Threat Categorization Based on Malware’s C&C Communication

Key Words: Malware Analysis, C&C, Threat categorization , Python, Fingerprinting, pcap, Compiler, TLS

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Synopsis

Threat categorization is one of the biggest **challenges** that the security community faces today. **Malwares** are hidden using multiple layers of **packers**, **obfuscators** thus hiding from revealing its true identity unless unpacked.

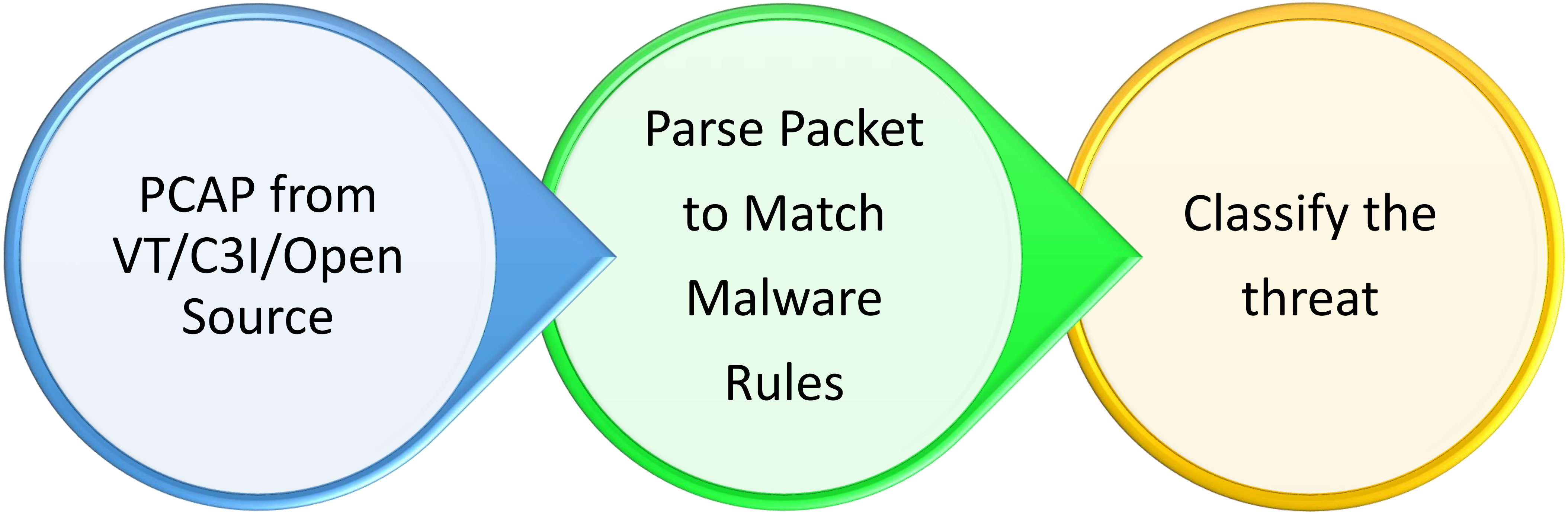
Of late, it is also observed that the same codebase / framework is reused by **multiple RAT builders** and **Backdoors**. Some of these **packers** and **obfuscators** are also reused across multiple **malware** families.

This project aims at looking into the **networking** concept of these **C&C communicating** malwares and tries to **parse** the network **packets** and try to classify the threats based on the **unique** communication pattern used by these malware families. The rules also involve **fingerprinting** the **TLS certificates** used in the communication.

Deliverables

- Python based pcap parser
- Rule and fingerprinting Compiler for pcap parser
- Usage documentation
- Complete Architect Diagram
- Demo

Diagram (OverView)



PCAP from VT/C3I/Open Source

Parse Packet to Match Malware Rules

Classify the threat

Key Words

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- Threat categorization
- C&C
- Python
- Fingerprinting
- Pcap
- Compiler
- TLS

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References

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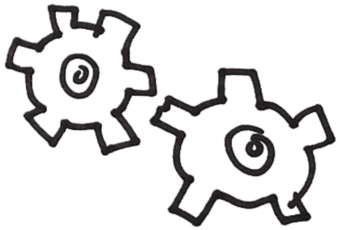
From IDEA

to

IMPLEMENTATION



to be continued...

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