## **Analysis Malicious Documents Cheat Sheet**

# **PDF Analysis**

### Risky PDF Keywords

/OpenAction and /AA specify the script or action to run	/JavaScript, /JS, /AcroForm, and /XFA can specify JavaScript
automatically	to run
/URI accesses a resource by its URL, perhaps for phishing	/SubmitForm and /GoToR can send data to URL.
/RichMedia can be used to embed Flash in a PDF.	/ObjStm can hide objects inside an object stream
/XObject can embed an image for phishing.	

# PDF Tool

Tool	Use it for
pdfid.py <i>file.pdf</i> -n	Display risky keywords present in file file.pdf.
pdf-parser.py <i>file.pdf</i> -a	Show stats about keywords. Add "-O" to include object streams.
pdf-parser.py sample_doc.pdf -s Javascript	Display risky keywords present in file <i>file.pdf</i> .
pdf-parser.pyobject 3 -f -w -d savefile badpdf.pdf	It extracts obj data
pdfextract important.pdf	It extracts all file, script data and store folder
PDF Stream Dumper	It analysis all stream and shellcode with GUI
Peepdf -I -f file.pdf	Display inside pdf as interactive mode
Pdf> object id	It displays specific object
Pdf> js_analyse object id > save to file	It decodes js obfuscate code
Pdf> stream id > save to file	It decodes and apply filter and save to file
Pdf> rawstream 13 > shellcode. bin	It extracts exact byte to analysis bin manual
pdfextract	Extracts binary resources of a document (images, scripts, fonts, etc.).

#### Shellcode Tool

xorsearch -W -d 3 file.bin	Locate shellcode patterns inside the binary
	file file.bin.
scdbgc /f file.bin	Emulate execution of shellcode in file.bin. Use
	"/off" to specify offset.
runsc32 -f <i>file.bin</i> -n	Execute shellcode in <i>file.bin</i> to observe
	behavior in an isolated lab.
base64dump.py file.txt	Convert numbers that represent characters
	in <i>file</i> to a string.
numbers-to-string.py file	Convert numbers that represent characters
	in <i>file</i> to a string

Cscript,spidermonkey tool	help deobfuscate JavaScript that you extract
	from document files by running as simulation.

# **Analysis Microsoft Docs**

Tool	Use it for
Exiftool file.doc	It show metadata of the file
Olevba -c file.doc > file.vba	Extract vba macros code
Olevba –deobf –reveal file.vba >file_deobf.vba	Deobfuscated macro code
oleobj	to extract embedded objects from OLE files.
zipdump.py -y /index.yar obj3	It dump zip data hidden and scan with yara
Oledump.py -y /index.yar obj3	It dump data hidden and scan with yara
Vmonkey file.doc	Emulate the vba code to detect malware
rtfobj.py file.rtf	Extract objects embedded into RTF file.rtf
xlmdeobfuscatorfile file.xlsm	Deobfuscate XLM (Excel 4) macros in file.xlsm
AMSIScriptContentRetrieval.ps1	observe Microsoft Office execute macros
OfficeMalScanner	Analyze office documents Office 2007 (doc vs docx)
Media-Extractor	application to extract packed media in Microsoft Office files (e.g. Word, PowerPoint or Excel documents), as well as in common archive files (e.g. zip, 7z, tar)
msodde	script to parse MS Office documents (e.g. Word, Excel, RTF, XML), to detect and extract <b>DDE links</b> such as <b>DDEAUTO</b> , that have been used to run malicious commands to deliver malware