

```
. values.communiations - Shectifes the communiations of vemore.valoronsentement.exe.
 JΟ
 57
        st RunnerChildProcessId - Specifies the process ID of the process that was executed as t
        * RunnerChildProcessCommandLine - Specifies the command-line of process that was execut
 58
 59
        .EXAMPLE
 60
 61
        Invoke-ATHRemoteFXvGPUDisablementCommand
 62
 63
        .EXAMPLE
 64
 65
        Invoke-ATHRemoteFXvGPUDisablementCommand -ScriptBlock { Get-Date | Out-File -FilePath
 66
 67
        .EXAMPLE
 68
 69
 70
        Invoke-ATHRemoteFXvGPUDisablementCommand -ModuleName Foo
 71
 72
        .EXAMPLE
 73
 74
        Invoke-ATHRemoteFXvGPUDisablementCommand -ModulePath $PWD
 75
 76
        Executes PowerShell code from a user-supplied module path, in this case, the current di
 77
 78
        .EXAMPLE
 79
        Copy-Item -Path "$Env:windir\System32\RemoteFXvGPUDisablement.exe" -Destination 'notepa
 80
        Invoke-ATHRemoteFXvGPUDisablementCommand -RemoteFXvGPUDisablementFilePath 'notepad.exe'
 81
 82
 83
        Executes RemoteFXvGPUDisablement.exe from a relocated and renamed executable, notepad.e
 84
        .LINK
 85
 86
        https://support.microsoft.com/en-us/help/4558998/windows-10-update-kb4558998
 87
        https://support.microsoft.com/en-us/help/4570006/update-to-disable-and-remove-the-remot
 88
        https://twitter.com/pronichkin/status/1285241439052427265
 89
 90
 91
            [CmdletBinding()]
 92
            param (
 93
 94
                [String]
 95
                [ValidateNotNullOrEmpty()]
                $RemoteFXvGPUDisablementFilePath = "$Env:windir\System32\RemoteFXvGPUDisablemen
 96
 97
                [ScriptBlock]
 98
                $ScriptBlock,
 99
100
101
                [String]
                [ValidateNotNullOrEmpty()]
102
                $ModuleName = ((1..16 | ForEach-Object { [Char] (Get-Random -Minimum 0x41 -Maxi
103
104
105
                [String]
                [ValidateScript({ Test-Path -Path $_ -PathType Container })]
106
                $ModulePath,
107
108
                [Guid]
109
110
                $TestGuid = (New-Guid)
111
112
            $ModuleExecuted = $null
113
            $FullModulePath = $null
114
            $ExecutedRemoteFXvGPUDisablementCommandLine = $null
115
            $ExecutedRemoteFXvGPUDisablementPID = $null
116
            $SpawnedProcCommandLine = $null
117
```

AtomicTestHarnesses/TestHarnesses/T1218_Si7e1e4da116801e3d6fcc6bedb207064577e40572 https://github.com/redcanaryco/AtomicTestHarness	ignedBinaryProxyExecution/InvokeRemoteFXvGPUDisablementCommand.ps1 at · redcanaryco/AtomicTestHarnesses · GitHub - 02/11/2024 14:30 es/blob/7e1e4da116801e3d6fcc6bedb207064577e40572/TestHarnesses/T1218_SignedBinaryProxyExecution/	

```
219
            if ($ModulePath) {
220
                # Prepend the supplied module path to %PSModulePath%
                $CustomPSModulePath = "PSModulePath=$($FullModulePath);$($Env:PSModulePath)"
221
222
223
                # Gather up all existing environment variables except %PSModulePath%.
                [String[]] $AllEnvVarsExceptPSModulePath = Get-ChildItem Env:\* -Exclude 'PSMod
224
225
226
                [String[]] $AllEnvVars = $AllEnvVarsExceptPSModulePath + $CustomPSModulePath
227
                $ProcessStartupInstance.EnvironmentVariables = $AllEnvVars
228
229
            }
230
            $ProcStartResult = Invoke-CimMethod -ClassName Win32 Process -MethodName Create -Ar
231
232
233
            if ($ProcStartResult.ReturnValue -eq 0) {
234
                # Retrieve the actual command-line of the spawned PowerShell process
235
                $ExecutedRemoteFXvGPUDisablementProcInfo = Get-CimInstance -ClassName Win32_Pro
                $ExecutedRemoteFXvGPUDisablementCommandLine = $ExecutedRemoteFXvGPUDisablementP
236
                $ExecutedRemoteFXvGPUDisablementPID = $ProcStartResult.ProcessId
237
238
                $RemoteFXvGPUDisablementFullPath = $ExecutedRemoteFXvGPUDisablementProcInfo.Exe
239
            } else {
240
                Write-Error "RemoteFXvGPUDisablementFullPath.exe child process was not spawned.
241
            }
242
243
            if (-not $ScriptBlock) {
244
                # Wait for the test powershell.exe execution to run
                $ChildProcSpawnedEvent = Wait-Event -SourceIdentifier 'ChildProcSpawned' -Timeo
245
                $ChildProcInfo = $null
246
247
248
                if ($ChildProcSpawnedEvent) {
249
                    $ModuleExecuted = $True
250
251
                    $ChildProcInfo = $ChildProcSpawnedEvent.MessageData
                    $SpawnedProcCommandLine = $ChildProcInfo.ProcessCommandLine
252
253
                    $SpawnedProcProcessId = $ChildProcInfo.ProcessId
254
                    $ChildProcSpawnedEvent | Remove-Event
255
256
                } else {
257
                    Write-Error "powershell.exe child process was not spawned."
258
                }
259
260
                # Cleanup
                Unregister-Event -SourceIdentifier 'ProcessSpawned'
261
262
            }
263
            [PSCustomObject] @{
264
                TechniqueID
                                   = 'T1218'
265
                                   = $ModuleExecuted
266
                TestSuccess
                                   = $TestGuid
                TestGuid
267
                ModulePath
                                   = $ModuleScriptPath
268
                ModuleContents
                                   = $FunctionToExecute
269
                                   = $ScriptModuleFileHash
                ModuleFileHash
270
                                   = $RemoteFXvGPUDisablementFullPath
271
                RunnerFilePath
                                  = $ExecutedRemoteFXvGPUDisablementPID
                RunnerProcessId
272
                RunnerCommandLine = $ExecutedRemoteFXvGPUDisablementCommandLine
273
                                               = $SpawnedProcProcessId
274
                RunnerChildProcessId
                RunnerChildProcessCommandLine = $SpawnedProcCommandLine
275
276
            }
277
            # Sleep a few seconds to give it some time to execute prior to deleting the tempora
278
            if ($ScriptBlock) {
279
```

 $AtomicTestHarnesses/TestHarnesses/T1218_SignedBinaryProxyExecution/InvokeRemoteFXvGPUD is ablement Command.ps 1\ at 7e1e4da116801e3d6fcc6bedb207064577e40572 \cdot redcanaryco/AtomicTestHarnesses \cdot GitHub - 02/11/2024\ 14:30$

https://github.com/redcanaryco/AtomicTestHarnesses/blob/7e1e4da116801e3d6fcc6bedb207064577e40572/TestHarnesses/T1218_SignedBinaryProxyExecution/li

```
280
                Start-Sleep -Seconds 2
281
            }
282
            # Delete the module that was just created
283
284
            Write-Verbose "Deleting the script module: $ModuleScriptPath"
285
            Remove-Item -Path $ModuleScriptPath -Force -ErrorAction SilentlyContinue
286
287
            Write-Verbose "Deleting the module path: $NewModulePath"
288
            Remove-Item -Path $NewModulePath -Force -ErrorAction SilentlyContinue
289
290
            Remove-Module -ModuleInfo $ModuleInfo -ErrorAction SilentlyContinue
291
            Remove-Item Function:\Get-VMRemoteFXPhysicalVideoAdapter -ErrorAction SilentlyConti
292
       }
```