[QuickNote] VidarStealer Analysis

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Sample:

Loader:
https://bazaar.abuse.ch/sample/816c4a2117b90dc75d91056ca32a36ffd32d561aa433ee3f97126ba490e6d60a/

Unpacked: 7bd942857a29e7f2931da2bd8fa1d118

Decrypt strings

Here is the the pseudo-code of the function that decodes the strings:

```
_BYTE *__usercall vdr_decrypt_strings@<eax>(uint32_t len@<ecx>, char *xor_key, const char *encStr)
{
  // [COLLAPSED LOCAL DECLARATIONS. PRESS KEYPAD CTRL-"+" TO EXPAND]

  cnt = 0x208;
  v5 = Destination;
  do
  {
    *v5 = 0;
    v5 = (v5 + 1);
    --cnt;
  }
  while ( cnt );
  wcscat(Destination, L"Nor again is there anyone who loves or pursues or desires to obtain pain of
  wcslen(Destination);
  wcslen(Destination);
  wcslen(Destination);
  wcslen(Destination);
  decStr = LocalAlloc(0x40u, len + 1);
  wcslen(Destination);
  wcslen(Destination);
  wcslen(Destination);
  wcslen(Destination);
  decStr[len] = 0;
  wcslen(Destination);
  wcslen(Destination);
  wcslen(Destination);
  wcslen(Destination);
```

```
  for ( i = 0; i < len; ++i )
  {
    wcslen(Destination);
    wcslen(Destination);
    decStr[i] = xor_key[i] ^ encStr[i % strlen(encStr)]; <-- xor loop
    wcslen(Destination);
    wcslen(Destination);
  }
  wcslen(Destination);
  wcslen(Destination);
  memset(Destination, 0, sizeof(Destination));
  return decStr;
}
```

List of all decoded strings:

```
[*] Target function found at 0x404158
   [+] Decrypted string: HAL9TH at 0x401136
   [+] Decrypted string: JohnDoe at 0x40114d
   [+] Decrypted string: LoadLibraryA at 0x401164
   [+] Decrypted string: lstrcatA at 0x40117b
   [+] Decrypted string: GetProcAddress at 0x401192
   [+] Decrypted string: Sleep at 0x4011a9
   [+] Decrypted string: GetSystemTime at 0x4011c0
   [+] Decrypted string: ExitProcess at 0x4011d7
   [+] Decrypted string: GetCurrentProcess at 0x4011ee
   [+] Decrypted string: VirtualAllocExNuma at 0x401205
   [+] Decrypted string: VirtualAlloc at 0x40121c
   [+] Decrypted string: VirtualFree at 0x401233
   [+] Decrypted string: lstrcmpiW at 0x40124a
   [+] Decrypted string: LocalAlloc at 0x401261
   [+] Decrypted string: GetComputerNameA at 0x401278
   [+] Decrypted string: advapi32.dll at 0x40128f
   [+] Decrypted string: GetUserNameA at 0x4012a6
   [+] Decrypted string: kernel32.dll at 0x4012bd
   [+] Decrypted string: Wallets at 0x4012dc
   [+] Decrypted string: Plugins at 0x4012f2
   [+] Decrypted string: keystore at 0x40130b
   [+] Decrypted string: Ethereum" at 0x401322
   [+] Decrypted string: \Ethereum\ at 0x401339
   [+] Decrypted string: Electrum at 0x40134f
   [+] Decrypted string: \Electrum\wallets\ at 0x401366
   [+] Decrypted string: ElectrumLTC at 0x40137f
   [+] Decrypted string: \Electrum-LTC\wallets\ at 0x401396
   [+] Decrypted string: Exodus at 0x4013ad
   [+] Decrypted string: \Exodus\ at 0x4013c3
```

```
[+] Decrypted string: exodus.conf.json at 0x4013da
[+] Decrypted string: window-state.json at 0x4013f1
[+] Decrypted string: \Exodus\exodus.wallet\ at 0x401408
[+] Decrypted string: passphrase.json at 0x40141f
[+] Decrypted string: seed.seco at 0x401436
[+] Decrypted string: info.seco at 0x40144d
[+] Decrypted string: ElectronCash at 0x401464
[+] Decrypted string: \ElectronCash\wallets\ at 0x40147b
[+] Decrypted string: default_wallet at 0x401492
[+] Decrypted string: MultiDoge at 0x4014a9
[+] Decrypted string: \MultiDoge\ at 0x4014bf
[+] Decrypted string: multidoge.wallet at 0x4014d6
[+] Decrypted string: Jaxx_Desktop_Old at 0x4014ed
[+] Decrypted string: \jaxx\Local Storage\ at 0x401504
[+] Decrypted string: file__0.localstorage at 0x40151b
[+] Decrypted string: Atomic at 0x401532
[+] Decrypted string: \atomic\Local Storage\leveldb\ at 0x401549
[+] Decrypted string: *.log at 0x401560
[+] Decrypted string: CURRENT at 0x401576
[+] Decrypted string: LOCK at 0x40158d
[+] Decrypted string: LOG at 0x4015a4
[+] Decrypted string: MANIFEST-000001 at 0x4015bb
[+] Decrypted string: 0000* at 0x4015d2
[+] Decrypted string: Binance at 0x4015e8
[+] Decrypted string: \Binance\ at 0x4015ff
[+] Decrypted string: app-store.json at 0x401616
[+] Decrypted string: Coinomi at 0x40162c
[+] Decrypted string: \Coinomi\Coinomi\wallets\ at 0x401643
[+] Decrypted string: *.wallet at 0x401659
[+] Decrypted string: *.config at 0x40166f
[+] Decrypted string: wallet_path at 0x401685
[+] Decrypted string: SOFTWARE\monero-project\monero-core at 0x40169c
[+] Decrypted string: \Monero\ at 0x4016b2
[+] Decrypted string: C:\ProgramData\ at 0x4016c9
[+] Decrypted string: .exe at 0x4016e0
[+] Decrypted string: RECYCLE.BIN at 0x4016f6
[+] Decrypted string: Config.Msi at 0x40170d
[+] Decrypted string: System Volume Information at 0x401724
[+] Decrypted string: msdownld.tmp at 0x40173b
[+] Decrypted string: Recovery at 0x401751
[+] Decrypted string: Local\Temp at 0x401768
[+] Decrypted string: Recycle.Bin at 0x40177e
[+] Decrypted string: MicrosoftEdge\Cookies at 0x401795
[+] Decrypted string: Local\Packages at 0x4017ac
[+] Decrypted string: Local\NuGet at 0x4017c2
[+] Decrypted string: Roaming\WinRAR at 0x4017d9
[+] Decrypted string: Local\Microsoft at 0x4017f0
```

```
  [+] Decrypted string: fee_estimates at 0x401809
  [+] Decrypted string: peers at 0x401820
  [+] Decrypted string: mempool at 0x401836
  [+] Decrypted string: banlist at 0x40184c
  [+] Decrypted string: governance at 0x401863
  [+] Decrypted string: mncache at 0x401879
  [+] Decrypted string: mnpayments at 0x401890
  [+] Decrypted string: netfulfilled at 0x4018a7
  [+] Decrypted string: Login Data at 0x4018be
  [+] Decrypted string: Cookies at 0x4018d4
  [+] Decrypted string: Web Data at 0x4018eb
  [+] Decrypted string: logins.json at 0x401901
  [+] Decrypted string: formSubmitURL at 0x401917
  [+] Decrypted string: usernameField at 0x40192d
  [+] Decrypted string: encryptedUsername at 0x401944
  [+] Decrypted string: encryptedPassword at 0x40195b
  [+] Decrypted string: guid at 0x401972
  [+] Decrypted string: SELECT origin_url, username_value, password_value FROM logins at 0x401989
  [+] Decrypted string: SELECT name, value FROM autofill at 0x4019a2
  [+] Decrypted string: SELECT name_on_card, expiration_month, expiration_year, card_number_encrypt
  [+] Decrypted string: SELECT target_path, tab_url from downloads at 0x4019d0
  [+] Decrypted string: SELECT url FROM urls at 0x4019e7
  [+] Decrypted string: SELECT HOST_KEY, is_httponly, path, is_secure, (expires_utc/1000000)-116444
  [+] Decrypted string: \AppData\Roaming\FileZilla\recentservers.xml at 0x401a15
  [+] Decrypted string: <Host> at 0x401a2c
  [+] Decrypted string: <Port> at 0x401a43
  [+] Decrypted string: <User> at 0x401a5a
  [+] Decrypted string: <Pass encoding="base64"> at 0x401a71
  [+] Decrypted string: Soft: FileZilla
at 0x401a88
  [+] Decrypted string: Mozilla Firefox at 0x401a9f
  [+] Decrypted string: \Mozilla\Firefox\Profiles\ at 0x401ab6
  [+] Decrypted string: Pale Moon at 0x401acd
  [+] Decrypted string: \Moonchild Productions\Pale Moon\Profiles\ at 0x401ae4
  [+] Decrypted string: Google Chrome at 0x401afa
  [+] Decrypted string: \Google\Chrome\User Data\ at 0x401b11
  [+] Decrypted string: Chromium at 0x401b28
  [+] Decrypted string: \Chromium\User Data\ at 0x401b3f
  [+] Decrypted string: Amigo at 0x401b56
  [+] Decrypted string: \Amigo\User Data\ at 0x401b6d
  [+] Decrypted string: Torch at 0x401b84
  [+] Decrypted string: \Torch\User Data\ at 0x401b9b
  [+] Decrypted string: Comodo Dragon at 0x401bb1
  [+] Decrypted string: \Comodo\Dragon\User Data\ at 0x401bc8
  [+] Decrypted string: Epic Privacy Browser at 0x401bdf
  [+] Decrypted string: \Epic Privacy Browser\User Data\ at 0x401bf5
  [+] Decrypted string: Vivaldi at 0x401c0c
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[+] Decrypted string: \Vivaldi\User Data\ at 0x401c23
[+] Decrypted string: CocCoc at 0x401c3a
[+] Decrypted string: \CocCoc\Browser\User Data\ at 0x401c51
[+] Decrypted string: Cent Browser at 0x401c68
[+] Decrypted string: \CentBrowser\User Data\ at 0x401c7f
[+] Decrypted string: TorBro Browser at 0x401c96
[+] Decrypted string: \TorBro\Profile\ at 0x401cad
[+] Decrypted string: Chedot Browser at 0x401cc4
[+] Decrypted string: \Chedot\User Data\ at 0x401cdb
[+] Decrypted string: Brave_Old at 0x401cf2
[+] Decrypted string: \brave\ at 0x401d09
[+] Decrypted string: 7Star at 0x401d20
[+] Decrypted string: \7Star\7Star\User Data\ at 0x401d37
[+] Decrypted string: Microsoft Edge at 0x401d4e
[+] Decrypted string: \Microsoft\Edge\User Data\ at 0x401d65
[+] Decrypted string: 360 Browser at 0x401d7b
[+] Decrypted string: \360Browser\Browser\User Data\ at 0x401d92
[+] Decrypted string: QQBrowser at 0x401da9
[+] Decrypted string: \Tencent\QQBrowser\User Data\ at 0x401dc0
[+] Decrypted string: Opera at 0x401dd7
[+] Decrypted string: \Opera Software\Opera Stable\ at 0x401dee
[+] Decrypted string: OperaGX at 0x401e05
[+] Decrypted string: \Opera Software\Opera GX Stable\ at 0x401e1b
[+] Decrypted string: Local State at 0x401e31
[+] Decrypted string: Cookies at 0x401e48
[+] Decrypted string: TRUE at 0x401e5f
[+] Decrypted string: FALSE at 0x401e76
[+] Decrypted string: gdi32.dll at 0x401e8d
[+] Decrypted string: ole32.dll at 0x401ea4
[+] Decrypted string: user32.dll at 0x401ebb
[+] Decrypted string: psapi.dll at 0x401ed2
[+] Decrypted string: BCRYPT.DLL at 0x401ee9
[+] Decrypted string: BCryptCloseAlgorithmProvider at 0x401f00
[+] Decrypted string: BCryptDestroyKey at 0x401f17
[+] Decrypted string: BCryptOpenAlgorithmProvider at 0x401f2e
[+] Decrypted string: BCryptSetProperty at 0x401f45
[+] Decrypted string: BCryptGenerateSymmetricKey at 0x401f5c
[+] Decrypted string: BCryptDecrypt at 0x401f72
[+] Decrypted string: CRYPT32.DLL at 0x401f88
[+] Decrypted string: CryptUnprotectData at 0x401f9f
[+] Decrypted string: CryptStringToBinaryA at 0x401fb6
[+] Decrypted string: C:\ProgramData\nss3.dll at 0x401fcd
[+] Decrypted string: NSS_Init at 0x401fe4
[+] Decrypted string: NSS_Shutdown at 0x401ffb
[+] Decrypted string: PK11_GetInternalKeySlot at 0x402012
[+] Decrypted string: PK11_FreeSlot at 0x402028
[+] Decrypted string: PK11_Authenticate at 0x40203f
```

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[+] Decrypted string: PK11SDR_Decrypt at 0x402056
[+] Decrypted string: RegOpenKeyExA at 0x40206c
[+] Decrypted string: RegQueryValueExA at 0x402083
[+] Decrypted string: RegCloseKey at 0x402099
[+] Decrypted string: RegOpenKeyExW at 0x4020af
[+] Decrypted string: RegGetValueW at 0x4020c6
[+] Decrypted string: RegEnumKeyExA at 0x4020dc
[+] Decrypted string: RegGetValueA at 0x4020f3
[+] Decrypted string: GetCurrentHwProfileA at 0x40210a
[+] Decrypted string: wininet.dll at 0x402120
[+] Decrypted string: InternetCloseHandle at 0x402137
[+] Decrypted string: InternetReadFile at 0x40214e
[+] Decrypted string: HttpSendRequestA at 0x402165
[+] Decrypted string: HttpOpenRequestA at 0x40217c
[+] Decrypted string: InternetConnectA at 0x402193
[+] Decrypted string: InternetOpenA at 0x4021a9
[+] Decrypted string: HttpAddRequestHeadersA at 0x4021c0
[+] Decrypted string: HttpQueryInfoA at 0x4021d7
[+] Decrypted string: InternetSetFilePointer at 0x4021ee
[+] Decrypted string: InternetOpenUrlA at 0x402205
[+] Decrypted string: InternetSetOptionA at 0x40221c
[+] Decrypted string: DeleteUrlCacheEntry at 0x402233
[+] Decrypted string: CreateCompatibleBitmap at 0x40224a
[+] Decrypted string: SelectObject at 0x402261
[+] Decrypted string: BitBlt at 0x402278
[+] Decrypted string: DeleteObject at 0x40228f
[+] Decrypted string: CreateDCA at 0x4022a6
[+] Decrypted string: GetDeviceCaps at 0x4022bc
[+] Decrypted string: CreateCompatibleDC at 0x4022d3
[+] Decrypted string: CoCreateInstance at 0x4022ea
[+] Decrypted string: CoUninitialize at 0x402301
[+] Decrypted string: GetDesktopWindow at 0x402318
[+] Decrypted string: ReleaseDC at 0x40232f
[+] Decrypted string: GetKeyboardLayoutList at 0x402346
[+] Decrypted string: CharToOemA at 0x40235d
[+] Decrypted string: GetDC at 0x402374
[+] Decrypted string: wsprintfA at 0x40238b
[+] Decrypted string: EnumDisplayDevicesA at 0x4023a2
[+] Decrypted string: GetSystemMetrics at 0x4023b9
[+] Decrypted string: GetModuleFileNameExA at 0x4023d0
[+] Decrypted string: GetModuleBaseNameA at 0x4023e7
[+] Decrypted string: EnumProcessModules at 0x4023fe
[+] Decrypted string: ibnejdfjmmkpcnlpebklmnkoeoihofec at 0x402414
[+] Decrypted string: TronLink at 0x40242b
[+] Decrypted string: nkbihfbeogaeaoehlefnkodbefgpgknn at 0x402441
[+] Decrypted string: MetaMask at 0x402458
[+] Decrypted string: fhbohimaelbohpjbbldcngcnapndodjp at 0x40246e
```

```
[+] Decrypted string: BinanceChainWallet at 0x402485
[+] Decrypted string: ffnbelfdoeiohenkjibnmadjiehjhajb at 0x40249b
[+] Decrypted string: Yoroi at 0x4024b2
[+] Decrypted string: jbdaocneiiinmjbjlgalhcelgbejmnid at 0x4024c8
[+] Decrypted string: NiftyWallet at 0x4024de
[+] Decrypted string: afbcbjpbpfadlkmhmclhkeeodmamcflc at 0x4024f4
[+] Decrypted string: MathWallet at 0x40250b
[+] Decrypted string: hnfanknocfeofbddgcijnmhnfnkdnaad at 0x402521
[+] Decrypted string: Coinbase at 0x402538
[+] Decrypted string: hpglfhgfnhbgpjdenjgmdgoeiappafln at 0x40254e
[+] Decrypted string: Guarda at 0x402565
[+] Decrypted string: blnieiiffboillknjnepogjhkgnoapac at 0x40257b
[+] Decrypted string: EQUALWallet at 0x402591
[+] Decrypted string: cjelfplplebdjjenllpjcblmjkfcffne at 0x4025a7
[+] Decrypted string: JaxxLiberty at 0x4025bd
[+] Decrypted string: fihkakfobkmkjojpchpfgcmhfjnmnfpi at 0x4025d3
[+] Decrypted string: BitAppWallet at 0x4025ea
[+] Decrypted string: kncchdigobghenbbaddojjnnaogfppfj at 0x402600
[+] Decrypted string: iWallet at 0x402617
[+] Decrypted string: amkmjjmmflddogmhpjloimipbofnfjih at 0x40262d
[+] Decrypted string: Wombat at 0x402644
[+] Decrypted string: nlbmnnijcnlegkjjpcfjclmcfggfefdm at 0x40265a
[+] Decrypted string: MewCx at 0x402671
[+] Decrypted string: nanjmdknhkinifnkgdcggcfnhdaammmj at 0x402687
[+] Decrypted string: GuildWallet at 0x40269d
[+] Decrypted string: fnjhmkhhmkbjkkabndcnnogagogbneec at 0x4026b3
[+] Decrypted string: RoninWallet at 0x4026c9
[+] Decrypted string: cphhlgmgameodnhkjdmkpanlelnlohao at 0x4026df
[+] Decrypted string: NeoLine at 0x4026f6
[+] Decrypted string: nhnkbkgjikgcigadomkphalanndcapjk at 0x40270c
[+] Decrypted string: CloverWallet at 0x402723
[+] Decrypted string: kpfopkelmapcoipemfendmdcghnegimn at 0x402739
[+] Decrypted string: LiqualityWallet at 0x402750
[+] Decrypted string: aiifbnbfobpmeekipheeijimdpnlpgpp at 0x402766
[+] Decrypted string: Terra_Station at 0x40277c
[+] Decrypted string: dmkamcknogkgcdfhhbddcghachkejeap at 0x402792
[+] Decrypted string: Keplr at 0x4027a9
[+] Decrypted string: fhmfendgdocmcbmfikdcogofphimnkno at 0x4027bf
[+] Decrypted string: Sollet at 0x4027d6
[+] Decrypted string: cnmamaachppnkjgnildpdmkaakejnhae at 0x4027ec
[+] Decrypted string: AuroWallet at 0x402803
[+] Decrypted string: jojhfeoedkpkglbfimdfabpdfjaoolaf at 0x402819
[+] Decrypted string: PolymeshWallet at 0x402830
[+] Decrypted string: flpiciilemghbmfalicajoolhkkenfel at 0x402846
[+] Decrypted string: ICONex at 0x40285d
[+] Decrypted string: fnnegphlobjdpkhecapkijjdkgcjhkib at 0x402873
[+] Decrypted string: Harmony at 0x40288a
```

```
[+] Decrypted string: aeachknmefphepccionboohckonoeemg at 0x4028a0
[+] Decrypted string: Coin98 at 0x4028b7
[+] Decrypted string: cgeeodpfagjceefieflmdfphplkenlfk at 0x4028cd
[+] Decrypted string: EVER Wallet at 0x4028e3
[+] Decrypted string: pdadjkfkgcafgbceimcpbkalnfnepbnk at 0x4028f9
[+] Decrypted string: KardiaChain at 0x40290f
[+] Decrypted string: imloifkgjagghnncjkhggdhalmcnfklk at 0x402925
[+] Decrypted string: Trezor Password Manager at 0x40293c
[+] Decrypted string: acmacodkjbdgmoleebolmdjonilkdbch at 0x402952
[+] Decrypted string: Rabby at 0x402969
[+] Decrypted string: bfnaelmomeimhlpmgjnjophhpkkoljpa at 0x40297f
[+] Decrypted string: Phantom at 0x402996
[+] Decrypted string: ejbalbakoplchlghecdalmeeeajnimhm at 0x4029ac
[+] Decrypted string: odbfpeeihdkbihmopkbjmoonfanlbfcl at 0x4029c2
[+] Decrypted string: BraveWallet at 0x4029d8
[+] Decrypted string: fhilaheimglignddkjgofkcbgekhenbh at 0x4029ee
[+] Decrypted string: Oxygen (Atomic) at 0x402a05
[+] Decrypted string: mgffkfbidihjpoaomajlbgchddlicgpn at 0x402a1b
[+] Decrypted string: PaliWallet at 0x402a32
[+] Decrypted string: aodkkagnadcbobfpggfnjeongemjbjca at 0x402a48
[+] Decrypted string: BoltX at 0x402a5f
[+] Decrypted string: hmeobnfnfcmdkdcmlblgagmfpfboieaf at 0x402a75
[+] Decrypted string: XdefiWallet at 0x402a8b
[+] Decrypted string: lpfcbjknijpeeillifnkikgncikgfhdo at 0x402aa1
[+] Decrypted string: NamiWallet at 0x402ab8
[+] Decrypted string: dngmlblcodfobpdpecaadgfbcggfjfnm at 0x402ace
[+] Decrypted string: MaiarDeFiWallet at 0x402ae5
[+] Decrypted string: lpilbniiabackdjcionkobglmddfbcjo at 0x402afb
[+] Decrypted string: WavesKeeper at 0x402b11
[+] Decrypted string: bhhhlbepdkbapadjdnnojkbgioiodbic at 0x402b27
[+] Decrypted string: Solflare at 0x402b3e
[+] Decrypted string: dkdedlpgdmmkkfjabffeganieamfklkm at 0x402b54
[+] Decrypted string: CyanoWallet at 0x402b6a
[+] Decrypted string: hcflpincpppdclinealmandijcmnkbgn at 0x402b80
[+] Decrypted string: KHC at 0x402b97
[+] Decrypted string: mnfifefkajgofkcjkemidiaecocnkjeh at 0x402bad
[+] Decrypted string: TezBox at 0x402bc4
[+] Decrypted string: ookjlbkiijinhpmnjffcofjonbfbgaoc at 0x402bda
[+] Decrypted string: Temple at 0x402bf1
[+] Decrypted string: jnkelfanjkeadonecabehalmbgpfodjm at 0x402c07
[+] Decrypted string: Goby at 0x402c1e
[+] Decrypted string: bhghoamapcdpbohphigoooaddinpkbai at 0x402c34
[+] Decrypted string: Authenticator at 0x402c4a
[+] Decrypted string: gaedmjdfmmahhbjefcbgaolhhanlaolb at 0x402c60
[+] Decrypted string: Authy at 0x402c77
[+] Decrypted string: oeljdldpnmdbchonielidgobddfffla1 at 0x402c8d
[+] Decrypted string: EOS Authenticator at 0x402ca4
```

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[+] Decrypted string: ilgcnhelpchnceeipipijaljkblbcobl at 0x402cba
[+] Decrypted string: GAuth Authenticator at 0x402cd1
[+] Decrypted string: \com.liberty.jaxx\IndexedDB\file__0.indexeddb.leveldb\ at 0x402ce8
[+] Decrypted string: Jaxx_Desktop at 0x402cff
[+] Decrypted string: \Daedalus Mainnet\wallets\ at 0x402d16
[+] Decrypted string: Daedalus Mainnet at 0x402d2d
[+] Decrypted string: she*.sqlite at 0x402d43
[+] Decrypted string: \Blockstream\Green\wallets\ at 0x402d5a
[+] Decrypted string: Blockstream Green at 0x402d71
[+] Decrypted string: \WalletWasabi\Client\Wallets\ at 0x402d88
[+] Decrypted string: Wasabi Wallet at 0x402d9e
[+] Decrypted string: \discord\ at 0x402db5
[+] Decrypted string: Discord at 0x402dcc
[+] Decrypted string: Local Storage at 0x402de2
[+] Decrypted string: leveldb at 0x402df9
[+] Decrypted string: Session Storage at 0x402e10
[+] Decrypted string: \Soft\Discord\discord_tokens.txt at 0x402e26
[+] Decrypted string: dQw4w9WgXcQ: at 0x402e3d
[+] Decrypted string: Discord Token:  at 0x402e54
[+] Decrypted string: CreateThread at 0x402e6b
[+] Decrypted string: GlobalMemoryStatusEx at 0x402e82
[+] Decrypted string: IsWow64Process at 0x402e99
[+] Decrypted string: GetUserDefaultLocaleName at 0x402eb0
[+] Decrypted string: GetSystemInfo at 0x402ec6
[+] Decrypted string: WideCharToMultiByte at 0x402edd
[+] Decrypted string: LocalFree at 0x402ef4
[+] Decrypted string: HeapAlloc at 0x402f0b
[+] Decrypted string: GetProcessHeap at 0x402f22
[+] Decrypted string: CreateFileA at 0x402f38
[+] Decrypted string: GetFileSize at 0x402f4e
[+] Decrypted string: ReadFile at 0x402f65
[+] Decrypted string: CloseHandle at 0x402f7b
[+] Decrypted string: GetLogicalDriveStringsA at 0x402f92
[+] Decrypted string: lstrlenA at 0x402fa9
[+] Decrypted string: GetDriveTypeA at 0x402fbf
[+] Decrypted string: lstrcpyA at 0x402fd6
[+] Decrypted string: MultiByteToWideChar at 0x402fed
[+] Decrypted string: FindFirstFileA at 0x403004
[+] Decrypted string: FindNextFileA at 0x40301a
[+] Decrypted string: FindClose at 0x403031
[+] Decrypted string: GetLastError at 0x403048
[+] Decrypted string: lstrcpynA at 0x40305f
[+] Decrypted string: GlobalLock at 0x403076
[+] Decrypted string: GlobalSize at 0x40308d
[+] Decrypted string: FreeLibrary at 0x4030a3
[+] Decrypted string: GetLocaleInfoA at 0x4030ba
[+] Decrypted string: GetCurrentProcessId at 0x4030d1
```
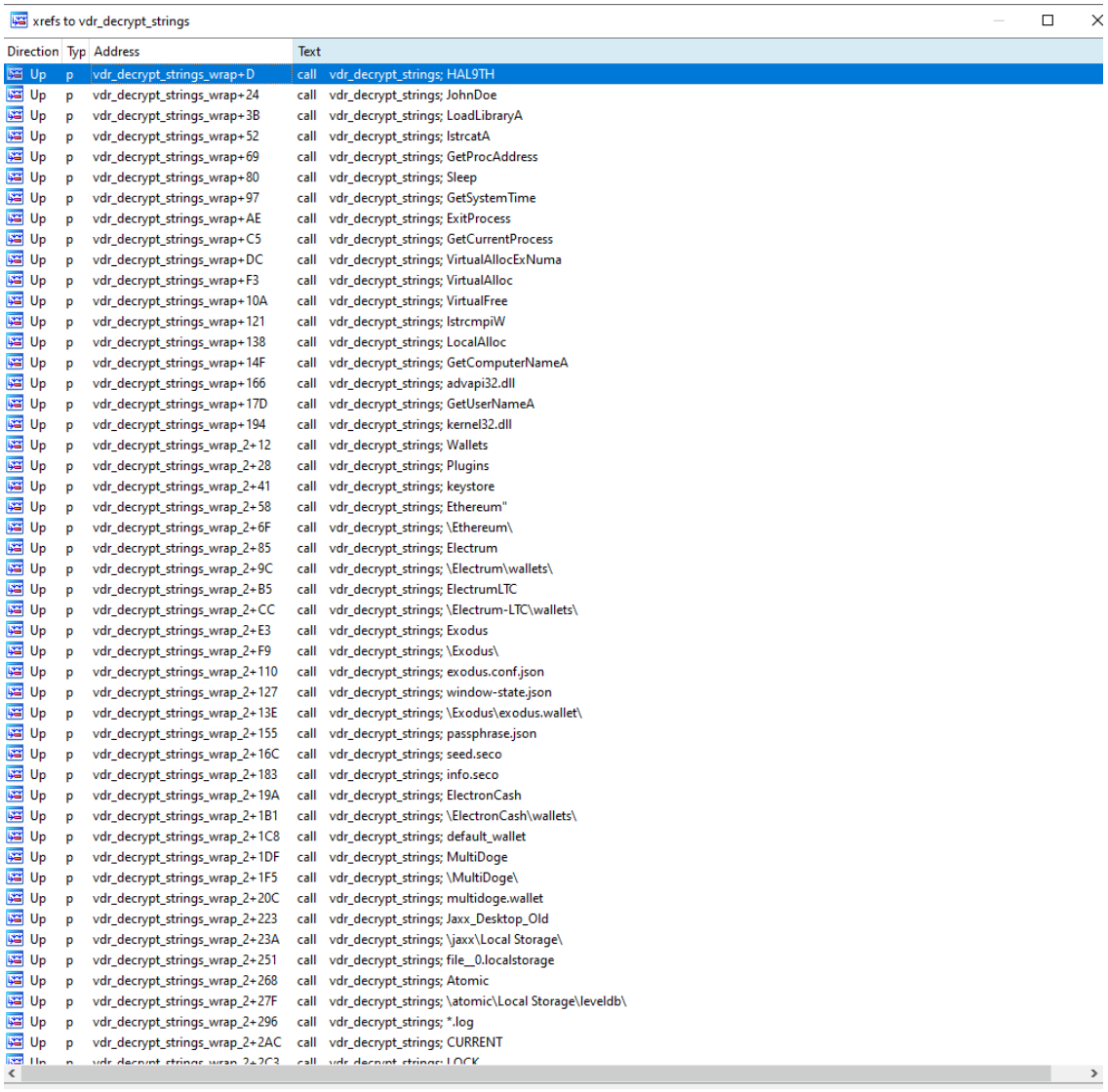

```
[+] Decrypted string: OpenProcess at 0x4030e7
[+] Decrypted string: GetFileSizeEx at 0x4030fd
[+] Decrypted string: GetTimeZoneInformation at 0x403114
[+] Decrypted string: TzSpecificLocalTimeToSystemTime at 0x40312b
[+] Decrypted string: CopyFileA at 0x403142
[+] Decrypted string: DeleteFileA at 0x403158
[+] Decrypted string: GetCurrentDirectoryA at 0x40316f
[+] Decrypted string: SetFilePointer at 0x403186
[+] Decrypted string: HeapFree at 0x40319d
[+] Decrypted string: SystemTimeToFileTime at 0x4031b4
[+] Decrypted string: GetLocalTime at 0x4031cb
[+] Decrypted string: SetFileTime at 0x4031e1
[+] Decrypted string: WriteFile at 0x4031f8
[+] Decrypted string: GetFileAttributesA at 0x40320f
[+] Decrypted string: GetFileAttributesW at 0x403226
[+] Decrypted string: LocalFileTimeToFileTime at 0x40323d
[+] Decrypted string: MapViewOfFile at 0x403253
[+] Decrypted string: UnmapViewOfFile at 0x40326a
[+] Decrypted string: FileTimeToSystemTime at 0x403281
[+] Decrypted string: CreateFileMappingA at 0x403298
[+] Decrypted string: GetFileInformationByHandle at 0x4032af
[+] Decrypted string: GetEnvironmentVariableA at 0x4032c6
[+] Decrypted string: SetEnvironmentVariableA at 0x4032dd
[+] Decrypted string: GetTickCount at 0x4032f4
[+] Decrypted string: OpenEventA at 0x40330b
[+] Decrypted string: CreateEventA at 0x403322
[+] Decrypted string: CreateToolhelp32Snapshot at 0x403339
[+] Decrypted string: Process32First at 0x403350
[+] Decrypted string: Process32Next at 0x403366
[+] Decrypted string: GetWindowsDirectoryA at 0x40337d
[+] Decrypted string: GetVolumeInformationA at 0x403394
[+] Decrypted string: shell32.dll at 0x4033aa
[+] Decrypted string: shlwapi.dll at 0x4033c0
[+] Decrypted string: dbghelp.dll at 0x4033d6
[+] Decrypted string: gdiplus.dll at 0x4033ec
[+] Decrypted string: CryptBinaryToStringA at 0x403403
[+] Decrypted string: RegEnumValueA at 0x403419
[+] Decrypted string: GetFileSecurityA at 0x403430
[+] Decrypted string: OpenProcessToken at 0x403447
[+] Decrypted string: DuplicateToken at 0x40345e
[+] Decrypted string: MapGenericMask at 0x403475
[+] Decrypted string: AccessCheck at 0x40348b
[+] Decrypted string: InternetCrackUrlA at 0x4034a2
[+] Decrypted string: CoInitialize at 0x4034b9
[+] Decrypted string: CreateStreamOnHGlobal at 0x4034d0
[+] Decrypted string: GetHGlobalFromStream at 0x4034e7
[+] Decrypted string: GetWindowRect at 0x4034fd
```

```
[+] Decrypted string: GetWindowDC at 0x403513
[+] Decrypted string: CloseWindow at 0x403529
[+] Decrypted string: ShellExecuteExA at 0x403540
[+] Decrypted string: SHFileOperationA at 0x403557
[+] Decrypted string: SHGetFolderPathA at 0x40356e
[+] Decrypted string: PathMatchSpecW at 0x403585
[+] Decrypted string: PathMatchSpecA at 0x40359c
[+] Decrypted string: StrCmpCA at 0x4035b3
[+] Decrypted string: StrCmpCW at 0x4035ca
[+] Decrypted string: StrStrA at 0x4035e1
[+] Decrypted string: PathFindFileNameA at 0x4035f8
[+] Decrypted string: SymMatchString at 0x40360f
[+] Decrypted string: GdipGetImageEncodersSize at 0x403626
[+] Decrypted string: GdipGetImageEncoders at 0x40363d
[+] Decrypted string: GdipCreateBitmapFromHBITMAP at 0x403654
[+] Decrypted string: GdiplusStartup at 0x40366b
[+] Decrypted string: GdiplusShutdown at 0x403682
[+] Decrypted string: GdipSaveImageToStream at 0x403699
[+] Decrypted string: GdipDisposeImage at 0x4036b0
[+] Decrypted string: GdipFree at 0x4036c7
[+] Decrypted string: sqlite3_open at 0x4036de
[+] Decrypted string: sqlite3_prepare_v2 at 0x4036f5
[+] Decrypted string: sqlite3_step at 0x40370c
[+] Decrypted string: sqlite3_column_text at 0x403723
[+] Decrypted string: sqlite3_finalize at 0x40373a
[+] Decrypted string: sqlite3_close at 0x403750
[+] Decrypted string: sqlite3_column_bytes at 0x403767
[+] Decrypted string: sqlite3_column_blob at 0x40377e
[+] Decrypted string: \Opera Software\ at 0x403795
[+] Decrypted string: \Opera Stable\ at 0x4037ac
[+] Decrypted string: \Opera GX Stable\ at 0x4037c3
[+] Decrypted string: \CryptoTab Browser\User Data\ at 0x4037da
[+] Decrypted string: CryptoTab Browser at 0x4037f1
[+] Decrypted string: \BraveSoftware\Brave-Browser\User Data\ at 0x403808
[+] Decrypted string: Brave at 0x40381f
[+] Decrypted string: \Thunderbird\Profiles\ at 0x403836
[+] Decrypted string: Thunderbird at 0x40384c
[+] Decrypted string: \Telegram Desktop\ at 0x403863
[+] Decrypted string: key_datas at 0x40387a
[+] Decrypted string: map* at 0x403891
[+] Decrypted string: D877F783D5D3EF8C* at 0x4038a8
[+] Decrypted string: A7FDF864FBC10B77* at 0x4038bf
[+] Decrypted string: A92DAA6EA6F891F2* at 0x4038d6
[+] Decrypted string: F8806DD0C461824F* at 0x4038ed
[+] Decrypted string: \Soft\Telegram\ at 0x403904
[+] Decrypted string: \passwords.txt at 0x40391b
[+] Decrypted string: "os_crypt":{"encrypted_key":" at 0x403932
```

```
[+] Decrypted string: Soft:  at 0x403949
[+] Decrypted string: Host:  at 0x403960
[+] Decrypted string: Login:  at 0x403977
[+] Decrypted string: Password:  at 0x40398e
[+] Decrypted string: Network at 0x4039a5
[+] Decrypted string: SELECT host, isHttpOnly, path, isSecure, expiry, name, value FROM moz_cooki
[+] Decrypted string: SELECT url FROM moz_places at 0x4039d3
[+] Decrypted string: SELECT fieldname, value FROM moz_formhistory at 0x4039ea
[+] Decrypted string: History at 0x403a01
[+] Decrypted string: cookies.sqlite at 0x403a18
[+] Decrypted string: formhistory.sqlite at 0x403a2f
[+] Decrypted string: places.sqlite at 0x403a45
[+] Decrypted string: *.localstorage at 0x403a5c
[+] Decrypted string: \Authy Desktop\Local Storage\ at 0x403a73
[+] Decrypted string: \Soft\Authy Desktop Old\ at 0x403a8a
[+] Decrypted string: \Authy Desktop\Local Storage\leveldb\ at 0x403aa1
[+] Decrypted string: \Soft\Authy Desktop\ at 0x403ab8
[+] Decrypted string: Soft: WinSCP at 0x403acf
[+] Decrypted string: HostName at 0x403ae6
[+] Decrypted string: PortNumber at 0x403afd
[+] Decrypted string: UserName at 0x403b14
[+] Decrypted string: Password at 0x403b2b
[+] Decrypted string: Security at 0x403b42
[+] Decrypted string: UseMasterPassword at 0x403b59
[+] Decrypted string: Local Extension Settings at 0x403b70
[+] Decrypted string: Sync Extension Settings at 0x403b87
[+] Decrypted string: IndexedDB at 0x403b9e
[+] Decrypted string: kjmoohlgokccodicjjfebfomlbljgfhk at 0x403bb4
[+] Decrypted string: RoninWalletEdge at 0x403bcb
[+] Decrypted string: sqlite3.dll at 0x403be1
[+] Decrypted string: Version:  at 0x403bf8
[+] Decrypted string: Date:  at 0x403c11
[+] Decrypted string: MachineID:  at 0x403c27
[+] Decrypted string: GUID:  at 0x403c3d
[+] Decrypted string: HWID:  at 0x403c53
[+] Decrypted string: Path:  at 0x403c69
[+] Decrypted string: Work Dir: In memory at 0x403c80
[+] Decrypted string: Windows:  at 0x403c97
[+] Decrypted string: Computer Name:  at 0x403cae
[+] Decrypted string: User Name:  at 0x403cc4
[+] Decrypted string: Display Resolution:  at 0x403cdb
[+] Decrypted string: Display Language:  at 0x403cf2
[+] Decrypted string: Keyboard Languages:  at 0x403d09
[+] Decrypted string: Local Time:  at 0x403d20
[+] Decrypted string: TimeZone:  at 0x403d39
[+] Decrypted string: [Hardware] at 0x403d4f
[+] Decrypted string: Processor:  at 0x403d65
```

```
[+] Decrypted string: CPU Count:  at 0x403d7b
[+] Decrypted string: RAM:  at 0x403d92
[+] Decrypted string: VideoCard:  at 0x403da8
[+] Decrypted string: [Processes] at 0x403dbe
[+] Decrypted string: [Software] at 0x403dd4
[+] Decrypted string: \information.txt at 0x403deb
[+] Decrypted string: %APPDATA% at 0x403e02
[+] Decrypted string: %LOCALAPPDATA% at 0x403e19
[+] Decrypted string: %USERPROFILE% at 0x403e2f
[+] Decrypted string: %DESKTOP% at 0x403e46
[+] Decrypted string: %DOCUMENTS% at 0x403e5c
[+] Decrypted string: %PROGRAMFILES% at 0x403e73
[+] Decrypted string: %PROGRAMFILES_86% at 0x403e8a
[+] Decrypted string: %RECENT% at 0x403ea1
[+] Decrypted string: %DRIVE_FIXED% at 0x403eb7
[+] Decrypted string: %DRIVE_REMOVABLE% at 0x403ece
[+] Decrypted string: *%RECENT%* at 0x403ee4
[+] Decrypted string: *%DRIVE_FIXED%* at 0x403efb
[+] Decrypted string: *%DRIVE_REMOVABLE%* at 0x403f12
[+] Decrypted string: C:\Windows\ at 0x403f28
[+] Decrypted string: C:\\Windows\ at 0x403f3f
[+] Decrypted string: C:\\\Windows\ at 0x403f55
[+] Decrypted string: Software\Valve\Steam at 0x403f6c
[+] Decrypted string: SteamPath at 0x403f83
[+] Decrypted string: ssfn* at 0x403f9a
[+] Decrypted string: config.vdf at 0x403fb0
[+] Decrypted string: DialogConfig.vdf at 0x403fc7
[+] Decrypted string: DialogConfigOverlay*.vdf at 0x403fde
[+] Decrypted string: libraryfolders.vdf at 0x403ff5
[+] Decrypted string: loginusers.vdf at 0x40400c
[+] Decrypted string: Binance Desktop at 0x404023
[+] Decrypted string: simple-storage.json at 0x40403a
[+] Decrypted string: .finger-print.fp at 0x404051
[+] Decrypted string: Bitcoin Core at 0x404068
[+] Decrypted string: \Bitcoin\wallets\ at 0x40407f
[+] Decrypted string: Bitcoin Core Old at 0x404096
[+] Decrypted string: \Bitcoin\ at 0x4040ad
[+] Decrypted string: wallet.dat at 0x4040c3
[+] Decrypted string: *wallet*.dat at 0x4040da
[+] Decrypted string: Dogecoin at 0x4040f1
[+] Decrypted string: \Dogecoin\ at 0x404107
[+] Decrypted string: Raven Core at 0x40411d
[+] Decrypted string: \Raven\ at 0x404134
[+] Decrypted string: Ledger Live at 0x40414a
```



The global variables are renamed corresponding to the decoded strings as follows:

```
// #STR: "MNLNPK", "YPFTTRV", "G6MUFPYIQNJQ", "BNQBVR82", ".=%053Ls", "DPKUO540BD4R2J", "RMPZX", "U6
const CHAR *__stdcall vdr_decrypt_strings_wrap()
{
  // [COLLAPSED LOCAL DECLARATIONS. PRESS KEYPAD CTRL-"+" TO EXPAND]

  str_HAL9TH = vdr_decrypt_strings(6u, &xor_key, "MNLNPK");
  str_JohnDoe = vdr_decrypt_strings(7u, byte_43802C, "YPFTTRV");
  str_LoadLibraryA = vdr_decrypt_strings(0xCu, str_Y1903, "G6MUFPYIQNJQ");
  str_lstrcatA = vdr_decrypt_strings(8u, ".=%053Ls", "BNQBVR82");
  str_GetProcAddress = vdr_decrypt_strings(0xEu, byte_43807C, "DPKUO540BD4R2J");
  str_Sleep = vdr_decrypt_strings(5u, byte_438094, "RMPZX");
  str_GetSystemTime = vdr_decrypt_strings(0xDu, byte_4380AC, "U6869B6N6IOTC");
  str_ExitProcess = vdr_decrypt_strings(0xBu, byte_4380C8, "VZS0W2FKU7H");
  str_GetCurrentProcess = vdr_decrypt_strings(0x11u, str_6F, "MS2Y26EV53O6FTKSR");
  str_VirtualAllocExNuma = vdr_decrypt_strings(0x12u, byte_438110, "R8SXT26D010WUN981T");
  str_VirtualAlloc = vdr_decrypt_strings(0xCu, str_4, "QJIVAD2YIH2N");
```

```
  str_VirtualFree = vdr_decrypt_strings(0xBu, byte_438150, "HLKX3WPT306");
  str_lstrcmpiW = vdr_decrypt_strings(9u, ":11<[!!9o", "VBEN8LQP8");
  str_LocalAlloc = vdr_decrypt_strings(0xAu, byte_438180, "N93IJ58O45");
  str_GetComputerNameA = vdr_decrypt_strings(0x10u, byte_4381A0, "UYKNTPM7TMTH00NX");
  str_advapi32_dll = vdr_decrypt_strings(0xCu, str_5QFUX, "T504N1249IRB");
  str_GetUserNameA = vdr_decrypt_strings(0xCu, str_R, "N7XAZ7FHKXV8");
  result = vdr_decrypt_strings(0xCu, "=+D-**zq\x1B3 (", "VN6COFIC5WLD");// kernel32.dll
  str_kernel32_dll = result;
  return result;
}
```

Rename global vars related to API functions

Next, vidar will use the **GetProcAddress** function to get the addresses of all the APIs it uses during execution. We can write an **IDAPython** script to parse the list of decrypted API functions and perform renaming of global variables.

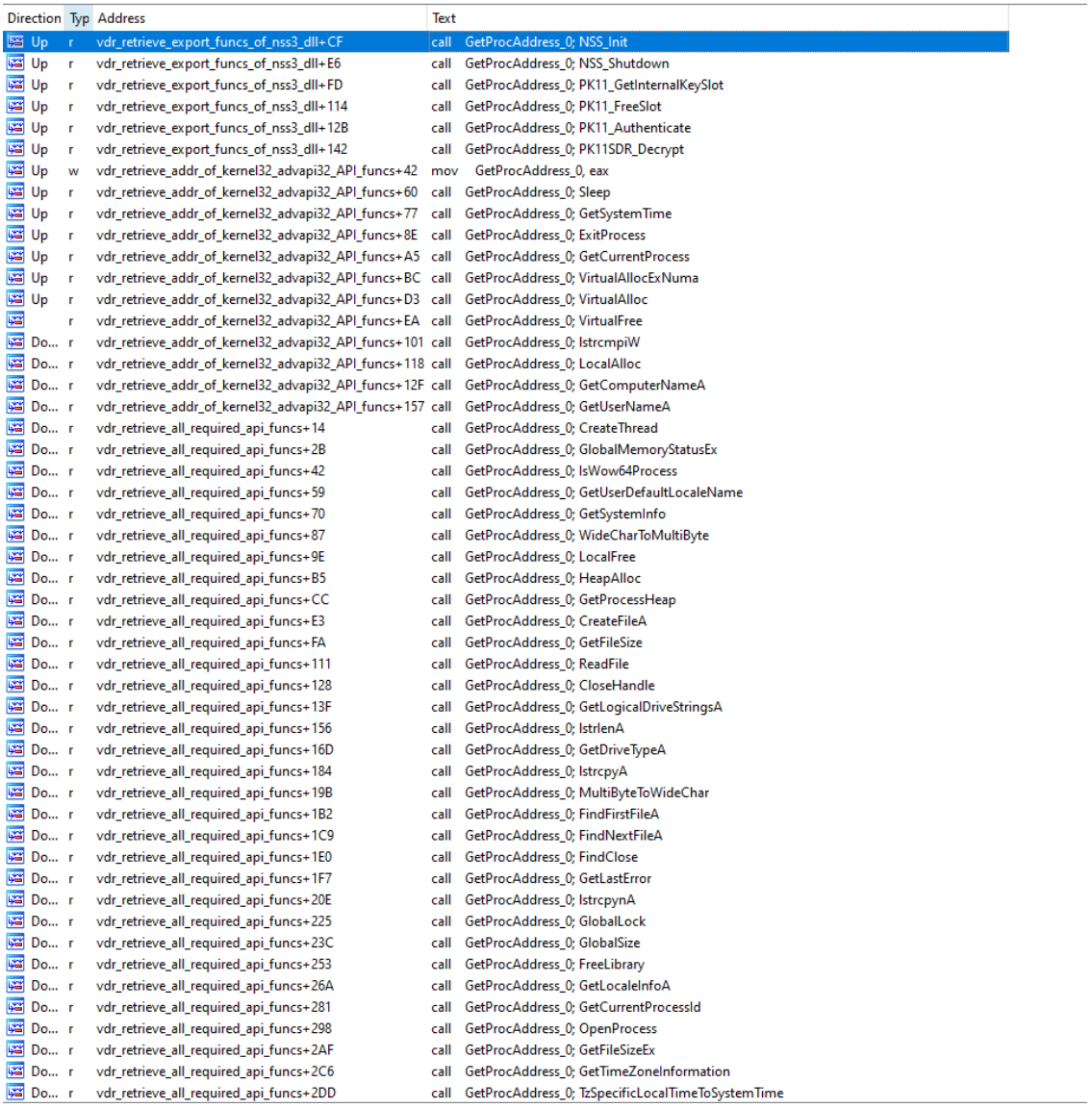
Here are the results:

```
[*] Trying to rename global var to API function name:
   [+] Set API name: NSS_Init at 0x414ae3
   [+] Set API name: NSS_Shutdown at 0x414afa
   [+] Set API name: PK11_GetInternalKeySlot at 0x414b11
   [+] Set API name: PK11_FreeSlot at 0x414b28
   [+] Set API name: PK11_Authenticate at 0x414b3f
   [+] Set API name: PK11SDR_Decrypt at 0x414b56
   [+] Set API name: PK11SDR_Decrypt at 0x41a9b3
   [+] Set API name: PK11SDR_Decrypt at 0x41a9b3
   [+] Set API name: Sleep at 0x41a9d1
   [+] Set API name: GetSystemTime at 0x41a9e8
   [+] Set API name: ExitProcess at 0x41a9ff
   [+] Set API name: GetCurrentProcess at 0x41aa16
   [+] Set API name: VirtualAllocExNuma at 0x41aa2d
   [+] Set API name: VirtualAlloc at 0x41aa44
   [+] Set API name: VirtualFree at 0x41aa5b
   [+] Set API name: lstrcmpiW at 0x41aa72
   [+] Set API name: LocalAlloc at 0x41aa89
   [+] Set API name: GetComputerNameA at 0x41aaa0
   [+] Set API name: GetComputerNameA at 0x41aaa0
   [+] Set API name: GetUserNameA at 0x41aac8
   [+] Set API name: CreateThread at 0x41aaeb
   [+] Set API name: GlobalMemoryStatusEx at 0x41ab02
   [+] Set API name: IsWow64Process at 0x41ab19
   [+] Set API name: GetUserDefaultLocaleName at 0x41ab30
   [+] Set API name: GetSystemInfo at 0x41ab47
   [+] Set API name: WideCharToMultiByte at 0x41ab5e
```

```
[+] Set API name: LocalFree at 0x41ab75
[+] Set API name: HeapAlloc at 0x41ab8c
[+] Set API name: GetProcessHeap at 0x41aba3
[+] Set API name: CreateFileA at 0x41abba
[+] Set API name: GetFileSize at 0x41abd1
[+] Set API name: ReadFile at 0x41abe8
[+] Set API name: CloseHandle at 0x41abff
[+] Set API name: GetLogicalDriveStringsA at 0x41ac16
[+] Set API name: lstrlenA at 0x41ac2d
[+] Set API name: GetDriveTypeA at 0x41ac44
[+] Set API name: lstrcpyA at 0x41ac5b
[+] Set API name: MultiByteToWideChar at 0x41ac72
[+] Set API name: FindFirstFileA at 0x41ac89
[+] Set API name: FindNextFileA at 0x41aca0
[+] Set API name: FindClose at 0x41acb7
[+] Set API name: GetLastError at 0x41acce
[+] Set API name: lstrcpynA at 0x41ace5
[+] Set API name: GlobalLock at 0x41acfc
[+] Set API name: GlobalSize at 0x41ad13
[+] Set API name: FreeLibrary at 0x41ad2a
[+] Set API name: GetLocaleInfoA at 0x41ad41
[+] Set API name: GetCurrentProcessId at 0x41ad58
[+] Set API name: OpenProcess at 0x41ad6f
[+] Set API name: GetFileSizeEx at 0x41ad86
[+] Set API name: GetTimeZoneInformation at 0x41ad9d
[+] Set API name: TzSpecificLocalTimeToSystemTime at 0x41adb4
[+] Set API name: CopyFileA at 0x41adcb
[+] Set API name: DeleteFileA at 0x41ade2
[+] Set API name: GetCurrentDirectoryA at 0x41adf9
[+] Set API name: SetFilePointer at 0x41ae10
[+] Set API name: HeapFree at 0x41ae27
[+] Set API name: SystemTimeToFileTime at 0x41ae3e
[+] Set API name: GetLocalTime at 0x41ae55
[+] Set API name: SetFileTime at 0x41ae6c
[+] Set API name: WriteFile at 0x41ae83
[+] Set API name: GetFileAttributesA at 0x41ae9a
[+] Set API name: GetFileAttributesW at 0x41aeb1
[+] Set API name: LocalFileTimeToFileTime at 0x41aec8
[+] Set API name: MapViewOfFile at 0x41aedf
[+] Set API name: UnmapViewOfFile at 0x41aef6
[+] Set API name: FileTimeToSystemTime at 0x41af0d
[+] Set API name: CreateFileMappingA at 0x41af24
[+] Set API name: GetFileInformationByHandle at 0x41af3b
[+] Set API name: GetEnvironmentVariableA at 0x41af52
[+] Set API name: SetEnvironmentVariableA at 0x41af69
[+] Set API name: GetTickCount at 0x41af80
[+] Set API name: OpenEventA at 0x41af97
```

```
[+] Set API name: CreateEventA at 0x41afae
[+] Set API name: CreateToolhelp32Snapshot at 0x41afc5
[+] Set API name: Process32First at 0x41afdc
[+] Set API name: Process32Next at 0x41aff3
[+] Set API name: GetWindowsDirectoryA at 0x41b00a
[+] Set API name: GetVolumeInformationA at 0x41b021
[+] Set API name: BCryptCloseAlgorithmProvider at 0x41b0fb
[+] Set API name: BCryptDestroyKey at 0x41b112
[+] Set API name: BCryptOpenAlgorithmProvider at 0x41b129
[+] Set API name: BCryptSetProperty at 0x41b140
[+] Set API name: BCryptGenerateSymmetricKey at 0x41b157
[+] Set API name: BCryptDecrypt at 0x41b16e
[+] Set API name: CryptUnprotectData at 0x41b189
[+] Set API name: CryptBinaryToStringA at 0x41b1a0
[+] Set API name: CryptStringToBinaryA at 0x41b1b7
[+] Set API name: RegOpenKeyExA at 0x41b1d6
[+] Set API name: RegQueryValueExA at 0x41b1ed
[+] Set API name: RegCloseKey at 0x41b204
[+] Set API name: RegOpenKeyExW at 0x41b21b
[+] Set API name: RegGetValueW at 0x41b232
[+] Set API name: RegEnumKeyExA at 0x41b249
[+] Set API name: RegGetValueA at 0x41b260
[+] Set API name: GetUserNameA at 0x41b277
[+] Set API name: GetCurrentHwProfileA at 0x41b28e
[+] Set API name: RegEnumValueA at 0x41b2a5
[+] Set API name: GetFileSecurityA at 0x41b2bc
[+] Set API name: OpenProcessToken at 0x41b2d3
[+] Set API name: DuplicateToken at 0x41b2ea
[+] Set API name: MapGenericMask at 0x41b301
[+] Set API name: AccessCheck at 0x41b318
[+] Set API name: InternetCloseHandle at 0x41b337
[+] Set API name: InternetReadFile at 0x41b34e
[+] Set API name: HttpSendRequestA at 0x41b365
[+] Set API name: HttpOpenRequestA at 0x41b37c
[+] Set API name: InternetConnectA at 0x41b393
[+] Set API name: InternetOpenA at 0x41b3aa
[+] Set API name: HttpAddRequestHeadersA at 0x41b3c1
[+] Set API name: HttpQueryInfoA at 0x41b3d8
[+] Set API name: InternetSetFilePointer at 0x41b3ef
[+] Set API name: InternetOpenUrlA at 0x41b406
[+] Set API name: InternetSetOptionA at 0x41b41d
[+] Set API name: DeleteUrlCacheEntry at 0x41b434
[+] Set API name: InternetCrackUrlA at 0x41b44b
[+] Set API name: CreateCompatibleBitmap at 0x41b46a
[+] Set API name: SelectObject at 0x41b481
[+] Set API name: BitBlt at 0x41b498
[+] Set API name: DeleteObject at 0x41b4af
```

```
[+] Set API name: CreateDCA at 0x41b4c6
[+] Set API name: GetDeviceCaps at 0x41b4dd
[+] Set API name: CreateCompatibleDC at 0x41b4f4
[+] Set API name: CoCreateInstance at 0x41b50f
[+] Set API name: CoUninitialize at 0x41b526
[+] Set API name: CoInitialize at 0x41b53d
[+] Set API name: CreateStreamOnHGlobal at 0x41b554
[+] Set API name: GetHGlobalFromStream at 0x41b56b
[+] Set API name: GetDesktopWindow at 0x41b58a
[+] Set API name: ReleaseDC at 0x41b5a1
[+] Set API name: GetKeyboardLayoutList at 0x41b5b8
[+] Set API name: CharToOemA at 0x41b5cf
[+] Set API name: GetDC at 0x41b5e6
[+] Set API name: wsprintfA at 0x41b5fd
[+] Set API name: EnumDisplayDevicesA at 0x41b614
[+] Set API name: GetSystemMetrics at 0x41b62b
[+] Set API name: GetWindowRect at 0x41b642
[+] Set API name: GetWindowDC at 0x41b659
[+] Set API name: CloseWindow at 0x41b670
[+] Set API name: GetModuleFileNameExA at 0x41b68b
[+] Set API name: GetModuleBaseNameA at 0x41b6a2
[+] Set API name: EnumProcessModules at 0x41b6b9
[+] Set API name: ShellExecuteExA at 0x41b6d4
[+] Set API name: SHFileOperationA at 0x41b6eb
[+] Set API name: SHGetFolderPathA at 0x41b702
[+] Set API name: PathMatchSpecW at 0x41b721
[+] Set API name: PathMatchSpecA at 0x41b738
[+] Set API name: StrCmpCA at 0x41b74f
[+] Set API name: StrCmpCW at 0x41b766
[+] Set API name: StrStrA at 0x41b77d
[+] Set API name: PathFindFileNameA at 0x41b794
[+] Set API name: SymMatchString at 0x41b7af
[+] Set API name: GdipGetImageEncodersSize at 0x41b7ce
[+] Set API name: GdipGetImageEncoders at 0x41b7e5
[+] Set API name: GdipCreateBitmapFromHBITMAP at 0x41b7fc
[+] Set API name: GdiplusStartup at 0x41b813
[+] Set API name: GdiplusShutdown at 0x41b82a
[+] Set API name: GdipSaveImageToStream at 0x41b841
[+] Set API name: GdipDisposeImage at 0x41b858
[+] Set API name: GdipFree at 0x41b86f
```



Direction	Typ	Address	Text
Up	r	vdr_retrieve_export_funcs_of_nss3_dll+CF	call GetProcAddress_0; NSS_Init
Up	r	vdr_retrieve_export_funcs_of_nss3_dll+E6	call GetProcAddress_0; NSS_Shutdown
Up	r	vdr_retrieve_export_funcs_of_nss3_dll+FD	call GetProcAddress_0; PK11_GetInternalKeySlot
Up	r	vdr_retrieve_export_funcs_of_nss3_dll+114	call GetProcAddress_0; PK11_FreeSlot
Up	r	vdr_retrieve_export_funcs_of_nss3_dll+12B	call GetProcAddress_0; PK11_Authenticate
Up	r	vdr_retrieve_export_funcs_of_nss3_dll+142	call GetProcAddress_0; PK11SDR_Decrypt
Up	w	vdr_retrieve_addr_of_kernel32_advapi32_API_funcs+42	mov GetProcAddress_0, eax
Up	r	vdr_retrieve_addr_of_kernel32_advapi32_API_funcs+60	call GetProcAddress_0; Sleep
Up	r	vdr_retrieve_addr_of_kernel32_advapi32_API_funcs+77	call GetProcAddress_0; GetSystemTime
Up	r	vdr_retrieve_addr_of_kernel32_advapi32_API_funcs+8E	call GetProcAddress_0; ExitProcess
Up	r	vdr_retrieve_addr_of_kernel32_advapi32_API_funcs+A5	call GetProcAddress_0; GetCurrentProcess
Up	r	vdr_retrieve_addr_of_kernel32_advapi32_API_funcs+BC	call GetProcAddress_0; VirtualAllocExNuma
Up	r	vdr_retrieve_addr_of_kernel32_advapi32_API_funcs+D3	call GetProcAddress_0; VirtualAlloc
	r	vdr_retrieve_addr_of_kernel32_advapi32_API_funcs+EA	call GetProcAddress_0; VirtualFree
Do...	r	vdr_retrieve_addr_of_kernel32_advapi32_API_funcs+101	call GetProcAddress_0; lstrcmpiW
Do...	r	vdr_retrieve_addr_of_kernel32_advapi32_API_funcs+118	call GetProcAddress_0; LocalAlloc
Do...	r	vdr_retrieve_addr_of_kernel32_advapi32_API_funcs+12F	call GetProcAddress_0; GetComputerNameA
Do...	r	vdr_retrieve_addr_of_kernel32_advapi32_API_funcs+157	call GetProcAddress_0; GetUserNameA
Do...	r	vdr_retrieve_all_required_api_funcs+14	call GetProcAddress_0; CreateThread
Do...	r	vdr_retrieve_all_required_api_funcs+2B	call GetProcAddress_0; GlobalMemoryStatusEx
Do...	r	vdr_retrieve_all_required_api_funcs+42	call GetProcAddress_0; IsWow64Process
Do...	r	vdr_retrieve_all_required_api_funcs+59	call GetProcAddress_0; GetUserDefaultLocaleName
Do...	r	vdr_retrieve_all_required_api_funcs+70	call GetProcAddress_0; GetSystemInfo
Do...	r	vdr_retrieve_all_required_api_funcs+87	call GetProcAddress_0; WideCharToMultiByte
Do...	r	vdr_retrieve_all_required_api_funcs+9E	call GetProcAddress_0; LocalFree
Do...	r	vdr_retrieve_all_required_api_funcs+B5	call GetProcAddress_0; HeapAlloc
Do...	r	vdr_retrieve_all_required_api_funcs+CC	call GetProcAddress_0; GetProcessHeap
Do...	r	vdr_retrieve_all_required_api_funcs+E3	call GetProcAddress_0; CreateFileA
Do...	r	vdr_retrieve_all_required_api_funcs+FA	call GetProcAddress_0; GetFileSize
Do...	r	vdr_retrieve_all_required_api_funcs+111	call GetProcAddress_0; ReadFile
Do...	r	vdr_retrieve_all_required_api_funcs+128	call GetProcAddress_0; CloseHandle
Do...	r	vdr_retrieve_all_required_api_funcs+13F	call GetProcAddress_0; GetLogicalDriveStringsA
Do...	r	vdr_retrieve_all_required_api_funcs+156	call GetProcAddress_0; lstrlenA
Do...	r	vdr_retrieve_all_required_api_funcs+16D	call GetProcAddress_0; GetDriveTypeA
Do...	r	vdr_retrieve_all_required_api_funcs+184	call GetProcAddress_0; lstrcpyA
Do...	r	vdr_retrieve_all_required_api_funcs+19B	call GetProcAddress_0; MultiByteToWideChar
Do...	r	vdr_retrieve_all_required_api_funcs+1B2	call GetProcAddress_0; FindFirstFileA
Do...	r	vdr_retrieve_all_required_api_funcs+1C9	call GetProcAddress_0; FindNextFileA
Do...	r	vdr_retrieve_all_required_api_funcs+1E0	call GetProcAddress_0; FindClose
Do...	r	vdr_retrieve_all_required_api_funcs+1F7	call GetProcAddress_0; GetLastError
Do...	r	vdr_retrieve_all_required_api_funcs+20E	call GetProcAddress_0; lstrcpynA
Do...	r	vdr_retrieve_all_required_api_funcs+225	call GetProcAddress_0; GlobalLock
Do...	r	vdr_retrieve_all_required_api_funcs+23C	call GetProcAddress_0; GlobalSize
Do...	r	vdr_retrieve_all_required_api_funcs+253	call GetProcAddress_0; FreeLibrary
Do...	r	vdr_retrieve_all_required_api_funcs+26A	call GetProcAddress_0; GetLocaleInfoA
Do...	r	vdr_retrieve_all_required_api_funcs+281	call GetProcAddress_0; GetCurrentProcessId
Do...	r	vdr_retrieve_all_required_api_funcs+298	call GetProcAddress_0; OpenProcess
Do...	r	vdr_retrieve_all_required_api_funcs+2AF	call GetProcAddress_0; GetFileSizeEx
Do...	r	vdr_retrieve_all_required_api_funcs+2C6	call GetProcAddress_0; GetTimeZoneInformation
Do...	r	vdr_retrieve_all_required_api_funcs+2DD	call GetProcAddress_0; TzSpecificLocalTimeToSystemTime

```
FARPROC __stdcall vdr_retrieve_addr_of_kernel32_advapi32_API_funcs()
{
  // [COLLAPSED LOCAL DECLARATIONS. PRESS KEYPAD CTRL-"+" TO EXPAND]

  kernel32_dll_hdl = LoadLibraryA(str_kernel32_dll);
  g_kernel32_dll_hdl = kernel32_dll_hdl;
  if ( kernel32_dll_hdl )
  {
    LoadLibraryA_1 = GetProcAddress(kernel32_dll_hdl, str_LoadLibraryA);
    GetProcAddress_0 = GetProcAddress(g_kernel32_dll_hdl, str_GetProcAddress);
    lstrcatA = GetProcAddress_0(g_kernel32_dll_hdl, str_lstrcatA);
    Sleep_1 = GetProcAddress_0(g_kernel32_dll_hdl, str_Sleep);
    GetSystemTime = GetProcAddress_0(g_kernel32_dll_hdl, str_GetSystemTime);
    ExitProcess_1 = GetProcAddress_0(g_kernel32_dll_hdl, str_ExitProcess);
    GetCurrentProcess_1 = GetProcAddress_0(g_kernel32_dll_hdl, str_GetCurrentProcess);
    VirtualAllocExNuma = GetProcAddress_0(g_kernel32_dll_hdl, str_VirtualAllocExNuma);
    VirtualAlloc = GetProcAddress_0(g_kernel32_dll_hdl, str_VirtualAlloc);
```

```
    VirtualFree = GetProcAddress_0(g_kernel32_dll_hdl, str_VirtualFree);
    *lstrcmpiW = GetProcAddress_0(g_kernel32_dll_hdl, str_lstrcmpiW);
    LocalAlloc_1 = GetProcAddress_0(g_kernel32_dll_hdl, str_LocalAlloc);
    GetComputerNameA = GetProcAddress_0(g_kernel32_dll_hdl, str_GetComputerNameA);
  }
  result = LoadLibraryA_1(str_advapi32_dll);
  g_advapi32_dll_hdl = result;
  if ( !result )
  {
    return result;
  }
  result = GetProcAddress_0(result, str_GetUserNameA);
  GetUserNameA_1 = result;
  return result;
}
```

Some of other VidarStealer codes here: https://github.com/m4now4r/VidarStealer/tree/main/some%20pseudo-code

End!

m4n0w4r

Source: https://kienmanowar.wordpress.com/2022/12/17/quicknote-vidarstealer-analysis/