

**CYBER STRUGGLE**

**TASK- INSPECTION BOARD ON DUTY**

**Hazırlayan:**

**DCS001 Hakan ŞEN**

**Aralık 2023**

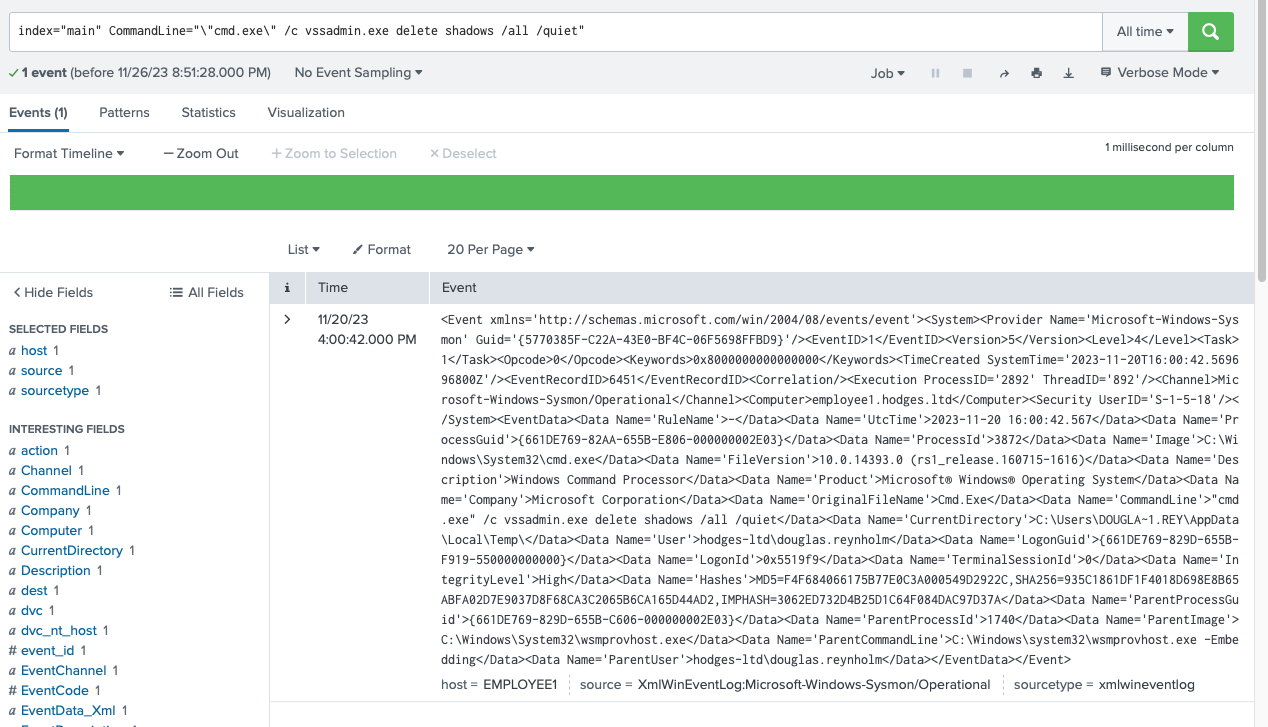
**Ankara**

# **Task 1: Inhibit System Recovery (Tools) | T1490**

<https://github.com/redcanaryco/atomic-red-team/blob/master/atomics/T1490/T1490.md>

Atomic Test #1 - Windows - Delete Volume Shadow Copies

|  |
| --- |
| Splunk Sorgusu: |
| index="main" CommandLine="\"cmd.exe\" /c vssadmin.exe delete shadows /all /quiet" |



Atomic Test #2 - Windows - Delete Volume Shadow Copies via WMI

|  |
| --- |
| Splunk Sorgusu: |
| index="main" CommandLine="wmic.exe shadowcopy delete" |

A screenshot of a computer

Description automatically generated

Atomic Test #3 - Windows - wbadmin Delete Windows Backup Catalog

|  |
| --- |
| Splunk Sorgusu: |
| index="main" CommandLine="wbadmin delete catalog -quiet" |

A screenshot of a computer

Description automatically generated

Atomic Test #4 - Windows - Disable Windows Recovery Console Repair

|  |
| --- |
| Splunk Sorgusu: |
| index="main" CommandLine="bcdedit.exe /set {default} recoveryenabled no" |
| index="main" CommandLine="bcdedit.exe /set {default} bootstatuspolicy ignoreallfailures" |

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

Atomic Test #5 - Windows - Delete Volume Shadow Copies via WMI with PowerShell

|  |
| --- |
| Splunk Sorgusu: |
| index="main" CommandLine="\"powershell.exe\" &amp; {Get-WmiObject Win32\_Shadowcopy | ForEach-Object {$\_.Delete();}}" |

A screenshot of a computer

Description automatically generated

Atomic Test #6 - Windows - Delete Backup Files

|  |
| --- |
| Splunk Sorgusu: |
| index="main" CommandLine="\"cmd.exe\" /c del /s /f /q c:\\\*.VHD c:\\\*.bac c:\\\*.bak c:\\\*.wbcat c:\\\*.bkf c:\\Backup\*.\* c:\\backup\*.\* c:\\\*.set c:\\\*.win c:\\\*.dsk" |

A screenshot of a computer

Description automatically generated

Atomic Test #7 - Windows - wbadmin Delete systemstatebackup

|  |
| --- |
| Splunk Sorgusu: |
| index="main" CommandLine="wbadmin delete systemstatebackup -keepVersions:0" |

A screenshot of a computer

Description automatically generated

Atomic Test #8 - Windows - Disable the SR scheduled task

|  |
| --- |
| Splunk Sorgusu: |
| index="main" CommandLine="schtasks.exe /Change /TN \"\\Microsoft\\Windows\\SystemRestore\\SR\" /disable" |

A screenshot of a computer

Description automatically generated

Atomic Test #9 - Disable System Restore Through Registry

|  |
| --- |
| Splunk Sorgusu: |
| index="main" "reg add" CommandLine="\"cmd.exe\" /c reg add \"HKLM\\SOFTWARE\\Policies\\Microsoft\\Windows NT\\SystemRestore\" /v \"DisableConfig\" /t \"REG\_DWORD\" /d \"1\" /f &amp; reg add \"HKLM\\SOFTWARE\\Policies\\Microsoft\\Windows NT\\SystemRestore\" /v \"DisableSR\" /t \"REG\_DWORD\" /d \"1\" /f &amp; reg add \"HKLM\\SOFTWARE\\Microsoft\\Windows NT\\CurrentVersion\\SystemRestore\" /v \"DisableConfig\" /t \"REG\_DWORD\" /d \"1\" /f &amp; reg add \"HKLM\\SOFTWARE\\Microsoft\\Windows NT\\CurrentVersion\\SystemRestore\" /v \"DisableSR\" /t \"REG\_DWORD\" /d \"1\" /f" |

A screenshot of a computer

Description automatically generated

Atomic Test #10 - Windows - vssadmin Resize Shadowstorage Volume

|  |
| --- |
| Splunk Sorgusu: |
| index="main" CommandLine="\"C:\\Windows\\system32\\vssadmin.exe\" resize shadowstorage /For=C: /On=C: /MaxSize=20%%" |

A screenshot of a computer

Description automatically generated

**Task 2:** Impair Defenses: Disable Windows Event Logging | T1562.002-6

<https://github.com/redcanaryco/atomic-red-team/blob/master/atomics/T1562.002/T1562.002.md#atomic-test-6---disable-event-logging-with-wevtutil>

Atomic Test #6 - Disable Event Logging with wevtutil

|  |
| --- |
|  |
| index="main" CommandLine="wevtutil sl \"Microsoft-Windows-IKE/Operational\" /e:false" |

A screenshot of a computer

Description automatically generated

**Task 3:** Modify Registry (Suspicious Registery Modifying) | T1112-3

Atomic Test #3 - Modify registry to store logon credentials

|  |
| --- |
|  |
| index="main" CommandLine="reg add HKLM\\SYSTEM\\CurrentControlSet\\Control\\SecurityProviders\\WDigest /v UseLogonCredential /t REG\_DWORD /d 1 /f" |

A screenshot of a computer

Description automatically generated

**Task 4:**Detection OS Credential Dumping : LSASS Memory | T1003.001-2

<https://github.com/redcanaryco/atomic-red-team/blob/master/atomics/T1003.001/T1003.001.md>

Atomic Test #2 - Dump LSASS.exe Memory using comsvcs.dll

|  |
| --- |
|  |
| index="main" CommandLine="\"powershell.exe\" &amp; {C:\\Windows\\System32\\rundll32.exe C:\\windows\\System32\\comsvcs.dll, MiniDump (Get-Process lsass).id $env:TEMP\\lsass-comsvcs.dmp full}" |

A screenshot of a computer

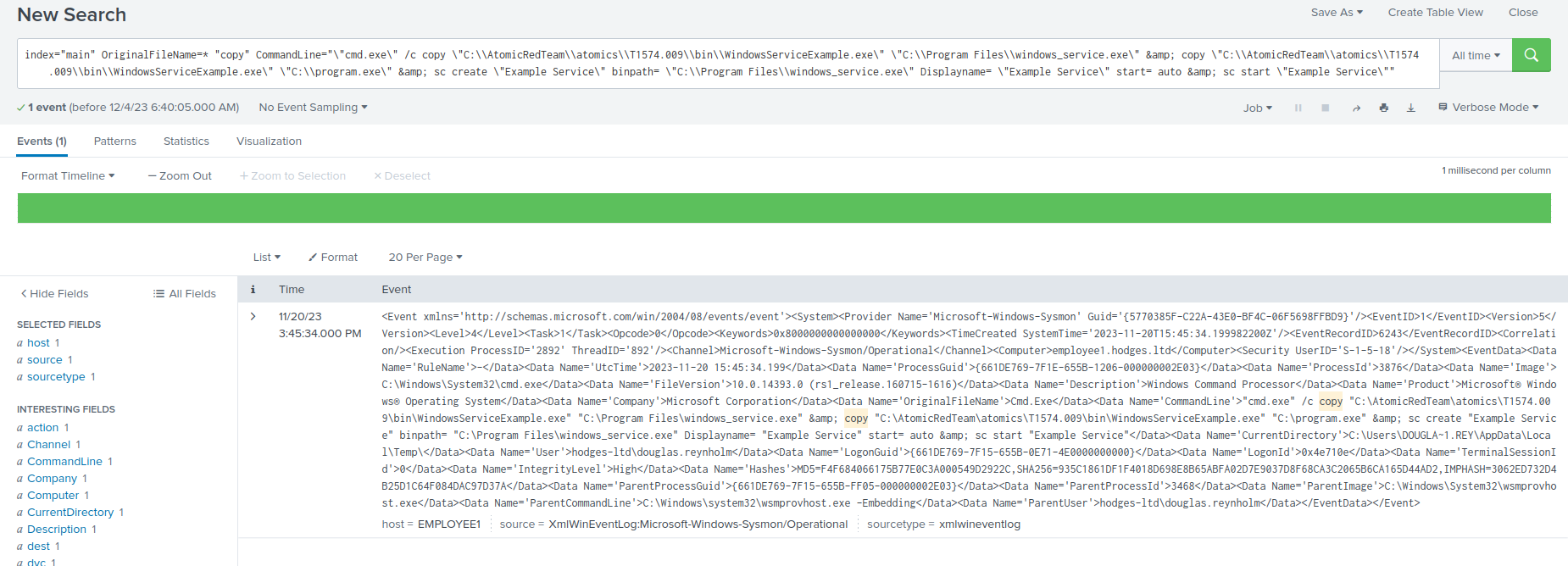
Description automatically generated

**Task 5:**Path Interception by Unquoted Path | T1574.009-1

<https://github.com/redcanaryco/atomic-red-team/blob/master/atomics/T1547.009/T1547.009.md>

Atomic Test #1 - Shortcut Modification

|  |
| --- |
|  |
| index="main" OriginalFileName=\* "copy" CommandLine="\"cmd.exe\" /c copy \"C:\\AtomicRedTeam\\atomics\\T1574.009\\bin\\WindowsServiceExample.exe\" \"C:\\Program Files\\windows\_service.exe\" &amp; copy \"C:\\AtomicRedTeam\\atomics\\T1574.009\\bin\\WindowsServiceExample.exe\" \"C:\\program.exe\" &amp; sc create \"Example Service\" binpath= \"C:\\Program Files\\windows\_service.exe\" Displayname= \"Example Service\" start= auto &amp; sc start \"Example Service\"" |

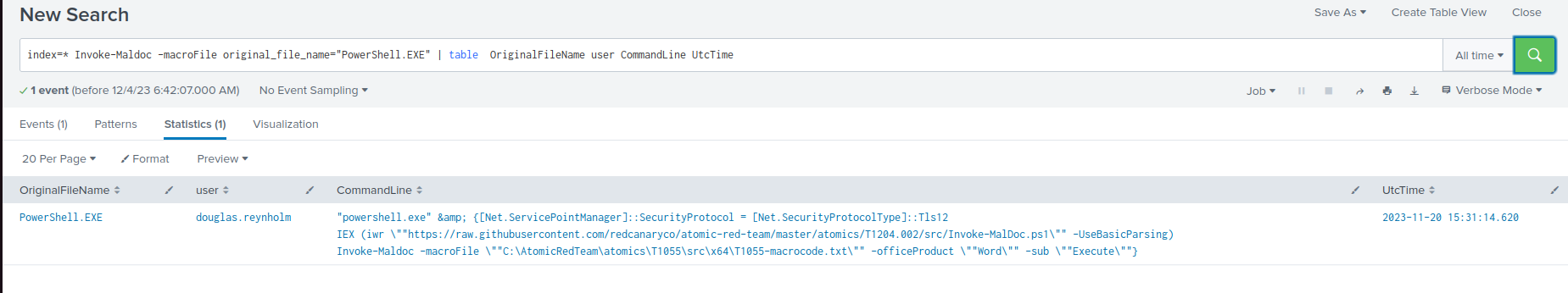


**Task 6:** Process Injection (Shellcode execution via VBA) | T1055-1

https://github.com/redcanaryco/atomic-red-team/blob/master/atomics/T1055/T1055.md

Atomic Test #1 - Shellcode execution via VBA

|  |
| --- |
|  |
| index=\* Invoke-Maldoc -macroFile original\_file\_name="PowerShell.EXE" | table OriginalFileName user CommandLine UtcTime |



Additionally we don't understand why they were successfully executed in the internal network, so if you let us know how to prevent this from happening, we can re-test and document the results.

Komut satırı üzerinden çalıştırılan komutlar, "admin" yetkisiyle yürütülebilir durumdadır. Bu bağlamda, "cmd.exe"nin Group Policy tarafından kullanımı kısıtlanmalıdır. Douglas.reynholm kullanıcısı, admin yetkisi gerektiren tüm komutları başarıyla çalıştırabilmiştir.

PowerShell'de, ExecutionPolicy ayarı, çalıştırılabilen script türlerini belirler. Bu ayarı değiştirerek PowerShell scriptlerinin çalıştırılması engellenebilirdi.

Örneğin, Set-ExecutionPolicy Restricted komutu ile scriptlerin çalışması durdurulabilir.

PowerShell'de başka bir sıkılaştırma önlemi olarak, belirli komut dosyalarının çalıştırılmasına izin vermek için bir beyaz liste oluşturulabilir. Bu sayede, yalnızca belirli scriptlere izin verilirken, diğer scriptler engellenmiş olur.