
OPERATION HANGOVER

Unveiling an Indian Cyberattack Infrastructure

APPENDIXES

- A: Telenor samples
- B: Some examples of installers
- C: Malware string indicators
- D: Paths extracted from executables
- E: Domain names
- F: IP addresses
- G: Sample MD5's

Appendix A: Samples extracted from Telenor intrusion

00bd9447c13afb7140bef94e24b535, msupl.exe
02d6519b0330a34b72290845e7ed16ab, conhosts.exe
05c983831cad96da01a8a78882959d3e, svcohst.exe
10d8d691ec5c75be5dbab876d39501f1, cpyf.exe
1579467859b48085bdf99b0a1a8c1f86, splitter.exe
1676ded041404671bfb1fcfe9db34dcf, msspr.exe
21a52fedba7d5f4080a8070236f24a81, taskbase.exe
3eddb4a2c427ebba246ba2fa22dbdc50, vcmm.dll
61abb92f0fa605c62dab334c225ef770, winhost.exe
6367c72ef246798c2e8153dd9828e1fa, waulct.exe
82837a05f8e000245f06c35e9ddc3040, srsr.exe
85ce84970182be282436317ebc310c8e, msiep.exe
98ce593bfaeddbbbe056007525032e0d, msspr.exe
9d724c66844d52397816259abdf58cea, vmcc.dll
a25d1e14498dd60535c5645ed9f6f488, oprs.exe
bd52237db47ba7515b2b7220ca64704e, few important operational documents.doc.exe
bfd2529e09932ac6ca18c3aaff55bd79, windwn.exe
ca26ca59bafa3ae727560cd31a44b35d, winsvcr.exe
ecc8b373e61a01d56f429b2bd9907e09, chrm.exe
edc4bdfd659279da90fc7eab8a4c6de3, zfscu.dll
f21ca71866a6484a54cd9651282572fd, vtlp.dll

Appendix B: Some related cases based on behaviour and malware similarity parameters.

Name: "Pending_Electricity_Bill_(December-January).pdf.exe",

MD5: 681757936109f7c6e65197fdbb6a8655

Content: Pending_Electricity_Bill_(December-January).pdf

Content: wincert.exe

C&C: chkpoint.info

Name: "Horsemeat_scandal_another_Irish_company_suspends_burger_production.exe"

MD5: f52154ae1366ae889d0783730040ea85

Content: Horsemeat_scandal_another_Irish_company_suspends_burger_production.docx

Content: wincert.exe

C&C: chkpoint.info

Name: Unknown

MD5: f8b0e04506e57bfa2addade04e9a93d4

Content: "Indian_Involvement_in_Afghanistan.pdf"

Content: smsss.exe

Content: systems.exe

Content: csrsss.exe

Content: test.vbs

Content: start1.bat

C&C: sonification.com

Name: important.doc.exe

MD5: a7a223cebe5d89aa2d36864cb096b1b3

Content: important.doc

Content: smsss.exe

Content: exploer.exe

Content: ims.exe

Content: test.vbs

Content: start1.bat

C&C: sonificaton.com; researcherzone.net;

Name: Unknown, probably "ENRC_DEBT_INVESTORS_2012_for_your_Reference.exe"

MD5: e40205cba4e84a47b7c7419ab6d77322

Content: "ENRC_DEBT_INVESTORS_2012_for_your_Reference.docx"

Content: cftmont.exe

C&C: macsol.org; openhostingtalk.com;

Name: Unknown, probably "Deatils_for_the_ENRC_Board_Meeting_X1098977e79.exe"

MD5: a5a740ce2f47eada46b5cae5facfe848

Content: "Deatils_for_the_ENRC_Board_Meeting_X1098977e79.docx"

Content: acsrsss.exe

C&C: systoolsonline.org

Name: "Parminder bansil fraud with Nucleus software Full details.exe"

MD5: a7b5fce4390629f1756eb25901dbe105

Content: scan.docx

Content: winsvcr.exe

Content: wincert.exe

Content: wins.vbs

C&C: skylarzone.org; onlinestoreapp.net;

Name: "Reliance limited sustantibility issues full report 576676y8778.exe"

MD5: 0d5956dac2ac56f292ee8fa121450973

Content: Details.docx

Content: wauctl.exe

Content: wincerrt.exe

Content: wins.vbs

C&C: competitveedge.org; crystalrepo.org;

Name: update112.exe

MD5: 66203f184e4fdb004c0d24ede011ce6e

Content: msnger.exe

Content: igfxtrye.exe

C&C: wearwellgarments.eu; mysharpens.com;

Name: hp.exe

MD5: 74e571f9accf9fe1b4ea6ee0e02a5180

Content: Mendhar.doc

Content: isass.exe

C&C: forest-fire.com

Name: Unknown

MD5: 0f65c1202881f5c0e3d512aa64162716

Content: 20120316.pdf

Content: update.exe

Content: alg.exe

C&C: forest-fire.com; mailtranet.com;

Name: Unknown, probably "Details_for_the_ENRC_Board_Meeting_X10FR333_2012.exe"

MD5: 2895a9b0cf22cd45421d634dc0f68db1

Content: Details_for_the_ENRC_Board_Meeting_X10FR333_2012.docx

Content: avcsrss.exe

C&C: ezservicesenter.org; casinoaffiliatepartners.net;

Name: Unknown, probably "McKinsey_Quaterly_Newsletter_2012_____ .exe"

MD5: 602f66b23b55dd2a22cd84e34c5b8476

Content: McKinsey_Quaterly_Newsletter_2012_____ .docx

Content: cfmon.exe

C&C: casinoaffiliatepartners.net; openhostingtalk.com;

Name: important.exe

MD5: a1cad6b71ab30577ea8e204fab01ed47

Content: imprtant.jpg

Content: snmse.exe

C&C: cryptoanalysis.net

Name: Unknown, probably "Detail_description_of_ferro_chrome_silicon_and_ferro_chrome.exe"

MD5: 2102a18dc20dc6654c03e0e74f36033f

Content: Detail_description_of_ferro_chrome_silicon_and_ferro_chrome.docx

Content: ctmon.exe

C&C: macsol.org

Name: webmailapp.exe

MD5: 22a3a1d5a89866a81152cd2fc98cd6e2

Content: lnk.bat

Content: jre.exe

Content: dwm.exe

C&C: mobnetserver.com

Name: exploer.exe, winl.exe, lasss.exe

MD5: 634e4c640c4d7845a88faa5e0838ec0e

Content: winword.exe

Content: ssmss.exe

C&C: matrixfanclub.net

Name: Unknown

MD5: FFC2C9969B6A3B27FF96B926E9A6C18A

Content: ssmss.exe

Content: spoolsv.exe

C&C: follow-ship.com

Name: Unknown, probably "Taliban target creator, blow up ISI jihad lab.doc.exe"

MD5: E14B7985764E737333D531DAABF55970

Content: Taliban target creator, blow up ISI jihad lab.doc

Content: winword.exe

Content: csres.exe

Content: svchost.exe

C&C: redgolfclub.info

Name: Unknown, probably "MIRZAGHALIB.....IN2011.doc.exe"

MD5: 0680B9E247B2779799D4B32582F566C8

Content: MIRZAGHALIB.....IN2011.doc

Content: CSRSS.exe

Content: SMSS.exe

Content: start1.bat

Content: SYSTEMSS.exe

Content: test.vbs

C&C: sonificaton.com

Name: "agni5_inda's_deadliest_ballistic_nuclear_missile.exe"

MD5: 06E80767048F3EDEF2DEA301924346C

Content: 1.pdf

Content: csrss.exe

Content: dectop.ini

Content: lsass.exe

Content: start.bat

Content: start1.bat

Content: test.vbs

Appendix C: Malware string indicators.

Text strings found inside malware.

HANGOVER 1.2.2 (C++ uploader)

```
Unable to load conf
Drives are:
%c:/
Could not upload file...
encrypted
Uploaded file %s to web server
Failed to upload file %s
Didn't upload %s, because server already has this file
]Tfufss/mph
Uploading files to web server...
Source Directory:
%d out of %d uploaded
IMAGE
Dec: Couldn't open file:
enc_
Dec: Couldn't create file:
7kmL| |Hht98jdf4z#F1+25jf7+3MIG
Enc: Couldn't open file:
Enc: Couldn't create file:
Couldn't open source :
MBVDFRESC
90B452BFFF3F395ABDC878D8BEDBD152
Excep while up %s: %s
Content-Type: multipart/form-data; boundary=%s
--%s
Content-Disposition: form-data; name="uploaddir"
Content-Disposition: form-data; name="filename"; filename="%s"
Content-Type: text/plain
Content-Transfer-Encoding: binary
Content-Disposition: form-data; name="submit" value="submit"
--%s--
{CAF1C46F-D91d7-C912F7F4F609}
WINAPP
[CryptProvider::Enc] Unable to encrypt data:
[CryptProvider::Enc] Unable to decrypt data:
[ProvHandle::ProvHandle] Unable to create provider:
Microsoft Enhanced Cryptographic Provider v1.0
[CrypHash::CrypHash] Unable to create hash:
[CryptKey::CryptKey] Unable to create key:
E:\My\lan scanner\Task\HangOver 1.2.2\Release\Http_t.pdb
```

HANGOVER 1.3.2 (C++ uploader)

```
Unable to load conf
Drives are:
%c:/
Could not upload file...
encrypted
Uploaded file %s to web server
Failed to upload file %s
Didn't upload %s, because server already has this file
]Tfufss/mpH
Uploading files to web server...
Source Directory:
%d out of %d uploaded
IMAGE
Dec: Couldn't open file:
enc_
Dec: Couldn't create file:
7kmL| |Hht98jdf4z#F1+25jf7+3MIG
Enc: Couldn't open file:
Enc: Couldn't create file:
Couldn't open source :
MBVDFRESCT
90B452BFFF3F395ABDC878D8BEDBD152
Excep while up %s: %s
Content-Type: multipart/form-data; boundary=%s
--%s
Content-Disposition: form-data; name="uploaddir"
Content-Disposition: form-data; name="filename"; filename="%s"
Content-Type: text/plain
Content-Transfer-Encoding: binary
Content-Disposition: form-data; name="submit" value="submit"
--%s--
/c xcopy "
" /y
cmd
open
yahoo
windows dirctory
{AHAn4T-TRAH-PI12F7110903}
WINAPP
[CryptProvider::Enc] Unable to encrypt data:
[CryptProvider::Enc] Unable to decrypt data:
[ProvHandle::ProvHandle] Unable to create provider:
Microsoft Enhanced Cryptographic Provider v1.0
[CrypHash::CrypHash] Unable to create hash:
[CryptKey::CryptKey] Unable to create key:
D:\Monthly Task\September 2011\HangOver 1.3.2 (Startup)\Release\Http_t.pdb
```

HANGOVER 1.5.3 (C++ uploader)

```
%c:/
%userprofile%
encrypted
\sample2.txt
Uploaded file %s to web server
Failed to upload file %s
Didn't upload %s, because server already has this file
]Tfufss/mpH
%d out of %d uploaded
0mbohvbf/qiq
hvbhf
/qiq
tpojgdbupo/dpn
EMSCBVDVRT
F390395ABFBD452BFFC87BE8D8DBD152
Excep while up %s: %s
Content-Type: multipart/form-data; boundary=%s
--%s
Content-Disposition: form-data; name="uploaddir"
Content-Disposition: form-data; name="filename"; filename="%s"
Content-Type: text/plain
Content-Transfer-Encoding: binary
Content-Disposition: form-data; name="submit" value="submit"
--%s--
cmd
open
/c xcopy "
" /y
dekstop.ico
EXE
mozilla
windows dirctory
{2FC02671-E810-48b3-96DE-C4284E94EFC9}
WINAPP
T:\final project backup\uploader version backup\HangOver 1.5.3 (Startup)\Release\Http_t.pdb
```

HANGOVER 1.5.4 (C++ uploader)

```
%c:/
%userprofile%
encrypted
\sample2.txt
Uploaded file %s to web server
Failed to upload file %s
Didn't upload %s, because server already has this file
]Tfufss/mph
%d out of %d uploaded
Onztibs/qiq
hvbhf
/qiq
nztibsqfot/dpn
EMSCBVDVRT
F390395ABFBD452BF8C87BE8D8DBD152
Excep while up %s: %s
Content-Type: multipart/form-data; boundary=%s
--%s
Content-Disposition: form-data; name="uploaddir"
Content-Disposition: form-data; name="filename"; filename="%s"
Content-Type: text/plain
Content-Transfer-Encoding: binary
Content-Disposition: form-data; name="submit" value="submit"
--%s--
bad cast
/c xcopy "
" /Y
cmd
open
dektopMSI89.ico
EXE
mozilall
windows dirctory
{67FC0221-E016-48B3-8D9H-E894C854YF92}
WINAPP
T:\final project backup\uploader version backup\fud all av hangover1.5.4\with icon +shortcut link\HangOver 1.5.3
(Startup)\Release\Http_t.pdb
```

HANGOVER 1.5.7 (C++ uploader)

```
%c:/
%userprofile%
encrypted
%s%04d%02d%02d%02d%02d.%s
\nts.txt
Uploaded file %s to web server
Failed to upload file %s
]Tfufss/mpH
%d out of %d uploaded
tqbsl/qiq
o11c5v/dpn
EMSFRTCBVD
F39D45E70395ABFB8D8D2BFFC8BBD152
Excep while up %s: %s
Content-Type: multipart/form-data; boundary=%s
--%s
Content-Disposition: form-data; name="uploaddir"
Content-Disposition: form-data; name="filename"; filename="%s"
Content-Type: text/plain
Content-Transfer-Encoding: binary
Content-Disposition: form-data; name="submit" value="submit"
--%s--
windows directory
C:\Users\Yash\Desktop\New folder\HangOver 1.5.7 (Startup) uploader\Release\Http_t.pdblink\HangOver 1.5.3
(Startup)\Release\Http_t.pdb
```

RON 2.00 (Appin) (C++ uploader)

```
VERSIONTYPE{he3l4m5k2n4m5kgs8c9f9}
Reg
Write
Option Explicit
on error resume next
Dim objShell, strRoot, strModify
strRoot = "
Set objShell = CreateObject("WScript.Shell")
strModify = objShell.
(strRoot,"
","REG_SZ")
strModify = null
WScript.Quit
ScheduledTime
In OnTimer...
Available drives are:
%c:
Could not upload file...
Uploaded file %s to web server
Failed to upload file %s
Didn't upload %s, because server already has this file
%d out of %d files were successfully uploaded to server
\Program Files
\WINDOWS
\Temp
\Local Settings
\Start Menu
\Application Data
\UserData
\Cookies
\Favorites
\SendTo
\NetHood
\PrintHood
\LocalService
\NetworkService
File Found %s
Fail to find Write time of file %s
Fail to Access file %s
File %s is inserted in list
File found with different Pattern :: %s
Uploading files to web server...
backup%Y%m%d%H%M%S
Source Directory:
\detail.txt
Search Process Failed
Started by timer
Couldn't open source file:
sendFile
FFF3F395A90B452BB8BEDC878DDBD152
access.php
Exception occurred while uploading file %s: %s
Content-Type: multipart/form-data; boundary=%s
--%s
Content-Disposition: form-data; name="uploaddir"
Content-Disposition: form-data; name="filename"; filename="%s"
Content-Type: text/plain
Content-Transfer-Encoding: binary
Content-Disposition: form-data; name="submit" value="submit"
--%s--
SetTimer returned %d
%sBackup-%s.log
Backup*.log
C:\BNaga\kaam\Appin SOFWARES\RON 2.0.0\Release\Ron.pdb
```

RON 2.31 (Tourist) (C++ uploader)

```
CONTENT-LENGTH:
GET
HTTP/1.1
Host:
Connection: keep-alive
]tztubn/fyf
xfcnjdspgubvqebuf/ofu
Ojnbhft0ubtliptu/fyf
[MONTHLYDESX]
/c
In OnTimer...
Available drives:
%c:
Could not upload file...
Uploaded file %s to web server
Failed to upload file %s
Didn't upload %, because server already has this file
%d out of %d files were successfully uploaded to server
\*.*
\Program Files
\WINDOWS
\Temp
\Local Settings
\Start Menu
\Application Data
\UserData
\Cookies
\Favorites
\SendTo
\NetHood
\PrintHood
\LocalService
\NetworkService
\ProgramData
File Found %s
%s_%02d_%02d_%04d_%02d_%02d_%02d.%s
Fail to find Write time of file %s
Fail to Access file %s
File %s is inserted in list
File found with different Pattern :: %s
Uploading files to web server...
backup%Y%m%d%H%M%S
Source Directory:
\csb.log
Search Process Failed
Started by timer
Couldn't open source file:
BUGMAAL
2BB8FFF3F39878DDB5A90B45BEDCD152
Exception occurred while uploading file %s: %s
Content-Type: multipart/form-data; boundary=%s
--%s
Content-Disposition: form-data; name="uploaddir"
Content-Disposition: form-data; name="filename"; filename="%s"
Content-Type: text/plain
Content-Transfer-Encoding: binary
Content-Disposition: form-data; name="submit" value="submit"
--%s--
SetTimer returned %d
%Y-%m-%d
%Info-%s.log
%c -
Info*.log
Y:\Uploader\HTTP\Tourist uplo\Tourist Uplo 2.3.1\Release\Ron.pdb
```

RON 2.33 (C++ uploader)

```
CONTENT-LENGTH:
GET
HTTP/1.1
Host:
Connection: keep-alive
]mqtbtt/fyf
np{jmbvqebuf/dpn
0qmvhjo/uyu
Global\{FABF2E92-DA28-C7851754D733}
In OnTimer...
Available drives:
%c:
Could not upload file...
Uploaded file %s to web server
Failed to upload file %s
Didn't upload %s, because server already has this file
%d out of %d files were successfully uploaded to server
Uploading files to web server...
backup%Y%m%d%H%M%S
Source Directory:
\csb.log
Search Process Failed
\*. *
\Program Files
\WINDOWS
\Temp
\Local Settings
\Start Menu
\Application Data
\UserData
\Cookies
\Favorites
\SendTo
\NetHood
\PrintHood
\LocalService
\NetworkService
File Found %s
Fail to find Write time of file %s
Fail to Access file %s
Started by timer
Couldn't open source file:
sMAAL
2BB8FFF3F39878DDB5A90B45BEDCD152
Exception occurred while uploading file %s: %s
Content-Type: multipart/form-data; boundary=%s
--%s
Content-Disposition: form-data; name="uploaddir"
Content-Disposition: form-data; name="filename"; filename="%s"
Content-Type: text/plain
Content-Transfer-Encoding: binary
Content-Disposition: form-data; name="submit" value="submit"
--%s--
SetTimer returned %d
%sInfo-%s.log
%c -
Info*.log
E:\Datahelp\UPLO\HTTP\NEW Up For Trinity\RON 2.3.3\Release\Ron.pdb
```

RON 2.43 (Tourist) (C++ uploader)

```
In OnTimer...
/c xcopy "
"
"/Y
cmd
open
appdata
windows directory
Global\{C78517FA-D28A-BF254D111010}
%02X
Available drives:
%c:
Could not upload file...
Uploaded file %s to web server
Failed to upload file %s
Didn't upload %s, because server already has this file
%d out of %d files were successfully uploaded to server
Uploading files to web server...
backup%Y%m%d%H%M%S
Source Directory:
\ksb.log
Search Process Failed
\*.
File Found %s
Fail to find Write time of file %s
Fail to Access file %s
Started by timer
Couldn't open source file:
SIMPLE
78DDB5A902BB8FFF3F398B45BEDCD152
Exception occurred while uploading file %s: %s
Content-Type: multipart/form-data; boundary=%s
--%s
Content-Disposition: form-data; name="uploaddir"
Content-Disposition: form-data; name="filename"; filename="%s"
Content-Type: text/plain
Content-Transfer-Encoding: binary
Content-Disposition: form-data; name="submit" value="submit"
--%s--
SetTimer returned %d
%sReport-%s.txt
Report*.txt
S:\final project backup\task information\task of september\Tourist 2.4.3 (Down Link On Resource) -L\Release\Ron.pdb
```

RON 2.45 (Tourist) (C++ uploader)

```
%userprofile%
Appl
icati
on Data
Global\{C7121E67-D28A-BF25KD72EKK3}
TextX
windows dirctory
%02X
Available drives:
%c:
Could not upload file...
Uploaded file %s to web server
Failed to upload file %s
Didn't upload %s, because server already has this file
%d out of %d files were successfully uploaded to server
Uploading files
to web server...
backup
Source
Directory:
\ksb.log
Search Process Failed
\*. *
Fail to find Write time of file %s
Fail to Access file %s
Couldn't open source file:
SPLIME
5A902B8B45BEDCB8FFF3F39D152
Exception occurred while uploading file %s: %s
Content-Type: multipart/form-data; boundary=%s
--%s
Content-Disposition: form-data; name="uploaddir"
Content-Disposition: form-data; name="filename"; filename="%s"
Content-Type: text/plain
Content-Transfer-Encoding: binary
Content-Disposition: form-data; name="submit" value="submit"
--%s--
%sReport-%s.txt
%c -
Report*.txt
N:\payloads\Trinity\Uploader\Tourist 2.4.5 (Down Link On Resource) -L(fud norton360internet security)\Release\Ron.pdb
```

Babylon 5.11 (C++ uploader)

```
In OnTimer...
happyfeet
StartServiceCtrlDispatcher: Error %ld,
OpenSCManager failed, error code = %d
Failed to create service %s, error code = %d
Service %s installed
OpenService failed, error code = %d
Failed to delete service %s
Service %s removed
Service %s stopped
ControlService failed, error code = %d
Service %s started
StartService failed, error code = %d
RegisterServiceCtrlHandler failed, error code = %d
SetServiceStatus failed, error code = %d
Information Loaded
Fail To Load Information
Unable to load configuration file.
Loaded Settings
Unable to send files to server. Check your connection and settings
Available drives:
%c:
Could not upload file...
Uploaded file %s to web server
Failed to upload file %s
Didn't upload %s, because server already has this file
%d out of %d files were successfully uploaded
\Program Files
\WINDOWS
\Temp
\Local Settings
\Start Menu
\Application Data
\UserData
\Cookies
\Favorites
\SendTo
\NetHood
\PrintHood
\LocalService
\NetworkService
File Found %s
Fail to find Write time of file %s
Fail to Access file %s
File %s is inserted in list
File found with different Pattern :: %s
Uploading files to web server...
Source Directory:
\csb.log
Search Process Failed
dectop.ini
SerName
ServerSettings
UpDir
CDir
UpFreq
Extensions
SourceDirectory
Couldn't open source file:
sMAAL
2BB8FF3F39878DDB5A90B45BEDCD152
tata.php
```

Babylon 5.11 continued (C++ uploader)

```
Exception occurred while uploading file %s: %s
Content-Type: multipart/form-data; boundary=%s
--%s
Content-Disposition: form-data; name="uploaddir"
Content-Disposition: form-data; name="filename"; filename="%s"
Content-Type: text/plain
Content-Transfer-Encoding: binary
Content-Disposition: form-data; name="submit" value="submit"
--%s--
SetTimer returned %d
%$Info-%s.log
Info*.log
EFile Couldn't open
enc_
EFile Couldn't
7dasgfhgrtyethgfdhgfhgfgMIGG#F17
EncryptFile: Couldn't open source file:
EncryptFile: Couldn't create encrypted file:
vector<T> too long
[CryptProvider::Enc] Unable to encrypt data:
[CryptProvider::Enc] Unable to decrypt data:
[ProvHandle::ProvHandle] Unable to create provider:
Microsoft Enhanced Cryptographic Provider v1.0
[CrypHash::CrypHash] Unable to create hash:
[CryptKey::CrypKey] Unable to create key:
Y:\Uploader\HTTP\HTTP Babylon 5.1.1\HTTP Babylon 5.1.1\Httpbackup\Release\HttpUploader.pdb
```

Ron Dragonball 1.00 (C++ uploader)

```
Global\{2F3A8556-D28A-8F1BghS4POMD}
%02X
Available drives:
%c:
Could not upload file...
Uploaded file %s to web server
Failed to upload file %s
Didn't upload %s, because server already has this file
%d out of %d files were successfully uploaded to server
Uploading files
to web server...
backup
Source
Directory:
\ksb.log
Search Process Failed
\*. *
%s_%02d_%02d_%04d_%02d_%02d_%02d.%s
Fail to find Write time of file %s
Fail to Access file %s
Couldn't open source file:
SIMPLE
5A9DCB8FFF3F02B8B45BE39D152
Exception occurred while uploading file %s: %s
Content-Type: multipart/form-data; boundary=%s
--%s
Content-Disposition: form-data; name="uploaddir"
Content-Disposition: form-data; name="filename"; filename="%s"
Content-Type: text/plain
Content-Transfer-Encoding: binary
Content-Disposition: form-data; name="submit" value="submit"
--%s--
%sReport-%s.txt
Report*.txt
D:\december task backup\TRINITY PAYLOAD\Dragonball 1.0.0(WITHOUT DOWNLOAD LINK)\Release\Ron.pdb
```

Ron Dragonball 1.02 (C++ uploader)

```
Ink
smss
windows dirctory
\smss
%02X
Available drives:
%c:
Could not upload file...
Uploaded file %s to web server
Failed to upload file %s
Didn't upload %s, because server already has this file
%d out of %d files were successfully uploaded to server
Uploading files
to web server...
backup
Source
Directory:
\ksb.log
Search Process Failed
Fail to find Write time of file %s
Fail to Access file %s
Couldn't open source file:
SIMPLE
5A9DCB8FFF3F02B8B45BE39D152
Exception occurred while uploading file %s: %s
Content-Type: multipart/form-data; boundary=%s
--%s
Content-Disposition: form-data; name="uploaddir"
Content-Disposition: form-data; name="filename"; filename="%s"
Content-Type: text/plain
Content-Transfer-Encoding: binary
Content-Disposition: form-data; name="submit" value="submit"
--%s--
%sReport-%s.txt
Report*.txt
C:\Documents and Settings\abc\Desktop\Dragonball 1.0.2(WITHOUT DOWNLOAD LINK)\Release\Ron.pdb
```

Ron FirstBlood (C++ uploader)

```
MONEYMATRA{G53UTDFWMC997654LMD}
Reg
Write
Option Explicit
on error resume next
Dim objShell, strRoot, strModify
strRoot = "
Set objShell = CreateObject("WScript.Shell")
strModify = objShell.
(strRoot,"
","REG_SZ")
strModify = null
WScript.Quit
Hello World
InstallID
In OnTimer...
Available drives are:
%c:
Could not upload file...
Uploaded file %s to web server
Failed to upload file %s
Didn't upload %s, because server already has this file
%d out of %d files were successfully uploaded to server
\Program Files
\WINDOWS
\Temp
\Local Settings
\Start Menu
\Application Data
\UserData
\Cookies
\Favorites
\SendTo
\NetHood
\PrintHood
\LocalService
\NetworkService
File Found %s
%s_%02d_%02d_%04d_%02d_%02d_%02d.%s
Fail to find Write time of file %s
Fail to Access file %s
File %s is inserted in list
File found with different Pattern :: %s
Uploading files to web server...
backup%Y%m%d%H%M%S
Source Directory:
\detail.txt
Search Process Failed
Started by timer
Couldn't open source file:
sendFile
FFF3F395A90B452BB8BEDC878DDBD152
access.php
Exception occurred while uploading file %s: %s
Content-Type: multipart/form-data; boundary=%s
--%s
Content-Disposition: form-data; name="uploaddir"
Content-Disposition: form-data; name="filename"; filename="%s"
Content-Type: text/plain
Content-Transfer-Encoding: binary
Content-Disposition: form-data; name="submit" value="submit"
--%s--
SetTimer returned %d
%sBackup-%s.log
Backup*.log
C:\BNaga\kaam\kaam\New_FTP_HttpWithLatestfile2_FirstBlood_Released\New_FTP_HttpWithLatestfile2\Release\Ron.pdb
```

Bitmask (C++ keylogger)

```
Layout File
SYSTEM\CurrentControlSet\Control\Keyboard Layouts\%s
KbdLayerDescriptor
Edit
tips_class32_asdasd
getkey/
Log.txt
[ESC]
[INSERT]
[MENU]
[ENTER]
[BKSP]
url = %s
Mozilla Firefox
Internet Explorer
Session Start = %s %s
=====
Windows Title = %s
Content-Type: multipart/form-data; boundary=%s
Content-Transfer-Encoding: binary
Content-Type: text/plain
Content-Disposition: form-data; name="filename"; filename="%s"
Content-Disposition: form-data; name="uploadaddr"
--%s
--%s--
Content-Disposition: form-data; name="submit" value="submit"
Exception occurred while uploading file %s: %s
getkey.php
F12BDC94490B452AA8AEDC878DCBD187
File
WScript.Quit
strModify = null
", "REG_SZ")
strModify = objShell.RegWrite(strRoot, "
Set objShell = CreateObject("WScript.Shell")
\Software\Microsoft\Windows\CurrentVersion\Run\HotKeyscmd"
strRoot = "
Dim objShell, strRoot, strModify
Option Explicit
HKEY_LOCAL_MACHINE
HKEY_CURRENT_USER
\Run
\CurrentVersion
\Windows
Software\Microsoft
\regw.vbs
%userprofile%
WM_KEYDOWN_STR
WM_SETFOCUS_STR
Global\{2194ABA1-BFFA-4e6b-8C26-D191BB16F9E6}
BitMask Pvt. Ltd.
```

Klogger (C++ keylogger)

```
Edit
<LeftArrow>
<RightArrow>
<UpArrow>
<DownArrow>
<BACKSPACE>
<Home>
<PageDown>
<PageUp>
<End>
<PrintScreen>
<Delete>
<F1>
<F2>
<F3>
<F4>
<F5>
<F6>
<F7>
<F8>
<F9>
<F10>
<F11>
<F12>
<Ctrl>
<Alt>
<Esc>
<WinKey>
<ScrollLock>
\NTUSR
temp
.log
Content-Type: multipart/form-data; boundary=%s
--%s
Content-Disposition: form-data; name="uploaddir"
Content-Disposition: form-data; name="filename"; filename="%s"
Content-Type: text/plain
Content-Transfer-Encoding: binary
Content-Disposition: form-data; name="submit" value="submit"
--%s--
MBVDFRESCT
90ABDC878D8BEDBB452BFFF3F395D152
Excep while up %s: %s
%02X
Log.txt
/c del "
cmd
open
lnk
alg
windows dirctory
\alg
E:\June mac payloads\final Klogger-1 june-Fud from eset5.0\Klogger- 30 may\Klogger- 30 may\Release\Klogger.pdb
```

Kmail (C++ keylogger)

```
[Clipboard Data: "  
Edit  
MBVDFRESCT  
90ABDC878D8BEDBB452BFFF3F395D152  
Excep while up %s: %s  
Content-Type: multipart/form-data; boundary=%s  
--%s  
Content-Disposition: form-data; name="uploadir"  
Content-Disposition: form-data; name="filename"; filename="%s"  
Content-Type: text/plain  
Content-Transfer-Encoding: binary  
Content-Disposition: form-data; name="submit" value="submit"  
--%s--  
%02X  
Wir  
windows dirctory  
temp  
.log  
Log.txt  
/c del "  
cmd  
open  
d:\May Payload\new keylogger\Fashdance1.0.2\kmail(http) 01.20\Release\kmail.pdb
```

Fuddol (Visual Basic downloader)

C:\Http downloader(fud)\Project1.vbp
PTTHLMX.2LMXSM
TEG
Open
send
Status
maertS.BDODA
Type
ResponseBody
Write
Position
tcejbOmetsySeliF.gnitpircS
Fileexists
DeleteFile

UpdateEx (Visual Basic keylogger)

UpdateEx
C:\Documents and Settings\Admin\Desktop\UpdateEx\UpdateEx\UpdateEx.vbp
MainEx
GetLogs
ProMan
HTTPClass
RedMod
UpdateEx
GET
user32
SetTimer
KillTimer
Fields
OpenHTTP
CloseHTTP
SendRequest
URLEncode
sys
sysname
path
title
data
adkey.php
POST
[TAB]
Text
[BSP]
[RET]
[CTRL]
[ALT]
[Pause]
[Esc]
[End]
[Home]
[Left]
[Right]
[Inst]
[Del]
[DEC]
[F1]
[F2]
[F3]
[F4]
[F5]
[F6]
[F7]
[F8]
[F9]
[F10]
[F11]
[F12]
[NumLock]
[ScrollLock]
[PntSrn]
[PGUP]
[PGDN]
http://google.com
HTTP Client
Content-Type: application/x-www-form-urlencoded
HTTP/1.1
SOFTWARE\Microsoft\Windows\CurrentVersion\Run
LTSERVICE
Name

Updatex continued (Visual Basic keylogger)

Value
Server
Port
UserName
Password
File
Method
Referer
Reload
Data

Tymtin (Visual Basic keylogger)

```
frmTymTin
TymTin
proTymTin
l - l - e - h - S - . - t - p - i - r - c - S - W
p u t r a t S
-----[Clipboard Data]-----
(<-)
(Enter)
(Caps)
(Esc)
(Pup)
(Pdown)
(End)
(Home)
(LA)
(UA)
(RA)
(DA)
(Del)
(#)
(NumLock)
(Ctrl)
(Alt)
value1=1&value2=2
&slots=1&
&dis=no&utp=ap&mfol=
u s e r n a m e
M S X M L 2 . X M L H T T P
M i c r o s o f t . X M L H T T P
M S X M L 2 . S e r v e r X M L H T T P
.txt
W i n H t t p . W i n H t t p R e q u e s t
W i n H t t p . W i n H t t p R e q u e s t . 5 . 1
Open
C o n t e n t - T y p e
multipart/form-data; boundary=
SetRequestHeader
Content-Disposition: form-data; name="
upload1
"; filename="
Content-type: file
Send
ResponseText
/vbupload.php?pc=
```

Smackdown Minapro (Visual Basic downloader)

```
frmMina
C:\miNaPro.vbp
Open
send
ResponseText
&tg=
&tv=
&ts=
&mt=
%c%o%m%p%u%t%e%r%n%a%m%e%
%u%s%e%r%n%a%m%e%
S c r i p t i n g . F i l e S y s t e m O b j e c t
t e m p
\programs
CreateFolder
GetFolder
Attributes
&tr=
\data/
Wscript.Shell
run
/snwd.php?tp=2&tg=
DownloadProgress
DownloadError
DownloadComplete
UserControl
#me#t#s#y#gn#it#ar#ep#O_#2#3#ni#W #mo#rf# * #tc#el#eS#
Caption
[NoFiles]
=2=v=m===i===c=\=t=0=====o=r=\=.=\===\===s=t=m=g===m=n=i===w=
-4-6-w-o---w---s---y---s---\--
Scripting.FileSystemObject
FolderExists
-r-i-d---n-i---w---
BeginDownload
PathToSignedProductExe
' = eman erehW elifataD_MIC morf * tceleS
Error
programfiles
CompanyName
\*. *
W s c r i p t . S h e l l
SaveFile
CurBytes
MaxBytes
```

Smackdown Vacrhan (Visual Basic downloader)

```
pranVacrhan
Draw Circles
Timer1
Timer2
C:\new_smackdown8\pranVacrhanpr.vbp
**
*_*
advpack
IsNTAdmin
  w i n m g m t s : \ . \ r o o t \ S e c u r i t y C e n t e r
exec * from An
ExecQuery
DisplayName
  w i n m g m t s : \ . \ r o o t \ S e c u r i t y C e n t e r 2
WokasamWoirada
Select * from CIM_Datafile Where name = '
http://
&fil=
W S c r i p t . S h e l l
Start up
SpecialFolders
\Themes Manager.Ink
CreateShortcut
TargetPath
IconLocation
W-i-n-d-o-w-s--S-y--s-t-e-m---P-r-o---p-e---r--t--y--
WorkingDirectory
Save
programfiles
[NoFilesPresent]
Files Present on DropPath :
\*. *
Open
send
Status
Type
ResponseBody
Write
Position
Fileexists
DeleteFile
SaveToFile
Close
\OS.txt
OS Name
===h===t=====t===p====:===/===/===
---h-t---t-p:---/---/-----
/first-time/
ResponseText
\Temps
CreateFolder
GetFolder
Attributes
[NoExists:
[Exists:
u s e r n a m e
AVs List :
OS :
SystemDT : [
AppVersion :
AppPath :
DropPath :
/windata
```

Smackdown NaramGaram (Visual Basic downloader)

```
ProjNaramGaram
NaramGaram
D:\YASH\PRO\MY\DELIVERED\2012\DOWNLOADERS\Smack6\70\ProjNaramGaram.vbp
advpack
IsNTAdmin
\OS.txt
OS Name
OS Name:
Unknown
w i n m g m t s : \ . \ r o t \ S e c u r i t y C e n t e r
exec * from An
ExecQuery
DisplayName
w i n m g m t s : \ . \ r o t \ S e c u r i t y C e n t e r 2
WokasamWoirada
Select * from CIM_Datafile Where name = '
Error
programfiles
  u s e r p r o f i l e
\Temps
CreateFolder
GetFolder
Attributes
[NoExists:
[Exists:
u s e r n a m e
W S c r i p t . S h e l l
S t a r t u p
SpecialFolders
\Themes Manager.Ink
CreateShortCut
TargetPath
--s-y--s--d--m--c--p-l--,- -0-
IconLocation
W--i-n--d--o-w-s- --S-y--s-t-e-m-- --P-r-o--p-e--r--t--y--
Description
WorkingDirectory
Save
SaveToFile
Fileexists
Type
ResponseBody
Write
Position
Open
send
Status
run
WScript.Shell
ResponseText
/shopx.php?fol=../first-time
/first-time/
```

Smackdown Vampro (Visual Basic downloader)

```
vampro
D:\YASH\PRO\MY\DELIVERED\2012\DOWNLOADERS\compiled\SmkDwnNew(dual)\14-8\vampro.vbp
SmkDwn
***
*_*
reggubeDmetsyS
run
advpack
IsNTAdmin
Class
/first-time/
Files Present on DropPath :
Errors : [
/new_down/
&fil=
  u s e r p r o f i l e
\programs
CreateFolder
GetFolder
Attributes
  c o m p u t e r n a m e
  u s e r n a m e
[Exists:
[NoExists:
w i n m g m t s : \ . \ r o t \ S e c u r i t y C e n t e r
ExecQuery
CompanyName
w i n m g m t s : \ . \ r o t \ S e c u r i t y C e n t e r 2
PathToSignedProductExe
' = eman erehW elifataD_MIC morf * tceleS
Error
programfiles
winmgmts:\.\root\cimv2
Select * from Win32_OperatingSystem
Open
send
ResponseText
ResponseBody
Write
Position
Fileexists
DeleteFile
SaveToFile
Close
On Error Resume Next
Dim myFSO, Rula
Set myFSO = CreateObject(
myFSO.DeleteFile Wscript.ScriptFullName
Set Rula = CreateObject(
Wscript.Shell
Wscript.Sleep 5000
Rula.run Chr(34) &
Set Rula = Nothing
Set myFSO = Nothing
\rgrun.vbs
```

Smackdown Angelpro (Visual Basic downloader)

```
AngelPro
frmAngelica
Angelica
D:\YASH\PRO\MY\DELIVERED\2012\DOWNLOADERS\Smack6\90\92\AngelPro.vbp
ucDwn
*##*
*_*
advpack
IsNTAdmin
  w i n m g m t s : \ . \ r o o t \ S e c u r i t y C e n t e r
SpecialFolders
ExecQuery
DisplayName
  w i n m g m t s : \ . \ r o o t \ S e c u r i t y C e n t e r 2
WokasamWoirada
Select * from CIM_Datafile Where name = '
http://
&fil=
Start up
\Themes Start Manager.Ink
CreateShortCut
TargetPath
--s--y--s--d--m--.c--p-l--,- -0-
IconLocation
W--i--n--d--o--w--s-- --S--y--s--t--e--m-- --P--r--o--p--e--r--t--y--
Description
WorkingDirectory
programfiles
[NoFiles]
[NoExists:
[Exists:
Files Present on DropPath :
  u s e r p r o f i l e
\Temps
\OS.txt
OS Name
===h===t=====t===p=====;/===/==
---h-t---t-p:---/---/----
/first-time/
ChakMak
IGets
FIDwn
wait
active
DropPath :
/advdx
u s e r n a m e
AVs List :
OS :
SystemDT : [
AppVersion :
AppPath :
A D O D B . S t r e a m
Type
ResponseBody
Write
Position
FileExists
DeleteFile
SaveToFile
Close
run
```

Smackdown Soundsman (Visual Basic downloader)

Soundsman
VbDL
FrmSru
C:\Documents and Settings\Administrator\Desktop\NewDw\Soundsman.vbp
comodo
OS Name
C:\Wvs.txt
programfiles
avira
antivir
|Avira
avast
alwil
|Avast
avg
|Avg
bitdef
|BitDefender
|Comodo
eset
|Nod32
f-secure
|F-Secure
kasper
|KasperSky
mcafee
|McAfee
norton
|Norton
panda
|Panda
quickheal
quick-heal
|Quick-Heal
vba32
|Vba32
W S c r i p t . S h e l l
S t a r t u p
SpecialFolders
\Microsft
.url
[InternetShortcut]
URL=
.exe
UserControl
.HTTPDownload
+.C:\WINDOWS\system32\WINHTTP.dll
WinHttp
CancelDownload
DownloadFile
DownloadProgress
DownloadComplete
DownloadError
InvalidUrl
GET
Accept-Language
en-us
User-Agent
Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1)
Accept
/*/*
Content-Length
StrUrl
DestFile

Smackdown Cryp (Visual Basic downloader)

Searcher
Downl
syslide
D:\YASH\PRO\MY\DELIVERED\Downloader\tempdwn\Cryp of tempdwn\Project1.vbp
kernel32
Sleep
ExecQuery
IPAddress
MACAddress
RegWrite
UserControl
BeginDownload
DownloadProgress
DownloadError
DownloadComplete
URL
SaveFile
CurBytes
MaxBytes

Yashup (Visual Basic uploader)

My Windows Manager
DWN
TxtCname
Content Type of the File
TxtResp
TxtReq
D:\YASH\SOFTs\PRO\MY\DELIVERED\UPLOADERS\New_upl\bkup_nonObfus\plain\Project1.vbp
CsocketMaster
modSocketMaster
LinkFilter
ComputerName
MarloNa
RemotePort
RemoteHost
RemoteHostIP
LocalPort
State
LocalHostName
LocalIP
BytesReceived
SocketHandle
Protocol
CloseSck
SendData
GetData
PeekData
ConnectionRequest
DataArrival
SendProgress
Scripting.FileSystemobject
Drives
DriveType
Computername
Content-Disposition: form-data; name=""; filename="match
OK Winsock service initiated
Operation now in progress.
UserControl
BeginDownload
DownloadProgress
DownloadError
DownloadComplete
bytesTotal
Number
Description
sCode
Source
HelpFile
HelpContext
CancelDisplay
enmProtocol
RemoteHost
RemotePort
LocalPort
LocalIP
maxLen
requestID
bytesSent
URL
bytesRemaining
SaveFile
CurBytes
MaxBytes

Yashplayer (Visual Basic remote access trojan)

GroundPlayer
frmGround
TxtRamos
C:\GroundPlayer.vbp
cmdshel
CSocketMaster
shells
Removeable
Network
CD-ROM
Disc
///C:[HD]
S t a r t u p
SpecialFolders
w i n m g m t s : \ . \ r o t \ S e c u r i t y C e n t e r
elect * from An
ExecQuery
w i n m g m t s : \ . \ r o t \ S e c u r i t y C e n t e r 2
\System Config.Ink
CreateShortCut
TargetPath
sysdm.cpl, 0
IconLocation
Windows System Config
WorkingDirectory
Save
File
Fols
Fils
Find
Pass
Auth
Down
Erro
OkDo
Kils
Clos
Rstr
run
Dein
SheA
SheD
SheC
Uplo
/#/W/#/S/#/c/#/r/#/i/#/p/#/t/#/.#/S/#/h/#/e/#/\\#/\\
Open
A D O D B . S t r e a m
ResponseBody
Write
Position
Shell started at:
Shell closed at:
Shell is already closed!
Shell is not Running!
OK Winsock service initiated
enmProtocol
RemoteHost
RemotePort
LocalPort
LocalIP
maxLen
requestID
bytesSent
bytesRemaining

DragonEye (Visual Basic remote access trojan)

MCircle
TxtRamos
D:\YASH\PRO\MY\DELIVERED\RAT\Dragon-Eye\De-Mini\New_server\modify\New_LNK\Another_FUD\MCircles.vbp
cmdshel
shells
TxtRamos
Removeable
Network
CD-ROM
Disc
W S c r i p t . S h e l l
S t a r t u p
SpecialFolders
\Soundman
Find
Pass
Auth
Driv
Fold
Erro
OkDo
Kils
Clos
Rstr
Open
.exe
Dein
SheA
SheD
SheC
She3
Ht6w
Uplo
SheH
O p e n
Fols
Fils
.url
[InternetShortcut]
URL=
IconFile=
Iconindex=
DownloadProgress
CancelDownload
DownloadFile
.HTTPDownload
+.C:\Windows\system32\winhttp.dll
UserControl
DownloadComplete
DownloadError
InvalidUrl
GET
Accept-Language
en-us
User-Agent
Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1)
Accept
*/
Content-Length
QOS bad style.
Shell started at:
Shell closed at:
Shell is already closed!
Shell is not Running!

Yashgame (Visual Basic remote access trojan)

```
*. *           Naby Cards Objection           *. *
01 - every player start game with 52 cards (4 cards shown in his field + 47 cards hidden +1 card in action )
02 - the aim of the game is to try to finish your cards before the opponent
03 - the player who has the biggest cards in the 4 shown cards in his field will start the game
04 - there is 8 places in middle from ace to king
05 - rules of game is something like Solitaire game
06 - first u have to check if u have card can move to the middle (from ace to king ) or the fields have card can move to middle
07 - if u have and did not play it u will loss your turn and your opponent will take the turn
08 - u can move the cards from u or from fields to your opponent by dragging the card to him
09 - u can drag the cards in fields up or down like Solitaire game
10 - your turn will finish when u click on your hidden cards and move the shown card to your card in action
exitme
startme
New Game
HELP
NETSCAPE2.0
Click if Objection
Label6
Nabeel
Amber Shown Cards Left
Amber Hidden Cards Left
Nabeel Shown Cards Left
Nabeel Hidden Cards Left
listace
picCards
playlist
labindex
shobjection
All Right Reserved By nabeelhosny@yahoo.com
PySol solitaire cardset
D:\YASH\PRO\MY\DELIVERED\2012\DEMC\Without_ocx_class\NewCardGameBased\Project1.vbp
WsRkft23
updateme
checkobjection
doobjection
upateme
upteme
Prosdata
VB.TextBox
Text1
TxtRamos
5.34.242.129
\pic\alarm.wav
She1
Shel
000
Text
File
Fols
Fils
\pic\yes.wav
\pic\addalarm.wav
\pic\wrong.wav
w i n g m t s : \ . \ r o t \ S e c u r i t y C e n t e r
elect * from An
ExecQuery
DisplayName
w i n g m t s : \ . \ r o t \ S e c u r i t y C e n t e r 2
WokasamWoirada
Select * from CIM_Datafile Where name = '
\pic\Fail.wav
elbaevomeR
```

Yashgame continued (Visual Basic remote access trojan)

```
krowteN
MOR-DC
ksiD
u s e r n a m e
c o m p u t e r n a m e
SheD
SheC
S h e 3
Uplo
|||
SheH
/#/W/#/S/#/c/#/r/#/i/#/p/#/t/#/.#/#/##/h/#/e/#/l/#/l
/#/
run
Find
Pass
Auth
Driv
Fold
Down
Erro
OkDo
Kils
Clos
rtsR
WScript.Shell
Shell started at:
Shell closed at:
Shell is already closed!
Shell is not Running!
```

Foler.A (C++ worm)

```
Unable to get Location
USERPROFILE
\start.vbs
On error resume next
ComputerName = "."
Set wmiServices = GetObject("winmgmts:{impersonationLevel=Impersonate}!/" & ComputerName)
Set s = WScript.CreateObject("WScript.Shell")
dim filesys, filext
Set filesys = CreateObject("Scripting.FileSystemObject")
Set filext = filesys.OpenTextFile(s.ExpandEnvironmentStrings("%userprofile%") & "\nttuser.txt", 2, True)
Set wmiDiskDrives = wmiServices.ExecQuery ("SELECT Caption, DeviceID FROM Win32_DiskDrive")
For Each wmiDiskDrive In wmiDiskDrives
query = "ASSOCIATORS OF {Win32_DiskDrive.DeviceID='" & wmiDiskDrive.DeviceID & "'} WHERE AssocClass = Win32_DiskDriveToDiskPartition"
Set wmiDiskPartitions = wmiServices.ExecQuery(query)
For Each wmiDiskPartition In wmiDiskPartitions
Set wmiLogicalDisks = wmiServices.ExecQuery ("ASSOCIATORS OF {Win32_DiskPartition.DeviceID='" & wmiDiskPartition.DeviceID & "'} WHERE AssocClass = Win32_LogicalDiskToPartition")
For Each wmiLogicalDisk In wmiLogicalDisks
filext.WriteLine(wmiLogicalDisk.Caption & "\")
Next
Next
filext.Close
EXIT FOR
Next
cmd /c "
open
cmd
svchost.
exe
\MyHood\
cmd /c attrib +h +s "
alg.
encrypted
ID_MON
\nttuser.txt
A:\
B:\
Media removable
*.*
Fixed disk
%userprofile%
\MyHood
error
Drive does not exist
Network drive
CD-ROM drive
RAM disk
/c xcopy "
ccnfg
windows dirctory
C:\Documents and Settings\Administrator\Desktop\UsbP\Release\UsbP.pdb
explorer
%userprofile%
\MyHood
cmd /c attrib +h +s "
\MyHood\
svchost.
exe
alg.
D:\Monthly Task\August 2011\USB Prop\Usb Propagator.09-24\nn\Release\nn.pdb
```

Foler.B (C++ worm)

```
Unable to get Location
USERPROFILE
open
cmd
svchost.
exe
\MyHood\
cmd /c attrib +h +s "
smsss.
encrypted
ID_MON
\Data
A:\
B:\
Media removable
*.*
%userprofile%
\MyHood
error
Drive does not exist
Fixed disk
Network drive
CD-ROM drive
RAM disk
/c xcopy "
ccnfg
windows directory
C:\Documents and Settings\Administrator\Desktop\UsbP\UsbP - u\Release\UsbP.pdb
Global\{EBLEY329-TRSU-PIG279110924}
explorer
%userprofile%
\MyHood
cmd /c attrib +h +s "
\MyHood\
svchost.
exe
smsss.
C:\Documents and Settings\Administrator\Desktop\nn\Release\nn.pdb
```

Appinbot Predator (C++ remote access trojan)

cmd.exe
OSVer
Win32s
Win9x
WinNT
OSPlatform
Intel
Unknown
OSArchitecture
ClientVersion
ClientBuildTime
TempDir
ModulePath
PID
ServerPort
ServerAddress
RetrySeconds
Instances
ForceInstall
BuildType
RELEASE
clienthost.com
Reconnecting...
Global\AbortAbClient
ABCLIENT
TMP
\agp32
Error %d moving file %s to %s
Invalid MD5 Checksum!
props
drives
list
dlist
Network Neighborhood\
get
file not found
exit
uninstall
restart
Error %d spawning new process
newclient
File not found
exec
mkdir
Error creating directory
ping
Unknown request
Global\
FIDR/
1.2
FIDR/%s
HLO
RPY
SUBSCRIBE %d
MSG
bot
CLOSE %d
ERR
END
ANS
NUL
c:\Users\PRED@TOR\Desktop\MODIFIED PROJECT LAB\admin\Build\Win32\Release\appinclient.pdb
C:\Users\PRED@TOR\Desktop\appinbot_1.2_120308\Build\Win32\Release\deleter.pdb

Appinbot 1.2.12 (C++ remote access trojan)

```
cmd.exe
OSVer
Win32s
Win9x
WinNT
OSPlatform
Intel
Unknown
HostName
LocalIP
MacAddress
OSArchitecture
ClientVersion
ClientBuildTime
TempDir
ModulePath
PID
ServerPort
ServerAddress
RetrySeconds
Instances
ForceInstall
BuildType
RELEASE
clienthost.com
localhost
Global\ClientBOND
Global\Client
MYCLIENT
\mxpr32
Write message received out of sequence
Error %d moving file %s to %s
Invalid MD5 Checksum!
props
drives
list
dlist
Network Neighborhood\
get
restart
Error %d spawning new process
newclient
exec
ping
Alocalhost
FIDR/
1.2
FIDR/%s
HLO
RPY
SUBSCRIBE %d
MSG
bot
CLOSE %d
ERR
END
ANS
NUL
%sEND
C:\BNaga\backup_28_09_2010\threads tut\pen-backup\BB_FUD_23\Copy of client\Copy of
client\appinbot_1.2_120308\Build\Win32\Release\appinclient.pdb
C:\pen-backup\Copy of client\Copy of client\appinbot_1.2_120308\Build\Win32\Release\deleter.pdb
```

Appinbot 1.3.3 (C++ remote access trojan)

cmd.exe
TEMP
OSVer
Win32s
Win9x
WinNT
OSPlatform
Intel
Unknown
HostName
LocalIP
MacAddress
OSArchitecture
ClientVersion
ClientBuildTime
TempDir
ModulePath
PID
ServerPort
ServerAddress
RetrySeconds
Instances
ForceInstall
BuildType
RELEASE
clienthost.com
localhost
Global\ForceClient
Global\Client
MYBACKAPP
\mxp
Invalid MD5 Checksum!
props
drives
list
dlist
Network Neighborhood\
restart
Error %d spawning new process
newclient
ping
Unknown request
Unknown command
Global\
Kernel32.DLL
CreateToolhelp32Snapshot
Process32First
Process32Next
FIDR/
1.2
FIDR/%s
HLO
RPY
SUBSCRIBE %d
MSG
bot
CLOSE %d
ERR
END
ANS
NUL
%sEND
E:\Datahelp\SCode\BOT\MATRIX_1.3.3\CLIENT\Build\Win32\Release\appinclient.pdb
C:\BNaga\SCode\BOT\MATRIX_1.2.2.0\appinbot_1.2_120308\Build\Win32\Release\deleter.pdb

Appinbot 1.3.4 (C++ remote access trojan)

```
Dim objShell
Set objShell = CreateObject("WScript.Shell")
HELPPFILE
OSVer
Win32s
Win9x
WinNT
OSPlatform
Intel
Unknown
HostName
LocalIP
MacAddress
OSArchitecture
ClientVersion
ClientBuildTime
TempDir
ModulePath
PID
ServerPort
ServerAddress
RetrySeconds
Instances
ForceInstall
BuildType
RELEASE
clienthost.com
localhost
Global\{C5826427D996926CEC6D}
Global\{D996926C58264279F42}
MYBACKAPP
\mxp
Invalid MD5 Checksum!
props
drives
xlist
xdlist
Network Neighborhood\
newclient
ping
Global\
Lfsofm43/EMM
CreateToolhelp32Snapshot
Process32First
Process32Next
FIDR/
1.2
FIDR/%s
HLO
RPY
SUBSCRIBE %d
MSG
bot
CLOSE %d
ERR
END
ANS
NUL
%sEND
C:\Documents and
Settings\Administrator\Desktop\Backup\17_8_2011\MATRIX_1.3.4\MATRIX_1.3.4\CLIENT\Build\Win32\Release\appinclient.pdb
C:\Documents and
Settings\Administrator\Desktop\Backup\17_8_2011\MATRIX_1.3.4\MATRIX_1.3.4\CLIENT\Build\Win32\Release\deleter.pdb
```

Linog (C++ downloader)

```
%sConnection: Close
%sContent-Length: %u
%sContent-Type: multipart/form-data;boundary=-----265001916915724
%sHost: %s
POST /%s HTTP/1.1
%s-----265001916915724--
%sContent-Type: application/octet-stream
%sContent-Disposition: form-data; name="%s";filename="%s"
uploadedfile
-----265001916915724
closesocket function failed with error: %ld
connect function failed with error: %ld
recv failed with error: %ld
Connection closed
Error in opening a file..
c:\windows\temp\
GET /%s HTTP/1.1
sspool.vbs
File Downloaded
File not copied..%s
!DOCTYPE HTML PUBLIC
log.txt
.txt
/download/cdata/
c:\windows\temp\task.bat
c:\windows\system32\net view > c:\windows\temp\a1.tmp
c:\windows\system32\netstat.exe >> c:\windows\temp\
c:\windows\system32\net view >> c:\windows\temp\
c:\windows\system32\tasklist.exe >> c:\windows\temp\
c:\windows\system32\systeminfo.exe > c:\windows\temp\
@echo off
a1.txt
sysconfig.dat
/cupload.php
/cdata.php
ThemesManager
\ThemesManager.lnk
%. *s
cscript.exe sspool.vbs
%s, "%s", "%s"
Cratsct "C:\Windows\System32\catroot2\{F750E6C3-38EE-11D1-85E5-00C04FC295EE}\"
End Sub
caliber.Save
caliber.WorkingDirectory = scpat
caliber.Description = "Windows System Property"
caliber.IconLocation = "sysdm.cpl, 0"
caliber.TargetPath = scpat & tcname
Set caliber = sysinterim.CreateShortcut(X & "\" & scname & ".lnk")
X = sysinterim.SpecialFolders("Startup")
Set sysinterim = CreateObject("WScript.Shell")
Dim caliber,sysinterim,X
Sub Cratsct(scpat,scname,tcname)
C:\Windows\System32\catroot2\{F750E6C3-38EE-11D1-85E5-00C04FC295EE}\
slidebar.exe
/cdata/slidebar.exe
C:\Users\hp\Desktop\download\Release\download.pdb
```

Iconfall (C++ Keylogger)

```
TZTUFN]DvssfouDpouspm
Tfu]Dpouspm]Lfzcpbse!Mbzpvut]
MyHttpClient
z{[0-9]+}
w{[a-zA-Z]+}
q{("[^"]*"|'['']*')}
h{[0-9a-fA-F]}
d{[0-9]}
c{[a-zA-Z]}
b{[ \t]}
a{[a-zA-Z0-9]}
shell32.dll
--%s
Content-Disposition:
form-data;
name=
"deport"
"filename";
filename=
Content-Type:
text/plain
Content-Transfer-Encoding:
binary
"submit"
value=
"submit"
GET
POST
Cookie:
charset={[A-Za-z0-9\-\_]+}
Content-Length: {[0-9]+}
Location: {[0-9]+}
Set-Cookie:\b*{.+?}\n
utf-8
{<html>}
{</html>}
F to create
tit=
cont=
Content-Length:
Content-Type: application/x-www-form-urlencoded
POST
iconfall
78DDB5A902BB8FFF3F398B45BEDCD152
00212
multipart/form-data;
boundary=%s
Global\{7F1FE98DA54-23EE99-A9C2A15D90}
Fatal Error: OLE init failed
open
cmd
\M.BSSPX^
\S.BSSPX^
\V.BSSPX^
\E.BSSPX^
\OVNMPDL^
Windows_Classic3264_asdasd
systemDir.l
/c ipconfig /all > "
MyMutex
```

Deksila (C++ Downloader)

```
%userprofile%
cmd
open
ROOT\SecurityCenter2
ROOT\SecurityCenter
SELECT * FROM AntiVirusProduct
WQL
displayName
WinInetGet/0.1
/downstab/test.php?cname=
&str=
&file=
GET
HttpQueryInfo failed, error = %d (0x%x)
InternetReadFile failed, error = %d (0x%x)
htt
p://
/downstab/
\temp\
sucessfully
&res=
Global\{DF97D191AD-92E9-FC504RC25E9A8A3F}
/c xcopy "
"
" /Y
dekstop2007.ico
mozilla20
windows dirctory
```

Auspo (C downloader)

```
VBoxService
VBoxTray
VMware
VirtualPC
wireshark
SandboxieControlWndClass
SbieDll.dll
csetup32.dll
image/jpeg
Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV2)
POWERS
AUSTIN
```

Slidewin (C Keylogger)

```
Software\Microsoft\Windows\CurrentVersion\Run
Software\Microsoft\Windows\CurrentVersion\
Run
C:\WINDOWS\system32\CatRoot2\{F750E6C3-38EE-11D1-85E5-00C04FC295EE}\sidebar.exe
sidebar
Title =
@
[BackSpace]
[Tab]
[Pause]
[Esc]
[PgUp]
[PgDn]
[End]
[Home]
[LeftArrow]
[UpArrow]
[RightArrow]
[DownArrow]
[PrintScreen]
[Insert]
[Delete]
[WinKey]
[ContextMenu]
[F1]
[F2]
[F3]
[F4]
[F5]
[F6]
[F7]
[F8]
[F9]
[F10]
[F11]
[F12]
[NumLock]
[ScrollLock]
[LeftCtrl]
[RightCtrl]
[LeftAlt]
[RightAlt]
[HomePage]
[MuteOn/Off]
[VolumeDown]
[VolumeUp]
[Play/Pause]
[MailBox]
[Calc]
[Unknown]
E:\Data\User\MFC-Projects\KeyLoggerWin32-mktserv\Release\sidebar.pdb
```

Gimwlog (MINGW C Keylogger)

```
file closed-----
md C:\ApplicationData\Prefetch\
copy taskkey.exe C:\ApplicationData\
move C:\ApplicationData\*.txt C:\ApplicationData\Prefetch
log.txt
C:\ApplicationData\
[RIGHT ARROW KEY]
[DOWN ARROW KEY]
[SHIFT]
[ENTER]
[BACKSPACE]
[TAB]
[CTRL]
[DEL]
[LEFT ARROW KEY]
[UP ARROW KEY]
[CAPSLOCK]
size=====d
new file-----
fname2==%s
move %s C:\ApplicationData\Prefetch\
```

Gimwup (MINGW C data harvester)

```
C:\ApplicationData\logFile.txt
copy winservice.exe C:\ApplicationData\
C:\ApplicationData\winservice.exe
MyDir
attrib +h C:\ApplicationData\winservice.exe
C:\ApplicationData\*. *
logFile.txt
*****
scan finished
*****/
=====inside while=====
*.*
Program Files
Program Data
WINDOWS
recycler
RECYCLER
Recycler
ApplicationData
%d-%m-%Y %H-%M-%S
%s%c%s
C:\ApplicationData\Prefetch\
.inp
.ab+
.doc
.docx
.ppt
.pptx
.xls
.xlsx
.pdf
.pps
```

Degrab (Delphi data harvester)

```
%s, ProgID: "%s"  
-----282861610524488  
upload1  
Name  
$h$t$t$p  
/vbupload.php  
&slots=1&  
value1=1&value2=2  
&dis=no&utp=op&mfol=  
$P$O$S$T  
#M#S#X#M#L#2##.#X##M#LH##T#P#  
open  
multipart/form-data;boundary=  
Content-Type  
HHsetRequestHeader  
Content-Disposition: form-data; name="  
"; filename="  
Content-Type: file  
send  
ResponseText  
Exception message =  
Fire.txt  
Firefox is Not Installed.  
\*.dll  
userprofile  
\flgs.dat
```

Appendix D: Project and debug paths extracted from executables

C:\26_10_2010\demoMusic\Release\demoMusic.pdb
C:\26_10_2010\New_FTP_HttpWithLatestfile2\Release\httpbackup.pdb
C:\26_10_2010\New_FTP_HttpWithLatestfile2_FirstBlood_Released\New_FTP_HttpWithLatestfile2\Release\FirstBloodA1.pdb
C:\A\KG\Release\winsvcr.pdb
C:\andrew\Key\Release\Keylogger_32.pdb
C:\app\Http_t\Release\Crveter.pdb
C:\BACK_UP_RELEASE_28_1_13\General\KG\Release\winsvcr.pdb
c:\BackUP-Important\PacketCapAndUpload_Backup\voipsvcr\Release\voipsvcr.pdb
C:\BNaga\backup_28_09_2010\threads tut\pen-backup\BB_FUD_23\Copy of client\Copy of client\appinbot_1.2_120308\Build\Win32\Release\appinclient.pdb
C:\BNaga\kaam\Appin SOFWARES\RON 2.0.0\Release\Ron.pdb
C:\BNaga\kaam\kaam\NEW SOFWARES\firstblood\Release\FirstBloodA1.pdb
C:\BNaga\kaam\kaam\New_FTP_HttpWithLatestfile2_FirstBlood_Released\New_FTP_HttpWithLatestfile2\Release\Ron.pdb
C:\BNaga\kaam\New_FTP_2\Release\ftpback.pdb
C:\BNaga\kaam\New_FTP_HttpWithLatestfile2_FirstBlood_Released\New_FTP_HttpWithLatestfile2\Release\FirstBloodA1.pdb
C:\BNaga\My Office kaam\Appin SOFWARES\HTTP\RON 2.0.0\Release\Ron.pdb
C:\BNaga\SCode\BOT\MATRIX_1.2.2.0\appinbot_1.2_120308\Build\Win32\Release\deleter.pdb
C:\DD0\DD\u\Release\dataup.pdb
C:\Documents and Settings\abc\Desktop\Dragonball 1.0.2(WITHOUT DOWNLOAD LINK)\Release\Ron.pdb
C:\Documents and Settings\Admin\Desktop\Newuploader\Release\Newuploader.pdb
C:\Documents and Settings\Admin\Desktop\SysCache\SysCache\Release\SysCache.pdb
C:\Documents and Settings\Administrator\Desktop\Backup\17_8_2011\MATRIX_1.3.4\CLIENT\Build\Win32\Release\appinclient.pdb
C:\Documents and Settings\Administrator\Desktop\Backup\17_8_2011\MATRIX_1.3.4\MATRIX_1.3.4\CLIENT\Build\Win32\Release\appinclient.pdb
C:\Documents and Settings\Administrator\Desktop\Backup\17_8_2011\MATRIX_1.3.4\MATRIX_1.3.4\CLIENT\Build\Win32\Release\deleter.pdb
C:\Documents and Settings\Administrator\Desktop\Feb 2012\kmail(httpform1.1) 02.09\Release\kmail.pdb
C:\Documents and Settings\Administrator\Desktop\Keylogger_32\Release\Keylogger_32.pdb
C:\Documents and Settings\Administrator\Desktop\nn\Release\nn.pdb
C:\Documents and Settings\Administrator\Desktop\UsbP - u\Release\UsbP.pdb
C:\Documents and Settings\Administrator\Desktop\UsbP\Release\UsbP.pdb
C:\Documents and Settings\Administrator\Desktop\UsbP\UsbP - u\Release\UsbP.pdb
C:\documents and settings\cr01nk\my documents\visual studio 2005\projects\solution\release\stubb.pdb
C:\Documents and Settings\Nand\Desktop\FtpBackup\FtpBackup\Release\Backup.pdb
C:\eqri\Debug\eqri.pdb
C:\fgh\Debug\fgh.pdb
C:\gfg\Debug\gfg.pdb
C:\MNaga\My Office kaam\Appin SOFWARES\HTTP\RON 2.0.0\Release\Ron.pdb
C:\N\k\Release\winsa.pdb
C:\N\sr\Release\waulct.pdb
C:\pen-backup\Copy of client\Copy of client\appinbot_1.2_120308\Build\Win32\Release\appinclient.pdb
C:\pen-backup\Copy of client\Copy of client\appinbot_1.2_120308\Build\Win32\Release\deleter.pdb
C:\Release\waulct.pdb
C:\sd\Debug\sd.pdb
C:\seee\Debug\seee.pdb
C:\smse\Debug\smse.pdb
C:\T\del\Release\winhost.pdb
C:\T\NoInterface\bin\ReleaseProduct\waulct.pdb
C:\Users\admin\Documents\Visual Studio 2008\Projects\DNLDR-no-ip\Release\DNLDR.pdb
C:\Users\God\Desktop\ThreadScheduler-aapnews-Catroot2\Release\ThreadScheduler.pdb
C:\Users\hp\Desktop\download\Release\download.pdb
C:\Users\neeru rana\Desktop\Klogger- 30 may\Klogger- 30 may\Release\Klogger.pdb
C:\Users\PRED@TOR\Desktop\appinbot_1.2_120308\Build\Win32\Release\deleter.pdb
C:\Users\PRED@TOR\Desktop\MODIFIED PROJECT LAB\admin\Build\Win32\Release\appinclient.pdb
C:\Users\PRED@TOR\Desktop\MODIFIED PROJECT LAB\FBackup(source code)\FtpBackup - Copy\Release\Backup.pdb
C:\Users\Yash\Desktop\New folder\HangOver 1.5.7 (Startup) uploader\Release\Http_t.pdb
C:\wua\Debug\wua.pdb
C:\wuaucit\Debug\wuaucit.pdb
D:\december task backup\TRINITY PAYLOAD\Dragonball 1.0.0(WITHOUT DOWNLOAD LINK)\Release\Ron.pdb
D:\Desktop backup\Copy\appinbot_1.2_120308\Build\Win32\Release\appinclient.pdb
D:\Desktop backup\Copy\appinbot_1.2_120308\Build\Win32\Release\deleter.pdb
D:\Documents and Settings\appin\Desktop\backup\Release\ftpback.pdb
D:\Documents and Settings\appin\Desktop\New_FTP_1\New_FTP_1\Release\HTTP_MyService.pdb
d:\final exe\check\Release\check.pdb
d:\May Payload\new keylogger\Fashdance1.0.2\kmail(http) 01.20\Release\kmail.pdb
D:\Monthly Task\August 2011\USB Prop\Usb Propagator.09-24\nn\Release\nn.pdb

D:\Monthly Task\September 2011\HangOver 1.3.2 (Startup)\Release\Http_t.pdb
D:\new versions\FTPUPLoader\FTPUPLoader_NK_1\FtpBackup_source\Release\Backup.pdb
D:\Projects\E lance\ApplnSecurityGroup\FtpBackup\Release\Backup.pdb
D:\projects\windows\MailPasswordDecryptor\Release\MailPasswordDecryptor.pdb
d:\Projects\WinRAR\SFX\build\sfxrar32\Release\sfxrar.pdb
d:\Projects\WinRAR\SFX\build\sfxzip32\Release\sfxzip.pdb
D:\Sept 2012\HangOver 1.5.7 (Startup)\HangOver 1.5.7 (Startup)\Release\Http_t.pdb
D:\Sept 2012\Keylogger\Release\Crveter.pdb
E:\Data\User\MFC-Projects\KeyLoggerWin32-hostzi\Release\slidebar.pdb
E:\Data\User\MFC-Projects\KeyLoggerWin32-mktserv\Release\slidebar.pdb
E:\Data\User\MFC-Projects\KeyLoggerWin32-spectram\Release\slidebar.pdb
E:\Data\User\MFC-Projects\KeyLoggerWin32-Visor\Release\slidebar.pdb
E:\Data\User\MFC-Projects\KeyLoggerWin32-zendossier\Release\slidebar.pdb
e:\Datahelp\KEY\Hancock Kelo 1.1.3(crypted)\keytest\taskmng.pdb
e:\Datahelp\keytest1\keytest\taskmng.pdb
E:\Datahelp\SCode\BOT\MATRIX_1.3.3\CLIENT\Build\Win32\Release\appinclient.pdb
E:\Datahelp\UPLO\HTTP\HTTP_T\17_05_2011\Release\Http_t.pdb
E:\Datahelp\UPLO\HTTP\HTTP_T\20_05_2011\Release\Http_t.pdb
E:\Datahelp\UPLO\HTTP\NEW Up For Trinity\RON 2.3.3\Release\Ron.pdb
E:\Documents\Visual Studio 2005\Projects\EncryptionUtility\EncryptionUtility\obj\Debug\EncryptionUtility.pdb
E:\June mac payloads\final Klogger-1 june-Fud from eset5.0\Klogger- 30 may\Klogger- 30 may\Release\Klogger.pdb
E:\June mac payloads\Keylogger backup\final Klogger-1 june-Fud from eset5.0\Klogger- 30 may\Klogger- 30 may\Release\kquant.pdb
E:\My\lan scanner\Task\HangOver 1.2.2\Release\Http_t.pdb
E:\New folder\payload backup\OTHER\Uploder\HangOver 1.5.7 (Startup)\HangOver 1.5.7 (Startup)\Release\Http_t.pdb
F:\Backup-HP-ABCD-PC\download\Release\download.pdb
f:\keyloger\KeyLog\keytest1\keytest\taskmng.pdb
f:\Projects\VS2005\WebBrowserPassView\Release\WebBrowserPassView.pdb
F:\Utility\Release\Utility.pdb
G:\august\13 aug\HangOver 1.5.7 (Startup) uploader\Release\Http_t.pdb
J:\backup E\SourceCodeBackup\september\aradhana\HangOver 1.5.3 (Startup)\Release\Http_t.pdb
N:\payloads\Trinity\Uploader\Tourist 2.4.5 (Down Link On Resource) -L(fud norton360internet security)\Release\Ron.pdb
P:\payloads\new backup feb\SUNDAY\kmail(http) 01.20\kmail(http) 01.20\Release\kmail.pdb
R:\payloads\ita nagar\Uploader\HangOver 1.5.7 (Startup)\HangOver 1.5.7 (Startup)\Release\Http_t.pdb
S:\final project backup\task information\task of september\Tourist 2.4.3 (Down Link On Resource) -L\Release\Ron.pdb
T:\final project backup\complete taskof ad downloader & usb grabber&uploader\New folder\with icon +shortcut link\HangOver 1.5.3 (Startup)\Release\Http_t.pdb
T:\final project backup\uploader version backup\fud all av hangover1.5.4\with icon +shortcut link\HangOver 1.5.3 (Startup)\Release\Http_t.pdb
T:\final project backup\uploader version backup\HangOver 1.5.3 (Startup)\Release\Http_t.pdb
T:\New folder\with icon +shortcut link\HangOver 1.5.3 (Startup)\Release\Http_t.pdb
Y:\New folder\with icon +shortcut link\HangOver 1.5.3 (Startup)\Release\Http_t.pdb
Y:\final project backup\UPLODER FTP BASED\New folder\Tron 1.2.1(Ftp n Startup)\Release\Http_t.pdb
Y:\Http uploader limited account\Http uploader limited account\RON 2.0.0\Release\Ron.pdb
Y:\Uploader\HTTP\HTTP Babylon 5.1.1\HTTP Babylon 5.1.1\Httpbackup\Release\HttpUploader.pdb
Y:\Uploader\HTTP\Tourist uplo\Tourist Uplo 2.3.1\Release\Ron.pdb
Z:\Uploader\HTTP\ron uplo\RON 2.0.0\Release\Ron.pdb
C:\Documents and Settings\Administrator\Desktop\Main Uploader\ServiceSample.vbp
C:\Documentation\samples\ServiceSample.vbp
D:\PROJECT\samples\ServiceSample.vbp
D:\PROJECT\CMU\ServiceSample.vbp
C:\Users\HOME\Desktop\Main Uploader\ServiceSample.vbp
D:\applications\Http downloader(fud)\Project1.vbp
C:\Documents and Settings\Application\Desktop\smtp\new appin\Project1.vbp
C:\Users\PC\Desktop\Troj Creators\Common Main Uploader\ServiceSample.vbp
C:\Users\PC\Desktop\Common Main Uploader\ServiceSample.vbp
C:\Users\Yash\Desktop\PAYL\advd\projSmkdWn.vbp
D:\YASH\PRO\MY\DELIVERED\2012\DOWNLOADERS\SmkDwnNew(dual)\projSmkdWn.vbp
C:\Users\Yash\Desktop\SmkDwnNew\projSmkdWn.vbp
C:\PAYL\PAYL\advd\projSmkdWn.vbp
D:\YASH\PRO\MY\DELIVERED\2012\DOWNLOADERS\Smack6\90\92\AngelPro.vbp
D:\YASH\PRO\MY\DELIVERED\2012\DEMC\Without_ocx_class\NewCardGameBased\Project1.vbp
D:\YASH\SOFTs\PRO\MY\DELIVERED\Downloader\tempdwn\Cryp of tempdwn\Project1.vbp
C:\Documents and Settings\Administrator\Desktop\WORKSTATION\Cryp of tempdwn\Project1.vbp
C:\Documents and Settings\Administrator\Desktop\Downloader\tempdwn\Cryp of tempdwn\Project1.vbp
D:\YASH\PRO\MY\DELIVERED\Downloader\tempdwn\Cryp of tempdwn\Project1.vbp
D:\YASH\PRO\MY\DELIVERED\RAT\Dragon-Eye\De-Mini\New_server\modify\New_LNK\Another_FUD\M\Circles.vbp
D:\YASH\PRO\MY\DELIVERED\2012\DOWNLOADERS\12kib\Project1.vbp
C:\Http downloader(fud)\Project1.vbp
C:\miNaPro.vbp

C:\C\miNaPro.vbp
D:\YASH\PRO\MY\DELIVERED\2012\DOWNLOADERS\compiled\NewSmack(sep2012)\miNaPro.vbp
C:\A\miNaPro.vbp
C:\ProjNaramGaram.Vbp
D:\YASH\PRO\MY\DELIVERED\Downloader\tempdwn\tempdwn_hardcoaded(Good)\smackdown4\smack4.2\ProjNaramGaram.vbp
D:\YASH\PRO\MY\DELIVERED\2012\DOWNLOADERS\Smack6\70\ProjNaramGaram.vbp
C:\Documents and Settings\Administrator\Desktop\NewDw\Soundman.vbp
D:\YASH\PRO\MY\DELIVERED\2012\KEYLOGGERS\English Only\new\without_Logfile\ProLocalKilr.vbp
C:\XXX\loclKeylr\ProLocalKilr.vbp
C:\proTymTin.vbp
C:\Documents and Settings\Micro-soft\Desktop\Keylogger Mozartin\UpdateEx\UpdateEx.vbp
C:\Documents and Settings\Administrator\Desktop\Kylo\Keylogger Mozartin\UpdateEx\UpdateEx.vbp
C:\Documents and Settings\Admin\Desktop\Keylogger Code\UpdateEx\UpdateEx.vbp
C:\Documents and Settings\Admin\Desktop\UpdateEx\UpdateEx\UpdateEx.vbp
C:\Documents and Settings\Micro-soft\My Documents\BackUp\Keylogger Mozartin\UpdateEx\UpdateEx.vbp
C:\Documents and Settings\Admin\Desktop\Trojan Code\ServiceSample.vbp
x.vbp
C:\Documents and Settings\Administrator\Desktop\Keylogger Mozartin\UpdateEx\UpdateEx.vbp
D:\Work\UpdateEx\UpdateEx\UpdateEx.vbp
C:\Documents and Settings\Admin\Desktop\Keylogger UpdateEx\UpdateEx\UpdateEx.vbp
C:\pranVacghanpr.vbp
D:\YASH\PRO\MY\DELIVERED\2012\DOWNLOADERS\Smack6\70\81\pranVacghanpr.vbp
C:\new_smackdown8\pranVacghanpr.vbp
D:\YASH\PRO\MY\DELIVERED\2012\DOWNLOADERS\compiled\SmkDwnNew(dual)\14-8\vampro.vbp
C:\GroundPlayer.vbp
D:\YASH\PRO\MY\DELIVERED\2012\DEMC\GroundPlayer.vbp
D:\YASH\SOFTS\PRO\MY\DELIVERED\UPLOADERS\New_up\bkup_nonObfus\plain\Project1.vbp
C:\Documents and Settings\Administrator\Desktop\New_server\modify\Calculator.vbp
C:\Users\Yash\Desktop\WinSockAPI_Fud1\WinSockAPI_Fud\Project1.vbp
C:\wylgoh\gmbor.vbp
r.vbp
C:\Documents and Settings\Administrator\Desktop\SlayerUD\New_server\Project1.vbp
s.....vbp
C:\H\Horiginal\Project1.vbp
C:\cameraman.vbp
C:\SimpleTCPChat.vbp
D:\YASH\PRO\MY\DELIVERED\2012\UPLOADER\BOTH\Project1.vbp
C:\Documents and Settings\Administrator\Desktop\HOG_ver3\Client\BKUPs\withoutArrayBkup\withoutArrayBkup(with
WMI)\ServerZ\Server.vbp
D:\YASH\PRO\MY\DELIVERED\2012\sdsdasdwasdasdasdasdasd\RAT_pramala\Project1.vbp
E:\MY\DELIVERED\2012\DOWNLOADERS\compiled\snaperCompressVb\bkups\ServerItan\Project1.vbp
C:\Documents and Settings\Administrator\Desktop\WORKSTATION\tempdwn_hardcoaded(Good)\wit_LNK_without_office\PaintBrush.vbp

Appendix E: Domain names connected to case

acc0unts.g00gle.c0m.srccail.com
account.istumpenunddosiertechneik.de.continuelogs.info
accounts.facbook.com.continuelogs.info
accounts.yandex.ru.continuelogs.info
accounts.ymail.com.mailcache.info
accounts.you-tube.com.analogwiz.org
accounts.yutube.com.continuelogs.info
activetalk.org
add-on-update.com
addon-updates.com
addoup.com
adminassistance.net
advnotifier.com
alr3ady.net
alreadytrue.com
amaxgrp.net
analogwiz.org
analysisihunter.org
anoniemvolmacht.com
appinsecurity.com
applehostpoint.info
approvalclub.org
appworldblackberry.info
armordesigns.com.webmail-login.php.web-mail-services.info
autowid.com
autowidge.org
avandtalsecurity.com
avatarfanclub.com
bbc-news.com.influxlog.org
bbupdate.net
bikefanclub.info
bkltmc.com
blogpublication.org
bluebird-restaurant.co.uk.infocardiology.biz
bluecreams.com
bmcmail.org
brandsons.net
braninfall.net
buildyourinfo.org
c0mpany4u.net
cabcardinc.net
cablecomsolutions.net
callersview.org
calling4you.com
callvoipnow.com
casinoaffiliatepartners.net
cellgame.org
centstat.org
cheetah4u.net
chiccounty.net
chkpoint.info
chroniclesupport.net
clamerword.net
clienttreasury.net
cloudone-opsources.com
cmegroups.net
cmxgrp.net
cobrapub.com
codetesters.org
com-mailservice.com
competitveedge.org
config-login.com
connectopen.info
continuelogs.info
coolhostingwebspace.com

cpbatch.org
cppblog.net
cr3ator01.net
crestboard.org
crowcatcher.net
crvhostia.net
cryptoanalysis.net
crystalrepo.org
csfserver.com
cupzon.org
currentnewsstore.com
customerpbr.com
deltaairlines.com.config.services.data.sesion.24s.digitalapp.org.evitalcare.org
deltadegger.net
denismoble.info
devilreturns.com
devinmartin.net
dexlab.info
digitalapp.org
digitooldeals.net
divinepower.info
doc.gmail.com-callgate-6.65.2.0-rms-6.65.2.0-
attachment.view.folderid.2messageid.ndi3n6rrgwneufhoqxgxdxmampattachmentid.20121206125116.5755maild0aa.evitalcare.org
docsforum.info
dosendit.com
downdossiersup.net
downfilesup.com
downtimesupport.com
easternsoft.org
easyhost-ing.com
easyslidesharing.net
educatediary.org
elementspro.org
endemol.com.mailcache.info
enetebookstore.com
enlighten-energy.org
esnucleus.org
espressoday.org
evitalcare.org
evolvingdesk.org
extrememachine.org
ezservicecenter.org
ezxen.org
ezyvalue.net
f00dlover.info
facebook.comaccountsserviceloginservicemail2.serviceaccountloginservicemail.info
fapize.com
fasttrackagent.net
fb-time.net
file-easy.net
filesassociate.net
filesconnect.info
filesforum.net
fileshreader.net
filetrusty.net
fiservtech.org
fistoffury.net
fitnessapproval.org
follow-ship.com
fonografia.pl
footwallfanclub.com
forest-fire.net
foxypredators.com
frameworkup.org
ftp.alr3ady.net
ftp.braninfall.net
ftp.currentnewsstore.com
ftp.devilreturns.com

ftp.forest-fire.net
ftp.global-internet.info
ftp.kungfu-panda.info
ftp.matrixfanclub.net
ftp.net4speed.net
ftp.nvidiaupdate.net
ftp.r3gistration.net
ftp.s3rv1c3s.net
fuzzyfile.net
gadgetscorner.org
gamezoneall.com
gauzpie.com
geonet.org.sockzon.org
get.adobe.flash.softmini.net
global-blog.net
global-internet.info
gnuvisor.com
go-jobs.net
google.accounts.service.adminassistance.net
google.com.accounts.serviceloginservice.info
google.com.accounts.serviceloginservice.maileng.serviceaccountloginservice.mail.info
google.com.account.database.updates.services.web-mail-services.info
google.com.accounts.serviceloginservice.mailen.serviceaccountloginservice.mail.info
groupskm.info
gxongame.info
h3helnsupp0ort.com
hangoutgroups.net
hangoutshop.net
hangovergroup.com.coolservice.continuelogs.info
hardwaregeeks.eu
heavenaffiliates.info
help-e.net
herbco.document.digitalapp.org
heritage-society.com
hifisure.org
hintover.com
hostmypc.net
host-stuff.net
hotbookspot.info
hotupdates.com.sockzon.org
hycoxable.com
hycoxweb.org
i-dim.net
idsconline.net
imagebar.org
influxlog.org
infocardiology.biz
inforguide.org
infoteller.org
infraswap.org
innovatorspool.org
internet-security-suite-review.toptenreviews.com.avanttotalsecurity.com
internet-security-suite-review.toptenreviews.com.infocardiology.biz
islamic-teacher.org
itechtoys.org
jasminjorden.com
jerrycooper.org
joyfulhalloween.com
joymailserver.org
keepawayfromfire.com
khalistancalling.com
knight-quest.com
kungfu-panda.info
kzosune.net
login.facebook.com.srccail.com
login.youtube.com.srccail.com
login.yahoo.com.srccail.com
leicesterhigh.eu

lifelogs.org
linked-in.c0m.srcm-ail.info.srccail.com
linkedin.com-callgate-6.65.2.0-rms-6.65.2.0-
attachment.view.folderid.2messageid.ndi3n6rrgwnuefhoqxgdxmampattachmentid.20121206125116.5755maild0aa.evitalcare.org
linkedin.com-uas.login-submit.account.session-full.login-3a5077708027557787984-csrfToken.buildyourinfo.org
linkspectra.com
linxauth.org
livesunshine.info
liveupdatesonline.net
login.facebook.com-config.verify.login.src-ym.mailcache.info
login.live.com.continuelogs.info
login.live.com.mailcache.info
login.orientelekom.rs.accountsserviceloginservice.info
login.yahoo.com-config-verify2.woline.info
logstat.info
lynberrg.com
m.ymail.com.continuelogs.info
m.ymail.com.mailcache.info
macsol.org
mail.carmel.us.exchweb.bin.auth.owalogon.asp.serviceaccountloginservicemail.info
mail.download.influxlog.org
mail.enrc.com-attachment.download.infocardiology.biz
mail.google.com-attachments.mail.u-01.infocardiology.biz
mail.joymailserver.org
mail.myorderbox.org
mail.telenor.no-cookieauth.dll-getlogon-reason-0.f ormdir-1-curl-z2fowaz2f.infocardiology.biz
mail.wildenstein.com.accountsserviceloginservice.info
mail-attachment.usercontent.evitalcare.org
mailcache.info
mailexservices.com
mailoff.org
mailexservicesupport.org
mailssh.info
mailtechsolutions.org
makecmag.info
martcas.org
matewiz.org
matrixfanclub.net
maxtourguide.info
mcosine.org
megafairclub.org
megamediafile.com
mexchange.info
mgclog.com
mildstone.net
mjtag.org
mktsev.info
mobiappword.com
mobileappsupport.com
mobileappworld.info
mobilemyown.info
mobilesoftwaremanagement.info
mobilesoft.net
mobiletechspa.org
mobiltechsoft.org
mobnetserver.com
motate.net
mosglobe.org
motsoul.org
mozarting.com
mozilaupdate.com
mpale.org
msfileshare.net
msoftweb.com
mujahidtarana.com
my.screenname.aol.com.mjtag.org
my.screenname.aol.com.accountsserviceloginservice.info
myscreename.aol.com.srccail.com

myfilestuff.net
mymail.bezeqint.co.il.accounts.servicelogin.service.info
mymyntra.net
mysharpens.com
myvoipp0wer.com
n00b4u.com
naclpro.org
net4speed.net
netmosol.info
neverforget1984.org
new-agency.us
newamazingfacts.com
newsgroupupdate.com
news-report.sockzon.org
nexterchk.net
nitr0rac3.com
nlsec.org
novelseller.org
ns1.activetalk.org
ns1.adobesoftwareupdates.com
ns1.alreadytrue.com
ns1.authserv.org
ns1.brandsons.net
ns1.braninfall.net
ns1.chroniclerv.org
ns1.competitveedge.org
ns1.continuelogs.info
ns1.ctswebup.info
ns1.dataconnects.net
ns1.directionmico.org
ns1.dmzone.info
ns1.doc-files.info
ns1.enetebookstore.com
ns1.esbasis.info
ns1.evitalcare.org
ns1.ezservicecenter.org
ns1.ezyvalue.net
ns1.f00dlover.info
ns1.forest-fire.net
ns1.foxy predators.com
ns1.go-jobs.net
ns1.gxongame.info
ns1.hackerscouncil.com
ns1.host-stuff.net
ns1.hotbookspot.info
ns1.infocardiology.biz
ns1.justdialforu.com
ns1.kjmailserv.org
ns1.knowledgepower.info
ns1.kungfu-panda.info
ns1.line-web.net
ns1.link-live.net
ns1.logserv.org
ns1.matrixfanclub.net
ns1.matrixtriology.com
ns1.maxtourguide.info
ns1.mjtag.org
ns1.naclpro.org
ns1.newamazingfacts.com
ns1.oscarneves.org
ns1.oonline.info
ns1.ozonparty.info
ns1.pajerolive.com
ns1.parrotcatcher.com
ns1.pickmail.org
ns1.programmersheavengroup.com
ns1.racrage.info
ns1.s0pp0rtdesk.com

ns1.secuina.net
ns1.securedocx.info
ns1.sendsh33p.com
ns1.servwh.org
ns1.shopertock.net
ns1.sockzon.org
ns1.solraise.info
ns1.speedaccelator.com
ns1.sportswomen.biz
ns1.srccail.com
ns1.stretcherservices.net
ns1.supersolus.org
ns1.thedailynewsheadline.com
ns1.wearwellgarments.eu
ns1.woline.info
ns1.wvsolution.org
ns1.xmailserv.org
ns1.zerodayexploits.org
ns1.zonalship.org
ns1.zoninfo.org
ns2.activetalk.org
ns2.alreadytrue.com
ns2.brandsons.net
ns2.braninfall.net
ns2.chroniclerv.org
ns2.competitveedge.org
ns2.continuelogs.info
ns2.enetebookstore.com
ns2.esbasis.info
ns2.evitalcare.org
ns2.ezservicecenter.org
ns2.ezyvalue.net
ns2.f00dlover.info
ns2.forest-fire.net
ns2.foxy predators.com
ns2.go-jobs.net
ns2.gxongame.info
ns2.hackerscouncil.com
ns2.host-stuff.net
ns2.hotbookspot.info
ns2.infocardiology.biz
ns2.knowledgepower.info
ns2.kungfu-panda.info
ns2.matrixfanclub.net
ns2.maxtourguide.info
ns2.mjtag.org
ns2.naclpro.org
ns2.newamazingfacts.com
ns2.pajerolive.com
ns2.parrrotcatcher.com
ns2.programmersheavengroup.com
ns2.s0pp0rtdesk.com
ns2.sendsh33p.com
ns2.serialxbox.org
ns2.shopertock.net
ns2.sockzon.org
ns2.speedaccelator.com
ns2.sportswomen.biz
ns2.srccail.com
ns2.stretcherservices.net
ns2.supersolus.org
ns2.thedailynewsheadline.com
ns2.vlogserv.org
ns2.wearwellgarments.eu
ns2.woline.info
ns2.zerodayexploits.org
ns2.zonrow.org
nvidiaupdate.net

oliveglobals.com
omg-pics.net
onestop-shops.com
onlinestoreapp.net
onlinewebmail.net
opendocs.info
opendocxsupport.net
openhostingtalk.com
opensourceforum.eu
opnsrc.net
osservices.info
outgateway.com
ozonerim.net
packetwarden.net
pajerolive.com
parrotcatcher.com
periodtable.eu
pfv6jyg1rdo9ptku.mxsvr.net
pharmamktng.eu
picasa-album.com
picasa-album.net
pics-bucket.net
piegauz.net
pizzapalace.org
plus.google.com.serviceI0gin.gxongame.info
primaaltus.org
privatemoneyblog.org
programmersheavengroup.com
r3gistration.net
rackitupstorenew.net
racmania.net
random123.site11.com
re-buke.com
redgolfclub.info
reliable-global.net
researcherzone.net
researchhunter.org
researchwork.org
rghsv.com.accountsserviceIogin.service.info
rigidphotography.com
ritowship.net
ritualpoint.org
rockingdevil.net
s0pp0rtdesk.com
s3rv1c3s.net
saboresnativos.net
scrm-ail.info
searchports.info
secuina.net
secure.metacafe.com-account-login-token.accountsserviceIogin.info
secure-copy.com
securedmx.net
secureplanning.net
secure-s.com
secure-solution.net
securingyourself.net
sendsh33p.com
server003.com
server006.com
server721-hans.de-nservers.de.continuelogs.info
serverrr.com
servetools.org
serviaccive.com
serviceaccountloginserviceIogin.info
serviceagent.us
service-secure.net
servicesonlinesupportinfo.com
servorder.org

sh3llypunk.com
share-home.net
shoperstock.com
shopertock.net
shopie.net
shoppingcard.net
shoppingcenter.net
shopping-hub12.com
shoppingspawn.com
shreadersupport.net
signedz.com
skylarzone.org
slamburger.net
smackdownfanclub.eu
smclog.org
smurfprotection.org
sochglobal.net
sockzon.org
softmini.net
softservices.org
softwaresupdates.info
sonificaton.com
sped0m00d.com
speedaccelator.com
spidercom.info
spiritlog.org
sports-interaction.net
sportswomen.biz
spstack.org
srccail.com
starc crunch.org
starmobnetservice.net
starshome.comeze.com
starsoel.org
store-fb.net
stretcherservices.net
supersolus.org
supertechnoclub.com
supportanswer.net
support-tech.info
synergyrealsolutions.net
systemcrack.com
systemupd.com
systoolsonline.org
taraanasongs.com
test.enciris.eu
testerspoint.info
thedailynewsheadline.com
tmkstore.org
tollmart.org
torqspot.org
tourtime.org
tow3r.info
tradeobjective.net
traderspace.org
trend-mico.net
trustworthyinfo.com
tulip.net.inforguide.org
undertaker.no-ip.org
unisafeservice.org
vall3y.com
viewerstalk.org
viragenonline.com
visordan.org
vkspoke.org
vkverbal.org
voip-e.net
vstrend.org

wagonact.org
wakeupindian.net
wearwellgarments.eu
webjavaupdate.com
webmail.juno.com.accountsserviceloginservice.info
webmail.stevens.edu.authenticateservicemail.accountsservicelogin.info
webmailaccountservicemail.info
web-mail-services.info
webmicrosoftupdate.net
wedzon.org
we-tour.net
whostmrage.org
wizcheck.org
wizsplit.org
wolfensteinx.net
woline.info
wondersofworld.eu
workinglab.org
worksmartplay.com
workspacecz.net
worldcitycenter.net
worldread.net16.net
worldtourismnews.info
wreckmove.org
www.alintiqad-newsonline.blogspot.com.continuelogs.info
www.analysishunter.org
www.cytanet.com.accountsserviceloginservice.info
www.ebox.co.il.accountsserviceloginservice.info
www.email.t-online.de.accountsserviceloginservice.info
www.espressoday.org
www.facebook.com-l0giin.php.mstl0giintocpassiive-trrue.contiinue-2fsiignin3faction.handle.siignin3dtrrue26feature3dppromo.siignin26nl-en.us-idtmpl.sso.supersolus.org
www.facebook.com-l0gin.php.mstl0giintocpassiive-trrue.contiinue-2fsiignin3faction.handle.siignin3dtrrue26feature3dppromo.siignin26nl-en.us-idtmpl.sso.chronicleserv.org
www.fonografia.pl
www.foxy predators.com
www.go0gle.com-serviicelogiin.authserv.gxongame.info
www.google.com.accountsserviceloginservice.info
www.insing.com.accountsserviceloginservice.info
www.login.comcast.net.accountsserviceloginservice.info
www.login.orientelekom.rs.accountsserviceloginservice.info
www.login.yahoo.com.accountsserviceloginservice.info
www.m.youtube.com.accountsserviceloginservice.info
www.mail.houseofjoyltd.com.accountsserviceloginservice.info
www.mail.luckltd.com.accountsserviceloginservice.info
www.mail.rediff.com.accountsserviceloginservice.info
www.mexchange.info
www.microsoft.com.chiccounty.net
www.mlogin.yahoo.com.continuelogs.info
www.mobilesoftwaremanagement.info
www.my.screenname.aol.com.accountsserviceloginservice.info
www.mymail.bezeqint.co.il.accountsserviceloginservice.info
www.produkte.web.de.accountsserviceloginservice.info
www.secure.metacafe.com-account-login-token.accountsservicelogin.info
www.server721.han.de.nserver.de.continuelogs.info
www.shoperstock.com
xylotech.org
ymadmin.net
you-post.net
youtube.com.accountsserviceloginservicemail.serviceaccountloginservicemail.info
youtube.comaccountsserviceloginservicemail2.serviceaccountloginservicemail.info
zendossier.org
zerodayexploits.org
zeusagency.net
zolipas.info
zonalon.org
zonalsky.org

Appendix F: IP addresses connected to case

These are some IP addresses that have at some point been related to the HangOver attack infrastructure. Note that IP addresses are non-static, and many of these may now be in use by legitimate users.

109.203.110.103	176.31.79.49	209.85.51.152	37.59.208.94	79.142.64.97
109.235.49.147	176.31.79.50	213.5.65.20	37.59.231.161	79.142.64.98
109.235.49.148	176.31.79.51	213.5.65.223	46.182.104.70	79.142.64.99
109.235.49.157	176.31.79.56	213.5.65.24	46.182.104.72	79.142.78.101
109.235.49.158	176.61.140.119	213.5.65.31	46.182.104.83	79.142.78.102
109.235.49.188	178.32.75.192	213.5.71.20	46.182.104.85	79.142.78.107
109.235.49.193	178.32.75.193	213.5.71.24	46.182.105.40	79.142.78.109
109.235.49.235	178.32.75.194	213.5.71.26	46.182.105.41	79.142.78.110
109.235.49.236	178.32.75.195	213.5.71.27	46.182.105.43	79.142.78.111
109.235.49.43	178.32.75.196	213.5.71.28	46.182.105.60	79.142.78.112
109.235.50.191	178.32.75.197	213.5.71.31	46.4.187.60	79.142.78.120
109.235.50.215	178.32.75.198	216.188.26.235	46.4.215.38	79.142.78.76
109.235.50.233	178.33.131.34	216.24.202.100	5.34.242.129	79.142.78.79
109.235.50.246	178.33.154.49	216.24.204.243	5.39.11.72	79.142.78.80
109.235.51.100	178.33.154.51	216.24.204.245	5.39.36.56	79.142.78.83
109.235.51.153	178.33.154.52	31.170.161.136	5.39.36.57	8.22.200.44
109.235.51.254	178.33.154.53	31.170.161.56	5.39.36.58	8.23.224.90
109.235.51.50	178.33.154.54	31.170.162.23	5.39.36.59	88.198.86.168
109.235.51.51	178.33.187.74	31.214.169.86	5.39.36.60	88.198.86.172
141.101.239.128	178.33.187.75	31.214.169.87	5.39.36.61	89.207.135.120
141.8.224.25	178.33.187.76	31.3.154.110	5.39.97.57	89.207.135.239
141.8.225.7	178.33.187.77	31.3.154.111	5.39.97.58	89.207.135.242
151.237.188.167	178.33.187.78	31.3.154.113	64.120.135.137	89.207.135.61
173.199.145.140	178.33.210.30	31.3.154.114	65.75.243.251	89.45.249.129
173.224.215.230	178.33.214.194	31.3.154.115	66.148.67.20	89.45.249.136
173.233.80.145	184.107.159.18	31.3.154.116	69.43.161.179	89.45.249.139
173.233.80.146	184.154.217.250	31.3.154.117	69.43.161.180	89.45.249.208
173.233.80.147	184.154.254.51	31.3.155.106	72.44.81.88	89.45.249.41
173.233.80.152	184.154.254.54	37.221.166.15	74.117.62.170	91.214.45.187
173.233.85.134	184.22.69.109	37.221.166.36	74.117.62.181	94.102.49.199
173.236.117.205	184.82.180.105	37.221.166.42	75.127.111.100	94.102.49.201
173.236.24.250	188.165.148.68	37.221.166.47	75.127.111.143	94.102.49.202
173.236.24.251	188.165.148.70	37.221.166.48	75.127.91.118	94.102.49.203
173.236.24.252	188.240.47.145	37.221.166.49	75.127.91.16	94.102.49.204
173.236.24.254	188.240.47.220	37.221.166.53	78.46.129.193	94.102.49.55
173.236.68.99	188.241.113.27	37.221.166.55	78.46.129.194	94.102.49.56
174.120.28.61	188.241.114.160	37.221.166.58	78.46.169.168	94.102.55.80
176.31.4.128	188.241.115.127	37.221.166.61	79.142.64.177	94.185.81.151
176.31.4.129	188.241.117.163	37.221.166.7	79.142.64.178	94.185.81.152
176.31.4.130	188.95.48.99	37.221.166.8	79.142.64.181	94.185.81.153
176.31.53.165	192.210.203.181	37.221.166.9	79.142.64.183	95.143.42.195
176.31.53.166	199.119.203.102	37.46.127.75	79.142.64.32	95.143.42.217
176.31.53.167	199.119.203.103	37.46.127.76	79.142.64.34	95.143.42.218
176.31.65.124	199.119.203.85	37.46.127.77	79.142.64.36	95.154.237.11
176.31.65.125	199.119.203.86	37.46.127.78	79.142.64.37	95.211.131.144
176.31.65.126	199.204.248.107	37.46.127.79	79.142.64.39	96.30.46.216
176.31.65.127	199.71.212.164	37.46.127.81	79.142.64.47	
176.31.79.48	199.71.212.183	37.59.175.130	79.142.64.49	

Appendix G: Sample MD5's

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023d82950ebec016cd4016d7a11be58d
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