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- Kaspersky, Global Research and Analysis Team
- Lead security researcher
- Tracking Korean-speaking actors

Focus Area

- Investigative Research
- Reversing Malware
- Digital Forensics
- Threat Intelligence





Who is Lazarus?

Adversary

- Lazarus
- a.k.a Diamond Sleet
- Published by Novetta in 2014

Capability

- Various infection vectors
- Multi-stage components
- Several malware clusters

Victim

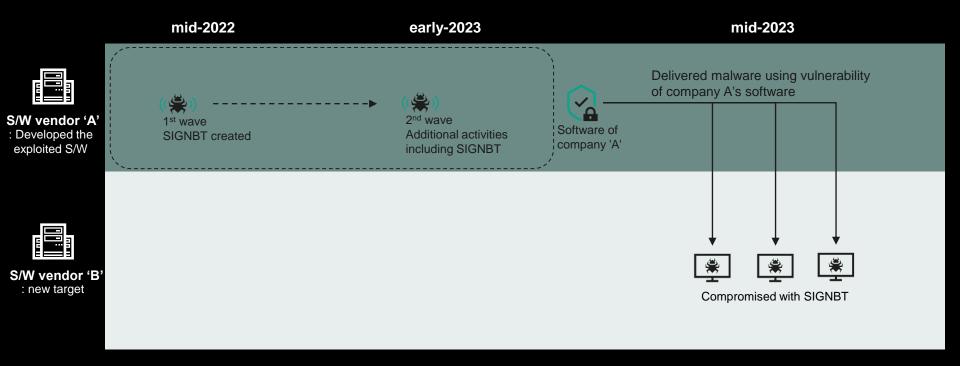
- Financial profit
- Cyber espionage
- Data theft

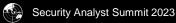
Infrastructure

- Compromised server
- Commercial hosting service

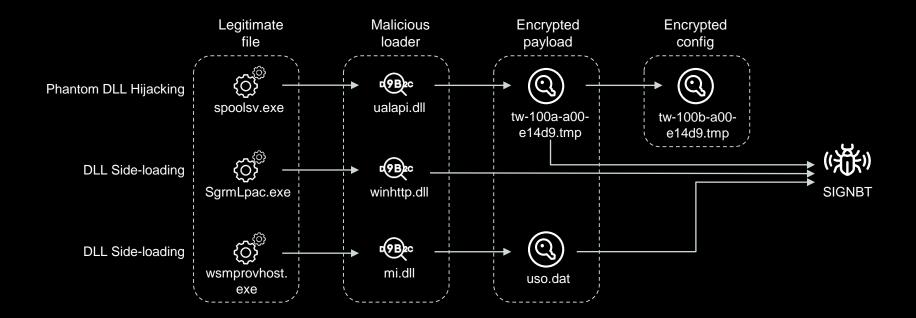


Cascading targeting attack against S/W vendors





Infection chain of SIGNBT

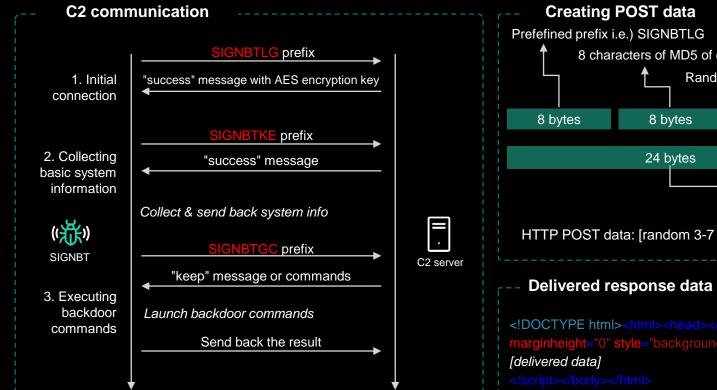


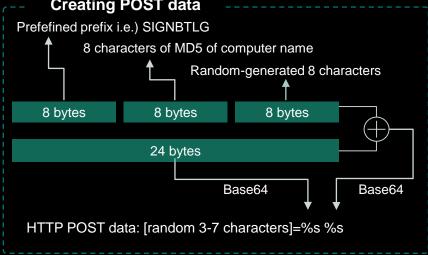


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5

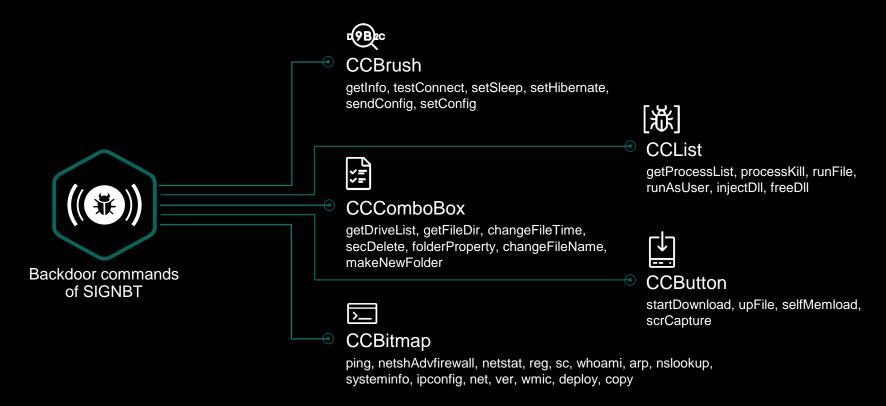
C2 communication of SIGNBT





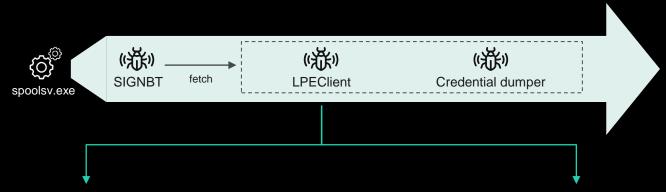
<!DOCTYPE html><html><head></head><body marginwidth="0"

Backdoor commands of SIGNBT





Consecutive malware - LPEClient



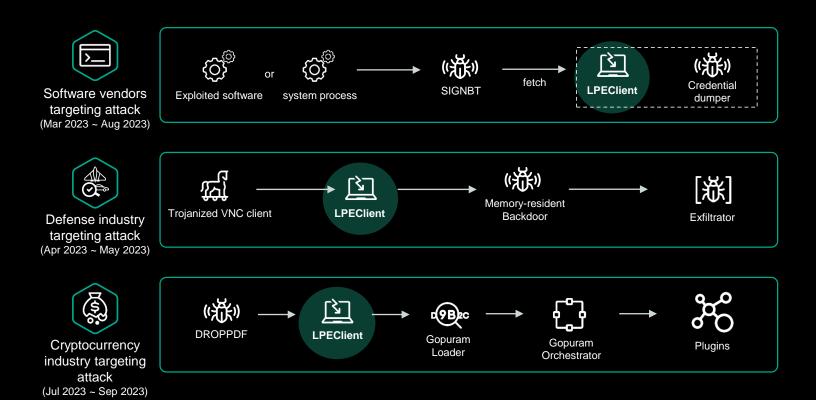
Basic functionalities:

- Utilized since 2020.
- Reporting victim's general info.
- Fetching additional payload.

Keep evolving:

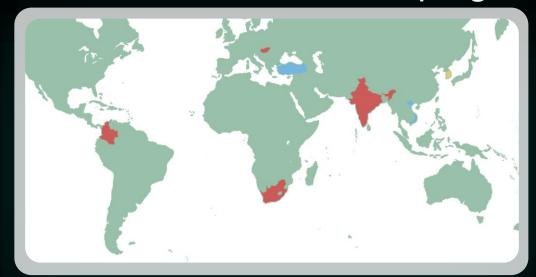
- Disable user-mode syscall hook
- Unhook essential system APIs
- Recovering original .text secion of system DLLs

Connection with other campaigns





One threat actor, but different campaigns



Target	Infection vector	Intention
S/W vendor	SWC with S/W exploit	Cyber espionage
Defense contractor	Social engineering with trojanized S/W	Stealing intellectual properties
Cryptocurrency industry	Unknown (3CX supply-chain)	Financial gathering



Takeaway



Persistent attack and increasing sophistication

- Continuously improve techniques to become more sophisticated
- Well-organized and wellresourced group
- Never slow-down



Full-context based defense is the key

- Hit-and-run style defense never works
- Need to understand fullcontext of threats
- Diversify defense points



Cooperation with other industry

- Each sector has different strength
- Cooperation is essential to cope with the latest cyber threats



