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Home / Xcyclopedia / Library / **vbc.exe | Visual Basic Command Line Compiler**

vbc.exe

>> File Path: `C:\WINDOWS\Microsoft.NET\Framework\v4.0.30319\vbc.exe`

>> Description: Visual Basic Command Line Compiler

Hashes

Type	Hash
MD5	A731372E6F6978CE25617AE01B143351
SHA1	EAB9863A3B7FE5BA2C916A5115C4F13D0984FF89
SHA256	19A3CFBC90E877DF30E938FB55785AC3BA8E2E30A54FFBB5AF6E0EC9430F9E4B
SHA384	96434D9E7D03EE395ABB9D4D39CDA7D4E3F9DBD3D9C629E8553CC0CB084F87F754692A894069B20EB4E7AC131589081C
SHA512	4824C046C2B8370DC290FFBEC0C2AA17A4CC22ED2B313E33D72E4AEC5D01AB9E6E9676848752D37D95AAFA9818F35B233BF70E7A84E0FA0106D22C5F07A38B0D
SSDEEP	49152:4EF5PsH1IaspqACp//9NqqAJN77F29ZJOx22p:bw16psLqqAJN77F29jOx2O
IMP	1460E2E6D7F8ECA4240B7C78FA619D15
PESHA1	E030E501C10B0AA70B406A88204F2BE062CDA8DD
PE256	DD25C9C61C3F2BFBE4FBA5A396979D8E35274D2B63F4885AC64B1137C7828DC7

Runtime Data

Usage (stdout):

```
Microsoft (R) Visual Basic Compiler version 14.8.4161
for Visual Basic 2012
Copyright (c) Microsoft Corporation.  All rights reserved.


This compiler is provided as part of the Microsoft (R) .NET Framework, but only supports language versions up to Visual Basic 2012, which is no

                Visual Basic Compiler Options


                        - OUTPUT FILE -
/out:<file>             Specifies the output file name.
/target:exe             Create a console application (default). (Short form: /t)
/target:winexe          Create a Windows application.
/target:library         Create a library assembly.
/target:module          Create a module that can be added to an assembly.
/target:appcontainerexe Create a Windows application that runs in AppContainer.
/target:winmdobj        Create a Windows Metadata intermediate file
/doc[+|-]               Generates XML documentation file.
/doc:<file>             Generates XML documentation file to <file>.


                        - INPUT FILES -
/addmodule:<file_list>  Reference metadata from the specified modules.
/link:<file_list>       Embed metadata from the specified interop assembly. (Short form: /l)
/recurse:<wildcard>     Include all files in the current directory and subdirectories according to the wildcard specifications.
/reference:<file_list>  Reference metadata from the specified assembly. (Short form: /r)


                        - RESOURCES -
/linkresource:<resinfo> Links the specified file as an external assembly resource. resinfo:<file>[,<name>[,public|private]] (Short for
/nowin32manifest        The default manifest should not be embedded in the manifest section of the output PE.
/resource:<resinfo>     Adds the specified file as an embedded assembly resource. resinfo:<file>[,<name>[,public|private]] (Short form
```

```
/win32icon:<file>              Specifies a Win32 icon file (.ico) for the default Win32 resources.
/win32manifest:<file>          The provided file is embedded in the manifest section of the output PE.
/win32resource:<file>          Specifies a Win32 resource file (.res).


                               - CODE GENERATION -
/optimize[+|-]                 Enable optimizations.
/removeintchecks[+|-]          Remove integer checks. Default off.
/debug[+|-]                    Emit debugging information.
/debug:full                    Emit full debugging information (default).
/debug:pdbonly                 Emit PDB file only.


                               - ERRORS AND WARNINGS -
/nowarn                        Disable all warnings.
/nowarn:<number_list>          Disable a list of individual warnings.
/warnaserror[+|-]              Treat all warnings as errors.
/warnaserror[+|-]:<number_list>  Treat a list of warnings as errors.


                               - LANGUAGE -
/define:<symbol_list>          Declare global conditional compilation symbol(s). symbol_list:name=value,... (Short form: /d)
/imports:<import_list>         Declare global Imports for namespaces in referenced metadata files. import_list:namespace,...
/langversion:<number>          Specify language version: 9|10|11.
/optionexplicit[+|-]           Require explicit declaration of variables.
/optioninfer[+|-]              Allow type inference of variables.
/rootnamespace:<string>        Specifies the root Namespace for all type declarations.
/optionstrict[+|-]             Enforce strict language semantics.
/optionstrict:custom           Warn when strict language semantics are not respected.
/optioncompare:binary          Specifies binary-style string comparisons. This is the default.
/optioncompare:text            Specifies text-style string comparisons.


                               - MISCELLANEOUS -
/help                          Display this usage message. (Short form: /?)
/noconfig                      Do not auto-include VBC.RSP file.
/nologo                        Do not display compiler copyright banner.
/quiet                         Quiet output mode.
/verbose                       Display verbose messages.


                               - ADVANCED -
/baseaddress:<number>          The base address for a library or module (hex).
/bugreport:<file>              Create bug report file.
/codepage:<number>             Specifies the codepage to use when opening source files.
/delaysign[+|-]                Delay-sign the assembly using only the public portion of the strong name key.
/errorreport:<string>          Specifies how to handle internal compiler errors; must be prompt, send, none, or queue (default).
/filealign:<number>            Specify the alignment used for output file sections.
/highentropyva[+|-]            Enable high-entropy ASLR.
/keycontainer:<string>         Specifies a strong name key container.
/keyfile:<file>                Specifies a strong name key file.
/libpath:<path_list>           List of directories to search for metadata references. (Semi-colon delimited.)
/main:<class>                  Specifies the Class or Module that contains Sub Main. It can also be a Class that inherits from System.Windows
/moduleassemblyname:<string>   Name of the assembly which this module will be a part of.
/netcf                         Target the .NET Compact Framework.
/nostdlib                      Do not reference standard libraries (system.dll and VBC.RSP file).
/platform:<string>             Limit which platforms this code can run on; must be x86, x64, Itanium, arm, AnyCPU32BitPreferred or anycpu (de
/sdkpath:<path>                Location of the .NET Framework SDK directory (mscorlib.dll).
/subsystemversion:<version>    Specify subsystem version of the output PE. version:<number>[.<number>]
/utf8output[+|-]               Emit compiler output in UTF8 character encoding.
@<file>                        Insert command-line settings from a text file.
/vbruntime[+|-|*]              Compile with/without the default Visual Basic runtime.
/vbruntime:<file>              Compile with the alternate Visual Basic runtime in <file>.
```

Loaded Modules:

Path
C:\WINDOWS\Microsoft.NET\Framework\v4.0.30319\vbc.exe
C:\WINDOWS\SYSTEM32\ntdll.dll
C:\WINDOWS\System32\wow64.dll
C:\WINDOWS\System32\wow64base.dll
C:\WINDOWS\System32\wow64con.dll
C:\WINDOWS\System32\wow64cpu.dll
C:\WINDOWS\System32\wow64win.dll

Signature

>> Status: Signature verified.

>> Serial: `33000002ED2C45E4C145CF48440000000002ED`

>> Thumbprint: `312860D2047EB81F8F58C29FF19ECDB4C634CF6A`

>> Issuer: CN=Microsoft Windows Production PCA 2011, O=Microsoft Corporation, L=Redmond, S=Washington, C=US

>> Subject: CN=Microsoft Windows, O=Microsoft Corporation, L=Redmond, S=Washington, C=US

File Metadata

>> Original Filename: vbc.exe

>> Product Name: Microsoft .NET Framework

>> Company Name: Microsoft Corporation

>> File Version: 14.8.4161.0

>> Product Version: 14.8.4161.0

>> Language: English (United States)

>> Legal Copyright: Microsoft Corporation. All rights reserved.

>> Machine Type: 32-bit

File Scan

>> VirusTotal Detections: 0/72

>> VirusTotal Link:
https://www.virustotal.com/gui/file/19a3cfbc90e877df30e938fb55785ac3ba8e2e30a54ffbb5af6e0ec9430f9e4b/detection

File Similarity (ssdeep match)

File	Score
C:\Windows\Microsoft.NET\Framework\v4.0.30319\vbc.exe	93

Possible Misuse

The following table contains possible examples of `vbc.exe` *being misused. While* `vbc.exe` *is **not** inherently malicious, its legitimate functionality can be abused for malicious purposes.*

Source	Source File	Example	License
sigma	proc_creation_win_visual_basic_compiler.yml	`ParentImage|endswith: '\vbc.exe'`	DRL 1.0

LOLBAS	Microsoft.Workflow.Compiler.yml	`- IOC: The presence of csc.exe or vbc.exe as child processes of Microsoft.Workflow.Compiler.exe`
LOLBAS	Vbc.yml	`Name: vbc.exe`
LOLBAS	Vbc.yml	`- Command: vbc.exe /target:exe c:\temp\vbs\run.vb`
LOLBAS	Vbc.yml	`- Path: C:\Windows\Microsoft.NET\Framework64\v4.0.30319\vbc.exe`
LOLBAS	Vbc.yml	`- Path: C:\Windows\Microsoft.NET\Framework64\v3.5\vbc.exe`

Page 4 of 4