

Evolution of

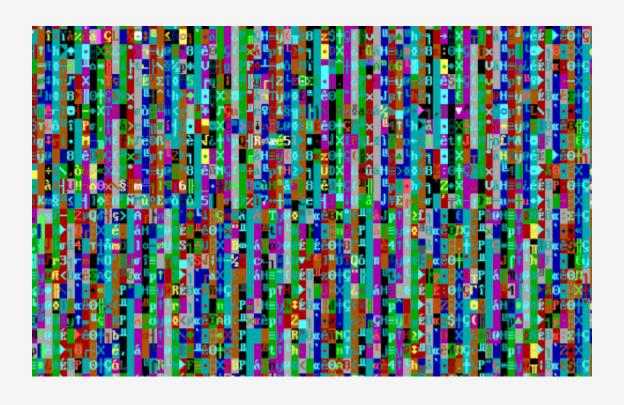
APTS



Θανάσης Διόγος ISC2 Hellenic Chapter Trustwave Head of EMEA IR/Forensics











```
AMBULC COM
                    1,006 11-22-13 1:12a
Press any key to continue . . .
(continuing C:\DOS)
ASSIGN COM
                    6,399 05-31-94
                                    6:22a
CW
        COM
                      716 05-31-94
                                    6:22a
GRAFTABL COM
                   11,205 05-31-94
                                    6:22a
HIRROR COM
                                   6:22a
                   18,281 85-31-94
HSHERC COM-
                    6,934 05-31-94
                                   6:22a
PRINTFIX COM
                      234 65-31-94
                                   6:22a
DOSSHELL COM-
                    4,620 05-31-94 6:22a
      26 file(x)
                        372,682 bytes
                    124,936,192 bytes free
C:\D0S>dir loadfix
Volume in drive C is MS-DOS_6
Volume Serial Number is 4912-7931
Directory of C:NDOS
LOADFIX COM
                    1,927 05-31-94 6:22a
       i file(x)
                          1,927 bytes
                    124,936,192 bytes free
C: NDOS_{-}
```





```
TTTT
                        TTT
111
                       TTTTT
111
                       11111
111 111
            11111
                       11111
11111 1111
                111
                        111
TTT
      TTT
            TTTTTTT
***
           *** ***
         version A
```

Botnets



Botnets

- Comma Summary
Botnet:

→ Online bots

Profile

Options Logout

Remote commands

Search with template Uploaded files

- Stealing Logs:

- Abusin

— Etc.



Forward >>

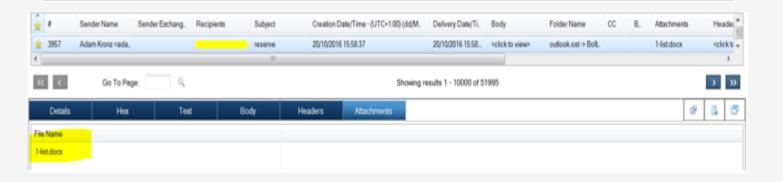
# CompID	Ver/Botnet	IP	Country	Socks	Proxy	Screenshot	Kill OS	Online time l	Lag
1 user_1d9ce10c45_01d6e996	1.1.1.0/main	213.	RU	213.1 38345	213.1 :10051	View	Kill	96:13:39	0.968
2 fic_000ebb9b	1.1.2.2/main	94.1	41	94.1 77 77 1025	94. 3:34451	View	Kill	96:32:47	0.765
3 family_01207eeb	1.1.2.2/main	86.1	GB	86.1 1027	86. 22093	View	Kill	98:58:44	0.328
4 d719sf2j_0019064f	1.1.2.2/main	87.2	GB	87 754 75 70 1025	-	View	Kill	96:49:07	0.235
5 218_u_1_00ac3738	1.1.2.2/main	195	RU	19====1025	19510359	View	Kill	96:27:06	0.141
6 illusion_f2243e_00576c9d	1.1.2.2/main	124	TH	124. 11025	-	View	Kill	104:12:36	0.844
7 brian_ally_0228d16c	1.1.2.2/main	82	GB	82.1 1027	-	View	Kill	97:49:55	0.313
8 telekit_7482b02_00b07900	1.1.2.2/main	94	41	94.1 1025	94,177,0.750:33846	View	Kill	98:00:42	0.157
9 your_jaxvxjzedk_00a364bc	1.1.2.2/main	82.	GB	82 7:1025	-	View	Kill	96:10:44 2	26.75
10 home_881b31b48d_00170f87	1.1.2.2/main	58.5.5.50	TH	58.5 1048	58.933333	View	Kill	103:14:13 1	1.042
11 your_	1.1.2.2/main	68		68.3 :1025	68.3 17992	View	Kill	104:12:03	0.578
12 blackxp_000325d8	1.1.2.2/main	124	TH	-	124. 47:37760	-		98:38:15	0.187
13 b154bc1afca840e_00397f1d	1.1.2.2/main	77.===	RU	77.5 7:1027	77.5 37:14804	View	Kill	104:11:25	0.078
14 xp_0051dba0	1.1.2.2/main	58	TH	58.2 1025	58.8 37112	View	Kill	97:37:17 3	3.938
15 desktop_02659af2	1.1.2.2/main	190	AR	190.1 1025	190.15749-78:32639	View	Kill	107:20:49	0.65
16 davie_0085eb43	1.1.2.2/main	62	GB	62.75 1036	62.337719	View	Kill	96:34:49	0.188
17 1_d07192a7a4944_0025f597	1.1.2.2/main	95		95.1=====:1026	95. 23:10385	View	Kill	100:53:01 3	3.25
18 microsof_886bea_01bd77ea	1.1.2.2/main	92		92.177 -95-75-1025	92,1110278	View	Kill	96:36:01 3	3.26
19 mircik_00069abc	1.1.2.2/main	193	SK	193.8 1025	193. 2664	View	Kill	96:41:51	0.18
20 ammo_00135651	1.1.2.2/main	82.	GB	82 1025	82.33311115589	View	Kill	96:31:56	0.156
21 freedom_867dc59_000050cf	1.1.2.2/main	82.	RU	82. 1027	-	View	Kill	98:18:30	0.078
22 pc_fec662b1943d_00153eae	1.1.2.2/main	86.2	GB	861027	-	View	Kill	104:11:26	0.15
23 pen_003f0760	1.1.2.2/main	95.	44	95.23:1025	95.2331003	View	Kill	96:39:22	0.312
24 home_	1.1.2.2/main	24.	US.	24. 5:54537	24.4 5:27755	View	Kill	104:12:37	0.624
25 bsaftpz_7e2bb74_017743b0	1.1.2.2/main	89	HU	89. 1025	89. 18514	View	Kill	97:55:18	0.266
26 client_df77fa69_0d6210d8	1.1.2.2/main	89.	RO	89.4===:1025	89.45.59:38462	View	Kill	96:14:16	0.70
27 acer_4d30879900_004dbca2	1.1.2.2/main	202	TH		202. 25983	20	-	97:16:11	0
28 abc_67365a4e5b6_00204191	1.1.2.2/main	115		115. 1027	115.6 34129	View	Kill	98:45:29 8	8.437
29 skz_fd19c55e0a2_003d5664	1.1.2.2/main	61.	TH	61. :1025	61,9 35502	View	Kill	96:32:12 1	10.0

APT: Grand Mars



- Social engineering
- Email followed by phone call

Good day, we would like to book rooms for our employees. 12 people will arrive in Paris on November 24. Room types attached with this email, as well as the names of employees. If you have a room available, we will make a deposit. Waiting for you reply



Trustworthy Services



form First Ping Bot List

Η απάντησή σας

ҮПОВОЛН

Μην υποβάλετε ποτέ κωδικούς πρόσβασης μέσω των Φορμών Google.

Αυτό το περιεχόμενο δεν έχει δημιουργηθεί και δεν έχει εγκριθεί από την Google. Αναφορά κακής χρήσης -Όροι Παροχής Υπηρεσιών - Πρόσθετοι όροι

Google Φόρμες

formLogBotList

Your answer

SUBMIT

Never submit passwords through Google Forms.

This content is neither created nor endorsed by Google. Report Abuse - Terms of Service - Additional Terms

Google Forms

Trustworthy Services

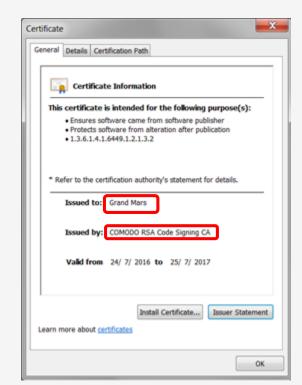


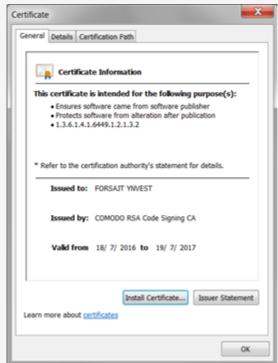
♦ ① ♠ https://script.google.com/macros/s/AKfycl	byHCvQKeEwmgQqB661CyKi	Unknown IP 2 C Sear	ch \$
This application was created by another user, not by Google	e.		
Report abuse - Terms of Service spreadsheetkey		formkey	entry
	nsdseGmlXvs <mark>\$\$\$</mark> 1yKSO9V5w1x0mHlk		sVg0 <mark>\$\$\$entry.724901072</mark>

Trustworthy executables



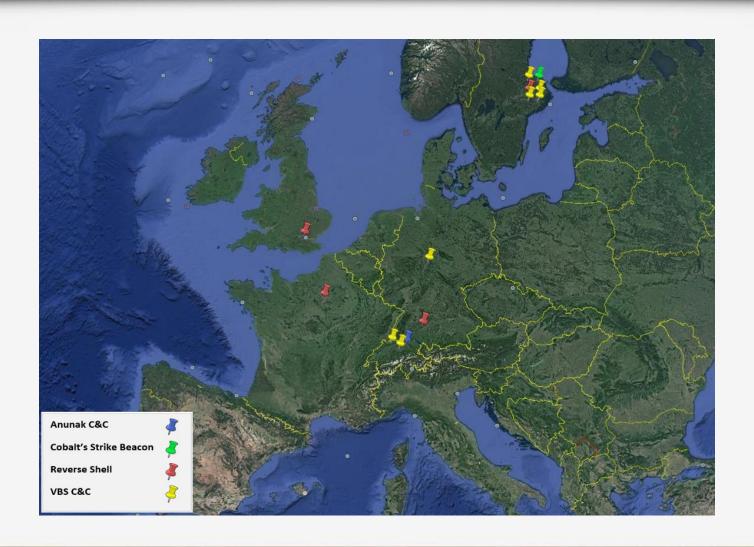
- Spawns new svchost.exe process
- Gathers information of the system
- Anti-reversing
- Terminating specific AVs
- Privilege escalation
- Enables RDP
- POS malware functions
- Local password stealer
- Scrounging Outlook PST files
- Target iFobs banking application
- Backdoor features





Hosts distribution





Conclusions



Victims

- Weak detection security controls
- Missing or poor readiness for security incidents
- Relying on AV but detection low to zero scores



Ευχαριστώ Πολύ!