

## LAB 1

## **Data Security Testing**

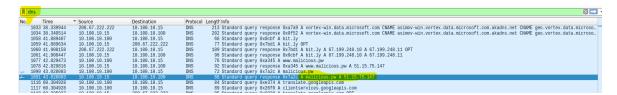
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10-2020 Tieto – ja viestintätekniikka Tekniikan ja liikenteen ala

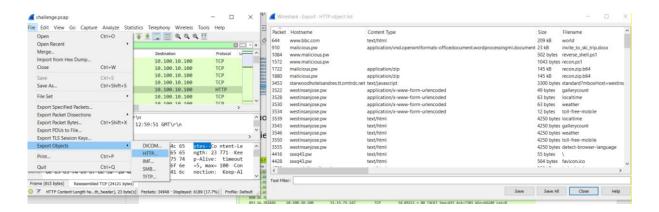
Jyväskylän ammattikorkeakoulu JAMK University of Applied Sciences

## Phishcap - Part1

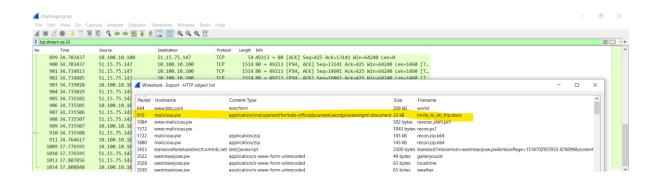
I started with the tip and filtered traffic with "dns". There were query for malicious.pw, which indeed sounded suspicious. Sites ip was 51.15.75.147.



I filtered traffic with destination to that ip and found interesting GET request, for docx file "invite\_to\_ski\_trip".



With ip source filter i found the file itself. I downloaded the docx file from to my kali virtul machine, from file/export objects/http. Packet 910



the flag can be found at the word document, but i desided not to open it, but unzip and find the flag from xml files.

on kali i unzipped docx file and got:

the content of the word document itself can be found at word/document.xml.

I copied the content of document.xml file to browser tool which pretty prints xml. And first flag was found.

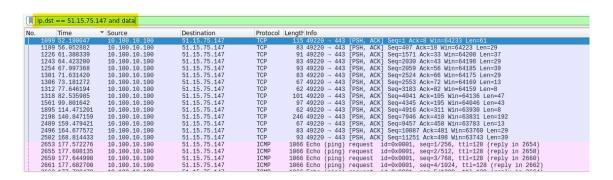
```
<w:t>: AVKH{</w:t>
</w:r>
<w:proofErr w:type="spellStart"/>
<w:r w:rsidRPr="00814665">
 <w:rPr>
   <w:sz w:val="24"/>
   <w:szCs w:val="24"/>
   <w:lang w:val="en-US"/>
 </w:rPr>
 <w:t>jul_qbrf_cuvfuvat_jbex_fb_jryy</w:t>
</w:r>
<w:proofErr w:type="spellEnd"/>
<w:r w:rsidRPr="00814665">
 <w:rPr>
   <w:sz w:val="24"/>
   <w:szCs w:val="24"/>
   <w:lang w:val="en-US"/>
 </w:rPr>
 <w:t>}</w:t>
```

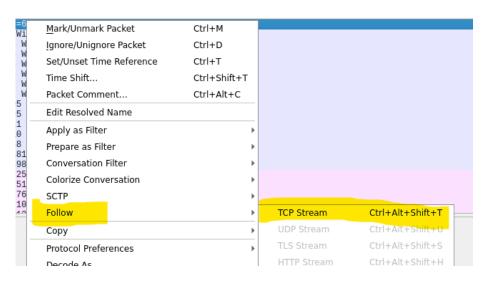
it was encrypted with ceasar cipher with rotation of 13 (or rot13).

Flag = NIXU{why\_does\_phishing\_work\_so\_well}

## Phishcap - Part2

Second flag i found with a little accident. I just added "data" to search parameters, and followed tcp stream. then i scrolled down tcp stream for a while, and file cleartext.txt was opened, and it cointained encrypted flag.





Directory: C:\

```
Mode
                    LastWriteTime Length Name
             13.2.2018
                                             acme
                                             PerfLogs
Program Files
             14.7.2009
                             6:20
d-r--
             31.1.2018
                            23:40
                                             Program Files (x86)
d-r--
             13.2.2018
                            11:30
             13.2.2018
d-r--
                            10:17
                                             Users
             31.1.2018
                            23:40
                                             Windows
             13.2.2018
                            14:25
                                          37 cleartext.txt
-a---
             13.2.2018
                            14:24
                                     34 eighties.txt
```

PS\_C:\> type\_cleartext.txt MHWT{vg4s\_1r\_sg1r\_bk34qs3ws\_sq1bj3qx} PS\_C:\> get-childitem -path\_env:computername

Flag was encrypted the same as the first one

Flag: NIXU{wh4t 1s th1s cl34rt3xt tr1ck3ry}

There were also GET request for "reverse\_shell.ps1" file between the packets. I think hacker planted reverse shell script to target computer through

"invite\_to\_ski\_trip.docx" . So the tcp stream is hacker reading target computers files through ssl.