

Lifestyle Store - Project Web Application

Detailed Developer Report

Security Status – Extremely Vulnerable

- Hacker can steal all records from the databases of the website. (SQLi)
- Hacker can take control of complete server including View, Add, Edit, delete files and folders. (Shell Upload)
- Hacker can change source code of application to host malware, phishing pages or even explicit content. (Shell Upload)
- Hacker can inject client side code into application and trick users by changing how page looks to steal information or spoil the name of the company.(XSS)
- Hacker can execute any commands to extract information from website and deface it.(Admin Pane Access)
- Hacker can easily view default and debug pages, can easily guess the default passwords and can exploit all he vulnerability related to the third party components used. (Security misconfiguration)

Vulnerability Statics

CRITICAL

9

SEVERE

9

MODERATE

4

LOW

6

Vulnerabilities

No	Severity	Vulnerability	Count
1	Critical	SQL Injections	3
2	Severe	Reflected and Stored Cross Site Scripting	2
3	Severe	Insecure Direct Object Reference	3
4	Critical	Rate Limiting Issues	1
5	Critical	Insecure File Uploads	1
6	Moderate	Client Side Filter Bypass	1
7	Low	Descriptive Error Messages	1
8	Low	Default Files and Pages	5
9	Critical	Remote File Inclusion	1
10	Moderate	Directory Listing	2

Vulnerabilities

No	Severity	Vulnerability	Count
11	Moderate	PII Leakage	1
12	Severe	Open Redirection	1
13	Severe	Bruteforce Exploitation of Coupon Codes	1
14	Moderate	Command Execution Vulnerability	2
15	Severe	Forced Browsing	2
16	Low	Seller Account Access	1

1.SQL Injection

SQL Injection (Critical)

Below mentioned URL in the online w-commerce portal is vulnerable to SQL injection attack

Affected URL:

http://13.234.32.218/products.php?cat=1

Affected Parameters:

cat(GET parameter)

Payload:

cat=1'

1.SQL Injection

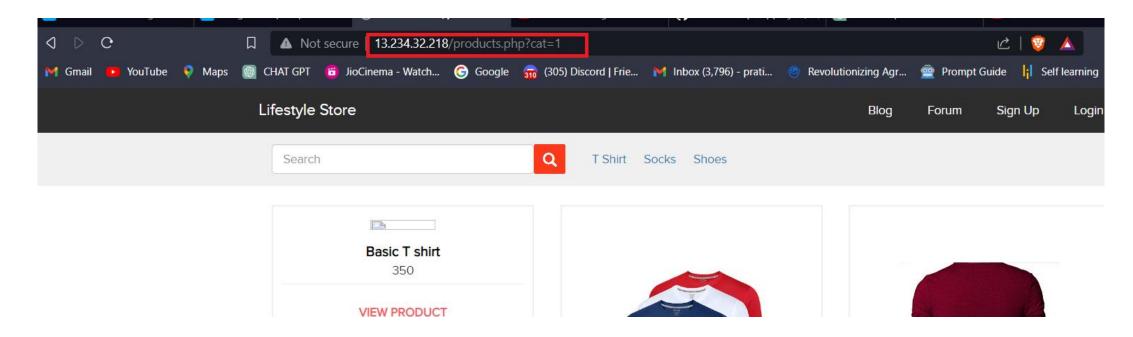
SQL Injection (Critical)

Here are other similar SQLi in the application

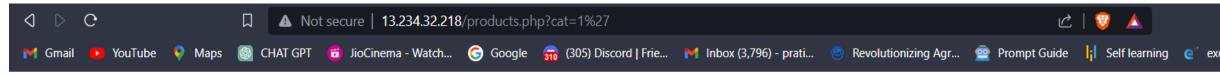
Affected URL:

- http://13.234.32.218/products.php?cat=2
- http://13.234.32.218/products.php?cat=3

Navigate to the Main Page of the website where you will see categories option click on "T Shirt" or "Socks" or "Shoes" to get into this URL.you will see products as per the category you chosen but notice the GET parameter in the URL.

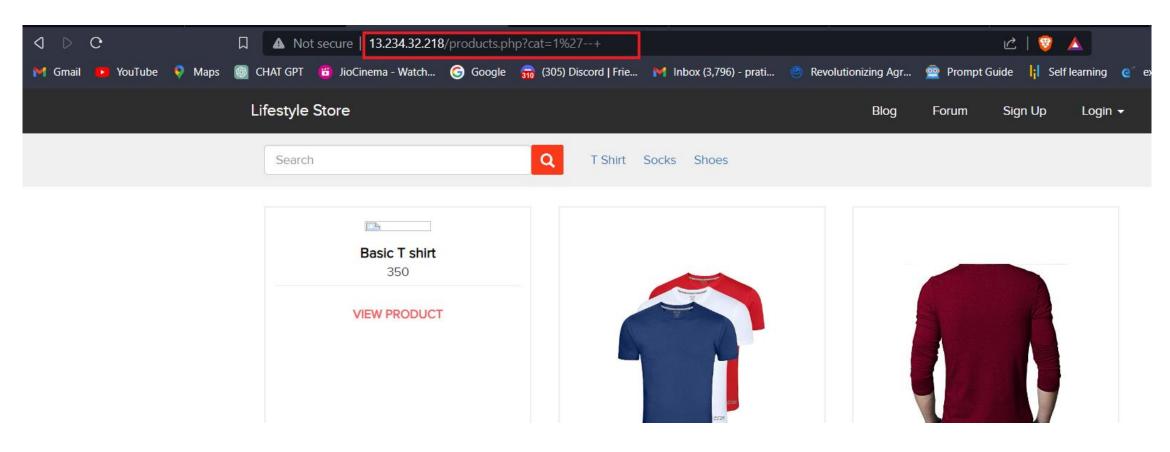


Now, we apply single quote in category parameter (i.e. GET parameter):
 http://13.234.32.218/products.php?cat=1' and we get complete MySQL error.



You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near "1" LIMIT 0, 9' at line 1

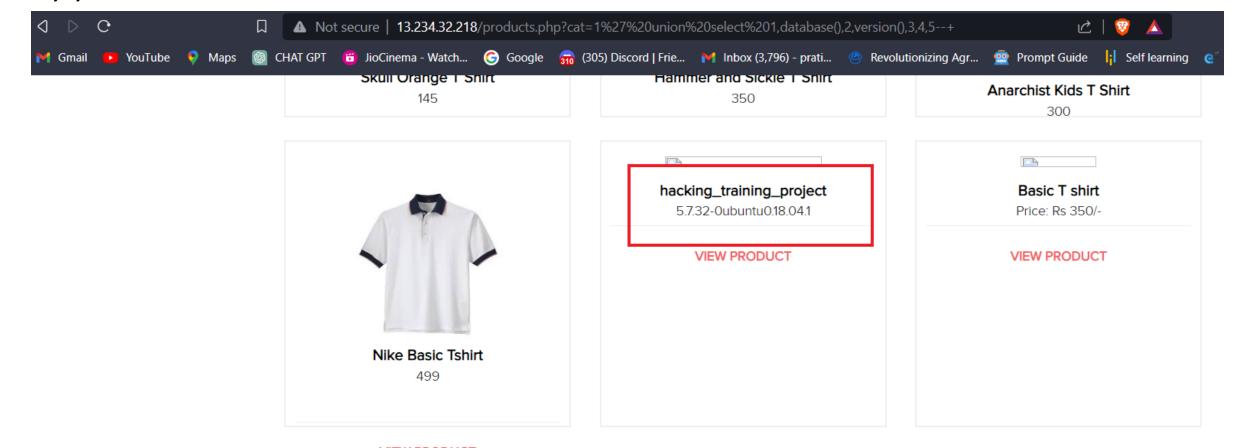
When we put --+: http://13.234.32.218/products.php?cat=1'--+ and the error is removed confirming SQL Injection:



Proof of Concept (PoC)

 Attacker can execute SQL commands as shown below. Here we have used the payload below to extract the database name and MySQL version information:

http://13.234.32.218/products.php?cat=1%27%20union%20select%201,database(),2,version(), 3,4,5--+



Business Impact – Extremely High

Using this vulnerability, attacker can execute arbitrary SQL commands on Lifestyle store server and gain complete access to internal databases along with all customer data inside it.

Below is the screenshot of users table which shows user credentials being leaked, although the password is encrypted yet vulnerable and can be misused by hackers.

Attacker can use this information to login to admin panels and gain complete admi level access to the website which could lead to complete compromise of the server and all other servrs connected to it.

-end DBMS: MySQL >= 5.6 58:54] [INFO] fetching entries of column(s) 'email, id, name, password, phone_number, user_name' for table 'users' in database 'hacking_training_pr base: hacking_training_project e: users entries]					
t	name	user_name	password	email	phone_number
	admin Donald Duck Brutus Chandan Popeye the sailor man Radhika Nandan Murthy Adapa John Albert Bob Jack Bulla Boy hunter asd acdc hacker	admin Donal234 Pluto98 chandan Popeye786 Radhika Nandan MurthyAdapa john bob jack bulla hunter asd acdc hacker1	\$2y\$10\$xkmdvrxSCxqdyWSrDx5YSe1NAwX.7pQ2nQmaTCovH4CFssxgyJTki \$2y\$10\$PM.7nBSP5FMaldXiM/S3s./p5xR6GTKvjry7ysJtxOkBqOJURAHsO \$2y\$10\$xkmdvrxSCxqdyWSrDx5YSe1NAwX.7pQ2nQmaTCovH4CFssxgyJTki \$2y\$10\$4cZBEIrgthXdvTlhwUlivuFELeO3rR.GIcdpO3NjrlSOVeiOKLVDa \$2y\$10\$Fkv1RfwYTioWOw2CaZtAQuXVnhGAUjt/If/yTqkNPC5zTrsVm7EeC \$2y\$10\$RYxNhOyV/G4g7OtFwpqYaexvHi8rF6XXui8kT1WtrfqhTutCA8JC. \$2y\$10\$G.cRNLMEiG79ZFXE1Hg.R.o95334U0xmZu4.9MqzR5614ucwnk59K \$2y\$10\$mzQGzD4sDSj2EunpCioe4eK18c1AbsOT2P1a1P6eV1DPR.11UubDG \$2y\$10\$mzQGzD4sDSj2EunpCioe4eK18c1AbsOT2P1a1P6eV1DPR.11UubDG \$2y\$10\$GhDB8h1X6XjPMY12GZ1vDO7Y3en97u1/.oXTZLmYqB6F18FBgecvG \$2y\$10\$KiUikn3HPFbuyTtK751LNurxzqCOLX3eMGyO/Ux16JOoG37dCGKLq \$2y\$10\$kiUikn3HPFbuyTtK751LNurxzqCOLX3eMGyO/Ux16JOoG37dCGKLq \$2y\$10\$x/nyN1kRJ76m9ItMZ4N51OeRxy6Gkqi9N/UBcJu5zeo7eM7N4pTHu \$2y\$10\$HT5oiRMetqaZ7xGZPE9s2.Mk1yF4PnYDJHCWbm2w/xuKpjEEI/zjG \$2y\$10\$pB3U9iFxwBgSb12AkBpiEeIBdhiYfWy9y.xV23q12gGbMCyn7N3g2 \$2y\$10\$At5pFZnRWpjCD/yNnJWDL.L3Cc4CvOW8Q/WEHmWzBFqVIkBQFpCF2 \$2y\$10\$SDB78.gpucuLTwpHwbcPedYcain.Yi.tsTLyQtK17FzdSpmIRRbi \$2y\$10\$KWdTzamsoIBoVMmDjrj6Yu5vWxi2z.GFvJS2GSA5xAzxfSSNyn7d6	admin@lifestylestore.com donald@lifestylestore.com Pluto@lifestylestore.com chandan@lifestylestore.com popeye@lifestylestore.com radhika@lifestylestore.com Nandan@lifestylestore.com murthy@internshala.com jhon@gmail.com bob@building.com jack@ronald.com bulla@ranto.com konezo@web-experts.net asd@asd.com cewi@next-mail.info hackerl@gmail.com	8521479630 9489625136 8912345670 7854126395 9745612300 9512300052 7845129630 8365738264 6598325015 8576308560 9848478231 7645835473 9788777777 9876543210 999999999

Recommendation

Take the following precautions to avoid exploitation of SQL injections:

- Prepared Statements: Use SQL prepared statements available in all web development languages and frameworks to avoid attacker being able to modify SQL query.
- Character encoding: If you are taking input that requires you to accept special characters, encode it. Example. Convert all 'to \', "to \", \ to \\. It is also suggested to follow a standard encoding for all special characters such has HTML encoding, URL encoding etc.
- Do not run Database Service as admin/root user.
- Disable/remove default accounts, passwords and databases.
- Assign each Database user only the required permissions and not all permissions.

References

- https://www.owasp.org/index.php/SQL_Injection
- https://en.wikipedia.org/wiki/SQL_injection

2. Reflected Cross Site Scripting (XSS)

Cross Site Scripting (Severe) Below mentioned parameters are vulnerable to reflected XSS.

Affected URL:

http://13.234.32.218/search/search.php?q=(here)

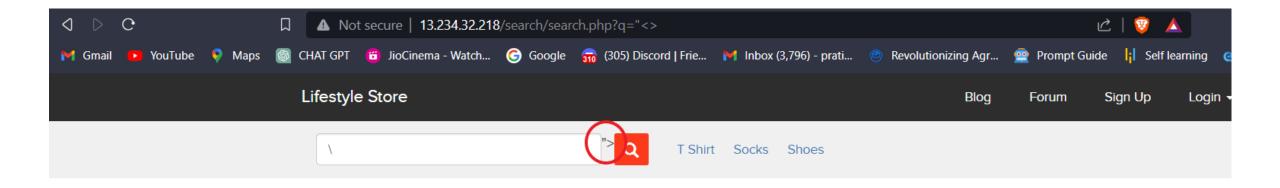
Affected Parameters:

• (

Payload:

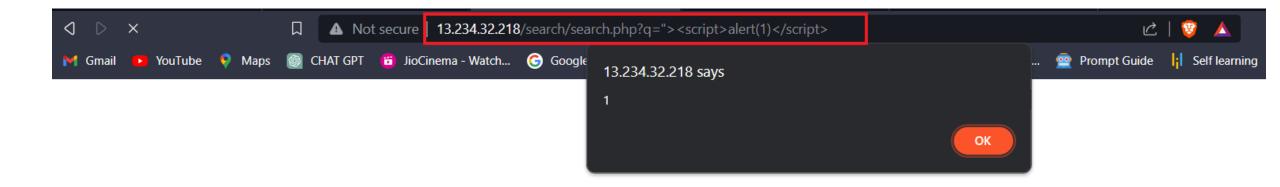
"><script>alert(1)</script>

- Login in to your account.
- Then go to My Cart and then click SHOP NOW button and type "<> in the search Box.
- You will notice that the code being reflected on the website.



PoC – custom script was executed

- Now, put the payload instead of "<> after the q parameter: "><script>alert(1)</script>
- As you can see we executed custom JS causing popup.



2. Reflected Cross Site Scripting (XSS)

Cross Site Scripting (Severe) Below mentioned parameters are vulnerable to reflected XSS.

Affected URL:

http://13.234.32.218/products/details.php?p id= (all Id's)

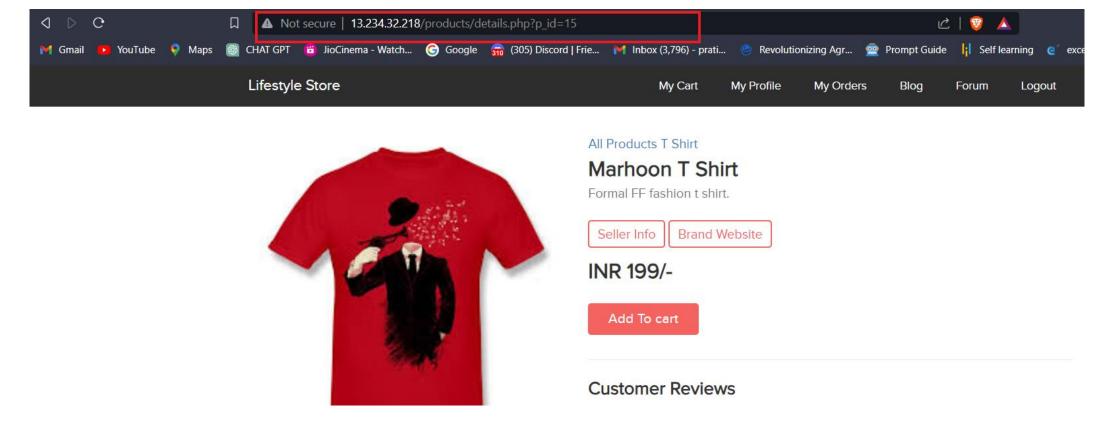
Affected Parameters:

Customer review text field.

Payload:

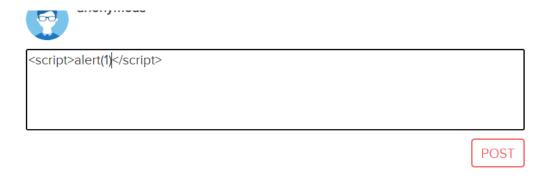
"><script>alert(1)</script>

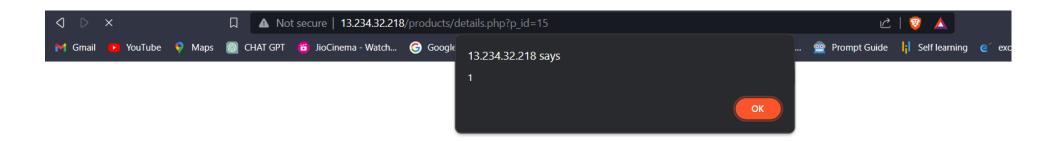
Log in to you account. Then go to My Cart and then click on SHOP NOW button and select any product, or Navigate to http://13.234.32.218/products/details.php?p_id=15
(here I selected product no.15)



PoC – the script was executed

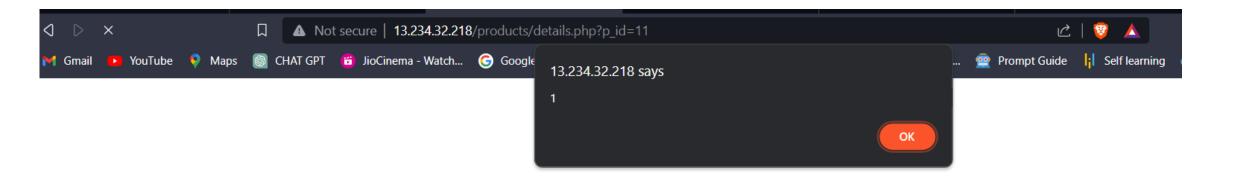
- Put the payload as a customer review in the review field: <script>alert(1)</script>
- As you can see we executed custom JS causing popup.





PoC





Business Impact – High

As attacker can inject arbitrary HTML CSS and JS via the review text field, attacker can put any content on the page like phishing pages, install malware on victim's device and even host explicit content that could compromise the reputation of the organization.

All the attacker needs to do is to type in the malicious script in the review field and then anyone opening the link can be attacked by the hacker and victim would see hacker controlled content on the website. As the user trusts the website he/she will trust the content too.

As PoC, a short has been attached along with in **recording 1.mp4**

Recommendation

Take the following precautions:

- Sanitize all user input and block characters you do not want.
- Convert special HTML characters like " ' <> into HTML entities quot; %22 < > before printing them on website.

References

- https://owasp.org/www-community/attacks/xss/
- https://en.wikipedia.org/wiki/Cross-site_scripting
- https://www.w3schools.com/html/html entities.asp

3.Insecure Direct Object Reference

Insecure Direct
Object Reference
(Critical)

My order section of the website suffers from an Insecure Direct Object Reference (IDOR) that allows attacker get access to other customers orders details along with shipping details and payment modes.

Affected URL:

• http://13.234.32.218/orders/orders.php?customer=(all customer id's)

Affected Parameters:

Customer (GET parameters)

3.Insecure Direct Object Reference

Insecure Direct
Object Reference
(Critical)

Similar issue is found on below modules too.

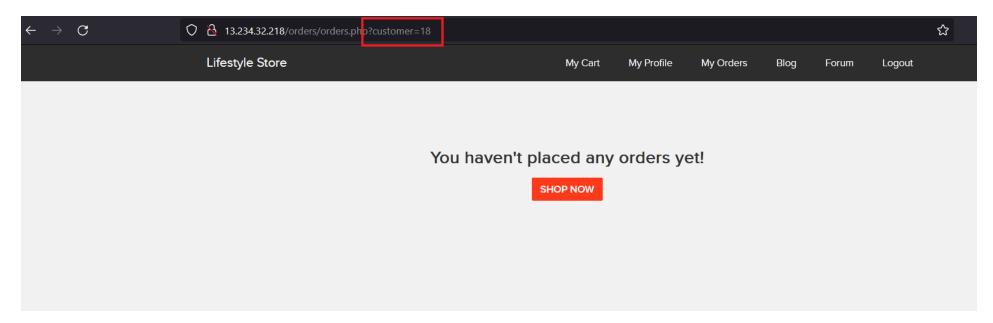
Affected URL:

- http://13.234.32.218/forum/index.php?u=/user/profile/1(any id)
- http://13.234.32.218/products/details.php?p_id=(all id's)

Affected Parameters:

- p_id (GET parameters)
- u=/user/profile(any id)

- Login to your account and go to My Orders section.
- Your **My Orders** section will be shown to you.
- Notice the URL:http://13.234.32.218/orders/orders.php?customer=18
- It contains customer id of the user and we get the order details along with shipping details and payment mode of one user.



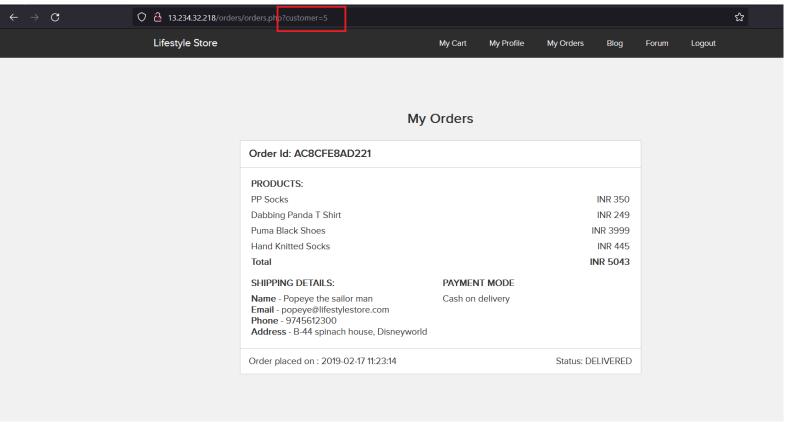
• Since, the customer id is clearly visible, let's intercept the request and brute force the customer id's of available customers.

Request	Payload	Status c ^	Error	Timeout	Length
0		200			3024
2	10	200	-		3024
12	11	200			3024
21	02	200			6424
22	12	200			3024
31	03	200			6435
32	13	200			15388
42	14	200			6061
51	05	200			7085
52	15	200			3024
62	16	200			3024
72	17	200			3024
81	08	200			9723
82	18	200			3024
91	09	200			3024
1	00	302	0	0	510
3	20	302			510
4	30	302			510
5	40	302			510
6	50	302			510
7	60	302			510
8	70	302	$\overline{\Box}$	$\bar{\Box}$	510
9	80	302			510
10	90	302	$\overline{\Box}$	$\bar{\Box}$	510
11	01	302			510
13	21	302	$\overline{\Box}$	$\overline{\Box}$	510
14	31	302	$\overline{\Box}$	$\overline{\Box}$	510
		202			

PoC – accessing the customers details

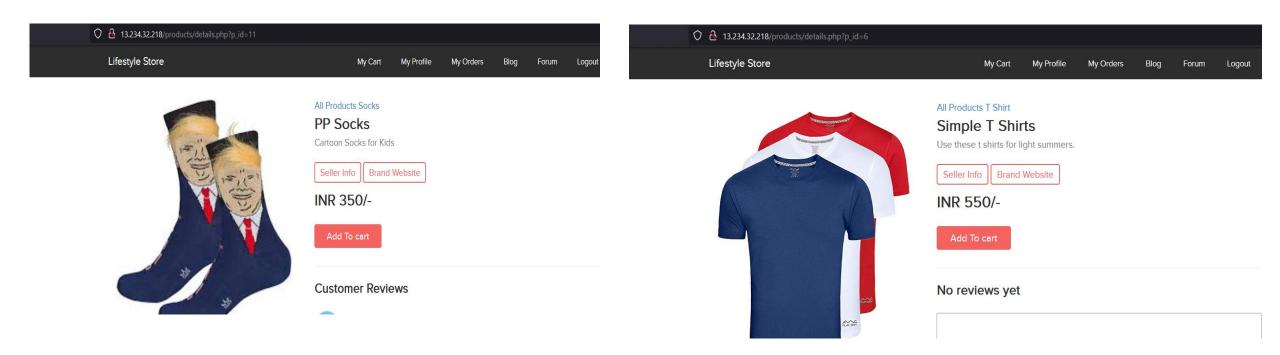
Now we change the customer id to 5.

 We get the order details along with shipping details and payment mode of other customers(here the user with customer id= 5



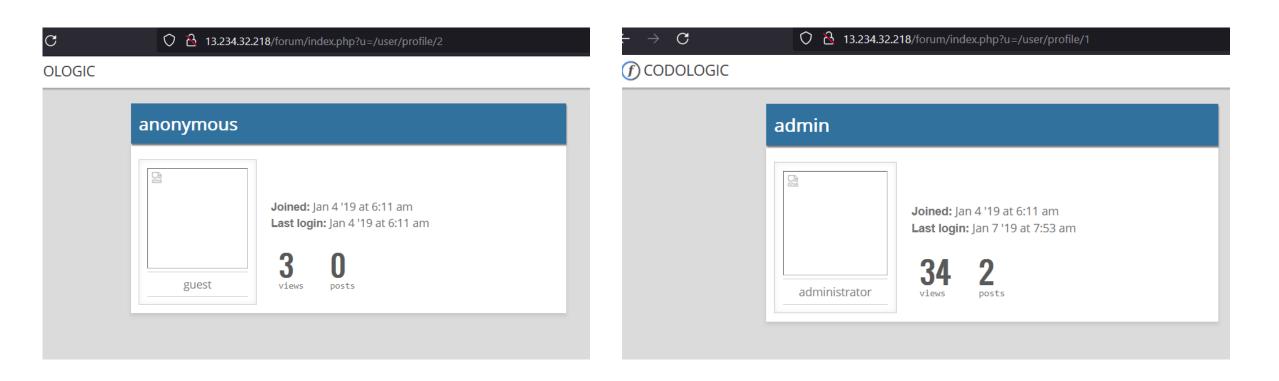
PoC

Just by changing the product id, other products can be seen.



PoC

Just by changing the profile id, other user's profile can be seen.



Business Impact – High

- A malicious hacker can read order information of any user just by knowing the customer id. This discloses critical order information of users including:
 - Name
 - Mobile Number
 - Email Address
 - Physical Address
 - Order Id
 - Bill amount and Breakdown
 - Payment mode
- This can be used by malicious hackers to carry out targeted phishing attacks on the users and the information can also be sold to competitors /black-market.
- More over, as there is no rate limiting checks, attacker can bruteforce the customer id for all possible values and get bill information of each and every user of the organization resulting in a massive information leakage.

Recommendation

Take the following precautions:

- Make sure each user can see his/her data only.
- Use proper rate limiting checks on the number of request comes from a single user in a small amount of time.
- Implement proper authentication and authorization checks to make sure that the user has permission to the data he/she is requesting.

References

- https://www.owasp.org/index.php/Insecure Configuration Management
- https://www.owasp.org/index.php/Top 10 2013-A4-Insecure Direct Object References

4.Rate Limiting issues

Account Takeover Using OTP Bypass (Critical)

The below mentioned login page allows login via OTP which can be brute forced.

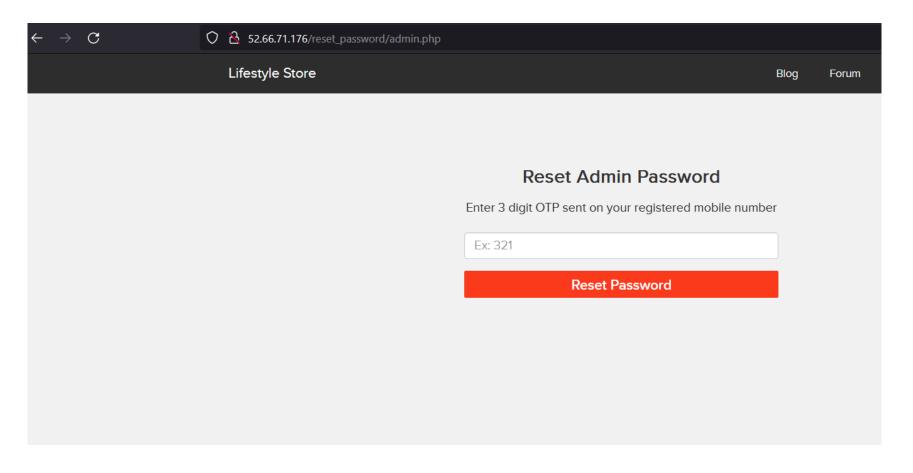
Affected URL:

http://52.66.71.176/login/admin.php

Affected Parameters:

OTP (POST parameters)

Navigate to http://52.66.71.176/login/admin.php, you will see a "Forgot your password?"
hyperlink which asks for OTP which is send t admin's phone number, write any 3-digit number (
i.e. any number from 100 - 999) and Intercept the request with Burp Suite.



Following request will be generated containing OTP parameters(GET).

- We shoot the request with all possible combinations of 3 digit OTPs and upon a successful hit, we get a response containing user details (i.e. the correct OTP). We can use this password and then use the new admin password to login as administrator.
- OTP for this session was

```
GET /reset_password/admin.php?otp=$123$ HTTP/1.1

Host: 52.66.71.176

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:109.0) Gecko/20100101 Firefox/l19.0

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8

Accept-Language: en-US,en;q=0.5

Accept-Encoding: gzip, deflate, br

Connection: close

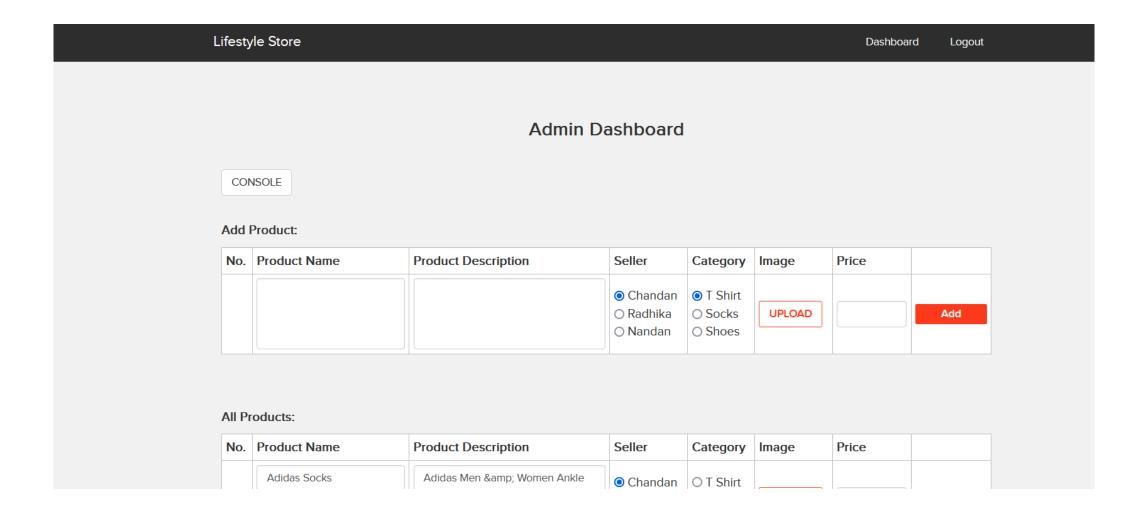
Referer: http://52.66.71.176/reset_password/admin.php

Cookie: key=5zmvx8ulguy; PHPSESSID=tkf23trsvcq67d97ckl6jqlov3; X-XSRF-TOKEN=0c26dc484895f3a3d59b0cal797ab2b1409144cd694779cdcb318b82b72029a3

Upgrade-Insecure-Requests: 1
```

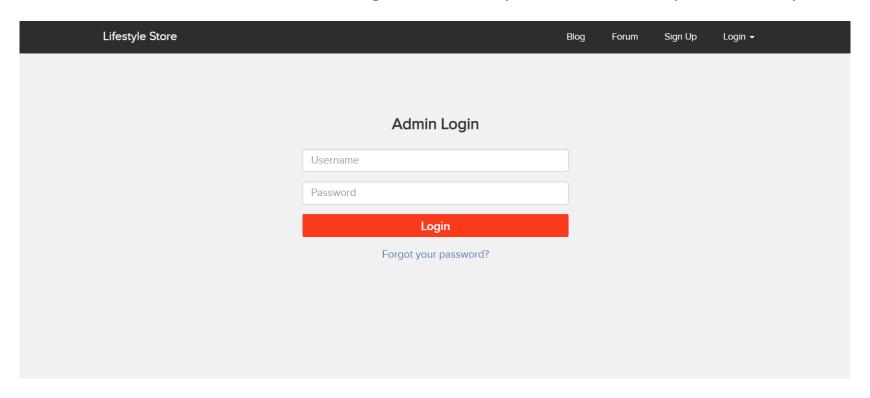
Request	Payload	Status code	Error	Timeout	Length \vee	Comment
101	700	200			4385	
49	648	200			4481	
0		200			4385	
1	600	200			4385	
2	601	200			4385	
3	602	200			4385	
4	603	200			4385	
5	604	200			4385	
6	605	200			4385	
7	606	200			4385	
8	607	200			4385	
9	608	200			4385	
10	609	200			4385	
11	610	200			4385	
12	611	200			4385	
13	612	200			4385	
14	613	200			4385	
15	614	200			4385	
16	615	200			4385	
17	616	200			4385	
18	617	200			4385	
19	618	200			4385	
20	619	200			4385	
21	620	200			4385	
22	621	200			4385	

PoC – access to admin dashboard



Business Impact – High

- A malicious hacker can gain complete access to admin account just by Brute-Forcing due to rate limiting flaw as a
 hacker can attempt as many many times as he wants, as there is no bounds in no. of tries. This leads to complete
 compromise of personal user data of every customer.
- Once the attacker logs in as admin, then he can carry out actions on behalf of the victim(admin) which would lead to serious financial loss to him/her, like he can change the name, picture and even price of the products.



Recommendation

Take the following precautions:

- Use proper rate limiting checks on the number of OTP checking and generation requests.
- Implement anti-bot measures such as **ReCAPTCHA** after multiple incorrect attaempts.
- OTP should expire after certaion amount of time like **2-5 minutes**.
- OTP should be atleast 6 digit and alphanumeric for more security.

References

- https://www.owasp.org/index.php/Testing Multiple Factors Authentication (OWASP-AT-009)
- https://www.owasp.org/index.php/Blocking Brute Force Attacks

5.Insecure File Uploads

Insecure File
Uploads
(Critical)

The below mentioned URL is vulnerable to insecure file uploads.

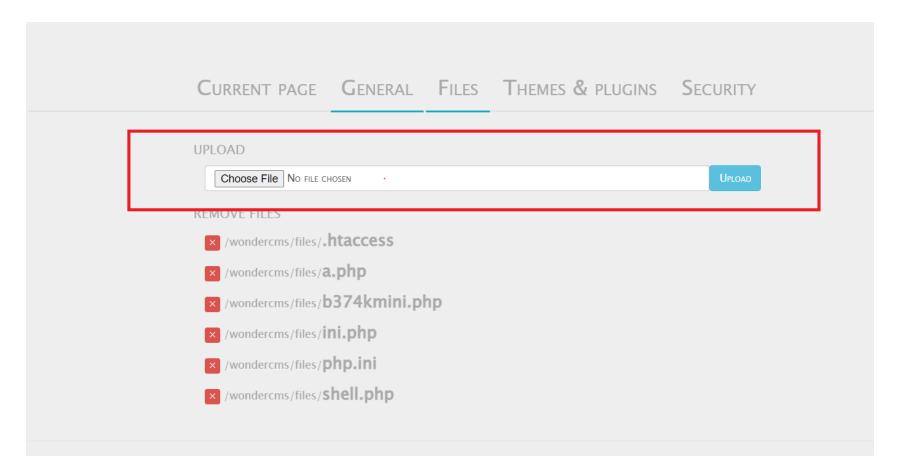
Affected URL:

http://52.66.71.176/wondercms/

Affected Parameters:

Backdoor shell (anonymous.php)

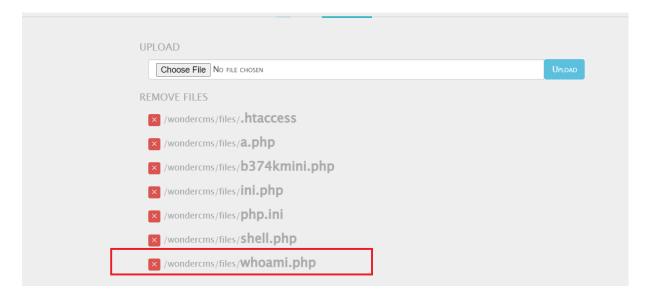
- Navigate to are Blog section of the website and login as admin.
- Now, navigate to the settings and the go to Files option.
- You will notice the Upload section here.



• Its look like we can upload files here, let's try uploading a file whoami.php

File uploaded.

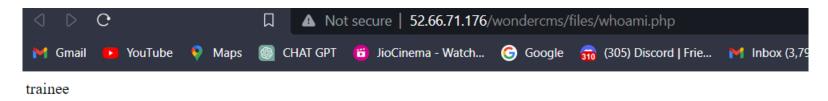
• An its successfully uploaded.



PoC – any command can be executed

Shell – whoami.php

The uploaded shell was executed successfully.



Business Impact – Extremely High

- The consequences of unrestricted file upload can vary:
 - Including complete system takeover, an overloaded file system or database.
 - Forwarding attacks to back end systems.
 - Client side attacks, or simple defacement.
 - It depends on what the application does with the uploaded file and especially where it is stored.

Recommendation

Take the following precautions:

- The file types allowed to be uploaded should be restricted to only those that are necessary for business functionality.
- Never accept a filename and its extension directly without having a whitelist filter.
- All the control characters and Unicode and the special characters should be discarded.

References

- https://owasp.org/www-community/vulnerabilities/Unrestricted File Upload
- https://www.hackingarticles.in/comprehensive-guide-on-unrestricted-file-upload/

6.Client Side filter Bypass

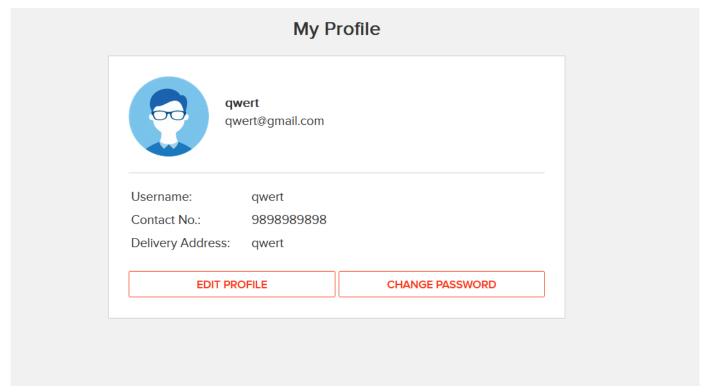
Client Side filter
Bypass
(Moderate)

The below mentioned URL is vulnerable to Client Side filter Bypass.

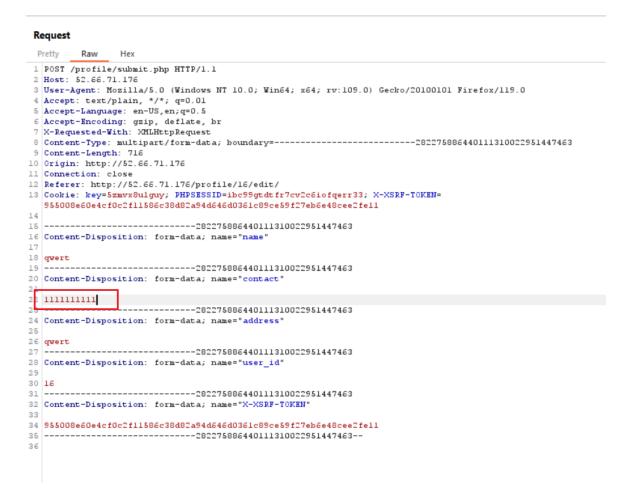
Affected URL:

http://52.66.71.176/profile/16/edit/

- Login to your account and go to My Profile section.
- Now, click on edit profile button, update any of your details, here I will go with phone number only.
- I updated my phone number from 98989898 to 9999999999.
- Now, again click on UPDATE button and intercept the request with burp suite.

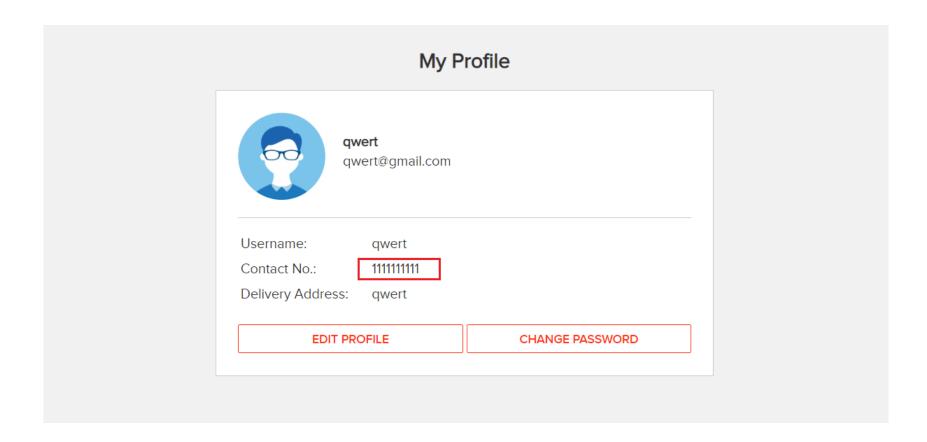


- Now. Send the request to the Repeater and edit the phone number.
- I changed it from 9999999999 to 1111111111 and hit Send.





PoC – profile updated successfully



Business Impact – High

• This would only trouble the users who in turn might give negative feedback on your website.

Recommendation

Take the following precautions:

- Implement all critical checks on server side code only.
- Client side checks must be treated as decorative only.
- All business logic must be implemented and even the URL/Modules a user is supposed to access or not.

References

- https://portswigger.net/support/using-burp-to-bypass-client-side-javascript-validation
- https://www.slideshare.net/SamBowne/cnit-129s-ch-5-bypassing-clientside-controls

7. Descriptive Error Messages

Descriptive Error
Messages
(Low)

Below mentioned URL shows **Descriptive Error Messages**.

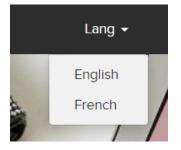
Affected URL:

http://52.66.71.176/?includelang=lang/en.php

Affected Parameters:

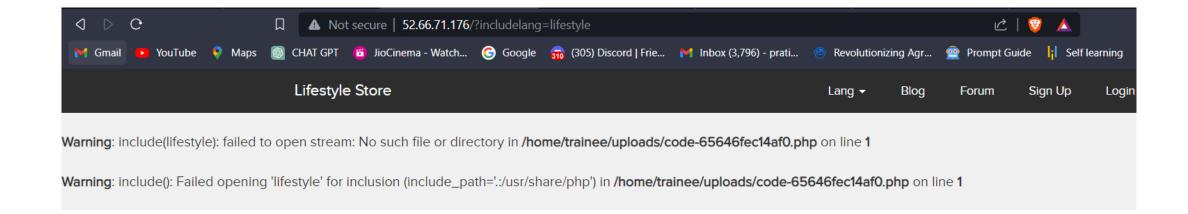
includelang

Navigate to the website and click on change language dropdown, and select any two languages.



- Now, notice the URL, you get a 'get' parameter of includelang which shows descriptive error messages.
- Here we enter the payload: includelang=lifestyle and on executing this file the page throws a
 descriptive error.

PoC – descriptive error message displayed



Business Impact – Low

• It doesn't harm the website directly, but it is letting the hacker to know about the website architecture which the hacker can to dig out internal resources and use them against the organization.

Recommendation

Take the following precautions:

• Developers should turn off this descriptive error messages before the web application is finally released for general public use.

References

- https://cwe.mitre.org/data/definitions/209.html
- https://owasp.org/www-community/Improper Error Handling

8. Default Files and pages

Default Admin
Password
(Low)

Below mentioned URL shows **Descriptive Error Messages**

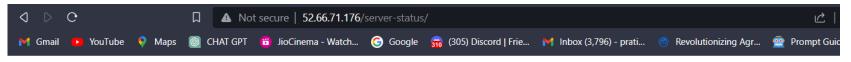
Affected URL:

http://52.66.71.176/

Default pages and pages present:

- server-status
- robots.txt
- userlist.txt
- phpinfo.php

PoC - server-status/



Apache Server Status for localhost (via 127.0.0.1)

Server Version: Apache/2.4.18 (Ubuntu)

Server MPM: event

Server Built: 2018-06-07T19:43:03

Current Time: Monday, 05-Nov-2018 14:46:35 IST Restart Time: Monday, 05-Nov-2018 09:14:47 IST

Parent Server Config. Generation: 1 Parent Server MPM Generation: 0

Server uptime: 5 hours 31 minutes 47 seconds

Server load: 1.34 1.26 1.06

Total accesses: 35 - Total Traffic: 97 kB

CPU Usage: u8.1 s11.23 cu0 cs0 - .0971% CPU load .00176 requests/sec - 4 B/second - 2837 B/request 1 requests currently being processed, 49 idle workers

PID	Connections		Threads		Async connections			
	total	accepting	busy	idle	writing	keep-alive	closing	
1709	0	yes	0	25	0	0	0	
1710	1	yes	1	24	0	1	0	
Sum	1		1	49	0	1	0	

_____W_....

......

Scoreboard Key:

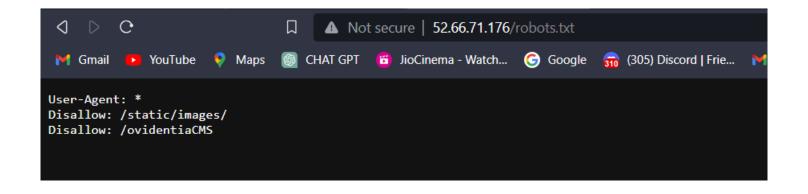
"_" Waiting for Connection, "s" Starting up, "R" Reading Request,

"W" Sending Reply, "K" Keepalive (read), "D" DNS Lookup,

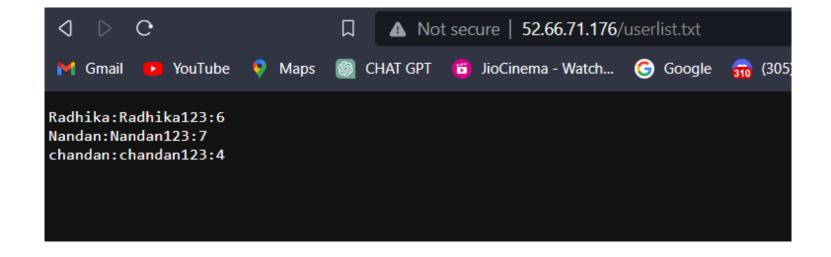
"c" Closing connection, "L" Logging, "G" Gracefully finishing,

"I" Idle cleanup of worker, "." Open slot with no current process

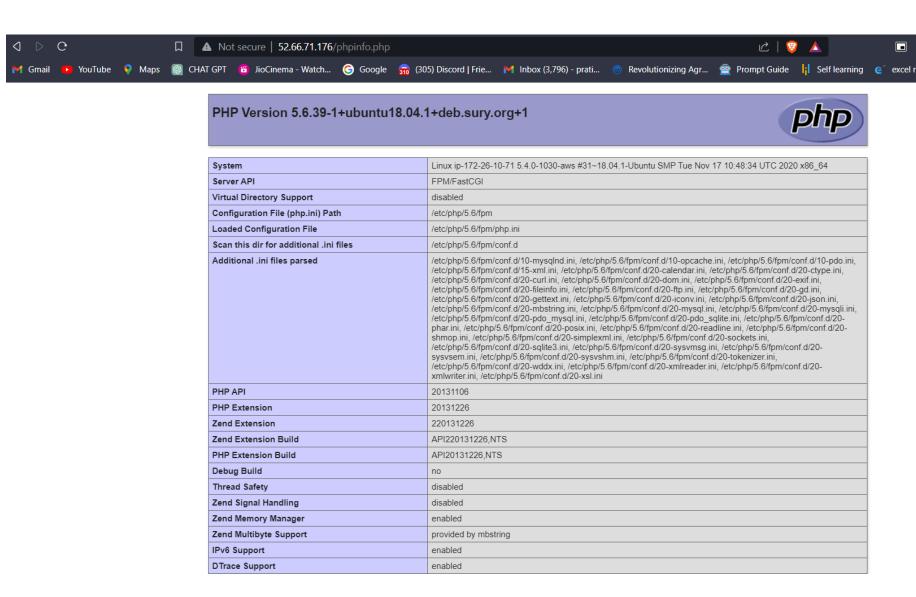
PoC – robots.txt



PoC – userlist.txt



PoC - phpinfo.php



Business Impact – Low

• It doesn't harm the website directly, but it is letting the hacker to collect more internal information about the website which the hacker might use against the organization.

Recommendation

Take the following precautions:

Developers should disable all default files and pages to be displayed publicly.

References

- https://www.indusface.com/blog/owasp-security-misconfiguration/
- https://hdivsecurity.com/owasp-security-misconfiguration

9. Remote file Inclusion

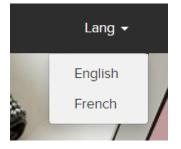
Remote file Inclusion (Critical)

The below mentioned URL is vulnerable RFL.

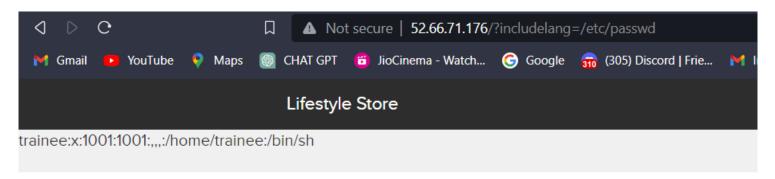
Affected URL:

http://13.127.0.56/?includelang=lang/en.php

Navigate to the website and click on change language dropdown, and select any two languages.

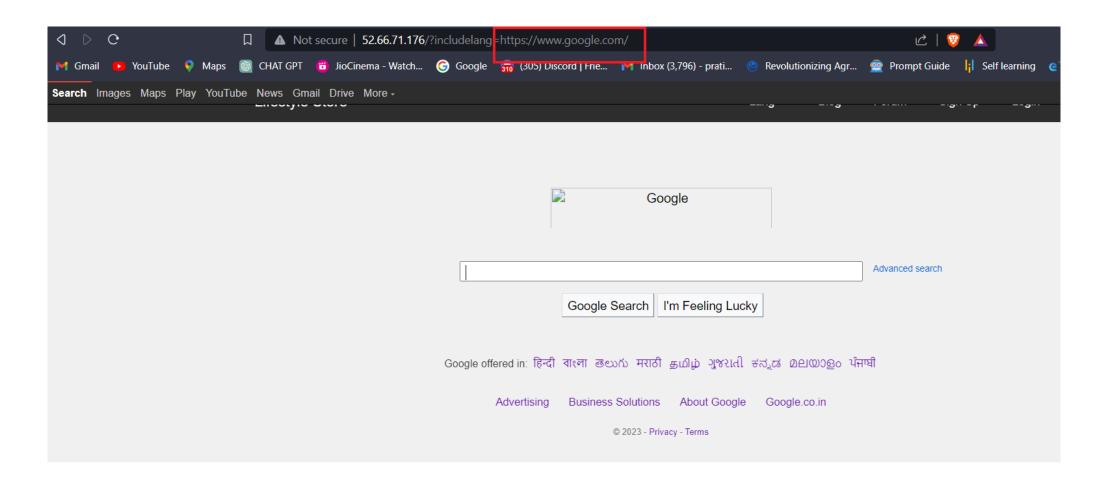


- Now, notice the URL, you get a 'get' parameter of includelang which is vulnerable to file inclusion.
- Here we enter the payload: **includelang=/etc/passswd** and on executing this file the page throws a descriptive error.



PoC – attacker can upload shells

• Attacker can exploit the referencing function in an application to upload malware (e.g.backdoor shells) from a remote URL located within a different domain.



Business Impact – Extremely High

- An attacker can have the root access of your website.
- He can execute commands.
- Through the website, he can have access of the server and can infect other websites hosted on that server.
- He can deface your websites.

Recommendation

- To safely parse user-supplied filenames it's much better to maintain a whitelist of acceptable files.
- Use a corresponding identifier (not the actual name) to access the file. Any request containing an invalid
 identifier can then simply be rejected (this is the approach that OWASP recommends).

References

- https://www.pivotpointsecurity.com/blog/file-inclusion-vulnerabilities/
- https://www.netsparker.com/blog/web-security/local-file-inclusion-vulnerability/
- https://en.wikipedia.org/wiki/File_inclusion_vulnerability

10. Directory Listing

Client Side filter
Bypass
(Moderate)

The below mentioned URL leaks critical information via directory listing vulnerability.

Affected URL:

http://52.66.71.176/static/images/uploads/products/4.jpg

10. Directory Listing

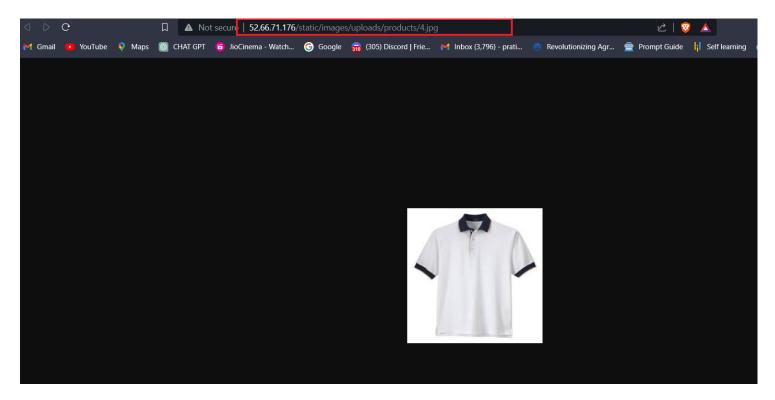
Client Side filter
Bypass
(Moderate)

Here are other similar URL's that leaks critical information via directory listing vulnerability.

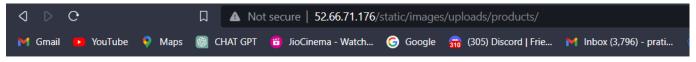
Affected URL:

http://52.66.71.176/robots.txt

- Navigate to http://52.66.71.176/products.php.
- Now, right click on the image of any product and then select View Image or you can even drag
 the image to a new tab.
- The page loads up as shown below, with the image of the selected product.\
- Notice the URL, it actually reveals the full path of the image.



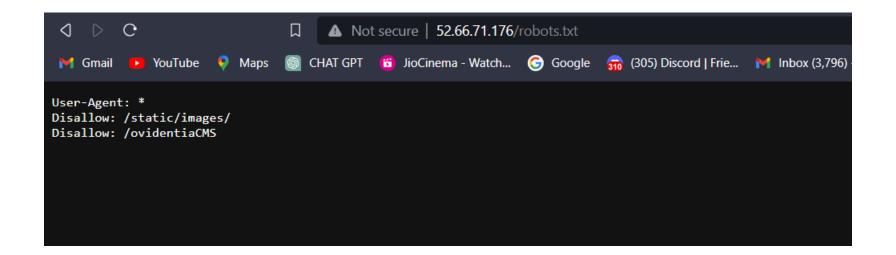
- Now if we remove the image name (here , 4.jpg) and hit enter.
- The following page with the tons of information in it, will be displayed.



Index of /static/images/uploads/products/

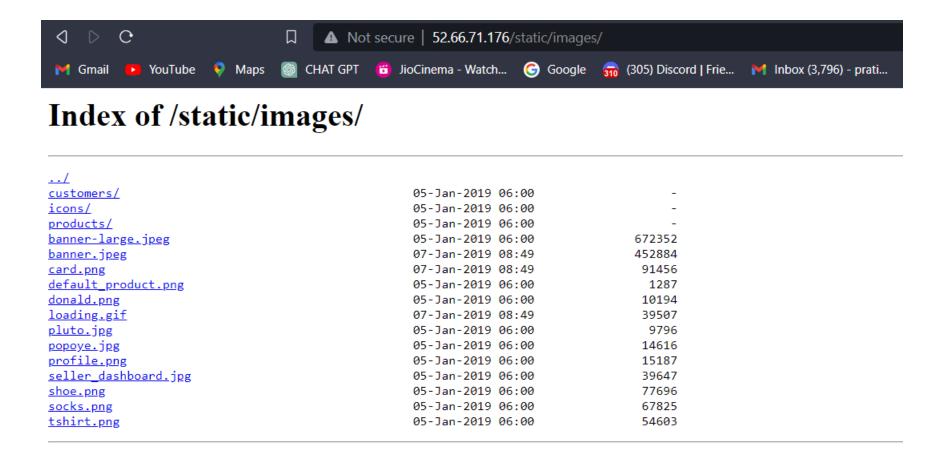
01.jpg			
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02.jpg	-0		
15-Feb-2019 08:57 137612			
15-Feb-2019 08:35 601636 26.jpg	-9		
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15-Feb-2019 08:36 128493 08.jpg			
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.html 08-Mar-2019 23:27 58			
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d.jpeg 18-Feb-2019 10:15 2598	eg e	18-Feb-2019 10:15	2598

- Navigate to http://52.66.71.176/robots.txt
- It shows all the sections of your server you don't want robots to use/visit.



PoC – directory listings

- Navigate to
- Complete listings of directory is shown containing the images of all the customers along with the images of all the
 products in the website and also the administrator directory is also visible.



Business Impact – High

- Although this vulnerability does not have a direct impact to users or the users or the server, though it can aid the
 attacker with information about the server and the users.
- Also, an attacker can take important information like what all products are being sold by the sellers can simply
 download the images, view them and can even use them against the users or the organization.

Recommendation

Take the following precautions:

- Two-Factor Authentication for sensitive data should be added with strong passwords.
- Find all PII stored and encrypt them with the various techniques.
- Disable Directory Listing.
- Put an index.html in all folders with default message.

References

- https://cwe.mitre.org/data/definitions/548.html
- https://www.netsparker.com/blog/web-security/disable-directory-listing-web-servers/

11.PII Leakage

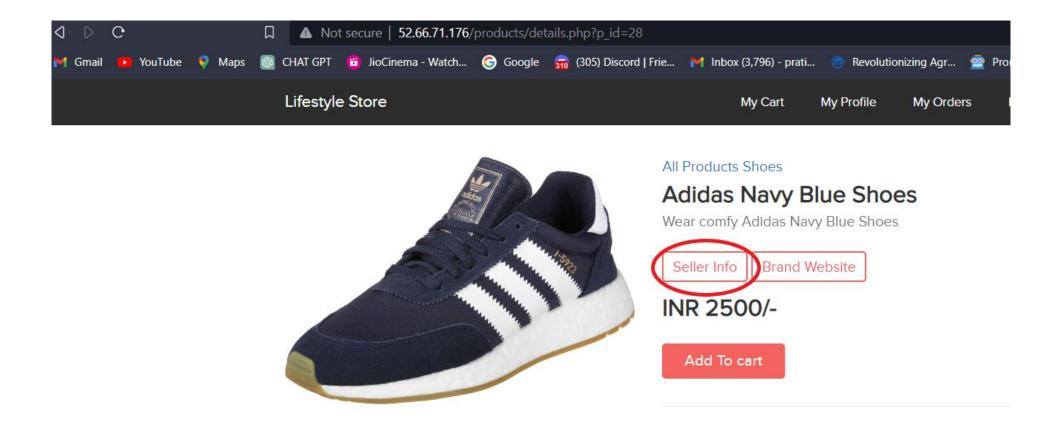
PII Leakage (Moderate)

The below mentioned URL is vulnerable to personnel identifiable information leakage.

Affected URL:

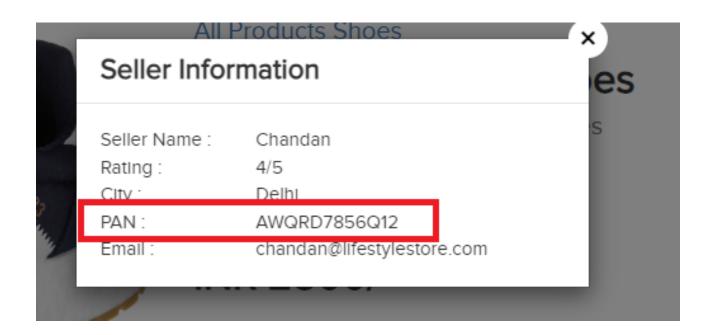
http://52.66.71.176/products/details.php?p_id=28

- Login to your account and go to Products page.
- In every product page the Seller Info is available, click on it.



PoC – pan card details are shown

• Upon clicking on Seller Info; Seller Name, Rating, City, Email along with Pan Card Details are shown.



Business Impact – High

• Leaking critical information like PAN Card Details to everyone is highly vulnerable as, hackers can use such information to socially hack them.

Recommendation

- Hide critical information like the PAN Card details.
- Display only minimal required information about the sellers.

References

- https://www.imperva.com/learn/data-security/personally-identifiable-information-pii
- https://hackerone.com/reports/374007/

12. Open Redirection

Open Redirection (Severe)

Below mentioned URL is vulnerable to open redirection.

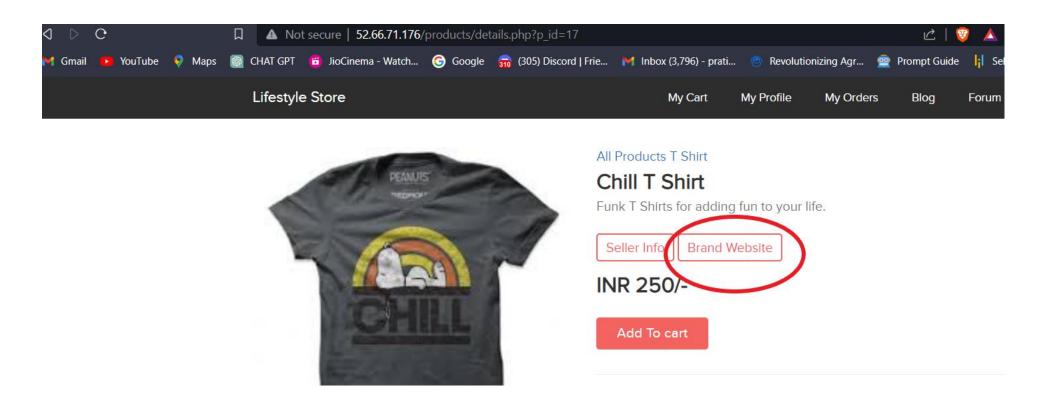
Affected URL:

http://52.66.71.176/redirect.php?url=www.batwanworldfashion.com

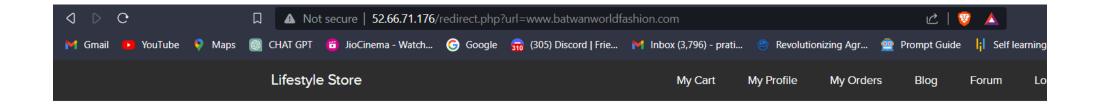
Affected Parameters:

url

- Login to your account and go to Products page.
- In every product page the Brand Website is available, click on it.

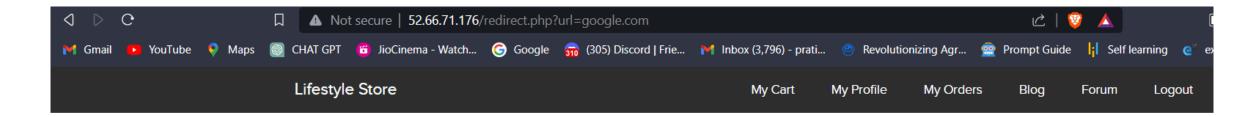


Upon clicking on Brand Website, we are then being redirected to the brand's website.



You will be redirected in 6 seconds

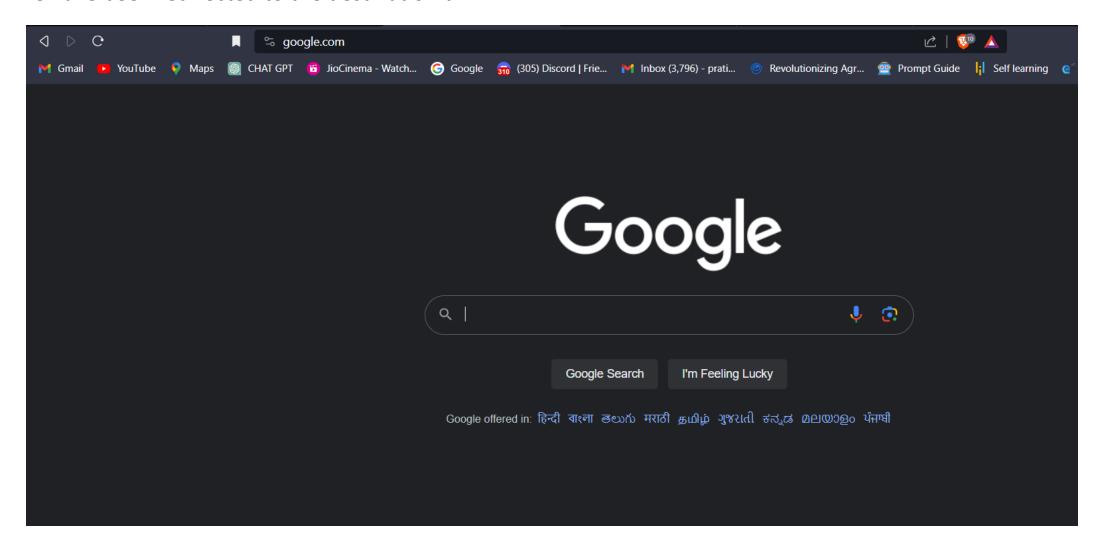
Now, change the url from the brand website to some other website, here we use https://www.google.com and hit enter.



You will be redirected in 6 seconds

PoC – open redirection

We have been redirected to the destination url.



Business Impact – High

• The hacker can redirect your page to a malicious page or some other phishing sites.

Recommendation

- Check your Referrers.
- Design your app to avoid URL redirects or forwards as a best practice. If unavoidable, encrypt the target URL such that the URL: token mapping is validated on the server.
- Verify URL patterns using regular expressions to check if they belong to valid URLs. However, malicious URLs can pass that check.

References

- https://www.netsparker.com/blog/web-security/open-redirection-vulnerability-information-prevention
- https://spanning.com/blog/open-redirection-vulnerability-web-based-application-security-part-1/
- https://www.trustwave.com/en-us/resources/blogs/spiderlabs-blog/understanding-and-discoveringopen-redirect-vulnerabilities/

13. Bruteforce Exploitation of Coupon Codes

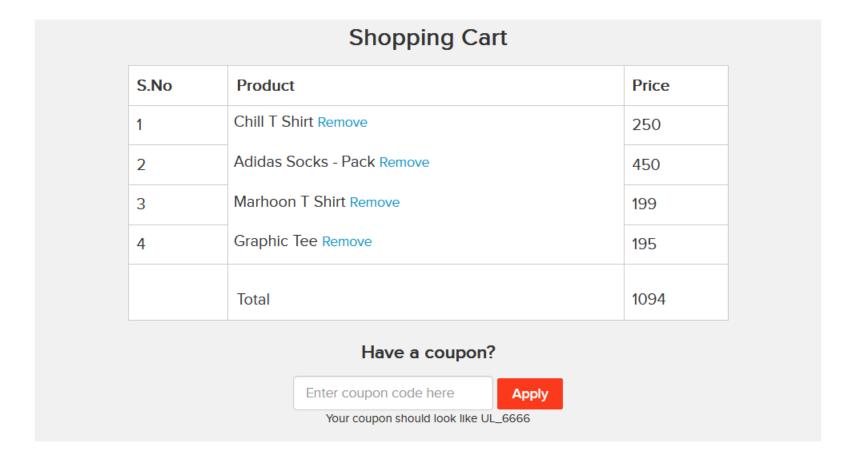
Open Redirection (Severe)

Below mentioned URL is vulnerable to brute forcing and can be exploited for discussion.

Affected URL:

http://52.66.71.176/cart/cart.php

- Upon adding items to the cart, you will end up in a screen like this, where we see the apply coupon section and an example.
- Type in UL_6666 in the apply coupon section and interpret the request using Burp Suite.

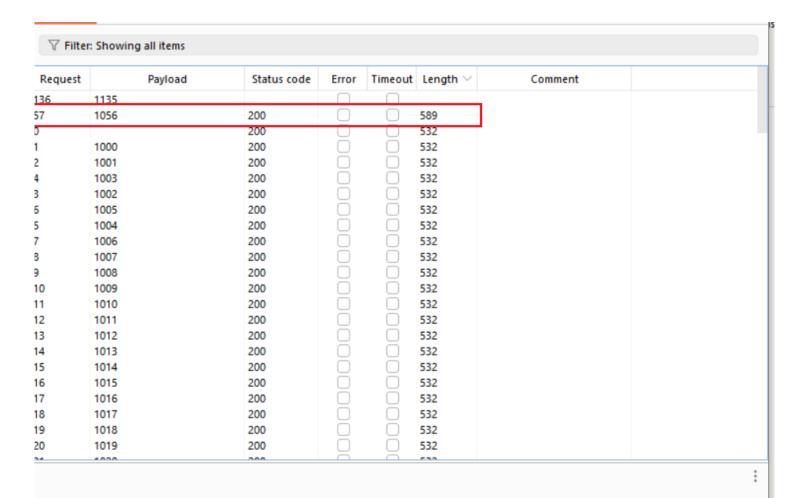


Following request will be generated containing coupon code.

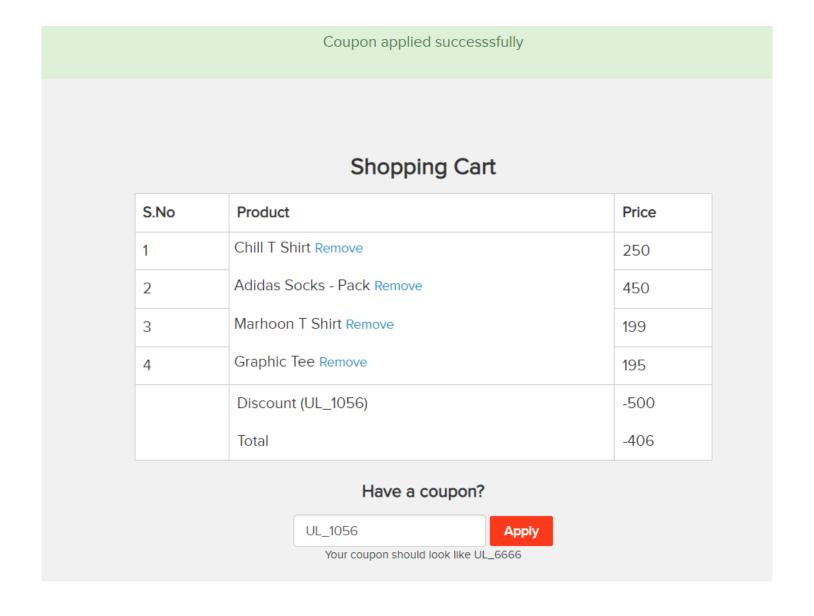
```
Pretty
                  Hex
          Raw
 1 POST /cart/apply_coupon.php HTTP/1.1
2 Host: 52.66.71.176
3 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:109.0) Gecko/20100101 Firefox/119.0
 4 Accept: */*
5 Accept-Language: en-US, en; q=0.5
6 Accept-Encoding: gzip, deflate, br
7 Content-Type: application/x-www-form-urlencoded; charset=UTF-8
8 X-Requested-With: XMLHttpRequest
9 Content-Length: 92
10 Origin: http://52.66.71.176
11 Connection: close
12 Referer: http://52.66.71.176/cart/cart.php
13 | Cookie: key=5zmvx8ulguy; PHPSESSID=t5bklnc5bbq7jegf65crqqj5p4; X-XSRF-T0KEN=1221a7ad9424d93cd95abc40f836e174246c87df1c669707ed243f75ed344b6a
14
                   -XSRF-T0KEN=1221a7ad9424d93cd95abc40f836e174246c87df1c669707ed243f75ed344b6a
15 coupon = UL 66664)
```

 We shoot the request with all possible combinations of 4 digit numbers and upon a successful hit, we get a response containing the valid coupon code. We can use this code to get the discount.

Valid coupon code for this website is UL_1056



PoC – coupon code applied successfully



Business Impact – Severe

Attacker can easily order the items on extreme discounts which in turn will cause huge loss to the company.

Recommendation

- Coupon codes should have been limited number of uses and should be regenerated after sometime.
- Coupon code should be random alpha numeric characters.

References

- https://www.digitalcommerce360.com/2017/03/17/prevent-fraud-brute-force-online-coupon-gift-card-attacks/
- https://www.couponxoo.com/brute-force-attack-coupon-code/

14. Command Execution Vulnerability

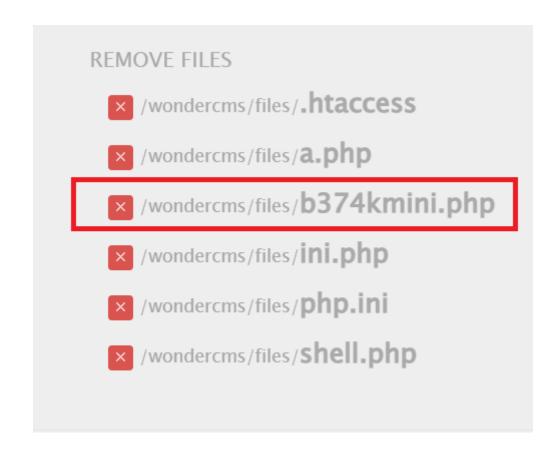
Command
Execution
Vulnerability
(Critical)

The below mentioned URL is vulnerable Command Execution Vulnerability

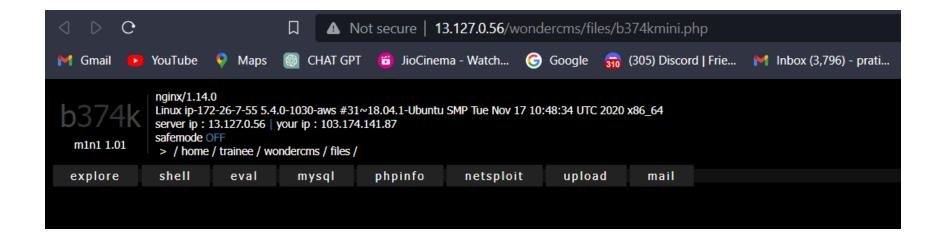
Affected URL:

- http://13.127.0.56/wondercms/files/b374kmini.php
- http://13.127.0.56/admin31/console.php

- Navigate to the Blog section of the website and login as admin.
- Now, navigate to the settings and the go to Files option.
- You will notice an Remove Files section here, click on /wondercms/files/b374kmini.php



 It looks like, this is a small and simple PHP-shell that has an explorer, allows shell command execution, mysql queries and more.

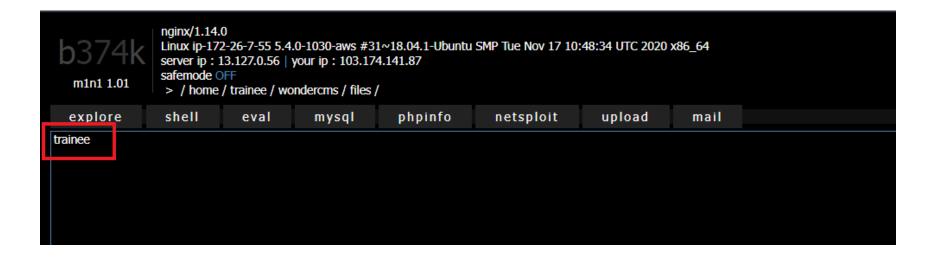


PoC – command execution

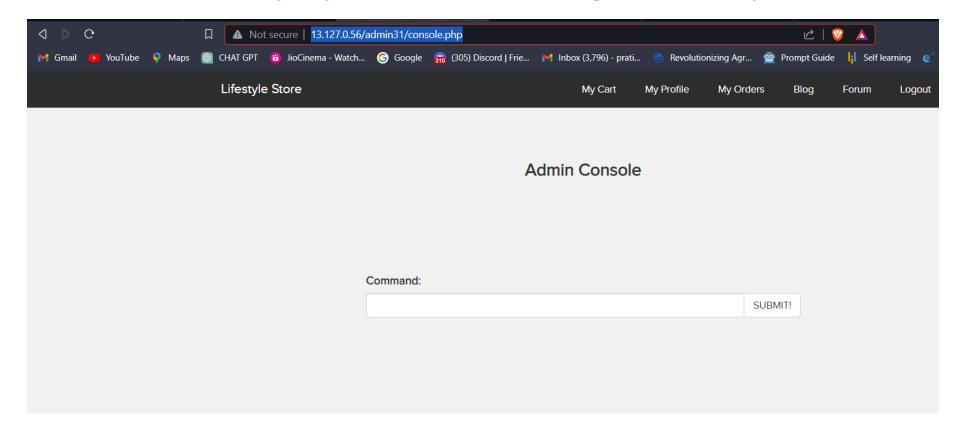
• Type in the Command: whoami and press Go!



The command was executed successfully.

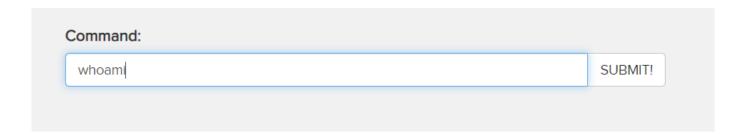


- As a customer, Login to your account.
- Now, forcefully type in the url for going to the admin console http://13.127.0.56/admin31/console.php (you came to know about this url while testing vulnerabilities for Vulnerability Report no.4, Rate Limiting Flaws), and press enter.



PoC – command execution

• It seems like we can execute commands here, let's try by typing whoami and press SUBMIT!



• The command was executed successfully.



Business Impact – Extremely High

- The consequences of command execution can vary:
 - Including complete system takeover, an overloaded file system or database.
 - Forwarding attacks to back-end systems.
 - Client-side attacks, or simple defacement.

Recommendation

- Hide all files in the **Upload** Screen.
- Delete all php shells.

References

- https://miniphpshell.wordpress.com/2009/10/13/b374k-mini-shell/
- https://owasp.org/www-community/attacks/Command Injection

15. Forced Browsing

Forced Browsing (Severe)

Below mentioned URL is vulnerable to Forced Browsing

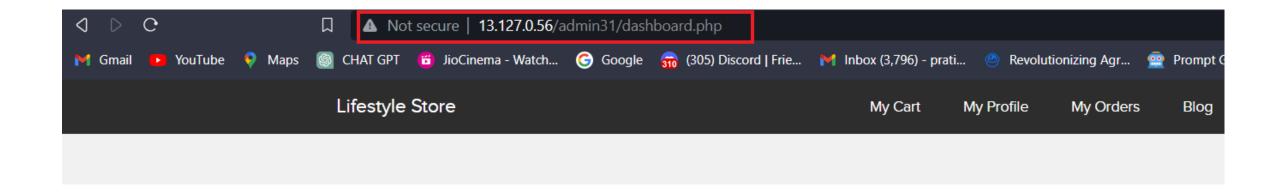
Affected URL:

http://13.127.0.56/

Forced URLs:

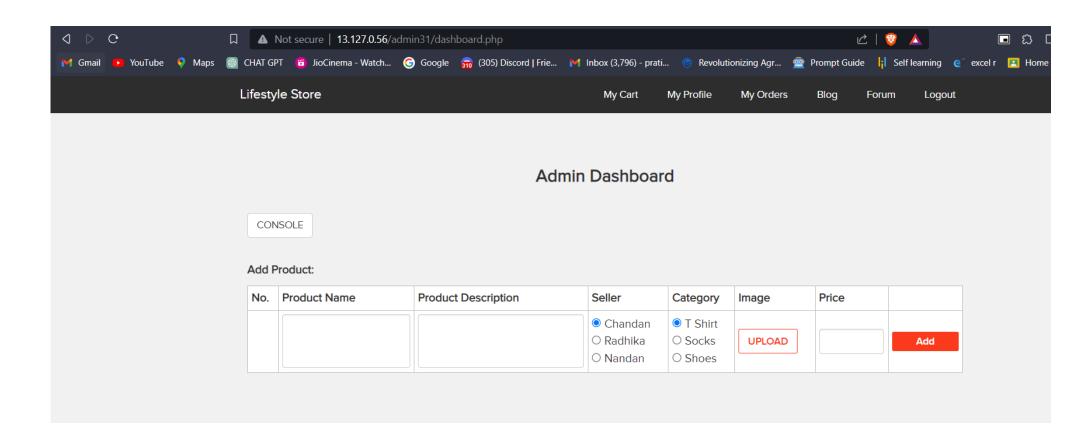
http://13.127.0.56/admin31/dashboard.phphttp://13.127.0.56/admin31/console.php

- As a customer, Login to your account.
- Now, forcefully type in the url for going to the admin console
 http://13.127.0.56/admin31/dashboard.php (you came to know about this url while testing vulnerabilities for Vulnerability Report no.4, Rate Limiting Flaws).



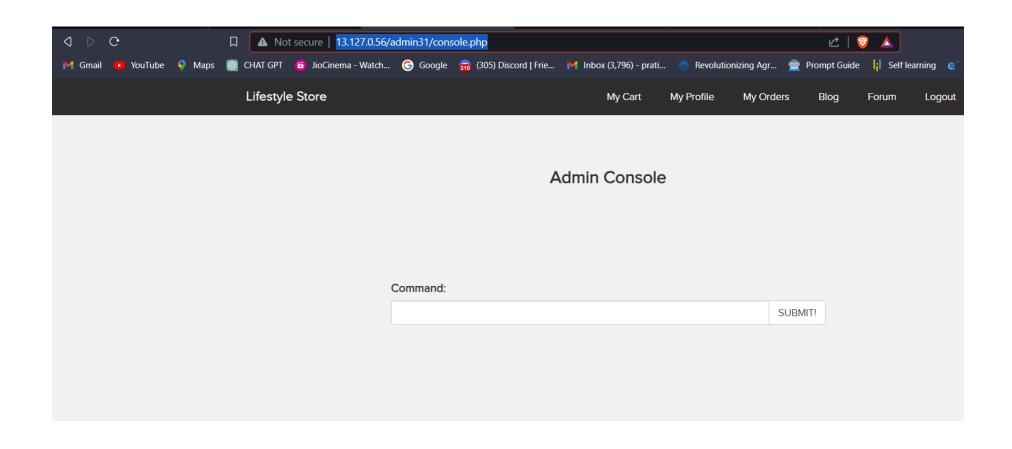
PoC – admin dashboard access

Here is the access to the complete admin dashboard just by entering its complete url.



PoC – admin console access

Here is the access to the admin console just by entering its complete url.



Business Impact – Severe

- Attacker can have all the admin privilages.
- He can edit all the items.
- He can execute any harmful command through console.

Recommendation

- Server side security checks should be performed perfectly.
- Make the admin pageurl complicated so that it couldn't be guessed.

References

- https://miniphpshell.wordpress.com/2009/10/13/b374k-mini-shell/
- https://owasp.org/www-community/attacks/Command Injection

16.Seller Account Access

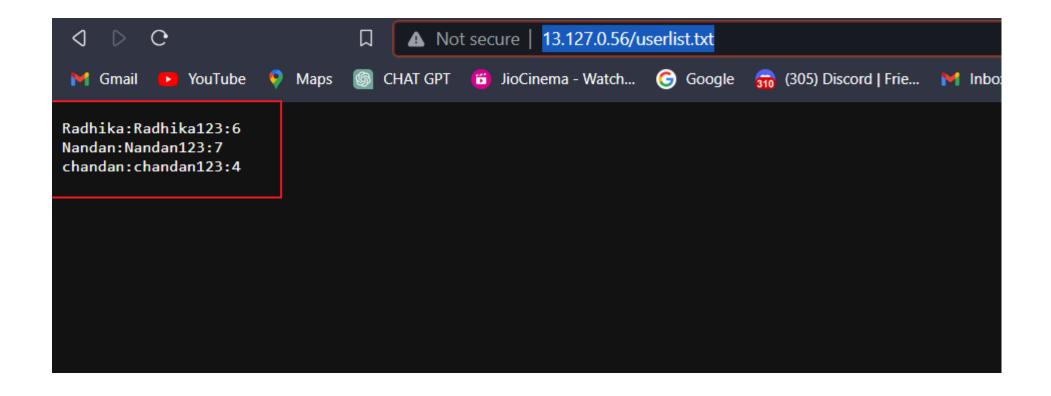
Seller Account
Access
(Critical)

The below mentioned URL shows the seller accounts and passwords.

Affected URL:

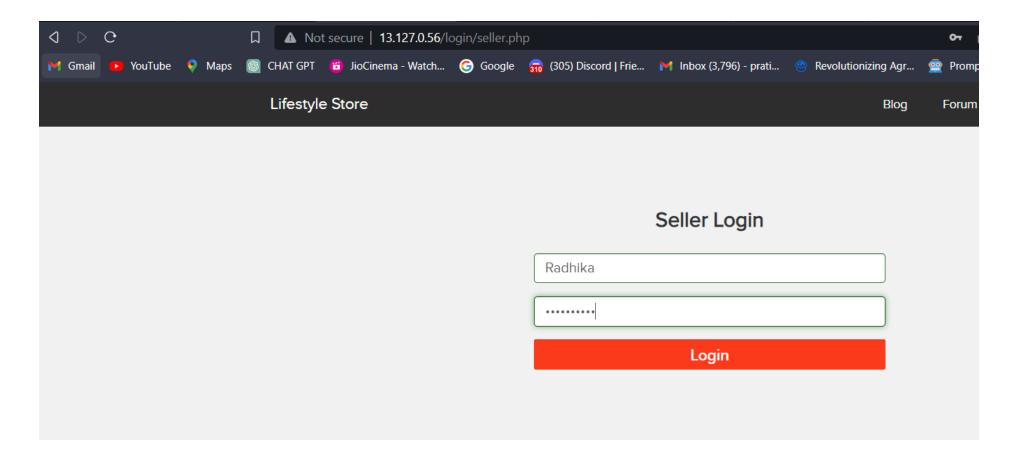
• http://13.127.0.56/userlist.txt

 Navigate to the website, at the homepage add /userlist.txt after the URL, the following page is opened.



PoC – attacker has the seller dashboard access

On entering the credentials in the seller account we got from http://13.127.0.56/userlist.txt
 we have accessed the seller's dashboard.



PoC



Business Impact – Extremely High

Attacker can access the seller dashboard and then can edit the product's name, image, and even
the price of the products he/she is selling, which in turn can harm seller's reputation and even
the company might face losses for same.

Recommendation

• The developer should disable these confidential default pages which reveals the username and password of the sellers.

References

- https://www.indusface.com/blog/owasp-security-misconfiguration/
- https://hdivsecurity.com/owasp-security-misconfiguration