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# Assignment 01

## Data Security Testing

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Tieto – ja viestintätekniikka
Tekniikan ja liikenteen ala

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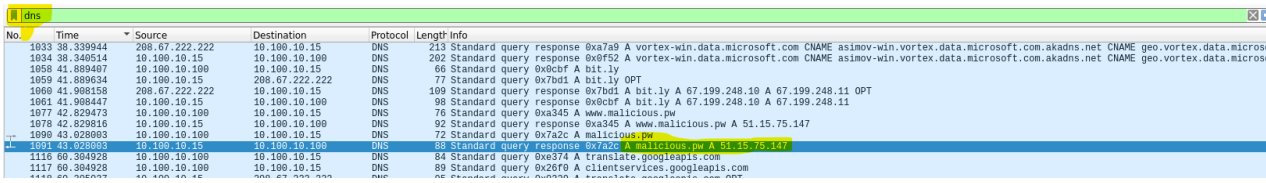
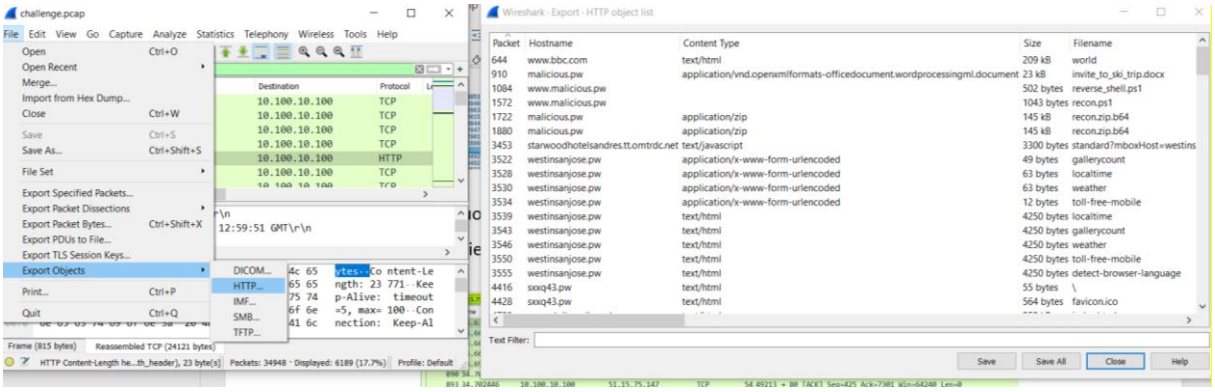
# Phishcap – Part1

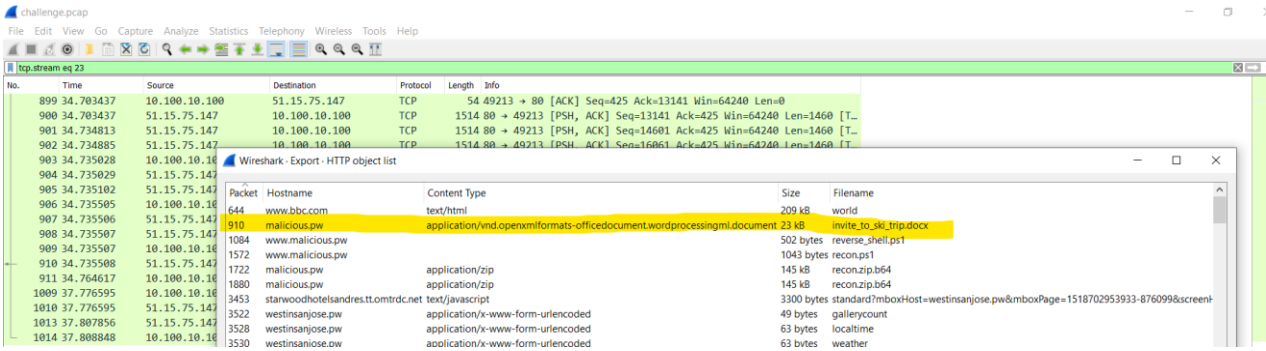
I started with the tip and filtered traffic with ”dns”. There were query for malicious.pw, which indeed sounded suspicious. Sites ip was 51.15.75.147.




I filtered traffic with destination to that ip and found interesting GET request, for docx file ”invite_to_ski_trip”.

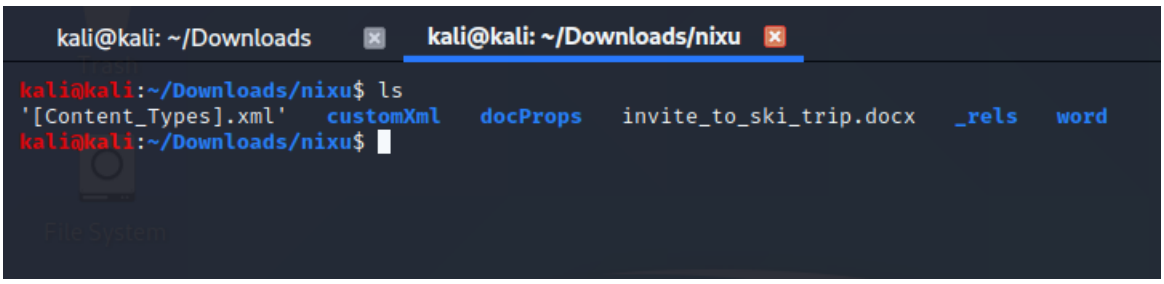



With ip source filter i found the file itself. I downloaded the docx file from to my kali virtul machine, from file/export objects/http. Packet 910




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.

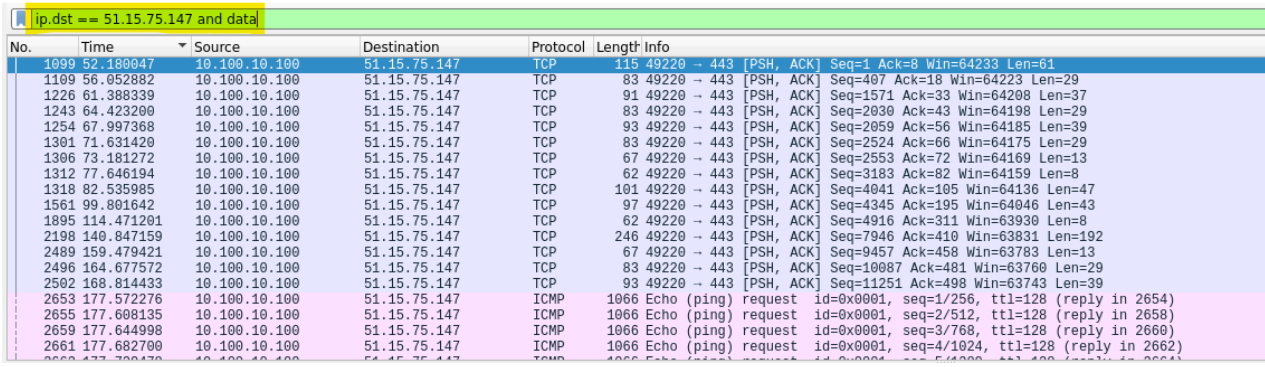
```
<w:t>: AVKH{</w:t>
</w:r>
<w:proofErr w:type="spellStart"/>
<w:r w:rsidRPr="00814665">
  <w:rPr>
    <w:sz w:val="24"/>
    <w:szCs w:val="24"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>jul_qbrf_cuvfuvat_jbex_fb_jryy</w:t>
</w:r>
<w:proofErr w:type="spellEnd"/>
<w:r w:rsidRPr="00814665">
  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

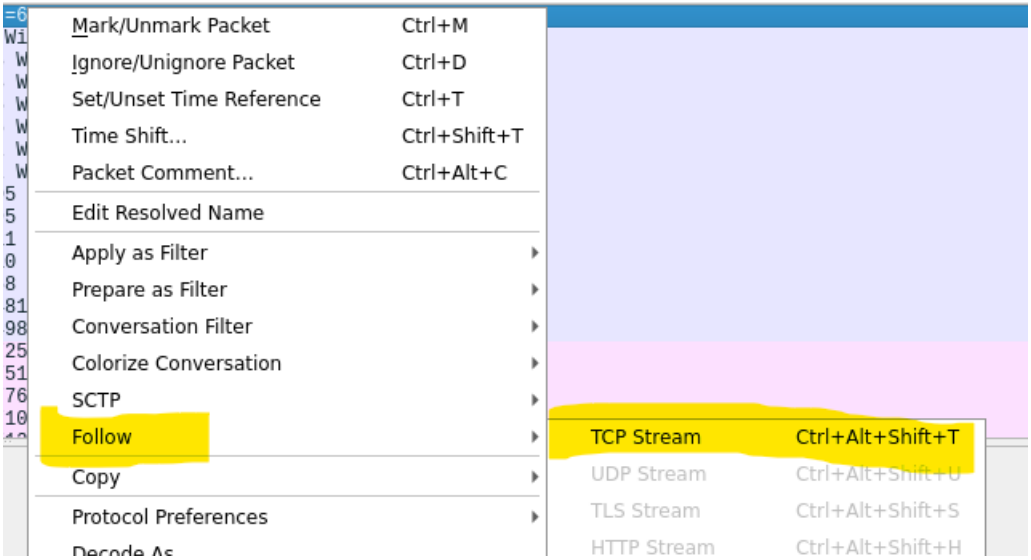
it was encrypted with ceasar cipher with rotation of 13 (or rot13).

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
----                 -------------     ------ ----
d----         13.2.2018     14:27            acme
d----         14.7.2009      6:20            PerfLogs
d-r--         31.1.2018     23:40            Program Files
d-r--         13.2.2018     11:30            Program Files (x86)
d-r--         13.2.2018     10:17            Users
d----         31.1.2018     23:40            Windows
-a---         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.