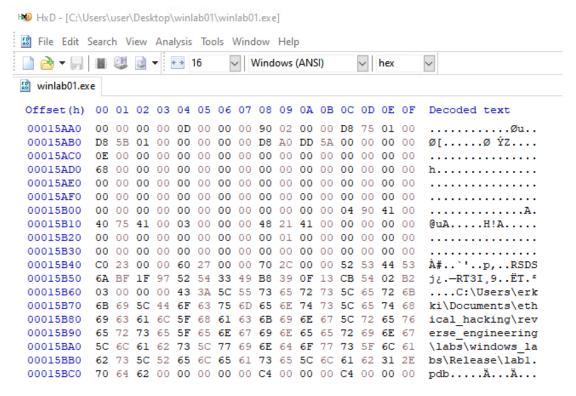
Summary

This malware connects 3 different servers and uses lots of .dll files. It also detects is it being debugged. After while it disconnects internet, I think it has something to do with running fakenet. I did get lot of information using static analyzing but with dynamic analyzing I did not get anything relevant approval to what I found earlier. Time used for this exercise is about 6 hours.

Static analyzing

From hex view we can see that there is path to user 'erkki' that does not exist in this machine even after running winlab01.exe, so maybe it is path where this .exe was originally created.



From there I also found xml file. It's requesting to run with the execution level of 'asInvoker', which means it will run with the same privileges as the parent process and not require elevated privileges. The uiAccess attribute is set to 'false,' indicating that the application does not require UI access privileges.

```
<?xml version='1
.0' encoding='UT
F-8' standalone=
'yes'?>..<assemb
ly xmlns='urn:sc
hemas-microsoft-
com:asm.vl' mani
festVersion='1.0
'>.. <trustInfo</pre>
 xmlns="urn:sche
mas-microsoft-co
m:asm.v3">...
<security>...
  <requestedPriv
ileges>..
 <requestedExecu
tionLevel level=
'asInvoker' uiAc
cess='false' />.
       </reduest
edPrivileges>..
   </security>..
  </trustInfo>...
</assembly>....
```

Looking from 'strings' it looks like the program is making HTTP connection to somewhere. There was also **WINHTTP.dll** which provides functions and components for making HTTP and HTTPS requests. It also allows applications to perform HTTP communication, such as downloading web pages, sending, and receiving data from web servers, and interacting with web services.

```
WinHttpQueryDataAvailable
WinHttpConnect
WinHttpSendRequest
WinHttpCloseHandle
WinHttpOpenRequest
WinHttpReadData
WinHttpOpen
WinHttpOpen
WinHttpOpen
```

There was two more .dll files that sounded interesting. Firstly, there was **ADVAPI32.dll** which contains security functions, it can install, start, stop, and control system services, also it has user, and group management and much more but these sounds most interesting right now. Also, there was **USER32.dll** which might be used for tracking user inputs or maybe allows winlab01.exe to make these inputs? It also can for example make phishing dialogs etc.

From strings I also found 'IsDebuggerPresent' which can be used to detect analyzing or debugging of the malware. With this information program can change its behavior to make it more difficult to analyze.

I tried to use IDA but I did not get any point what this program does. And it looks like program blocks full analyzing with IDA.



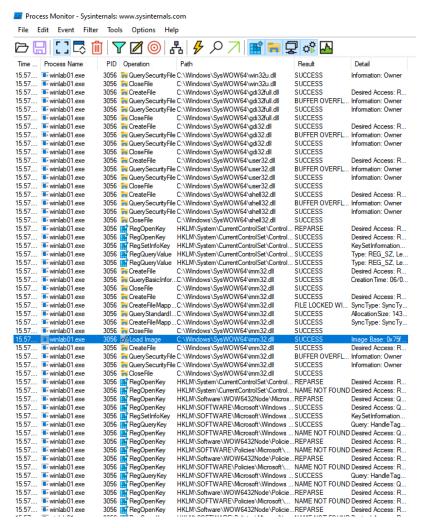
Then I used HashCalc and get md5 'e3d948329c3c96013706a8270cf52853' I put it to google and found web page https://www.hybrid-

 $\frac{analysis.com/sample/a02dbb5186eb38947a798357260ea0ed45c9e84c20d9179acdb73ad310f38ca4/5ae8ac117ca3e128ab7f0b44.$

From there I found that it contacts to three different servers 216.58.213.132:80, 216.58.213.142:80 and 216.58.213.142:443 and it read computer name.

Dynamic analyzing

Winlab uses some .dll files and part of them was found when running strings to winlab01.



For little while after running winlab01.exe internet connection losts. This happened 3 different times and all of them was after launching fakenet.

I also tried to use Wireshark and other programs, but I did not find anything relevant.