How I Cracked CONTI Ransomware Group’s Leaked Source Code ZIP File

By Wade Hickey

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Mar 1, 2022

1. Leaker posted full zip with password

2. Leaker posted zip without locker without password

3. Grab some known plaintext from the second, and you can crack the first with bkcrack.

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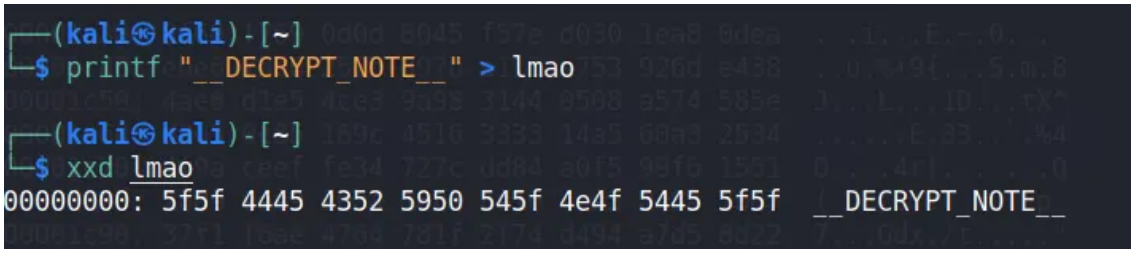

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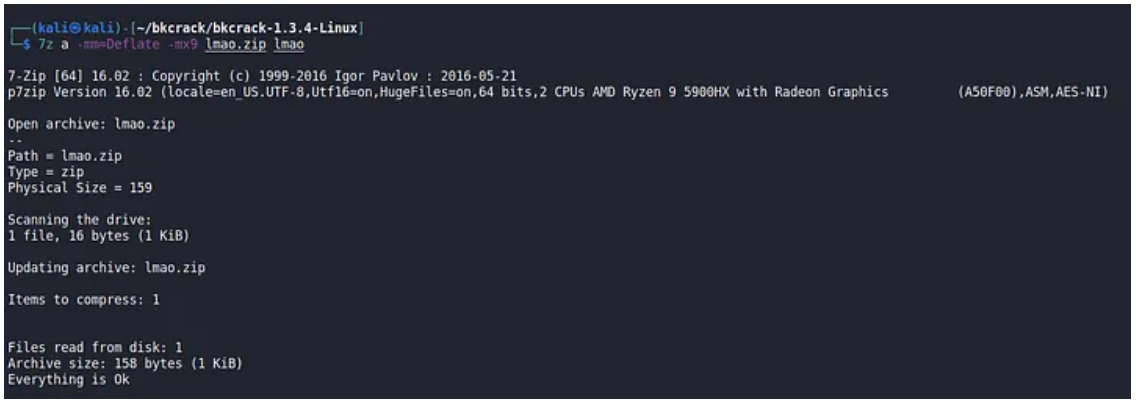

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```
┌──(kali㉿kali)-[~/bkcrack/bkcrack-1.3.4-Linux]
└─$ ./bkcrack -C conti_locker_v2.zip -c "conti_locker/R3ADM3.txt" -P lmao.zip -p lmao
bkcrack 1.3.4 - 2022-01-01
[10:42:58] Z reduction using 8 bytes of known plaintext
100.0 % (8 / 8)
[10:42:58] Attack on 748436 Z values at index 7
Keys: 2a45cf92 4521624b decd8163
19.0 % (142235 / 748436)
[10:48:16] Keys
2a45cf92 4521624b decd8163
```

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```
┌──(kali㉿kali)-[~/bkcrack/bkcrack-1.3.4-Linux]
└─$ ./bkcrack -C conti_locker_v2.zip -k 2a45cf92 4521624b decd8163 -U unlocked.zip password
bkcrack 1.3.4 - 2022-01-01
[10:57:29] Writing unlocked archive unlocked.zip with password "password"
100.0 % (199 / 199)
Wrote unlocked archive.
```

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```
┌──(kali㉿kali)-[~/bkcrack/bkcrack-1.3.4-Linux/conti_locker/locker]
└─$ ls
antihook  chacha20  disks.cpp     global_parameters.cpp  hash.h      locker.vcxproj          logs.cpp  memory.cpp     MetaString.h         ntdll.h          queue.h     search.cpp
api.cpp   common.h  filesystem.h  global_parameters.h    locker.cpp  locker.vcxproj.filters  logs.h    memory.h       network_scanner.cpp  process_killer.cpp  R3ADM3.txt  threadpool.cpp
api.h     Debug     GetApi.h      hash.cpp               locker.h    locker.vcxproj.user     main.cpp  MetaRandom2.h  network_scanner.h    process_killer.h    Release     threadpool.h

┌──(kali㉿kali)-[~/bkcrack/bkcrack-1.3.4-Linux/conti_locker/locker]
└─$ ls -lah
total 480K
drwxr-xr-x 6 kali kali 4.0K Sep 15  2020 .
drwxr-xr-x 7 kali kali 4.0K Jan 27 09:25 ..
drwxr-xr-x 2 kali kali 4.0K Sep 15  2020 antihook
-rw-r--r-- 1 kali kali  14K Sep 15  2020 api.cpp
-rw-r--r-- 1 kali kali  60K Sep 15  2020 api.h
drwxr-xr-x 2 kali kali 4.0K Sep 15  2020 chacha20
-rw-r--r-- 1 kali kali  311 Sep 15  2020 common.h
drwxr-xr-x 3 kali kali 4.0K Sep 15  2020 Debug
-rw-r--r-- 1 kali kali 1015 Sep 15  2020 disks.cpp
-rw-r--r-- 1 kali kali  451 Sep 15  2020 filesystem.h
-rw-r--r-- 1 kali kali  90K Sep 15  2020 GetApi.h
-rw-r--r-- 1 kali kali  853 Sep 15  2020 global_parameters.cpp
-rw-r--r-- 1 kali kali  383 Sep 15  2020 global_parameters.h
-rw-r--r-- 1 kali kali  870 Sep 15  2020 hash.cpp
-rw-r--r-- 1 kali kali   85 Sep 15  2020 hash.h
-rw-r--r-- 1 kali kali  23K Sep 15  2020 locker.cpp
-rw-r--r-- 1 kali kali  807 Sep 15  2020 locker.h
-rw-r--r-- 1 kali kali 9.0K Sep 15  2020 locker.vcxproj
-rw-r--r-- 1 kali kali 6.7K Sep 15  2020 locker.vcxproj.filters
-rw-r--r-- 1 kali kali  165 Sep 15  2020 locker.vcxproj.user
-rw-r--r-- 1 kali kali 1.3K Sep 15  2020 logs.cpp
-rw-r--r-- 1 kali kali  119 Sep 15  2020 logs.h
-rw-r--r-- 1 kali kali 9.4K Sep 15  2020 main.cpp
-rw-r--r-- 1 kali kali  611 Sep 15  2020 memory.cpp
-rw-r--r-- 1 kali kali  166 Sep 15  2020 memory.h
-rw-r--r-- 1 kali kali  982 Sep 15  2020 MetaRandom2.h
-rw-r--r-- 1 kali kali 2.7K Sep 15  2020 MetaString.h
-rw-r--r-- 1 kali kali  15K Sep 15  2020 network_scanner.cpp
-rw-r--r-- 1 kali kali  370 Sep 15  2020 network_scanner.h
-rw-r--r-- 1 kali kali  92K Sep 15  2020 ntdll.h
-rw-r--r-- 1 kali kali 2.7K Sep 15  2020 process_killer.cpp
-rw-r--r-- 1 kali kali  307 Sep 15  2020 process_killer.h
-rw-r--r-- 1 kali kali  17K Sep 15  2020 queue.h
-rw-r--r-- 1 kali kali   16 Sep 15  2020 R3ADM3.txt
drwxr-xr-x 3 kali kali 4.0K Sep 15  2020 Release
-rw-r--r-- 1 kali kali 4.6K Sep 15  2020 search.cpp
-rw-r--r-- 1 kali kali  16K Sep 15  2020 threadpool.cpp
-rw-r--r-- 1 kali kali  930 Sep 15  2020 threadpool.h
```

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```
┌──(kali㉿kali)-[~/bkcrack/bkcrack-1.3.4-Linux/conti_locker/locker]
└─$ cat filesystem.h
#pragma once
#include "common.h"
#include "queue.h"
#include "memory.h"

namespace filesystem {

        typedef struct drive_info_ {

                std::wstring RootPath;
                TAILQ_ENTRY(drive_info_) Entries;

        } DRIVE_INFO, *PDRIVE_INFO;

        typedef TAILQ_HEAD(drive_list_, drive_info_) DRIVE_LIST, * PDRIVE_LIST;

        INT EnumirateDrives(PDRIVE_LIST DriveList);
        VOID SearchFiles(std::wstring StartDirectory, INT ThreadPoolID);
        DWORD WINAPI StartLocalSearch(PVOID pArg);

}
```

4. Now let’s crack the original password

```
┌──(kali㉿kali)-[~/bkcrack/bkcrack-1.3.4-Linux]
└─$ ./bkcrack -k 2a45cf92 4521624b decd8163 -r 15 ?p

bkcrack 1.3.4 - 2022-01-01
[10:55:11] Recovering password
length 0-6...
length 7...
length 8...
length 9...
length 10...
length 11...
length 12...
length 13...
length 14...
7.7 % (693 / 9025)
[16:50:26] Password
as bytes: 27 3b 23 70 5d 65 28 64 3e c4 a8 3 dc 47
as text: ';#p]e(d>Ï¨G
```

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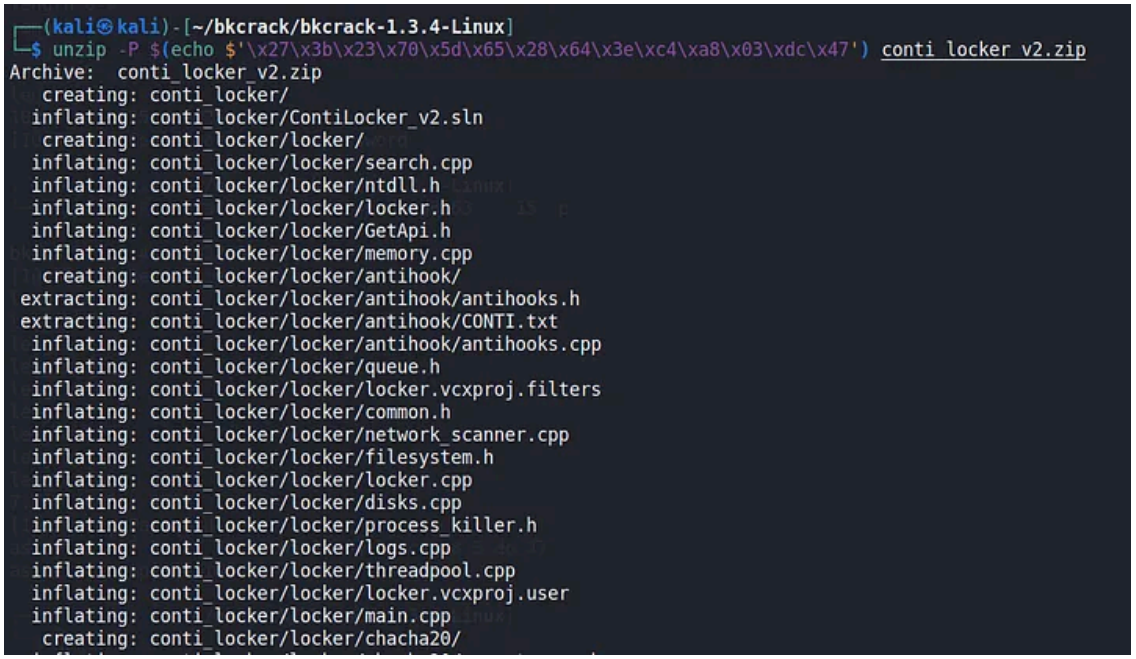

VirusTotal:

conti_locker_v2.zip

conti_locker.7z

unlocked_conti_leak.zip

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It's amazing what the ransomware operators know about cryptography…

Source: https://medium.com/@whickey000/how-i-cracked-conti-ransomware-groups-leaked-source-code-zip-file-e15d54663a8