Malware Analysis

Introduction to Packers/Crypters

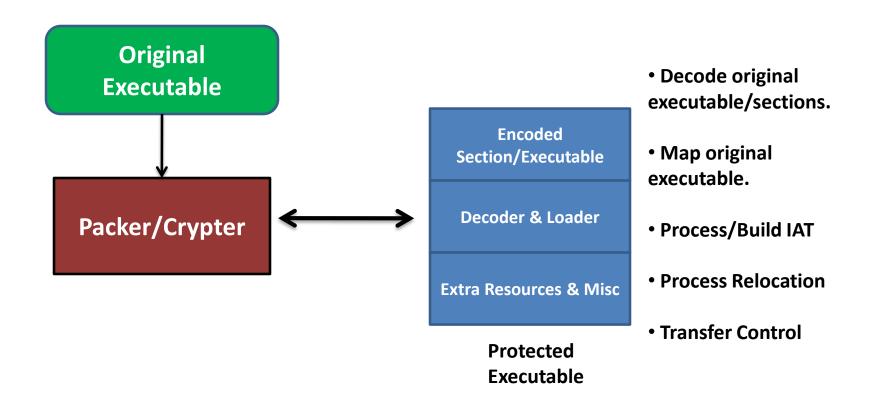
AV Technology

- Signature based
- Hash Based
- Behavior Based
 - HIPS
- Community Based
 - Reputation
 - Symantec Online Network for Advanced Response (SONAR)

A Packer/Crypter Role

- Compress
 - UPX
- Protect
 - VMProtect
- Obfuscate (AV Evasion)
 - Online-Crypter.com
- Package
 - WinRAR SFX
- Licensing & Enforcement
 - Themida
- ...

A Typical Packers/Crypters



Packer Functional Components

- Encryption/Encoding Algorithm
- Runtime Executable Loader
 - In-Memory Exec
 - Process Shuttle (LoadPE)
- Protection Engine
 - Code Obfuscator
 - Anti-Debugger
 - Anti-VM
 - Anti-Decompilation

Packers/Crypters

- UPX
- ASPack
- Armadillo
- Themida
- VMProtect
- •

Lets Get Real..

HANDS-ON