



PowerShell Hunting Cheat sheet



What is PowerShell?

- Task automation and configuration management framework from Microsoft.
- Consisting of a command-line shell and associated scripting language.
- Built on the .NET Framework.
- Enabling administrators to perform administrative tasks on both local and remote Windows systems



Basic Details of PowerShell

ID: T1086

Tactic: Execution

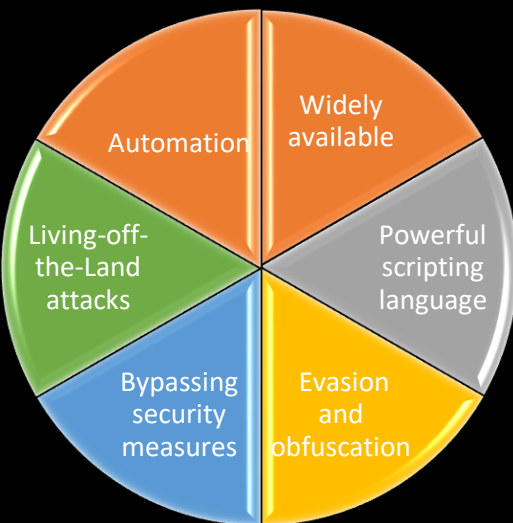
Platform: Windows

Permissions Required: User, Administrator

Data Sources: PowerShell logs, Loaded DLLs, DLL monitoring, Windows Registry, File monitoring, Process monitoring, Process command-line parameters

Supports Remote: Yes

Why attackers love PowerShell ?



POWERSHELL
EMPIRE



NISHANG



PS > ATTACK



Invoke-Mimikatz

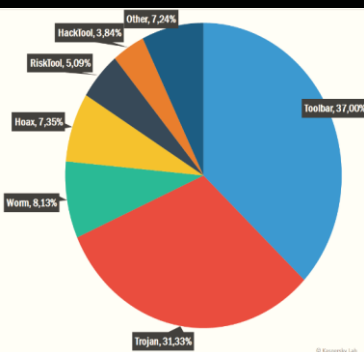


Well-known PowerShell Offensive Frameworks

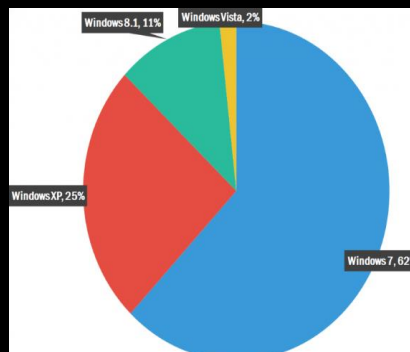
- PowerShell Arsenal
- DSInternals
- Inveigh
- PS>Attack
- PowerCat
- DarkObserver
- Invoke-Mimikatz
- Offensive-PowerShell
- Nishang
- PowerShell Suite
- Sherlock
- PowerShell-AD-Recon
- DSCCompromise
- Invoke-WMILM
- PowerSploit
- Empire
- PowerMemory
- Invoke-Mimikittenz
- Kautilya
- PoshRat
- OWA-Toolkit
- Invoke-Phantom



Some statics on PowerShell Attack

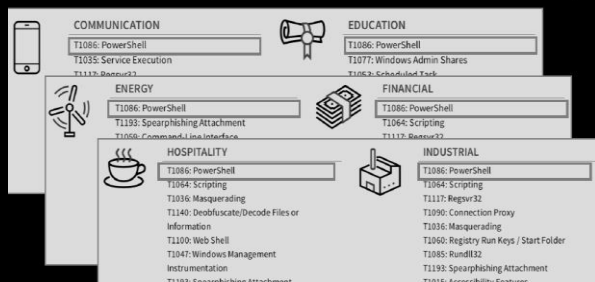
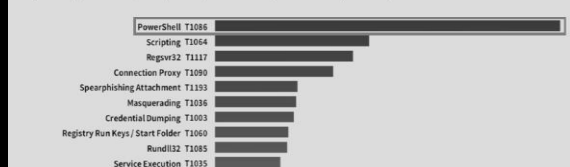


**Rise of PowerShell
Malware**



**Most attacked operating
systems by malware written in
any .NET compatible language.**

This chart illustrates how often each ATTACK technique is leveraged in a confirmed threat in our customers' environments. To provide a degree of scope to this chart, the top technique is PowerShell, which was a component of 1,774 confirmed threats.





Fileless Attack Example Exploiting PowerShell



1. The User Visits an Infected Website or Opens a Malicious Link.



2. Flash Java Is Loaded on the Website and the User's Device Is Scanned for Vulnerabilities.



3. A Shell Code Launches PowerShell. The Attacker Can Run Malicious Command Line Operations In the User's OS Memory.



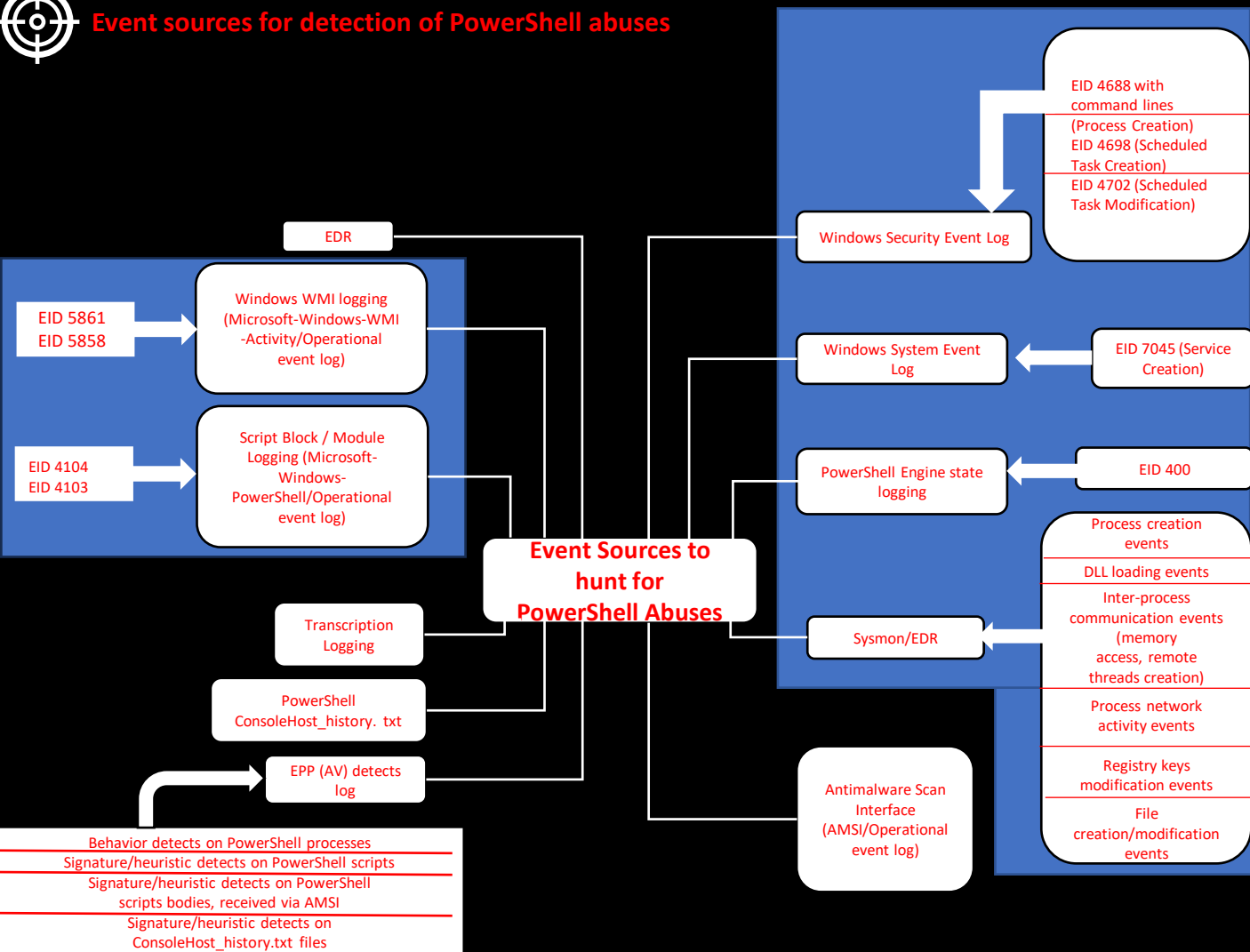
5. The Fileless Attack Is Successful. The Cybercriminal Can Now Steal Sensitive Data, Launch a Ransomware Attack, and More.



4. The Script In PowerShell Downloads and Executes a Payload Carrying Out Malicious Activity in the User's OS Memory.



Event sources for detection of PowerShell abuses





PowerShell abuse patterns

