Orange Cyberdefense

Enhanced malware detection

Reduce the risk of introducing a malware in your internal network



40% of

the 30k confirmed incidents were malwares*



Malware is any malicious software, script, or code running on a device that alters its state or function without the owner's informed consent.

Challenge

Malwares proliferating, limited resources and expertise.

How to...

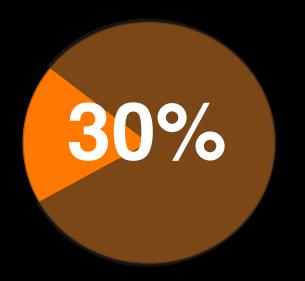
... ensure that files are safe before entering my network?

... automate files analysis and make it seamless for my employees?

... maintain the confidentiality of the data analysed?

... detect malwares that are still unknown by antivirus?

Complementarity is key





is the detection rate of

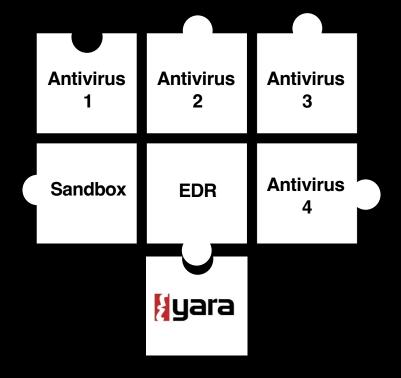
The best antivirus* in the market

... ensure that files are safe before entering my network?

Enhanced malware detection

Combining tools to improve your detection rate



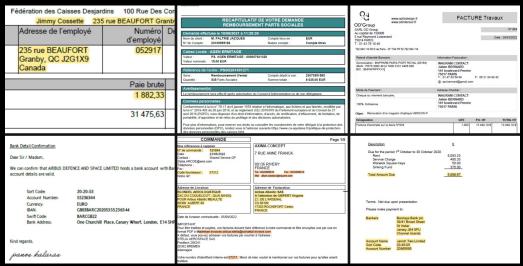


... maintain the confidentiality of the data analysed?

Enhanced malware detection

Confidentiality is key

Misuse of security tools can turn against you:



Keep your data private!

The "Perfect" Cybercrime

Researchers Explore Hacking VirusTotal to Find Stolen Credentials

https://www.darkreading.com/threatintelligence/researchers-explore-hackingvirustotal-to-find-stolen-credentials

Clients information

Invoices

Bank details

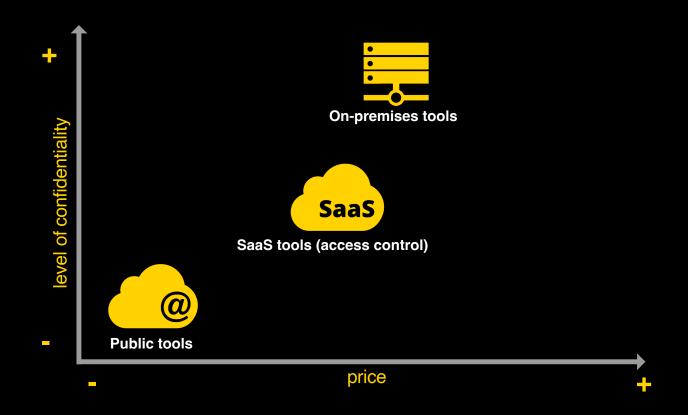
Passwords

Mail adresses

IBAN

... maintain the confidentiality of the data analysed?

Select the right tool according to the level of confidentiality needed



... automate files analysis and make it seamless for my employees?

47%

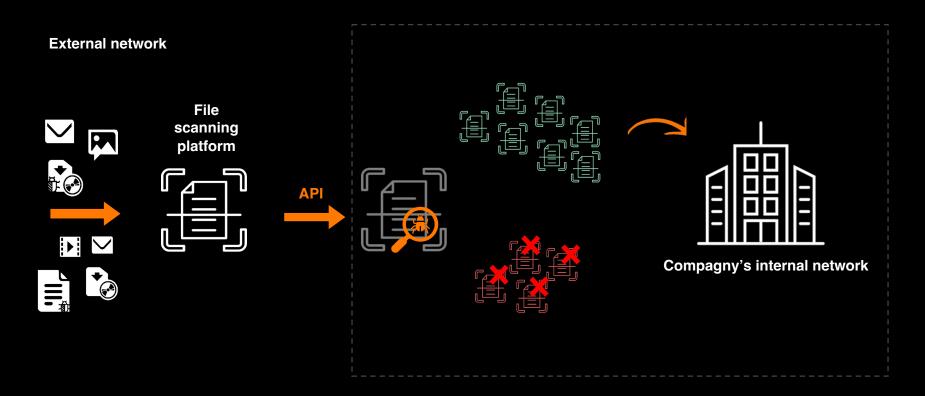
of the confirmed incidents are caused by internal sources*

End-user devices

is the **most targeted** endpoint*

Automate files analysis in your workflow

... automate files analysis and make it seamless for my employees?



... detect malwares that are still unknown by antivirus?

80%

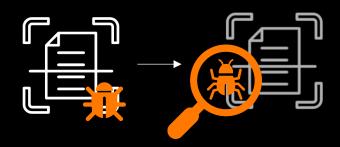
malwares are packed and 1/2 of them are repacked versions of existing malwares

Packed malwares

cannot be detected by antivirus

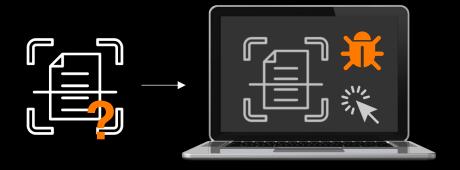
Two levels of analysis to not miss any malware

... detect malwares that are still unknown by antivirus?





Based on antivirus signatures For known threats

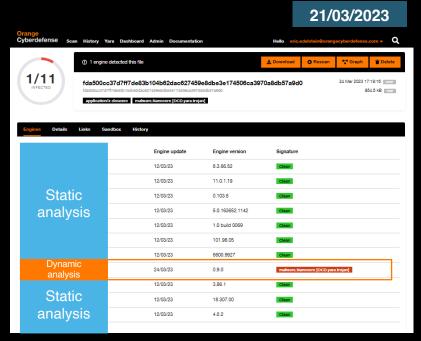


Dynamic analysis

Sandbox to execute the file For unknown threats

... detect malwares that are still unknown by antivirus?

Sandboxing solutions can help you detect advanced threats



03/04/2023 Cyberdefense 5 engines detected this file 5/11 03 Apr 2023 06:57:21 fda500cc37d7ff7de83b104b62dac627459e8dbe3e174506ca3970a8db57a9d0 fda500cc37d7ff7de83b104b62dac627459e8dbe3e174506ca3970a8db57a9d0 854.5 kB plication/x-dosexec malware.Nanocore [OCD.yara.trojan] Engine update Engine version Signature 02/04/23 8.3.66.64 02/04/23 11 0 1 19 02/04/23 0.103.6 02/04/23 5.0.163652.1142 Static 31/03/23 1.0 build 0069 analysis 02/04/23 101.98.30 02/04/23 eenn gagg 24/03/23 02/04/23 3.86.1 01/04/23 4.0.2 02/04/23

Dynamic analysis match

Dynamic + static analysis match

... detect malwares that are still unknown by antivirus?

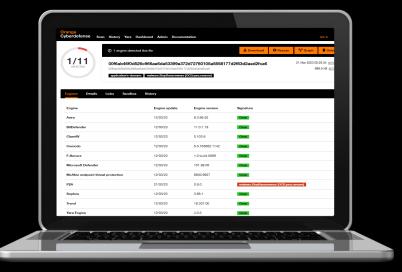
How to detect a packed malware thanks to the dynamic analysis



Strain compressed and encrypted by a packer, Antivirus software does not detect the malicious strain.

- · Sandbox execution,
- · In-memory decryption and decompression,
- · Capture of memory snapshots for MFD detection





Dynamic analysis is crucial in the process of analyzing malicious code

Case studies



I'm Elina Muna, CISO of an insurance company.

Employees of an insurance company are receiving a lot of attachments by email and I want to make sure that all attachments are automatically analysed before entering the internal network.

I've integrated the solution in my workflow using the API.



I'm Olivier Rigal, Head of the CyberSOC of a manufacturing company.

My team is doing reverse engineering on malwares and they needed an advanced tool to be more efficient.

We're using the sandbox and are able to fully customize the testing environment and make the malware execute faster for instance.

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