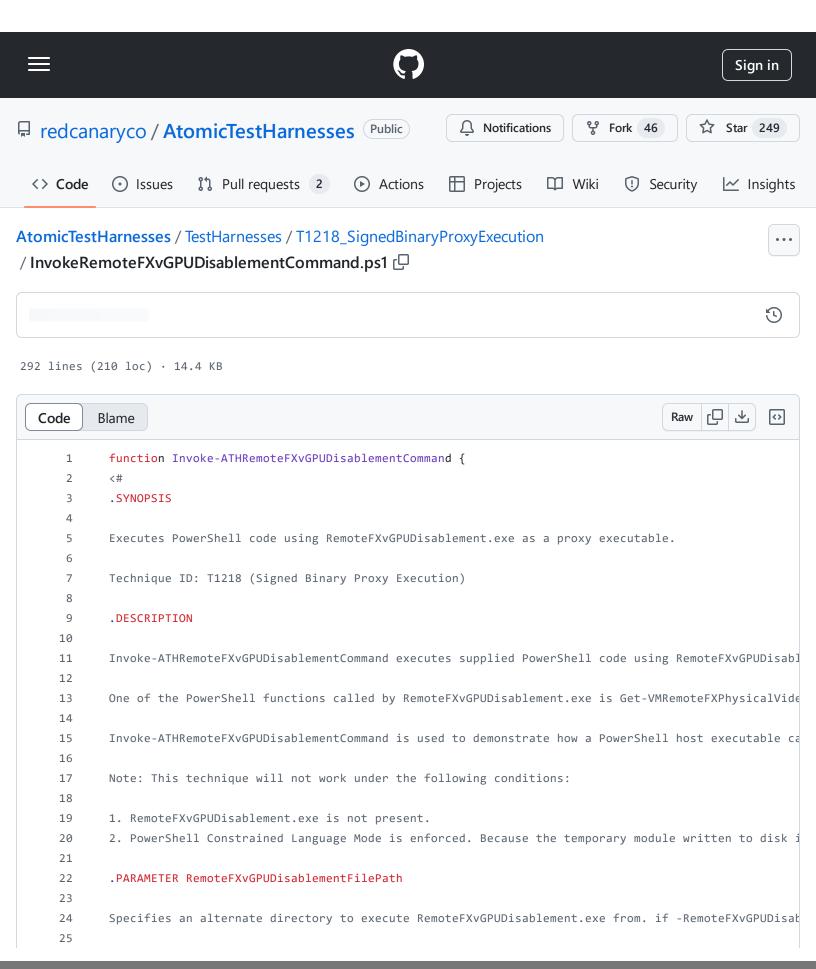
AtomicTestHarnesses/TestHarnesses/T1218_SignedBinaryProxyExecution/InvokeRemoteFXvGPUDisablementComat 7e1e4da116801e3d6fcc6bedb207064577e40572 · redcanaryco/AtomicTestHarnesses · GitHub - 31/10/2024 16:59 https://github.com/redcanaryco/AtomicTestHarnesses/blob/7e1e4da116801e3d6fcc6bedb207064577e40572/TestHarnesses/I



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```
26
       .PARAMETER ScriptBlock
27
       Specifies optional PowerShell code to execute. Note that supplied PowerShell code will not display
28
29
30
       .PARAMETER ModuleName
31
       Specifies a temporary module name to use. If -ModuleName is not supplied, a 16-character random tem
32
33
       .PARAMETER ModulePath
34
35
       Specifies an alternate, non-default PowerShell module path for RemoteFXvGPUDisablement.exe. If -Mod
36
37
38
       .PARAMETER TestGuid
39
40
       Optionally, specify a test GUID value to use to override the generated test GUID behavior.
41
42
       .OUTPUTS
43
       PSObject
44
45
46
       Outputs an object consisting of relevant execution details. The following object properties may be
47
       * TechniqueID - Specifies the relevant MITRE ATT&CK Technique ID.
48
49
       st TestSuccess - Will be set to True if it was determined that the PowerShell code successfully exe\mathfrak c
50
       * TestGuid - Specifies the test GUID that was used for the test.
       * ModulePath - Specifies the path to the temporary module created.
51
       st ModuleContents - Specifies the contents of the custom implementation of the Get-VMRemoteFXPhysicec{\epsilon}
52
53
       * ModuleFileHash - Specifies the SHA256 file hash of the custom script module file.
       * RunnerFilePath - Specifies the full path of RemoteFXvGPUDisablement.exe.
54
       * RunnerProcessId - Specifies the process ID of RemoteFXvGPUDisablement.exe.
55
       * RunnerCommandLine - Specifies the command-line of RemoteFXvGPUDisablement.exe.
56
       * RunnerChildProcessId - Specifies the process ID of the process that was executed as the result of
57
       st RunnerChildProcessCommandLine - Specifies the command-line of process that was executed as the re
58
59
       .EXAMPLE
60
61
62
       Invoke-ATHRemoteFXvGPUDisablementCommand
63
64
       .EXAMPLE
65
       Invoke-ATHRemoteFXvGPUDisablementCommand -ScriptBlock { Get-Date | Out-File -FilePath 'C:\Users\Cur
66
67
       .EXAMPLE
68
69
70
       Invoke-ATHRemoteFXvGPUDisablementCommand -ModuleName Foo
71
```

```
72
        .EXAMPLE
73
 74
        Invoke-ATHRemoteFXvGPUDisablementCommand -ModulePath $PWD
75
76
        Executes PowerShell code from a user-supplied module path, in this case, the current directory.
77
78
        .EXAMPLE
79
80
        Copy-Item -Path "$Env:windir\System32\RemoteFXvGPUDisablement.exe" -Destination 'notepad.exe'
81
        Invoke-ATHRemoteFXvGPUDisablementCommand -RemoteFXvGPUDisablementFilePath 'notepad.exe'
82
        Executes RemoteFXvGPUDisablement.exe from a relocated and renamed executable, notepad.exe in the cu
83
84
85
        .LINK
86
87
        https://support.microsoft.com/en-us/help/4558998/windows-10-update-kb4558998
88
        https://support.microsoft.com/en-us/help/4570006/update-to-disable-and-remove-the-remotefx-vgpu-com
89
        https://twitter.com/pronichkin/status/1285241439052427265
90
        #>
91
92
            [CmdletBinding()]
93
            param (
                [String]
94
95
                [ValidateNotNullOrEmpty()]
96
                $RemoteFXvGPUDisablementFilePath = "$Env:windir\System32\RemoteFXvGPUDisablement.exe",
97
98
                [ScriptBlock]
99
                $ScriptBlock,
100
101
                [String]
                [ValidateNotNullOrEmpty()]
102
                $ModuleName = ((1..16 | ForEach-Object { [Char] (Get-Random -Minimum 0x41 -Maximum 0x5B) })
103
104
105
                [String]
                [ValidateScript({ Test-Path -Path $_ -PathType Container })]
106
107
                $ModulePath,
108
109
                [Guid]
                $TestGuid = (New-Guid)
110
111
            )
112
            $ModuleExecuted = $null
113
114
            $FullModulePath = $null
115
            $ExecutedRemoteFXvGPUDisablementCommandLine = $null
            $ExecutedRemoteFXvGPUDisablementPID = $null
116
            $$nawnedProcCommandLine = $null
117
```

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AtomicTestHarnesses/TestHarnesses/T1218_SignedBinaryProxyExecution/InvokeRemoteFXvGPUDisablementComat 7e1e4da116801e3d6fcc6bedb207064577e40572 · redcanaryco/AtomicTestHarnesses · GitHub - 31/10/2024 16:59 https://github.com/redcanaryco/AtomicTestHarnesses/blob/7e1e4da116801e3d6fcc6bedb207064577e40572/TestHarnesses/TestHarn						

```
219
            if ($ModulePath) {
                # Prepend the supplied module path to %PSModulePath%
220
                $CustomPSModulePath = "PSModulePath=$($FullModulePath);$($Env:PSModulePath)"
221
222
223
                # Gather up all existing environment variables except %PSModulePath%.
                [String[]] $AllEnvVarsExceptPSModulePath = Get-ChildItem Env:\* -Exclude 'PSModulePath' | F
224
225
226
                [String[]] $AllEnvVars = $AllEnvVarsExceptPSModulePath + $CustomPSModulePath
227
228
                $ProcessStartupInstance.EnvironmentVariables = $AllEnvVars
229
            }
230
231
            $ProcStartResult = Invoke-CimMethod -ClassName Win32_Process -MethodName Create -Arguments @{ (
232
233
            if ($ProcStartResult.ReturnValue -eq 0) {
234
                # Retrieve the actual command-line of the spawned PowerShell process
235
                $ExecutedRemoteFXvGPUDisablementProcInfo = Get-CimInstance -ClassName Win32 Process -Filter
                $ExecutedRemoteFXvGPUDisablementCommandLine = $ExecutedRemoteFXvGPUDisablementProcInfo.Comm
236
                $ExecutedRemoteFXvGPUDisablementPID = $ProcStartResult.ProcessId
237
                $RemoteFXvGPUDisablementFullPath = $ExecutedRemoteFXvGPUDisablementProcInfo.ExecutablePath
238
            } else {
239
                Write-Error "RemoteFXvGPUDisablementFullPath.exe child process was not spawned."
240
241
            }
242
243
            if (-not $ScriptBlock) {
244
                # Wait for the test powershell.exe execution to run
245
                $ChildProcSpawnedEvent = Wait-Event -SourceIdentifier 'ChildProcSpawned' -Timeout 10
                $ChildProcInfo = $null
246
247
248
                if ($ChildProcSpawnedEvent) {
                    $ModuleExecuted = $True
249
250
251
                    $ChildProcInfo = $ChildProcSpawnedEvent.MessageData
                    $SpawnedProcCommandLine = $ChildProcInfo.ProcessCommandLine
252
253
                    $SpawnedProcProcessId = $ChildProcInfo.ProcessId
254
```

```
255
                    $ChildProcSpawnedEvent | Remove-Event
256
                    Write-Error "powershell.exe child process was not spawned."
257
                }
258
259
260
                # Cleanup
                Unregister-Event -SourceIdentifier 'ProcessSpawned'
261
262
            }
263
            [PSCustomObject] @{
264
                                   = 'T1218'
                TechniqueID
265
266
                TestSuccess
                                   = $ModuleExecuted
                TestGuid
                                   = $TestGuid
267
                                   = $ModuleScriptPath
                ModulePath
268
                ModuleContents
                                  = $FunctionToExecute
269
                ModuleFileHash
                                  = $ScriptModuleFileHash
270
                                  = $RemoteFXvGPUDisablementFullPath
271
                RunnerFilePath
272
                RunnerProcessId
                                  = $ExecutedRemoteFXvGPUDisablementPID
                RunnerCommandLine = $ExecutedRemoteFXvGPUDisablementCommandLine
273
                RunnerChildProcessId
                                               = $SpawnedProcProcessId
274
                RunnerChildProcessCommandLine = $SpawnedProcCommandLine
275
276
            }
277
            # Sleep a few seconds to give it some time to execute prior to deleting the temporary module.
278
            if ($ScriptBlock) {
279
                Start-Sleep -Seconds 2
280
281
            }
282
            # Delete the module that was just created
283
            Write-Verbose "Deleting the script module: $ModuleScriptPath"
284
            Remove-Item -Path $ModuleScriptPath -Force -ErrorAction SilentlyContinue
285
286
            Write-Verbose "Deleting the module path: $NewModulePath"
287
            Remove-Item -Path $NewModulePath -Force -ErrorAction SilentlyContinue
288
289
290
            Remove-Module -ModuleInfo $ModuleInfo -ErrorAction SilentlyContinue
291
            Remove-Item Function:\Get-VMRemoteFXPhysicalVideoAdapter -ErrorAction SilentlyContinue
292
        }
```