

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

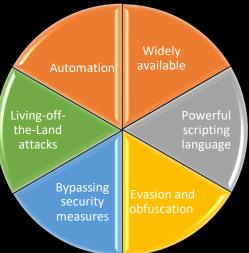
Permissions Required: User, Administrator

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

Supports Remote: Yes

parameters

Why attackers love PowerShell?





POWERSHELL **EMPIRE**



NISHANG



PS > ATTACK



Invoke-Mimikatz

ell-known PowerShell Offensive Framewor

- DSInternals
- Inveigh
- PS>Attack
- PowerCat
- DarkObserver
- Invoke-Mimikatz
- Offensive-PowerShell
 Kautilya
- Nishang
- PowerShell Suite
- Sherlock

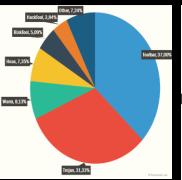
- PowerShell Arsenal
 PowerShell-AD-Recon
 - DSCCompromise

 - Invoke-WMILM
 - PowerSploit
 - Empire
 - PowerMemory

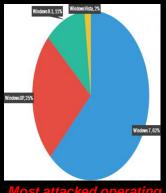
 - Invoke-Mimikittenz
 - PoshRat
 - OWA-Toolkit
 - Invoke-Phant0m



Some statics on PowerShell Attack



Rise of PowerShell Malware

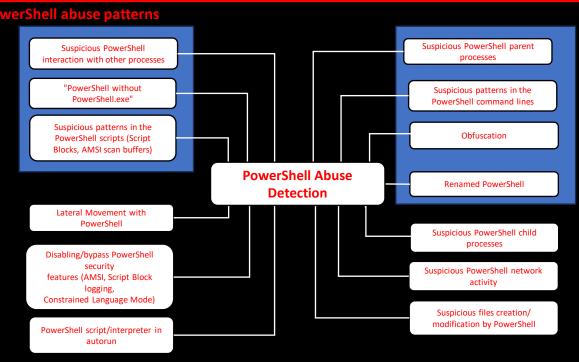




assing the PowerShell Execution Policy

Get-Content .\script.ps1 | powershell.exe -noprofile type .\script.ps1 | powershell.exe -noprofile powershell -command "Write-Host Hello from PowerShell!!!" Invoke-Command –scriptblock (Write-Host Hello from PowerShell!!!'}

Get-Content .\script.ps1 | Invoke-Expression Set-ExecutionPolicy Bypass -Scope Process powershell -ExecutionPolicy Bypass -File .runme.ps1



Check all Suspicious command for Autorun registry keys modification events:

Check all Suspicious command for Command Line WMI consumers creation events

```
if [winlog][channel] == "Microsoft-Windows-Sysmon/Operational" and [winlog][event_id] == 20 {
    if [winlog][event_data][Type] == "Command Line" and [winlog][event_data][Destination] != "" {
        mutate {
            add_field => { "[winlog][event_data][CommandLine]" => "%{[winlog][event_data][Destination]}" }
    }
}
```

Suspicious PowerShell parent process:

Parent process application category	Possible attack vector	Possible MITRE ATT&CK techniques
MS Office App / PDF Reader	Doc with macros/DDE etc., vulnerability exploitation	T1204: User Execution ; T1173: Dynamic Data Exchange ; T1203: Exploitation for Client Execution T1064: Scripting (macros)
MS Outlook	Persistence via Outlook, process execution via Outlook.Application COM	T1137: Office Application Startup TT175: Distributed Component Object Model
Internet Browser	Browser or plugin vulnerability exploitation	T1189: Drive-by Compromise T1203: Exploitation for Client Execution
Web Server	Web Shell, vulnerability exploitation	T1100: Web Shell ; T1210: Exploitation of Remote Services ; T1190: Exploit Public-Facing Application
MS SQL Server	xp_cmdshell, vulnerability exploitation	T1210: Exploitation of Remote Services T1190: Exploit Public-Facing Application
Other Server Applications	Vulnerability exploitation	T1210: Exploitation of Remote Services T1190: Exploit Public-Facing Application

