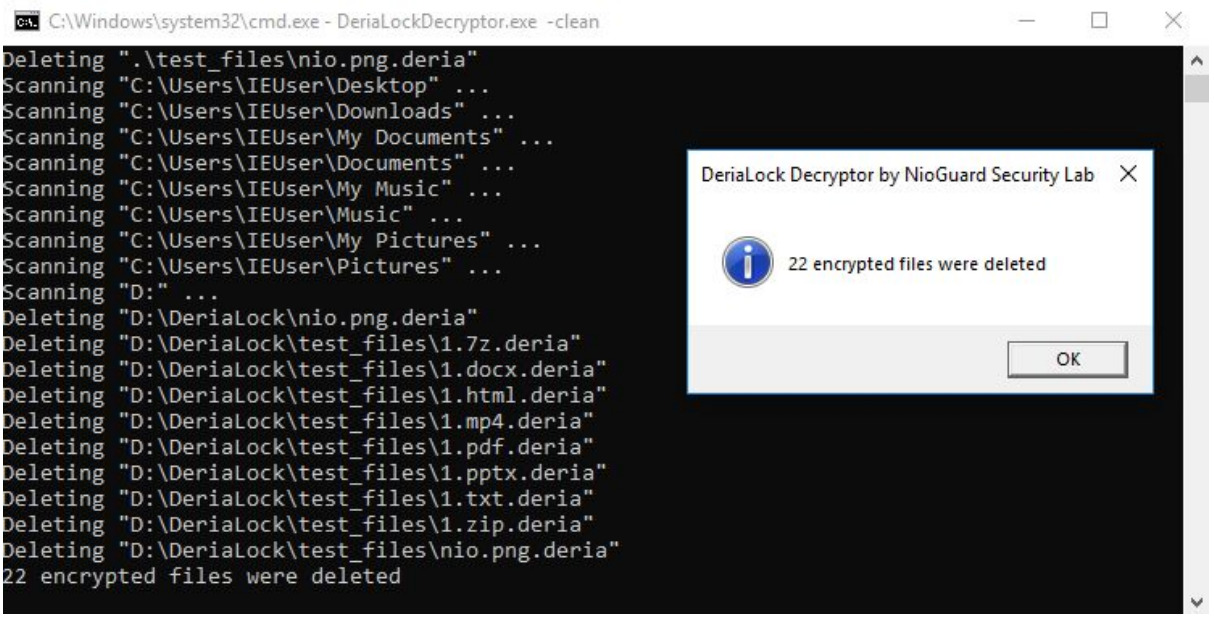


4. Verify that the files were successfully decrypted.
5. Remove the encrypted files having the '.deria' extension by running the following command from the command line:
   DeriaLockDecryptor.exe -clean

   Example of output:



6. Click 'Ok'.
   Example of output:



To decrypt the encrypted files using our Python script:

1. Download the Python script ‘DeriaDecryptor.py ’ from the GitHub: https://github.com/AlexanderAda/Ransomware-Decryptors/blob/master/DeriaLock/DeriaDecryptor.py

   MD5: 61d6336332a8cd904a8c9fd2f78de062
   SHA1: 1b651efcedbaae51f12a343b526ee22c8c86eab

2. Download and install Python 2.7 on an infected machine from https://www.python.org/downloads/

3. Run the script on the infected machine:

   python DeriaDecryptor.py

To decrypt the encrypted file using OpenSSL tool:

1. Download OpenSSL source code available by the link and compile it: https://www.openssl.org/source/

2. Run in the command line:
   openssl aes-256-cbc -d -in photo.png.deria -K 9c9e1ba2ee5b86494b7e1ebba6420ee6ab64ce6d678604eb5b5049b210693743 -iv 9fa4ed4d89b04ee7f3b74c9b46588e18 -out photo.png

Should you have any questions, please email to: ada@nioguard.com

References

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