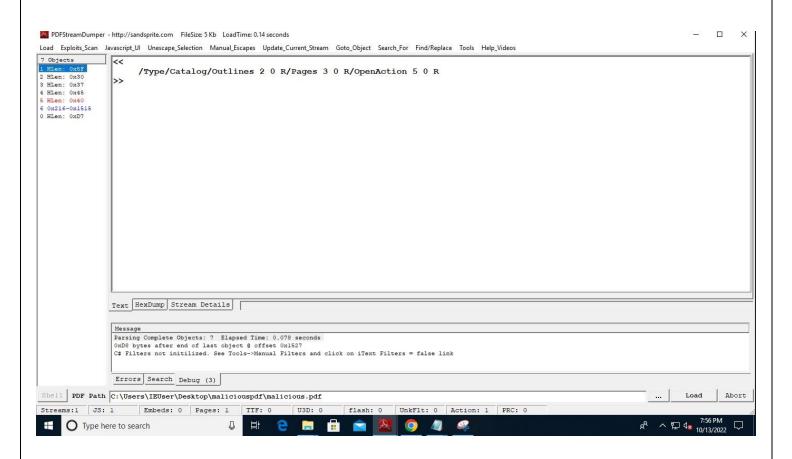
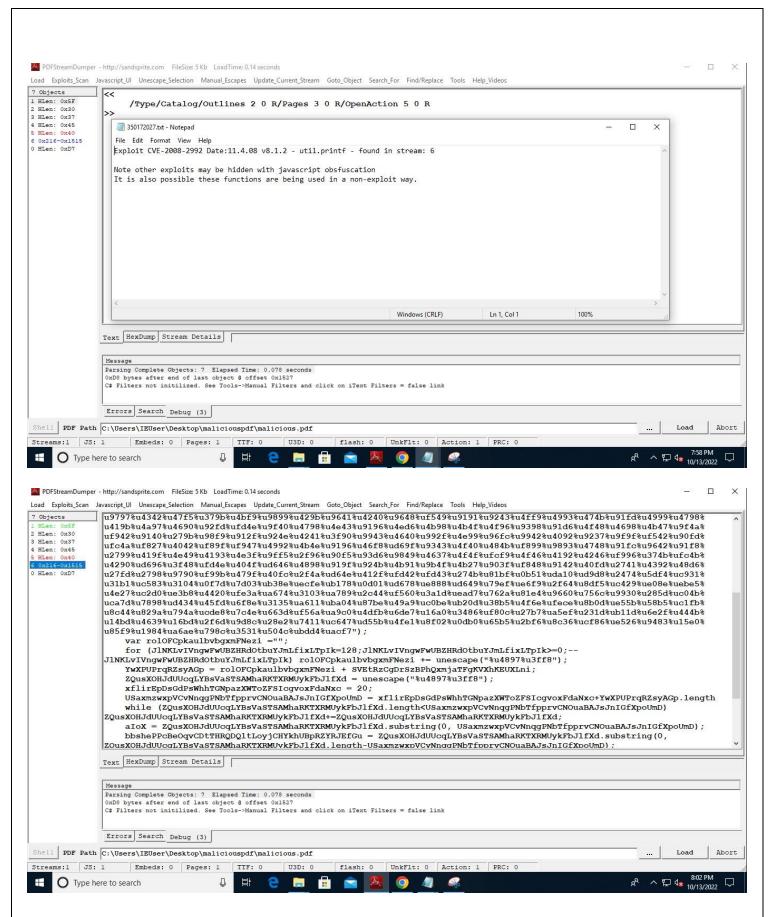
Malicious PDF File Analysis - No. 11

We have used pdfstreamdumper to analyze the malware and for the first, we have performed static analyze using exploit scan functionality of pdfstreamdumper.

Before that, as soon as the file gets uploaded into stream dumper, we could see the objects of raw pdf at the left side panel and there were 7 Objects.



After performing exploit scan, buffer overflow exploit was being discovered which could be seen in the below figure. Also opening the pdf file triggered an exe to run (calculator.exe)



As seen above, Object-6 has javascript code.

The javascript code, which is infact obfuscated was being converted to raw and tried to make a executable shell file out of it.

QUICK INFO

CVE Dictionary Entry:

CVE-2008-2992

10/30/2018 Source:

MITRE

NVD Published Date:

NVD Last Modified:

₩CVE-2008-2992 Detail

MODIFIED

This vulnerability has been modified since it was last analyzed by the NVD. It is awaiting reanalysis which may result in further changes to the information provided.

Current Description

Stack-based buffer overflow in Adobe Acrobat and Reader 8.1.2 and earlier allows remote attackers to execute arbitrary code via a PDF file that calls the util.printf JavaScript function with a crafted format string argument, a related issue to CVE-2008-1104.

— Hide Analysis Description

Analysis Description

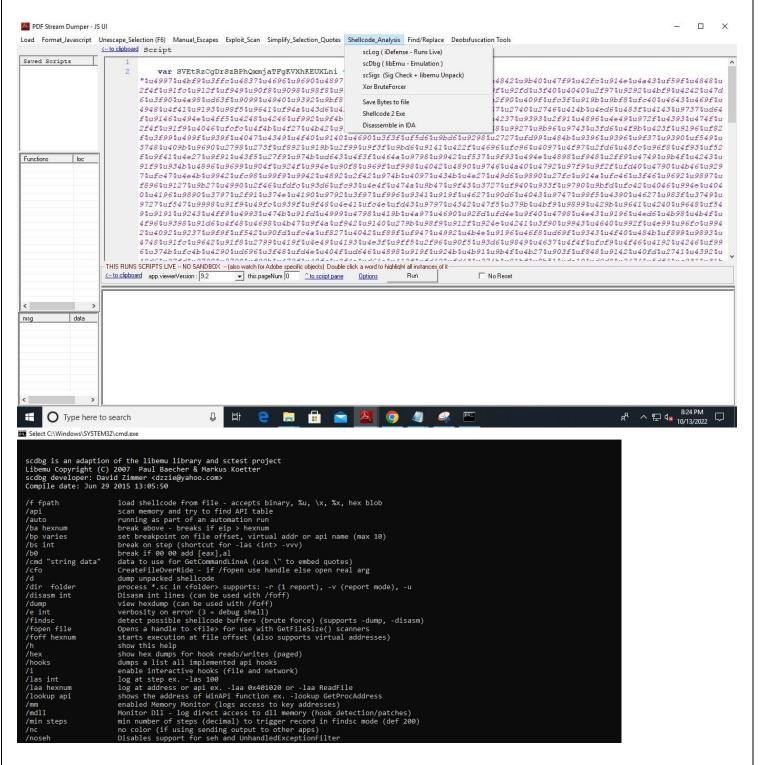
Stack-based buffer overflow in Adobe Acrobat and Reader 8.1.2 allows remote attackers to execute arbitrary code via a PDF file containing a crafted format string in the util, printf JavaScript function.

Much about the exploit which was being discovered could be found above. Also no filters we found (Filters not initiated)

Message

Parsing Complete Objects: 7 Elapsed Time: 0.078 seconds
0xD8 bytes after end of last object @ offset 0x1527
C# Filters not initilized. See Tools->Manual Filters and click on iText Filters = false link

Also we have performed shellcode analysis emulation, and cmd with few options was popped up.



Also even after exploring all the objects, NO SECRET CODE was found.