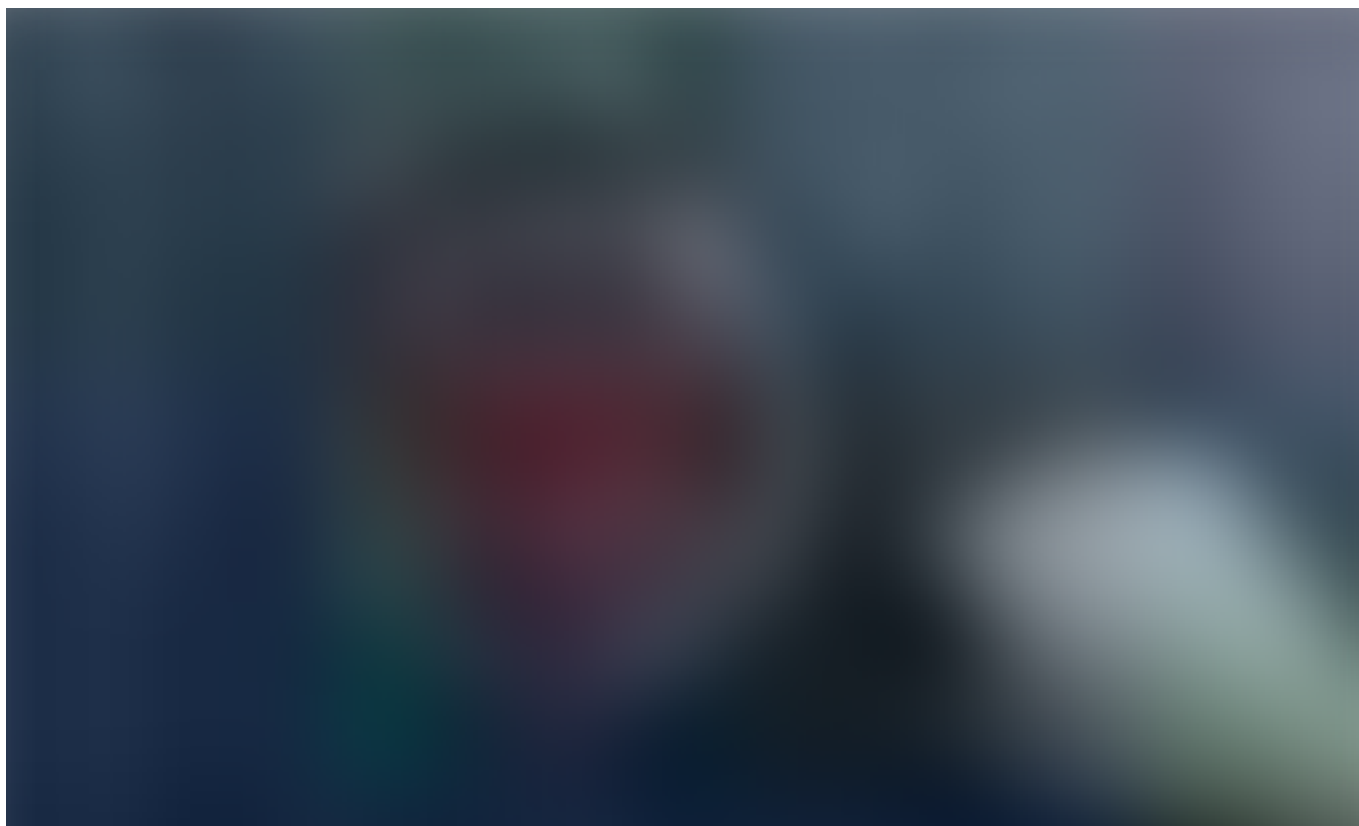


Detecting and Tracking the Red-Team

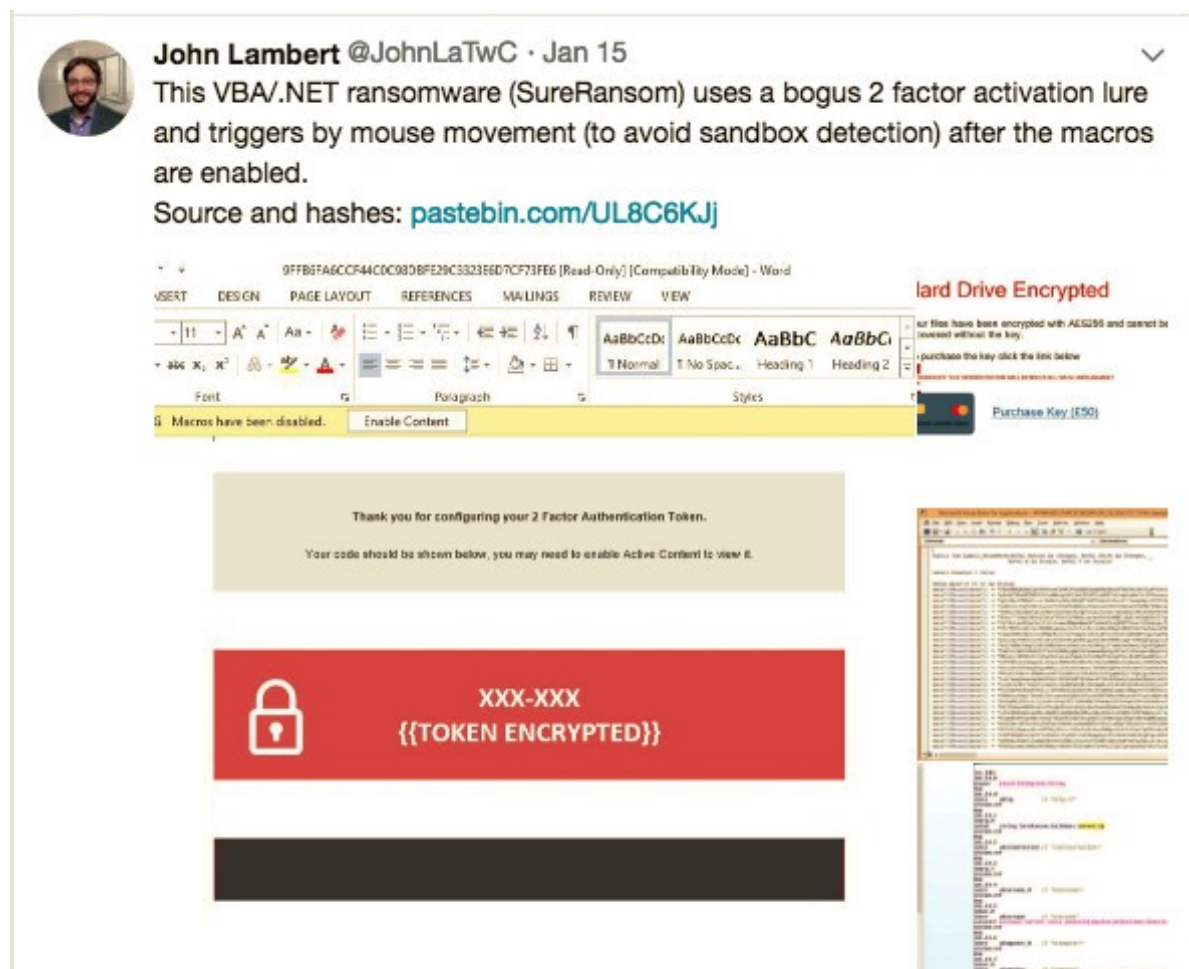


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Jan 22, 2018 · 4 min read



Last week we noticed this tweet on twitter from @JohnLaTwc:
<https://twitter.com/JohnLaTwC/status/952948929628291072>





We are big fans of John's tweets, and often use his discoveries to help build simulated malware campaigns for clients in Red-Teaming. This one was particularly interesting so we decided to dive into this one a little deeper.

The macro payload can be found here:

- <https://pastebin.com/raw/UL8C6KJj>

Payloads

There appears to be different payloads targeted at different Microsoft Operating Systems:

- Windows 7
- Windows 8- 8.1
- Windows 10

Netscylla decided to take a look at the Windows 10 payload (payloadv10.exe). It looks like it has already been uploaded to virus total and hybrid analysis from @CryptoInsane (twitter).

- <https://www.virustotal.com/en/file/0acc9adbbdbd6db359552e2919aabc3ca4a42a28b3b7c3d26fb8f0699d23bdc2/analysis/>
- <https://www.reverse.it/sample/0acc9adbbdbd6db359552e2919aabc3ca4a42a28b3b7c3d26fb8f0699d23bdc2?environmentId=100>

SureRansom.exe appears to be the real binary compiled name, and initial inspection looks like some form of British Ransomware demanding £50GBP to recover your files.



The Desktop Wallpaper is replaced with 'Hard Drive
Encrypted' ransom'

Further examination of the hybrid analysis and virus total reports, reveals the following IP addresses:

- 138.68.176.166

Whois on IP Address

The IP address belongs to cloud infrastructure provider Digital Ocean, this is likely the Command and Control interface for this piece of malware?

NetRange: 138.68.0.0–138.68.255.255

CIDR: 138.68.0.0/16

NetName: DIGITALOCEAN-15

Reverse DNS: competitivebeauty.com



DomainTools.com data

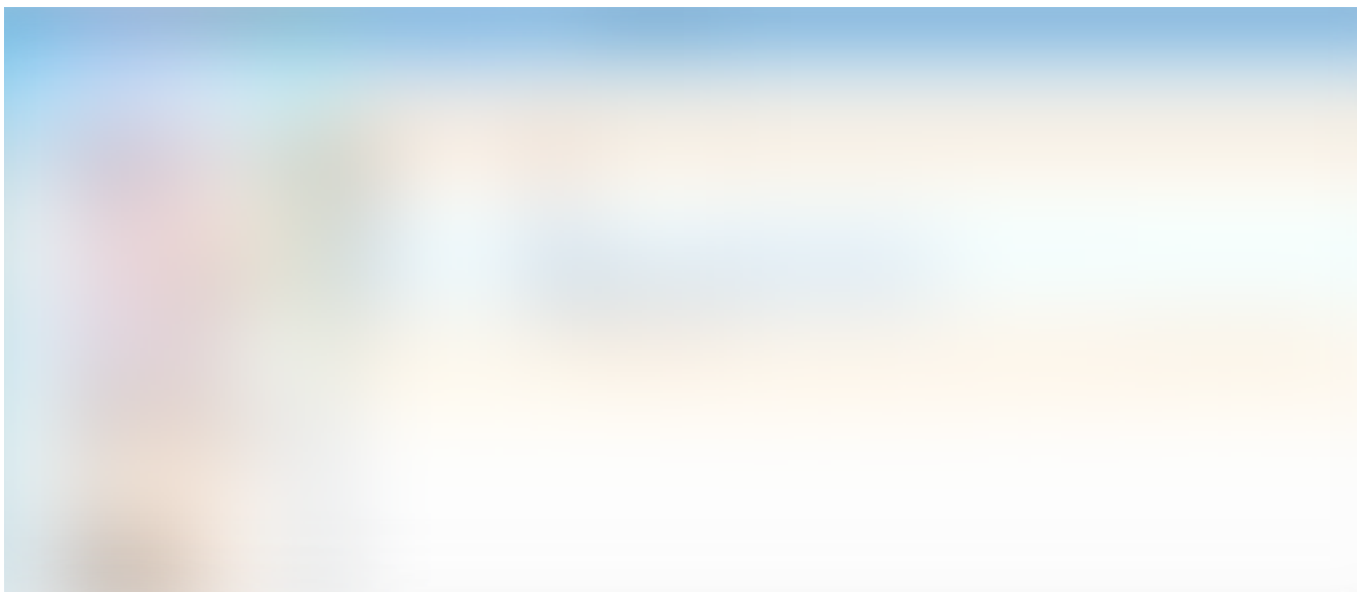
Diving Deeper into the Payloadv10.exe

First we give the executable a once over with PEStudio for some hints to its maker, operation and possible code-base.



PEStudio: libraries informs us that it is a .Net application

There is a big clue in the debug path:

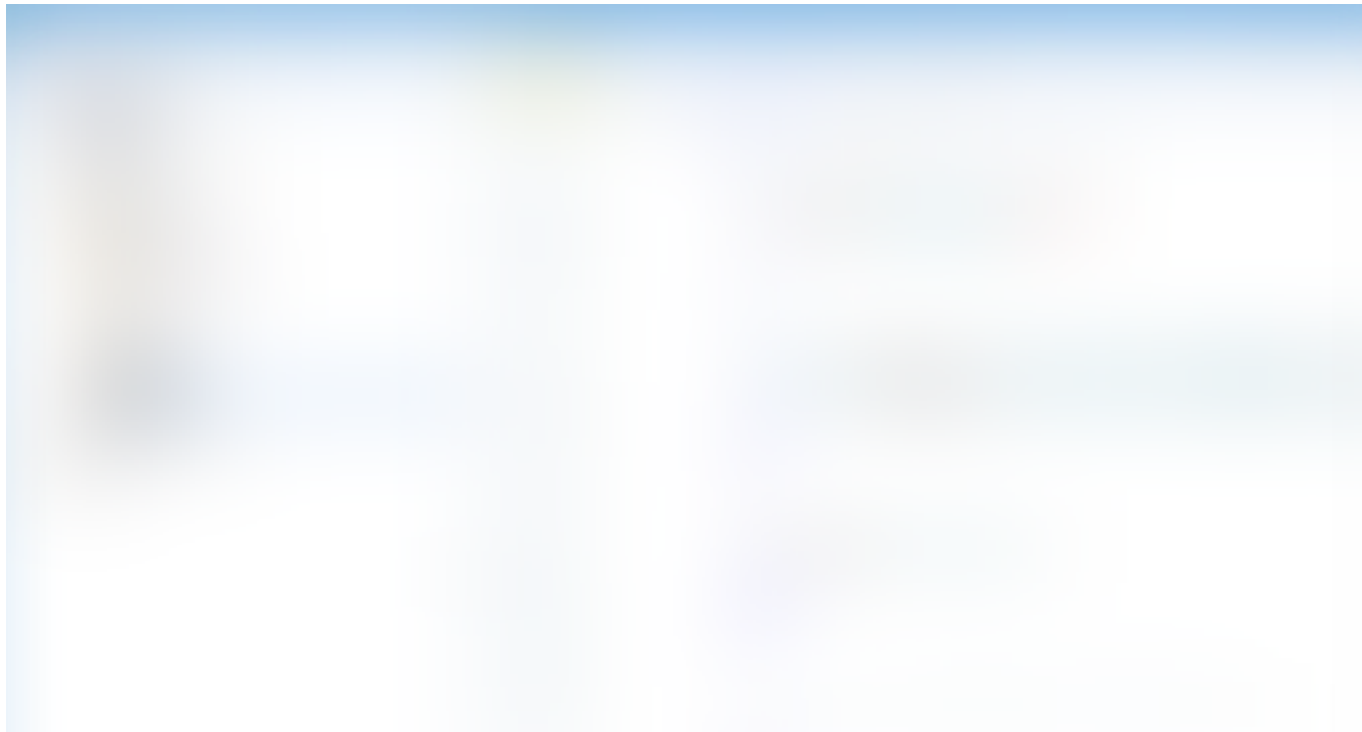


PEStudio: Debug Path leaks author information

Now we have some hints that the author is Surecloud and that this executable is part of a Red-Team, penetration test or ransomware simulation!

Lets take this a little bit further....

The executable is a .Net compiled executable so we can use JustDecompile to disassemble the application into .Net classes and procedures.





The program's main class: identifying called classes and procedures.

This executable has the following operations:

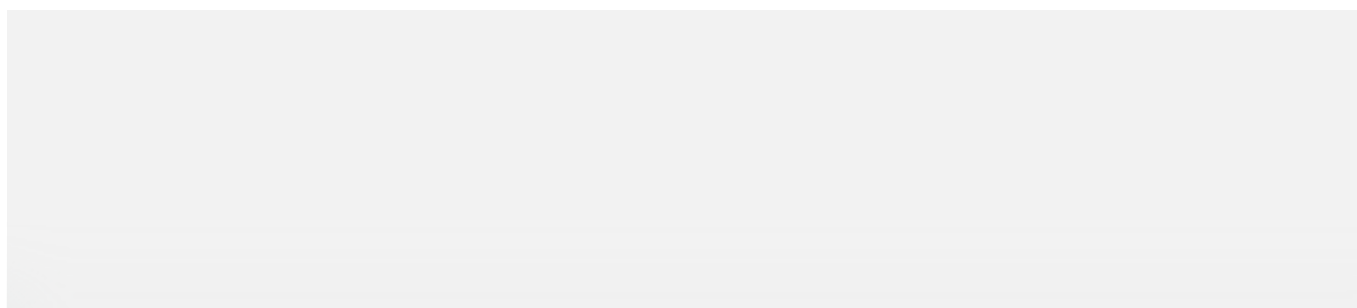
- ping
- sendFiles
- sendUserDetails

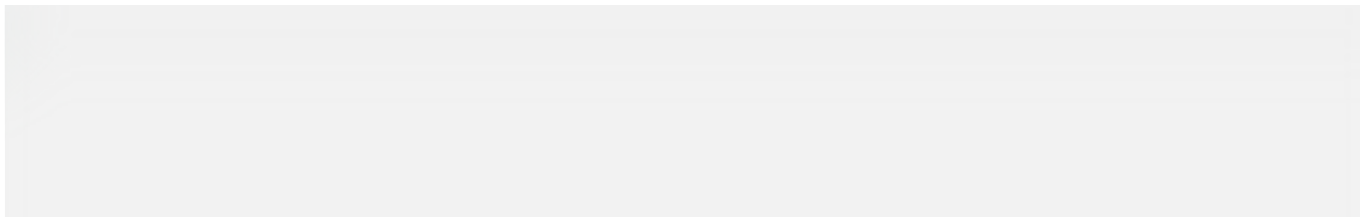


CallHome IP matches the C2 addresses discovered earlier



The malware collects information on local and domain users





The malware sends all collected data unencrypted over the public internet.

Did we forget something? Isn't this meant to be ransomware...

Not really, as the decompiled code clearly indicates this is a simulation.





Yes, its only a simulation...

LinkedIn quick search for Surecloud, confirms a professional Penetration Test Team in United Kingdom:





Ransom? What Ransom?

Looking at the decompiled code, there is no functionality to process or take payments. This '*malware*' is only a **simulated exercise!**

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Phishing

Malware

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9 claps



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WRITTEN BY

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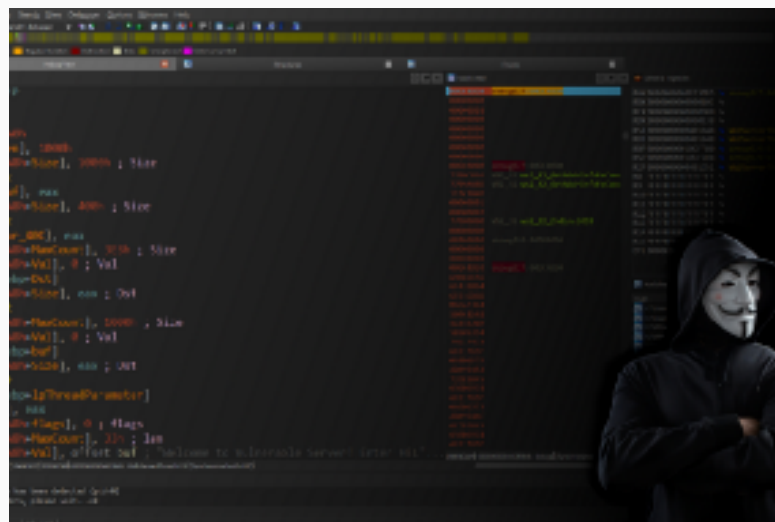
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