

So Long, and Thanks for All the Fish

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```
--format=office-opencl" option to force loading these as that type instead
fault input encoding: UTF-8
password hash (Office, 2007/2010/2013 [SHA1 256/256 AVX2 8x / SHA512 256/256 AVX2 4x AES])
(S Office version) is 2010 for all loaded hashes
iteration count) is 100000 for all loaded hashes
48 OpenMP threads
g with single, rules:Single
or Ctrl-C to abort, almost any other key for status
one: Processing the remaining buffered candidate passwords, if any
Only 42 candidates buffered for the current salt, minimum 384
or performance.
```

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Cracking Microsoft Excel Documents using John The Ripper

Written by Andrea Fortuna • on March 20, 2019 • in Cybersecurity

Recently, during a forensic analysis on a laptop of an employee charged with corporate espionage, I've carved from disk a suspicious Excel file.

Obviously, the file was password protected, and I had to find a way to read it.

I did it, and now I'd like to share workflow for **XLSX** cracking.

What tools do I use?

The encryption algorithm of encrypted **Microsoft Excel** files is **40bit RC4**.

As it is encrypted nothing could be tweaked by opening the document with a hex editor.

The correct way is to extract the password hash from the file and then cracking it using [John The Ripper](#).



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For this purpose, you need to get a **'jumbo' build** of **John The Ripper**, that supports Office files cracking.

First, clone the git repository:

```
$ git clone https://github.com/magnumripper/JohnTheRipper.git
```

Then compile the sources:

```
$ cd JohnTheRipper/src  
$ ./configure && make
```

If everything goes well, the executables for John and its related utilities will be created under `./run/`.

Now, under `run` you can also find a python script, **office2john.py**: you can use it for extract the hash from the encrypted XLSX file:

```
$ python office2john.py ./test.xlsx > hash.txt  
  
$ cat hash.txt  
test.xlsx:$office$201010000012816b1203fe2e498cec4d5452e1d0aea3775cd130baf73f5de29ec
```

Finally, you can start a bruteforce session with John The Ripper, maybe using a specific wordlist:

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```
$ john --rules --wordlist=yourwordlist.txt hash.txt
```

Now, make a cup of coffee, sit back and wait for John to do its thing.

References

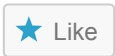
- [John the Ripper password cracker](#)
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