



- https://filipipires.com
- https://twitter.com/FilipiPires
- https://github.com/filipi86
- https://www.linkedin.com/in/filipipires/









Filipi Pires **■**

Security Researcher | Cybersecurity Advocate | Snyk Ambassador | Hacking Is Not a Crime Advocate | Speaker | Writer

Talks about #infosec, #malware, #security, #cybersecurity, and #malwareanalysis

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Filipi Pires

Researcher | Security Researcher | Speaker | Writer | Cybersecurity Advoc...



#WHOAMI







Hacking is Not a Crime Advocate



Snyk Ambassador snyk



DCG 5511



Instructor, Writer and Reviewer







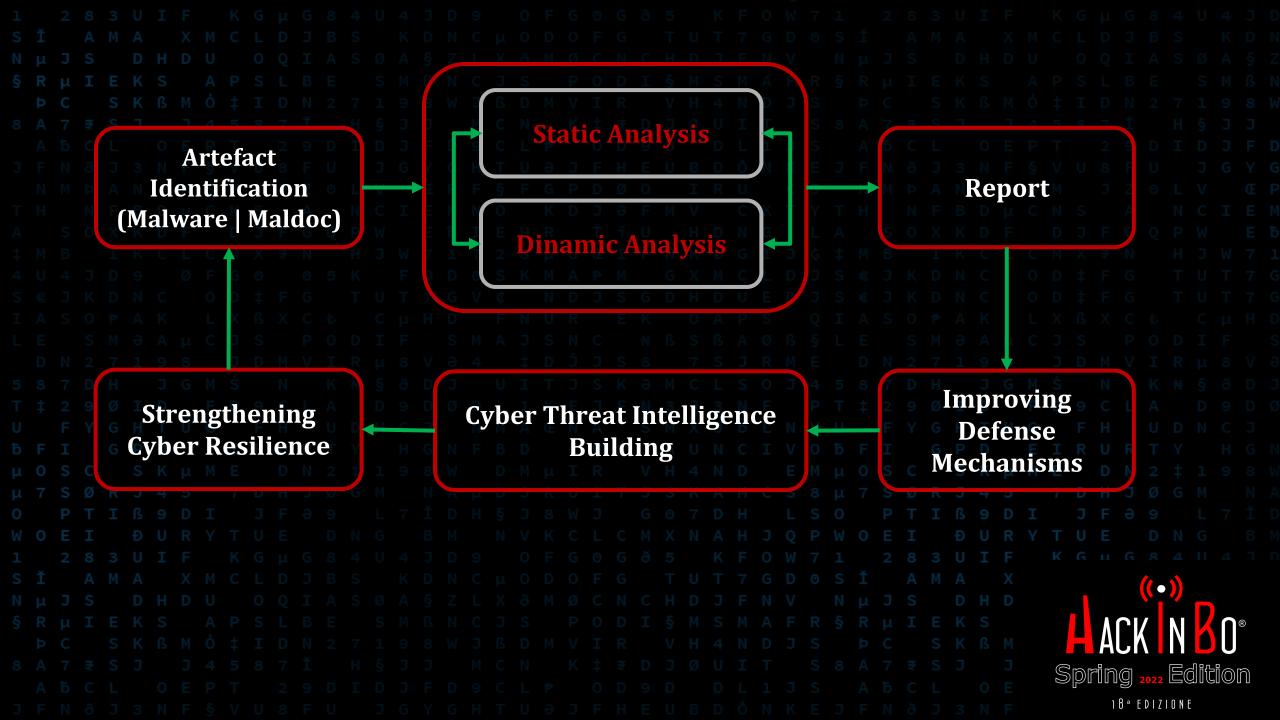






According to ISO 27005, a threat is defined as a potential cause of an incident that may cause harm to systems and organization.

- Software attacks
- Theft of intellectual property
- Identity theft
- Sabotage
 - Information extortion are examples of information security threats.









We begin our exploration of malware analysis with "Static Analysis", which is often the first step in malware studies.

Static analysis describes the process of analyzing a program's code or structure to determine its function.

The program itself **doesn't run at this time** (depending on the program), this makes the parsing process more "**safe**" because we aren't actually executing it.



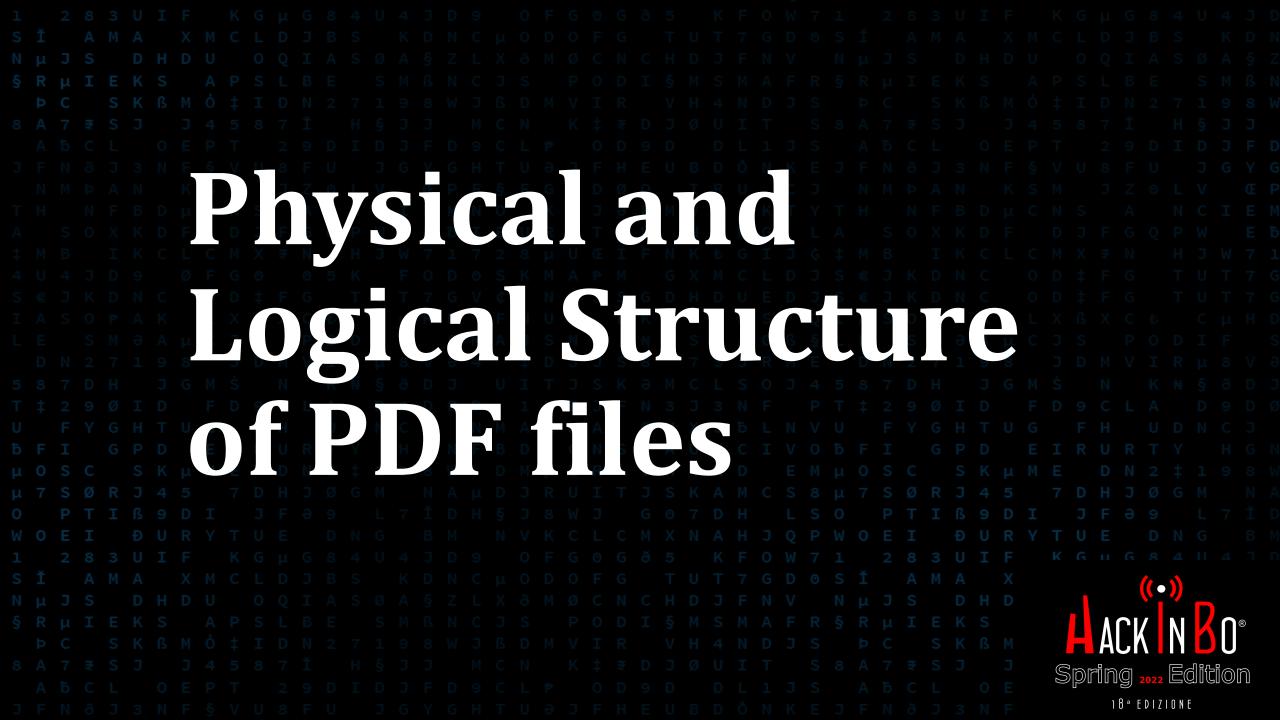
Dinamic Analysis



It is based solely on behavior, in the interaction that malware has when it's executed or a maldoc is used, also known like "runtime" analysis

It can be easyly automated, there are sites today that already perform analysis of malicious artefacts, using the concept

called "Sandbox"



Structure PDF

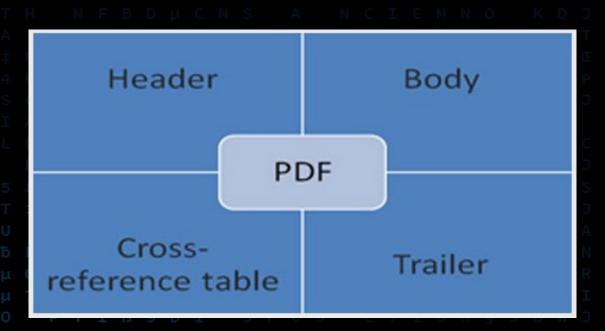


18ª EDIZIONE

In general, a PDF document has fours manly parts.

- > One-line header ou Header
- Body
- > Cross-reference table
 - > Trailer

Structure PDF



Header

Version Number

Body

- Page objects
- Image objects
- Font objects
- Bookmark objects
- Forms objects
- ۰ ...

PDF

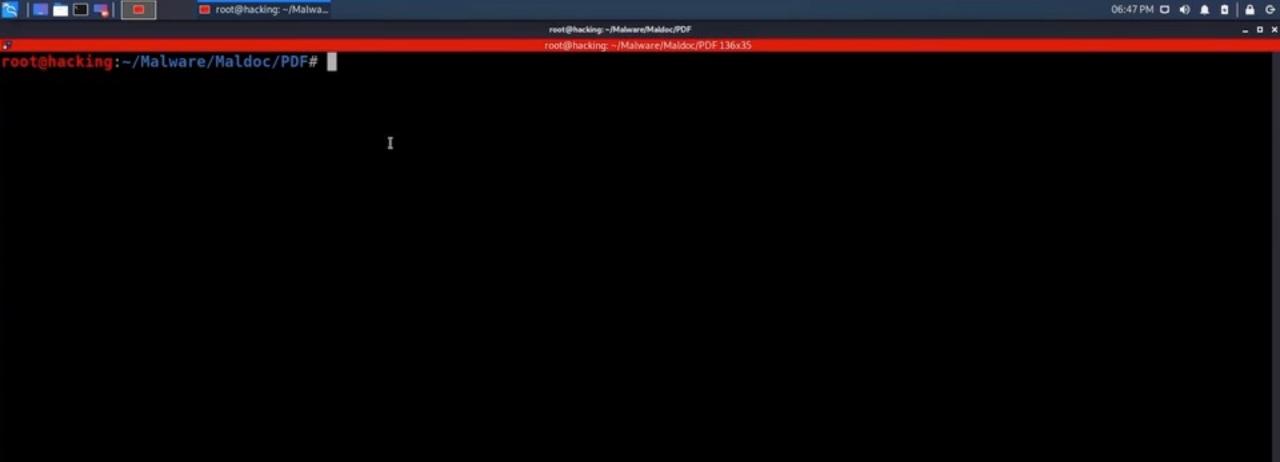
Cross-reference Table

 Locations of objects within the file - for random access

Trailer

- Locations of certain objects within the Body
- Location of the Crossreference Table in the file





Recommendation Books

Dylan Barker



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Mastering Malware Analysis

The complete malware analysts guide to combating malicious software.

APT, cybercrime, and lot attacks.

Packty

www.seebla.com

Malware Analysis Techniques

Tricks for the triage of adversarial software



Threat Hunting with Elastic Stack

Solve complex security challenges with integrated prevention, detection, and response



Practical

Threat Intelligence and Data-Driven Threat Hunting

A hands-on guide to threat hunting with the ATT&CK™ Framework and open source tools



Valentina Palacín

Thank you

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