

#BugBounty — “Journey from LFI to RCE!!!” -How I was able to get the same in one of the India’s popular property buy/sell company.



Avinash Jain (@logicbomb_1)

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Apr 19, 2018 · 3 min read

Hi Guys,

This blog is about how I was able to get Remote Code Execution (RCE) from Local file inclusion (LFI) in one of the India’s property buyers & sellers company. Let’s see what was the complete scenario-

As a bugbounty hunter the most important thing that I feel is the approach which we try or follow to exploit the vulnerability and which ultimately leads to have a much more impact from the vulnerability and the same I carried here.

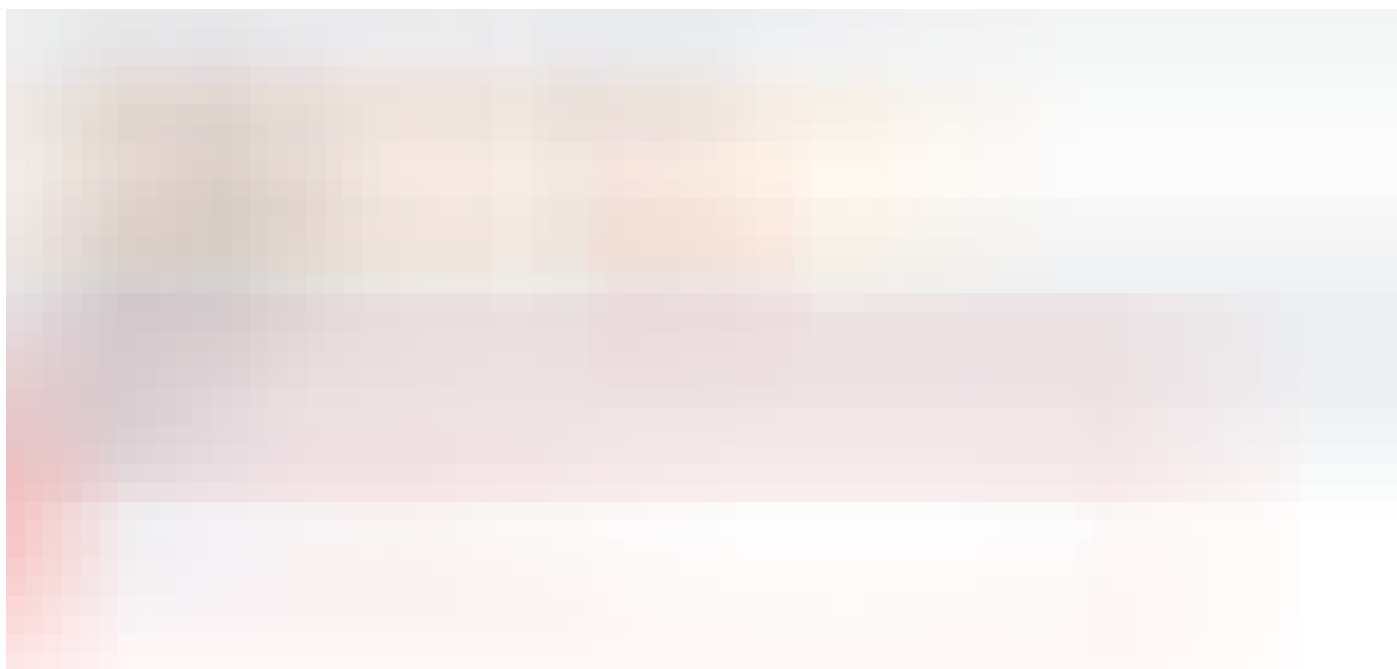
While searching for the vulnerabilities, I found LFI in the target site-
[https://www.victimsite.com/forum/attachment-serve?
name=../../../../../../../../../../../../etc/shadow&path=.](https://www.victimsite.com/forum/attachment-serve?name=../../../../../../../../../../../../etc/shadow&path=.) As you can see
parameter “name” was vulnerable to LFI.



LFI (/etc/shadow)

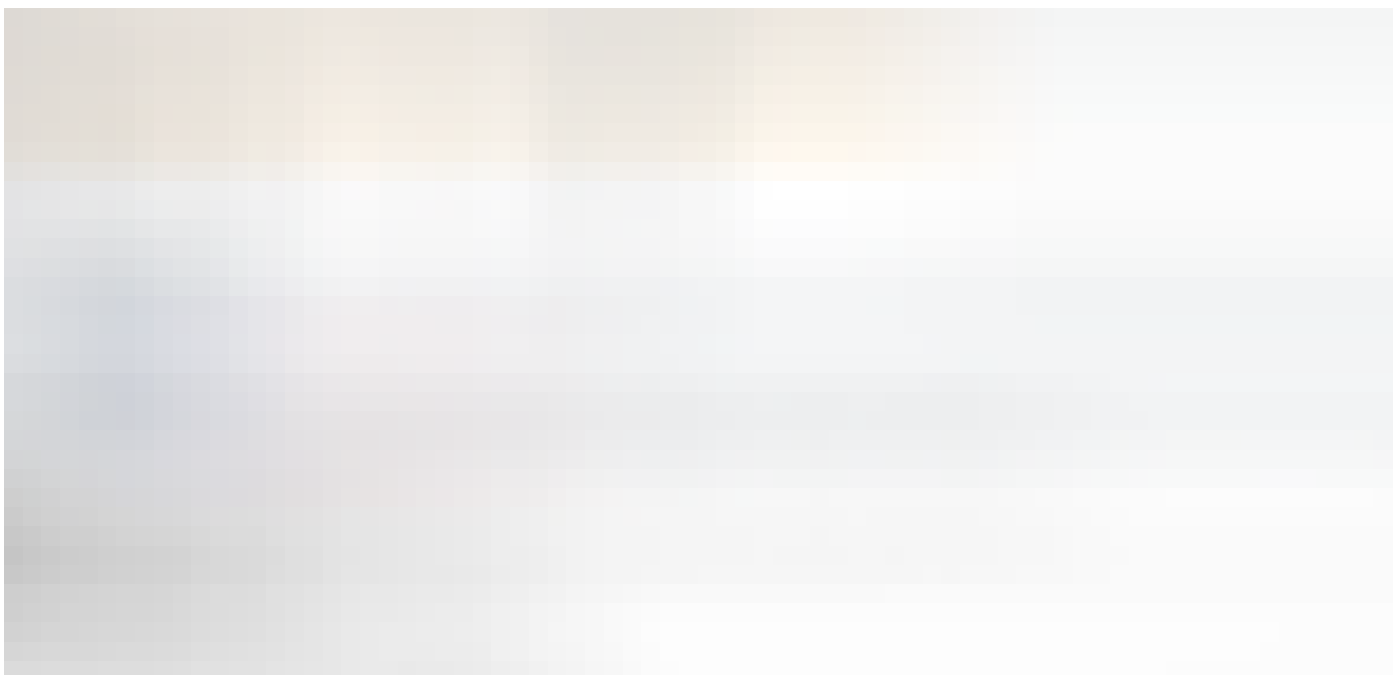
I was confirmed that LFI was there and so now my target was to escalate it to get RCE. Before that, I have read many articles on how to get RCE from LFI and this one helped me a little here—<https://medium.com/@p4c3n0g3/lfi-to-rce-via-access-log-injection-88684351e7c0> . Now the idea was to get access to some file may be log files which could provide some user controller input (in order to run some command) .

So I tried reading access logs ,error logs , different location to access them.



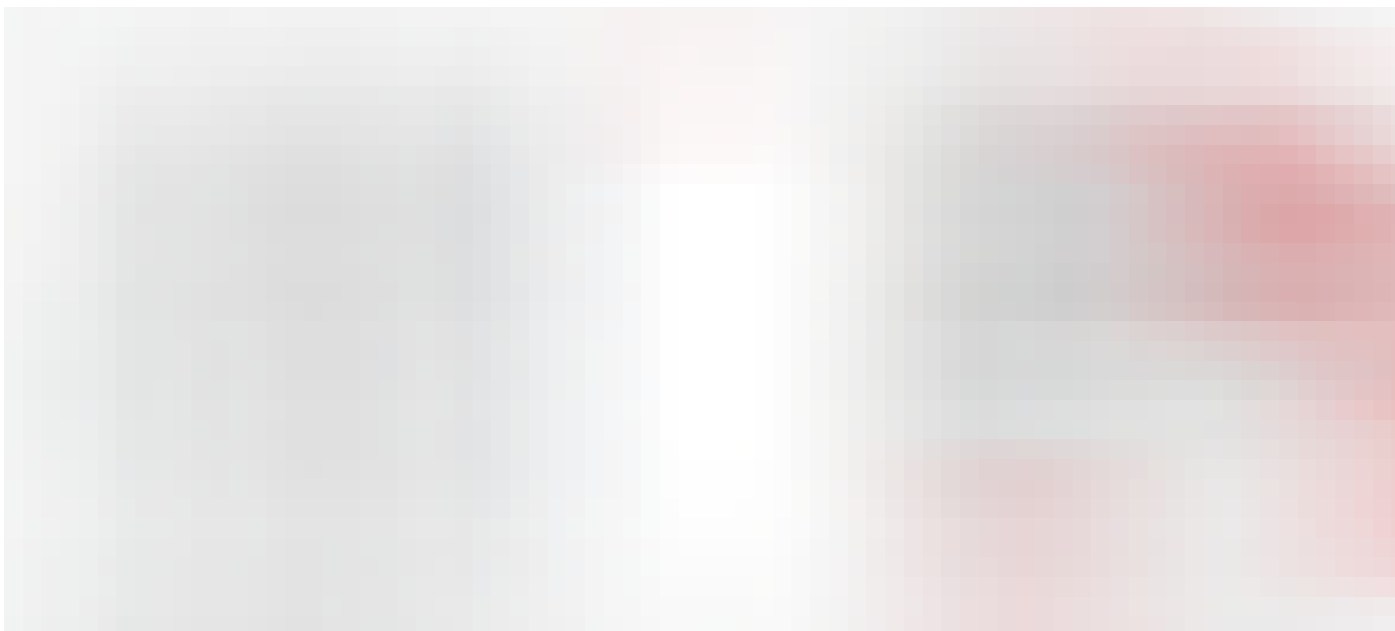
Access Logs response

But it seems the user with which I got LFI didn't have access to access logs files. Did a little reading, researching and I came to know that `"/proc/self/fd"` provides symbolic shortcut to access logs and various other system related file. So I tried reading those in search for access logs-



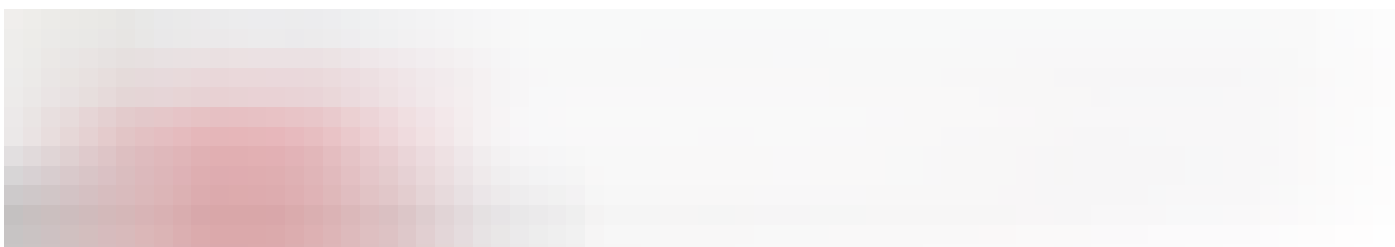
`/proc/self` files

and I run intruder over `/proc/self/fd/{number}` and one of the fd files provided me access to access logs —



Access log file

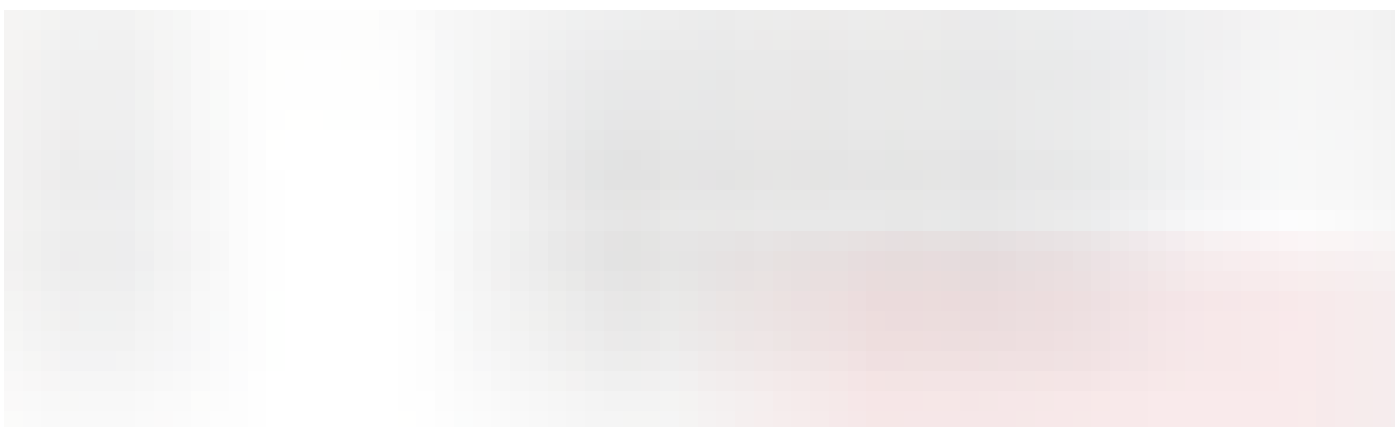
and what caught my attention here was “referrer” header because I knew that it was something which is under user controlled input. Time to execute some command. I added ‘referrer’ header in the HTTP request , set its value to system(id) and forwarded it-





LFI to RCE

and a cheerful response :)



RCE Response

So this is how I was able to get Remote code execution(RCE) from Local file inclusion(LFI)! :)

• • •

Report details-

13-April-2018—Bug reported to the concerned company.

16-April-2018—Bug was marked fixed.

16-April-2018—Re-tested and confirmed the fix

Reward in progress.

Thanks for reading!

~Logicbomb (https://twitter.com/logicbomb_1)

Bug Bounty

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8



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| Part time BugBounty

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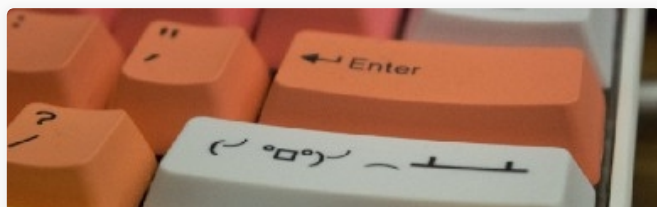
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bounties and CTFs to

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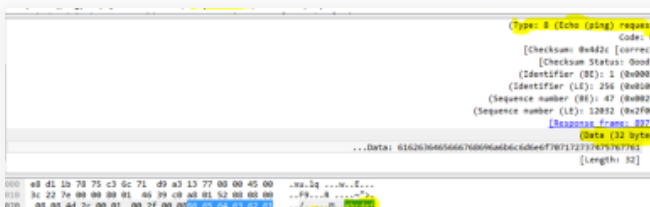


0x0FFB347

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246



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Responses



Write a response...

Conversation between NoGe and Avinash Jain (@logicbomb_1).



NoGe

Apr 22, 2018

well i'm glad it help :)

4

1 response 



Avinash Jain (@logicbomb_1)

Apr 23, 2018

Yup :)



Conversation between Ak1T4 and Avinash Jain (@logicbomb_1).



Ak1T4

Apr 20, 2018

kind old but good find!

1

1 response 



Avinash Jain (@logicbomb_1)

Apr 21, 2018

Thanks mate :)



Applause from Avinash Jain (@logicbomb_1) (author)



exe_

Apr 20, 2018

nice article

2



Conversation between Manoj and Avinash Jain (@logicbomb_1).



Manoj

Apr 19, 2018

Awesome work 👍

1





Avinash Jain (@logicbomb_1)

Apr 20, 2018

Thanks mate! :)



Conversation with Avinash Jain (@logicbomb_1).



Ali Çelebi

May 8, 2018

Thanks for the write up. How did you discover the LFI in URL parameter? Did you use a tool?

1 response



Avinash Jain (@logicbomb_1)

May 15, 2018

It was just a URL which looks to me susceptible and so I tried the same.



Conversation with Avinash Jain (@logicbomb_1).



nick johns

Apr 24, 2018

well jenkins is not root , do you got local privilege escalations then..?

1 response 



Avinash Jain (@logicbomb_1)

Apr 24, 2018

So as I have mentioned in the blog “the user with which I got LFI didn’t have right to access access logs” so I always knew that it was not root account. 😊 and yes I tried for local privilege escalation but didn’t succeed.



Conversation with Avinash Jain (@logicbomb_1).



Andrea Smith

Jun 2, 2018

hi , can i ask u how did u find

<https://www.victimsite.com/forum/attachment-serve?name=> this link in

the target website? are u just using burp spider and find it or u are using some tools like parameth to getting (name=) < this parameters, sorry im new i just start learning hacking like 2 months:(

2 responses 



Avinash Jain (@logicbomb_1)

Jun 2, 2018

Hi Andrea,

I got the URL by simply traversing the website manually.

1



Show all responses