

Dynamic Malware Analysis for IR CheatSheet

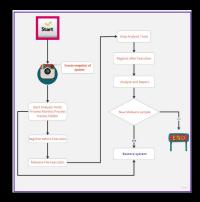
Dynamic Analysis

Dynamic malware analysis involves running potentially harmful code within a secure environment known as a sandbox. This isolated system allows security experts to observe the behavior of the malware without exposing their own system or corporate network to the risk of infection or unauthorized access.

Approach

- Dynamic analysis requires programs to be executed in a closely
- monitored virtual environment.
- · It uses a behavior-based approach for malware detection and analysis.
- Dynamic analysis involves API calls, Instruction traces, registry changes,
- · network and system calls, memory writes and more.
- It is effective against all types of malware because it analyzes the sample
- by executing it.

Techniques

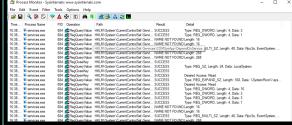


Malware Sample



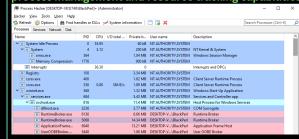
ProcMon

ProcMon is a Windows monitoring tool for capturing real-time system activity and troubleshooting.



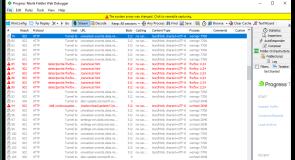
Process Hacker

Process Hacker is an open-source task manager and system monitoring tool for Windows, offering advanced process management and resource tracking capabilities.



Fiddler

Fiddler is a web debugging proxy tool that captures and analyzes web traffic to assist in troubleshooting and testing.



Why You Should Consider Using a Malware Analysis Tool?

- Dynamic Malware Analysis Can Detect Previously Unknown Malware
- · Assessing and Understanding Malware Behaviour
- Malware Mitigation
- Provide Rapid Incident Response
- Test Security Solution Effectiveness
- Enhancing Threat Intelligence

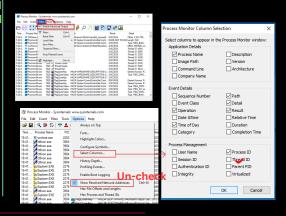
Online Sandboxes:

- Any.run
- Hybrid Analysis (Falcon Sandbox)
- Intezer Analyze
- Cuckoo Sandbox
- Joe Sandbox
- IRIS-H
- Triage
- Cape

PROCDOT

"Procdot is a platform for collaborative process documentation and optimization."

To parse the output file from ProcMon to ProcDot you need to enable few settings which list below





PROC-DOT output

