

EXTERNAL PENETRATION TESTING REPORT

FOR

(CLIENT NAME)

CLIENT LOGO

By



AUDITED BY



DATE: XXXX

CONFIDENTIAL

Document Control

| Item | Description |
|-----------------|-------------------------------|
| Document Title: | XXXXXX WAPT Report 1.0 – xxxx |
| Version No: | 1.0 |
| Status: | Final |
| Type: | PDF |
| Publish Date: | xx-xx-xxxx |
| Revision Date: | xx-xx-xxxx |

| Author(s) | | |
|-------------------|--------------------------------|----------------|
| Name | Functional Section, Department | Signature/Date |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| Approved by | | |
| Name | Functional Section, Department | Signature/Date |
| Deepak Kumar Nath | Chief Technology Officer | xx-xx-xxxx |

Document Amendment Record

| Version | Date | Prepared By | Description |
|---------|------------|-------------|---------------------------------|
| 1.0 | xx-xx-xxxx | | Initial Report created for XXXX |

Table of content

- 1. Executive Summary 4
 - 1.1 INTRODUCTION 4
- 2. Methodology 5
- 3. Summary of Findings 8
 - 3.1 TOTAL NUMBER OF FINDINGS..... 8
 - 3.2 FINDINGS SUMMARY..... 8
 - 3.3 FINDINGS VULNERABILITY SUMMARY 9
- 4. Detailed Findings 10
- 5. Detailed Findings **Error! Bookmark not defined.**
- 6. Detailed Findings 11
- 7. Detailed Findings 12
- 8. Detailed Findings 14
- 9. Detailed Findings 15
- 10. Detailed Findings 16
- 11. Detailed Findings 18
- 12. Detailed Findings 19
- 13. Detailed Findings **Error! Bookmark not defined.**
- 14. Detailed Findings 20
- 15. Detailed Findings 22
- 16. Detailed Findings 23
- 17. Detailed Findings 24
- 18. Detailed Findings 25
- 19. Conclusion 27
- Appendix A – Definitions -Vulnerability Rating & Exploitation 28

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

This report presents the results of the white box penetration testing for XXXXXX web Application. The purpose of this assessment was to test external web app to identify technical and functional vulnerabilities, discover whether a malicious user may leverage these flaws to compromise the security of the XXXXXX Organization and provide Preventions for risk mitigation that may arise on successful exploitation of these vulnerabilities.

The assessment was done within a controlled environment. The assessment was started on xx xxxx xxxx and ended on xx xxxx xxxx.

External Penetration testing assessment was conducted as a 'Black-box' & 'White-box' exercise. This was done to simulate as closely as possible from the viewpoint of an internal attacker.

The subsequent sections of this document provide statistics of the vulnerabilities identified. The detailed technical findings section constitutes identified vulnerabilities with Preventions to mitigate security risks associated with the servers.

Our opinion provided in this report is valid for the period during which the assessment was carried out and is based on the information provided for the assessment. Projection of any conclusions based on our findings for future periods and applications / operating versions is subject to the risk that the validity of such conclusions may be altered because of changes made to the web applications or. Furthermore, the findings in this report reflect the conditions found during the assessment, and do not necessarily reflect current conditions.

2. METHODOLOGY

Threatsys used a combination of the Open Web Application Security Project (OWASP) testing guide and ISECOM's Open-Source Security Testing Methodology Manual (OSSTMM) for conducting penetration test of the server and applications. The testing was done to simulate as closely as possible the viewpoint of completely external attacker and Application user.



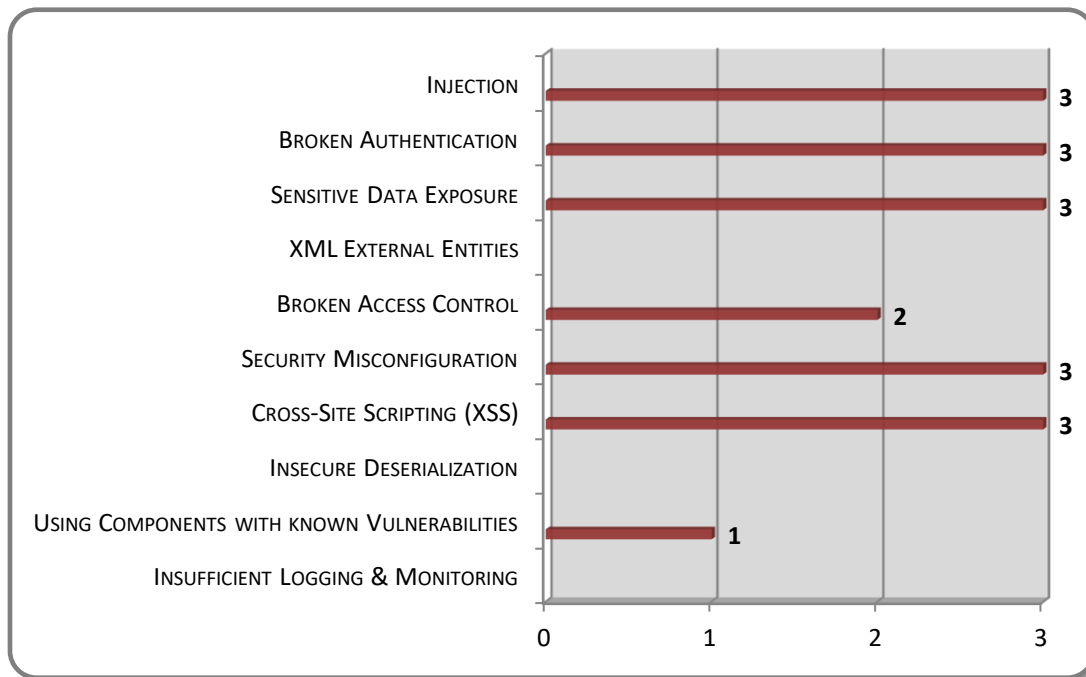
2.1 SCOPE OF WORK

The scope of the assessment was to perform a White-box web application PT

| WEB application URL |
|---|
| http://example.com |

2.2 BENCHMARKING WITH OWASP TOP 10 FOR APPLICATION PT

The below chart depicts the number of discovered vulnerabilities mapped to OWASP 2017 testing category.



OWASP has rated the Top Ten Vulnerabilities found in Web applications worldwide. OWASP Top Ten Vulnerabilities details can be found at below link.

https://www.owasp.org/index.php/Top_10-2017_Top_10

The table below shows how Vulnerabilities compares with respect to the OWASP 2017 Top 10 list.

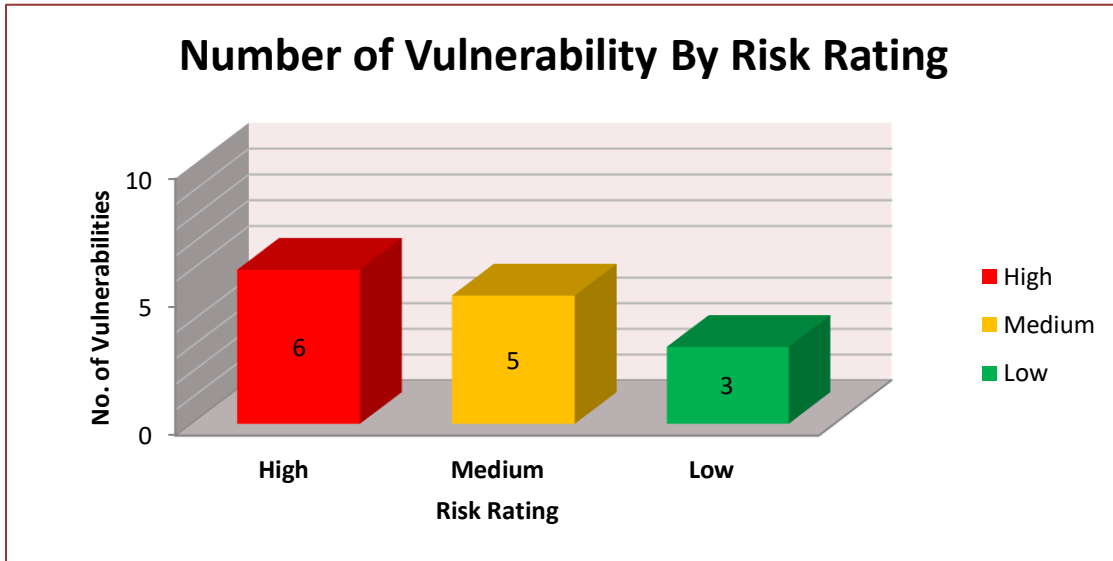
| | | |
|---|--------------------------|--------------|
| VERSION 1.0 | VIEW LEVEL: CONFIDENTIAL | PAGE 6 OF 28 |
| xxxx WEB APPLICATION PENETRATION TESTING REPORT | | |



| # | VULNERABILITIES | STATUS |
|----|---|--------------|
| 1 | Injection | Un-Protected |
| 2 | Broken Authentication | Un-Protected |
| 3 | Sensitive Data Exposure | Un-Protected |
| 4 | XML External Entities | Protected |
| 5 | Broken Access Control | Un-Protected |
| 6 | Security Misconfiguration | Un-Protected |
| 7 | Cross-Site Scripting | Un-Protected |
| 8 | Insecure Deserialization | Protected |
| 9 | Using Components with known Vulnerabilities | Un-Protected |
| 10 | Insufficient Logging & Monitoring | Protected |

3. SUMMARY OF FINDINGS

3.1 TOTAL NUMBER OF FINDINGS



3.2 FINDINGS SUMMARY


| Device Type | IP Address | Risk Rating | | | | Total |
|-----------------|---|-------------|------|--------|-----|-------|
| | | Critical | High | Medium | Low | |
| WEB Application | http://example.com | 1 | 5 | 4 | 3 | 13 |
| Total | | 1 | 5 | 4 | 3 | 13 |

Note: IT WAS NOT POSSIBLE TO ADD ALL THE ENDPOINTS ON THE REPORT. AS THE BELOW LISTED BUGS ARE PRESENT IN ALL THE SIMILAR ENDPOINTS. ALL THE BELOW MENTIONED FIX SHOULD BE APPLIED WITH ALL THE SIMILAR ENDPOINTS. EACH PARAMETER SHOULD BE PROTECTED AS MENTIONED BELOW.

3.3 FINDINGS VULNERABILITY SUMMARY

| S. No | Vulnerability | Severity |
|-------|-------------------------------|----------|
| 1. | ACCOUNT TAKEOVER | CRITICAL |
| 2. | CROSS SITE SCRIPTING (Stored) | HIGH |
| 3. | HTML INJECTION | HIGH |
| 4. | CROSS SITE REQUEST FURGERY | HIGH |
| 5. | INFORMATION DISCLOSURE | HIGH |
| 6. | BROKEN AUTHENDICATION | HIGH |
| 7. | IMPROPER SESSION MANAGEMENT | MEDIUM |
| 8. | BROKEN ACCESS CONTROL | MEDIUM |
| 9. | OPEN REDIRECTION | MEDIUM |
| 10. | NORATE LIMITING | MEDIUM |
| 11. | PASSWORD IN CLEAR TEXT | LOW |
| 12. | LOW VERSION JQUARY | LOW |
| 13. | LOW VERSION BOOTSTRAP | LOW |

4. DETAILED FINDINGS

| | | | |
|---------------------------|---|--------------------------------------|-----------------------|
| <i>Reference</i> | <u>FND - 01</u> | <i>Finding Ownership</i> | |
| <i>Raised By</i> | Red Team | <i>Department</i> | Threatsys Red Team |
| <i>Date Raised</i> | XX-XX-XXXX | <i>Assigned To</i> | |
| <i>Severity</i> | CRITICAL | <i>Remediation Plan Expected</i> | |
| <i>ISD Representative</i> | | <i>Remediation Expected</i> | |
| <i>Server's Affected</i> | http://example.com/forgotPassword | | |
| <i>Vulnerability Ref</i> | https://cheatsheetseries.owasp.org/cheatsheets/Multifactor_Authentication_Cheat_Sheet.html | | |
| <i>Title</i> | ACCOUNT TAKEOVER – OTP LEAKAGE IN RESPONSE | | |
| <i>Description</i> | Our team detected that the URL mansion above has a functionality for forget password and Reset password through OTP, and that OTP is being Disclosed in response which makes it vulnerable to Bypass OTP and takeover Admin account. | | |
| <i>Prevention</i> | OTP should not be Disclosed in Response and also use hashing or encryption Technique to Encode the OTP so if attack anyhow intercept the communication, it becomes hard to understand the real valid OTP. | | |
| <i>Evidence</i> | <p>Below screenshot shows that Valid OTP is being disclosed in response:</p>  | | |

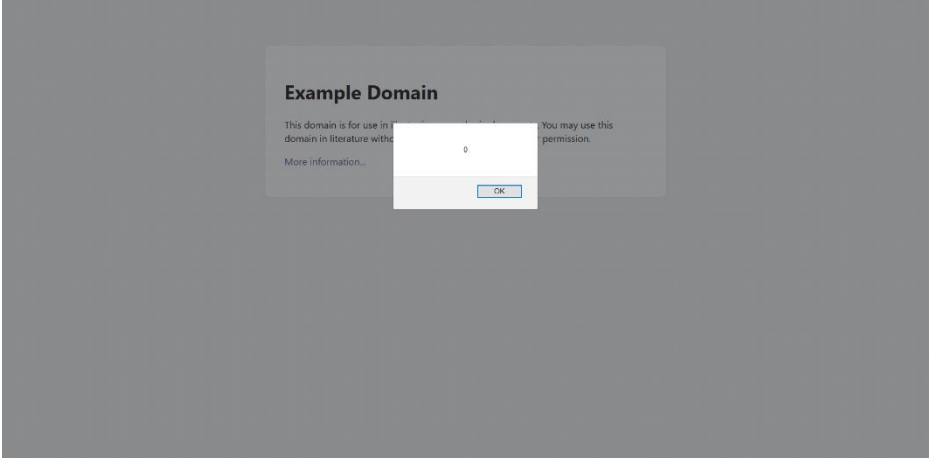
Impact

It is observed that Attacker having malicious intension can able to takeover Admin account By Resetting Password Through This Vulnerability and fully compromise the security of web application.

5. DETAILED FINDINGS

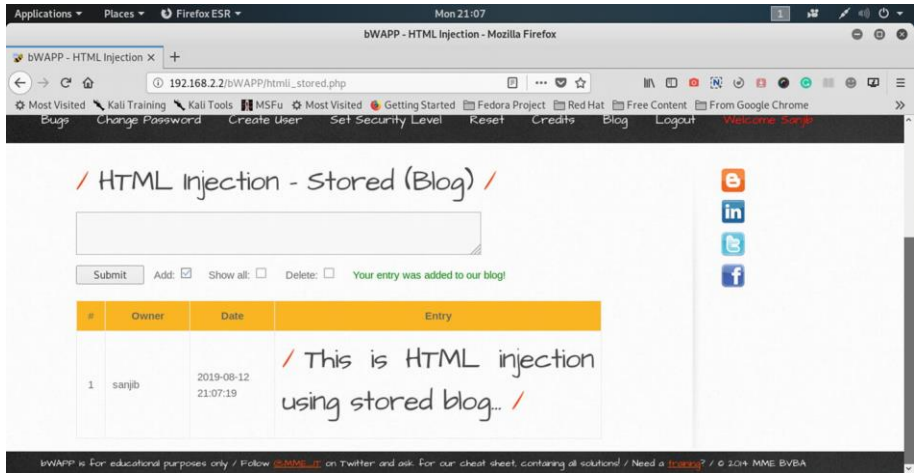
| | | | |
|---------------------------|---|----------------------------------|--|
| Reference | <u>FND - 02</u> | Finding Ownership | |
| Raised By | Red Team | Department | |
| Date Raised | xx-xx-xxxx | Assigned To | |
| Severity | HIGH | Remediation Plan Expected | |
| ISD Representative | | Remediation Expected | |
| Server's Affected | http://example.com/console/entities/edit/3 | | |
| Vulnerability Ref | https://owasp.org/www-community/attacks/xss/ | | |
| Title | CROSS SITE SCRIPTING (Stored) | | |
| Description | Our team observed that the above URL has a functionality for adding a value in a input filed which is storing the user input in an unsafe way which led to execute the JavaScript code. The code is storing in the server and this makes it a stored xss. | | |
| Recommendation | It is recommended to sanitize all user input with the help of input validation and text filtering methodologies in URLs, textboxes and other input fields to avoid cross-site scripting. | | |



| | |
|------------------------|--|
| <i>Impact</i> | Attacker can steal user cookies and hence the session. |
| <i>Evidence</i> | <p>Below Screenshot is the proof for xss, see the pop-up below.</p>  |

6. DETAILED FINDINGS

| | | | |
|----------------------------------|------------------------|---|--|
| <i>Reference</i> | <u>FND - 03</u> | <i>Finding Ownership</i> | |
| <i>Raised By</i> | Red Team | <i>Department</i> | |
| <i>Date Raised</i> | xx-xx-xxxx | <i>Assigned To</i> | |
| <i>Severity</i> | HIGH | <i>Remediation Plan Expected</i> | |
| <i>ISD Representative</i> | | <i>Remediation Expected</i> | |

| Server's Affected | http://example.com | | | | | | | | |
|--------------------------|--|---------------------|---|------|-------|---|--------|---------------------|---|
| Vulnerability Ref | https://owasp.org/www-project-web-security-testing-guide/latest/4-Web Application Security Testing/11-Client-side Testing/03-Testing for HTML Injection | | | | | | | | |
| Title | HTML INJECTION | | | | | | | | |
| Description | Our team observed that the above URL has an input field which is vulnerable to HTML Injection. due to misconfiguration, we were able to inject a HTML Code Because it is not sanitizing the user input properly which results in the HTML payloads being executed. | | | | | | | | |
| Recommendation | It is recommended to sanitize all user input with the help of input validation and text filtering methodologies in URLs, textboxes and other input fields to avoid cross-site scripting. | | | | | | | | |
| Evidence | <p>Below screenshot shows that HTML payload has been successfully Executed.</p>  <p>The screenshot shows a web browser window with the URL <code>192.168.2.2/bwapp/html_stored.php</code>. The page content includes a form with a 'Submit' button and a message 'Your entry was added to our blog!'. Below the form is a table with the following data:</p> <table border="1"> <thead> <tr> <th>#</th> <th>Owner</th> <th>Date</th> <th>Entry</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>sanjib</td> <td>2019-08-12 21:07:19</td> <td>/ This is HTML injection using stored blog... /</td> </tr> </tbody> </table> | # | Owner | Date | Entry | 1 | sanjib | 2019-08-12 21:07:19 | / This is HTML injection using stored blog... / |
| # | Owner | Date | Entry | | | | | | |
| 1 | sanjib | 2019-08-12 21:07:19 | / This is HTML injection using stored blog... / | | | | | | |
| Impact | It can cause phishing, spoofing etc. | | | | | | | | |

7. DETAILED FINDINGS

| | | | |
|---------------------------|---|--------------------------------------|-----------------------|
| <i>Reference</i> | <u>FND - 04</u> | <i>Finding Ownership</i> | |
| <i>Raised By</i> | Red Team | <i>Department</i> | Threatsys Red Team |
| <i>Date Raised</i> | xx-xx-xxxx | <i>Assigned To</i> | |
| <i>Severity</i> | HIGH | <i>Remediation Plan Expected</i> | |
| <i>ISD Representative</i> | | <i>Remediation Expected</i> | |
| <i>Server's Affected</i> | http://example.com/profile | | |
| <i>Vulnerability Ref</i> | https://owasp.org/www-community/attacks/csrf | | |
| <i>Title</i> | CROSS SITE REQUEST FORGERY | | |
| <i>Description</i> | <p>Our team detected that FOR Changing any data in the above URL is vulnerable to CSRF attacks as the requests being sent to server doesn't contain anti-CSRF tokens and server is not verifying that the request is forged or not Because of that a User manage to create a link for changing any data which content the action, can be send to admin to change their profile data and after that its lead to account takeover through reset password using email.</p> | | |
| <i>Prevention</i> | <p>It is recommended to implement anti-CSRF token in each and every request which have state changing functionality or Request verification token should be expired after being used for a single time & The token should be random and unique for each user.</p> | | |
| <i>Evidence</i> | <p>Below POC of CSRF: Step 1: <code><body></code> <code><script>history.pushState("", "", '/')</script></code> <code><form action="http://example.com/profile" method="POST"></code></p> | | |

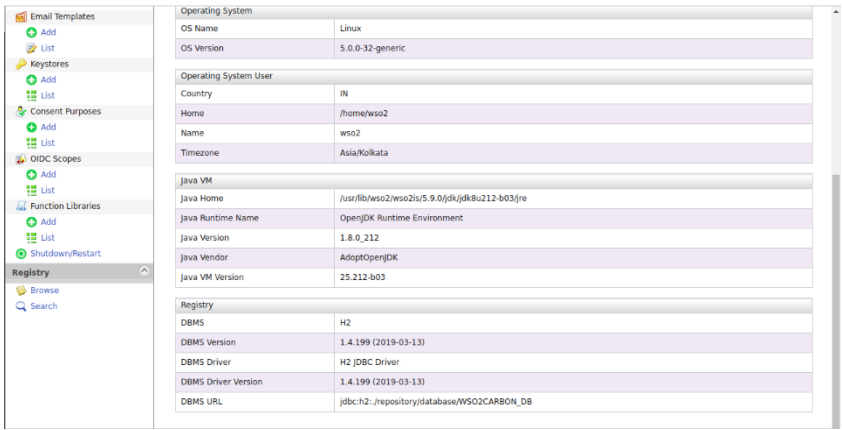


| | |
|---------------|--|
| | <pre><input type="hidden" name="name" value="EVIL CSRF" /> <input type="hidden" name="email id" value="AccountTakeOver@gmail.com" /> </form> </body> </html></pre> <p>STEP 2: "Save this POC in a .html file and send it to the admin"</p> <p>STEP 3: Send .html file to Admin. "After Submitting Request, the data of admin profile will be changed."</p> |
| <i>Impact</i> | It is observed that the admin can be tricked into clicking a link to change the data or take an action which they never intended to. |

8. DETAILED FINDINGS

| | | | |
|------------------|----------------------|--------------------------|-----------|
| <i>Reference</i> | <u>FND-06</u> | <i>Finding Ownership</i> | |
| <i>Raised By</i> | RED TEAM | <i>Department</i> | Threatsys |



| | | | |
|---------------------------|--|----------------------------------|----------|
| | | | Red Team |
| Date Raised | XX-XX-XXXX | Assigned To | |
| Severity | HIGH | Remediation Expected Date | |
| ISD Representative | | Remediation Expected | |
| Server's Affected | http://example.com/ | | |
| Title | Information Disclosure | | |
| Description | Our team has detected that the application Disclose some very sensitive data like "DBMS name" "Host name" "DBMS PASSWORD" "Environment Detail" and many sensitive data which an attack can use for Further exploitation. | | |
| Prevention | It is recommended to mask the Sensitive information about the Data base and environment details hidden from the Users. | | |
| Evidence | <p>Below screenshot shows that Information is Disclosed:</p>  | | |
| Impact | It is observed that if an attacker has access to this information, then use that information for further malicious exploitation. | | |

9. DETAILED FINDINGS

| | | | |
|------------------|----------------------|--------------------------|--|
| Reference | <u>FND-07</u> | Finding Ownership | |
|------------------|----------------------|--------------------------|--|

| | | | |
|---------------------------|--|--------------------------------------|-----------------------|
| <i>Raised By</i> | Red Team | <i>Department</i> | Threatsys Red Team |
| <i>Date Raised</i> | XX-XX-XXXX | <i>Assigned To</i> | |
| <i>Severity</i> | HIGH | <i>Remediation Plan Expected</i> | |
| <i>ISD Representative</i> | | <i>Remediation Expected</i> | |
| <i>Server's Affected</i> | http://example.com/changePassword | | |
| <i>Vulnerability Ref</i> | https://owasp.org/www-project-top-ten/2017/A2_2017-Broken_Authentication | | |
| <i>Title</i> | BROKEN AUTHENTICATION | | |
| <i>Description</i> | Our team detected that the app need authentication to view the inside functionality like “change password” which requires login, but anyone can directly access the “Change password” Functionally without any authentication & it allows the malicious user to change the password of “admin” which makes it Vulnerable for Broken Authentication. | | |
| <i>Recommendation</i> | It is recommended that the inside panel structure shouldn't be available with a bad access, it should show 302 permanently moved. | | |
| <i>Evidence</i> | <p>Steps to Reproduce:</p> <p>Step 1: Open login page http://example.com in a tab.</p> <p>Step 2: Now open This url “http://example.com/changePassword” Now you can see You can able to change the password by giving “OLD password” “NEW password” in the input filed without being authenticate.</p> | | |
| <i>Impact</i> | It is observed that an attacker can view or Do unauthorized content, Functionality or Action without authentication and compromise the security of web application. | | |

10. DETAILED FINDINGS

| | | | |
|---------------------------|---|----------------------------------|--------------------|
| <i>Reference</i> | <u>FND-08</u> | <i>Finding Ownership</i> | |
| <i>Raised By</i> | RED TEAM | <i>Department</i> | Threatsys Red Team |
| <i>Date Raised</i> | XX-XX-XXXX | <i>Assigned To</i> | |
| <i>Severity</i> | MEDIUM | <i>Remediation Expected Date</i> | |
| <i>ISD Representative</i> | | <i>Remediation Expected</i> | |
| <i>Server's Affected</i> | http://example.com | | |
| <i>Vulnerability Ref</i> | https://affinity-it-security.com/what-is-a-session-management-vulnerability/ | | |
| <i>Title</i> | IMPROPER SESSION MANAGEMENT | | |
| <i>Description</i> | Our team detected that, if we are logged in from multiple browsers and we change password from one browser, we are not logged out of other browsers. In other words, the session doesn't expire once a user is logged in even if the user changes his password. | | |
| <i>Impact</i> | It is observed that if an attacker has the credentials or he/she is logged in to an account by the help of some social engineering attack, the genuine user can't secure his account by simply changing | | |

| | |
|-------------------|---|
| | his password as the session on the attacker's end won't expire granting him complete access to the victim's account. |
| Prevention | It is recommended to implement proper session management. |
| Evidence | <p>1: Login into http://example.com using your credentials.</p> <p>2: Open another browser and login using the same credentials. Now change the password in this browser.</p> <p>3: Switch to the other browser where the password wasn't changed and click on any link there and it will open without asking you to login again.</p> <p>This confirms that all the active sessions are not expiring even after a password change.</p> |

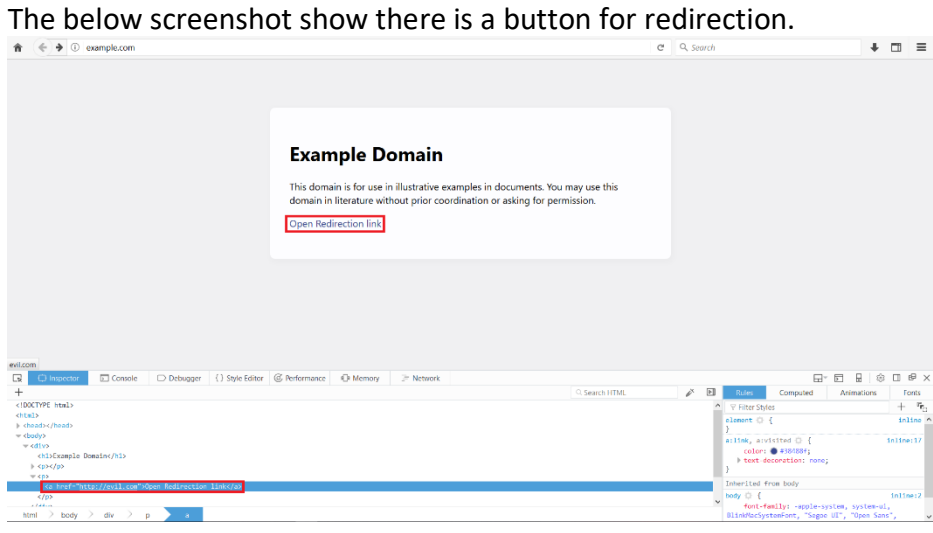
11. DETAILED FINDINGS

| | | | |
|---------------------------|---|----------------------------------|-----------------------|
| Reference | <u>FND-09</u> | Finding Ownership | |
| Raised By | Red Team | Department | Threatsys Red Team |
| Date Raised | xx-xx-xxxx | Assigned To | |
| Severity | MEDIUM | Remediation Plan Expected | |
| ISD Representative | | Remediation Expected | |
| Server's Affected | http://example.com/ | | |
| Vulnerability Ref | https://owasp.org/www-project-top-ten/2017/A5_2017-Broken_Access_Control | | |

| | |
|-----------------------|---|
| Title | BROKEN ACCESS CONTROL |
| Description | Our team detected that the above URL has a functionality to view the personal detail of a user which is in pdf format. We can able to view that PDF which contain “sensitive data of a user” without any authentication this issue led to broken access control. hence, we can able to view any user Sensitive Data files just by changing the endpoint value in URL without any authentication. |
| Recommendation | It is recommended to implement an access control, i.e., the user needs to be authorized before the server provides the requested information. It is often recommended to use something less obvious that is harder to enumerate as a reference or encrypt the file name in the URL. This is a good mitigation for multiple scenarios but it should not be considered as the only mitigation against such attacks. |
| Evidence | Through This URL http://example.com /application/1111/user1_Details.pdf We can able to view the pdf file a user which contain sensitive information. |
| Impact | It is observed that an attacker can view unauthorized details of a user which contain sensitive information. |

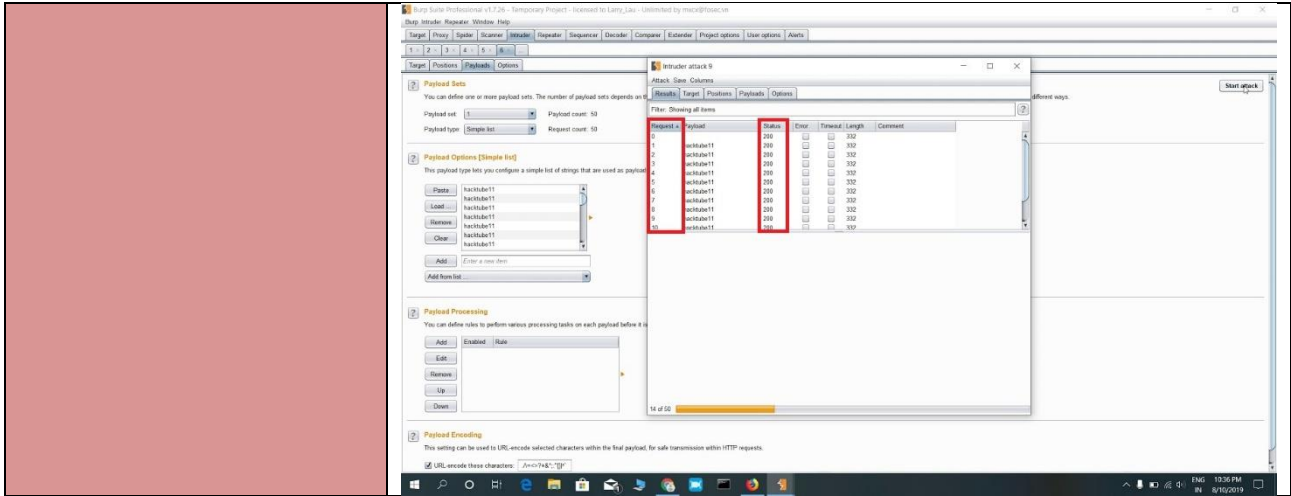
12. DETAILED FINDINGS

| | | | |
|--------------------|----------------------|--------------------------|--|
| Reference | <u>FND-10</u> | Finding Ownership | |
| Raised By | Red Team | Department | |
| Date Raised | xx-xx-xxxx | Assigned To | |

| | | | |
|---------------------------|---|----------------------------------|--|
| Severity | MEDIUM | Remediation Plan Expected | |
| ISD Representative | | Remediation Expected | |
| Server's Affected | http://example.com/ | | |
| Vulnerability Ref | https://owasp.org/www-project-web-security-testing-guide/v41/4-Web Application Security Testing/11-Client Side Testing/04-Testing for Client Side URL Redirect | | |
| Title | OPEN REDIRECTION | | |
| Description | Our team found that the URL above has an input filed which stores the user input data in a unsafe manner through which we can able to create a stored buttons which will redirect the user to a malicious website which is controlled by the attacker. The user's data will be theft in this way. | | |
| Recommendation | It is recommended to sanitize all user input with the help of input validation and text filtering methodologies in URLs, textboxes and other input fields to avoid cross-site scripting. | | |
| Evidence | <p>The below screenshot show there is a button for redirection.</p>  | | |
| Impact | This can cause phishing. | | |

13. DETAILED FINDINGS

| | | | |
|---------------------------|---|----------------------------------|--------------------|
| <i>Reference</i> | <u>FND-11</u> | <i>Finding Ownership</i> | |
| <i>Raised By</i> | RED TEAM | <i>Department</i> | Threatsys Red Team |
| <i>Date Raised</i> | XX-XX-XXXX | <i>Assigned To</i> | |
| <i>Severity</i> | MEDIUM | <i>Remediation Expected Date</i> | |
| <i>ISD Representative</i> | | <i>Remediation Expected</i> | |
| <i>Server's Affected</i> | http://example.com | | |
| <i>Vulnerability Ref</i> | https://www.cloudflare.com/learning/bots/what-is-rate-limiting/ | | |
| <i>Title</i> | No Rate Limiting | | |
| <i>Description</i> | Our team detected that the Login and OTP parameter field can be brute forced as there is no rate limiting functionality. This allowed our team to send numerous requests for the end points. Which will lead to bypass the Login functionality and hence it will lead to the account take over. | | |
| <i>Impact</i> | An attacker can bypass the login panel, OTP panel and takeover the admin panel through this vulnerability | | |
| <i>Prevention</i> | It is suggested to restrict the maximum number of consecutive failed tries by a user and give an error response, "429: Too Many Tries". Another safeguard would be to block login attempts for some time after few consecutive failures. | | |
| <i>Evidence</i> | Below screenshot shows that we can able to send multiple request: | | |



14. DETAILED FINDINGS

| | | | |
|---------------------------|---|----------------------------------|--|
| Reference | <u>FND-12</u> | Finding Ownership | |
| Raised By | RedTeam | Department | |
| Date Raised | 27-01-2021 | Assigned To | |
| Severity | Low | Remediation Plan Expected | |
| ISD Representative | | Remediation Expected | |
| Server's Affected | http://example.com/changePassword | | |

| | | | |
|---------------------------|---|----------------------------------|--|
| <i>Date Raised</i> | XX-XX-XXXX | <i>Assigned To</i> | |
| <i>Severity</i> | Low | <i>Remediation Plan Expected</i> | |
| <i>ISD Representative</i> | | <i>Remediation Expected</i> | |
| <i>Server's Affected</i> | http://example.com/public/js/jquery-3.3.1.min.js | | |
| <i>Vulnerability Ref</i> | https://owasp.org/www-project-top-ten/2017/A9_2017-Using_Components_with_Known_Vulnerabilities | | |
| <i>Title</i> | OUTDATED JQUERY | | |
| <i>Description</i> | Our team detected that the server is using out dated version of jQuery which is version 3.3.1. It has some previously known vulnerabilities which can be exploited. | | |
| <i>Recommendation</i> | It is recommended to update jQuery to the latest version 3.5.1 | | |
| <i>Evidence</i> | N/A | | |
| <i>Impact</i> | This version has the vulnerability for jQuery prototype pollution. | | |

16. DETAILED FINDINGS

| | | | |
|------------------|----------------------|--------------------------|-----------|
| <i>Reference</i> | <u>FND-14</u> | <i>Finding Ownership</i> | |
| <i>Raised By</i> | Red Team | <i>Department</i> | Threatsys |



| | | | |
|---------------------------|---|----------------------------------|----------|
| | | | Red Team |
| <i>Date Raised</i> | xx-xx-xxxx | <i>Assigned To</i> | |
| <i>Severity</i> | LOW | <i>Remediation Plan Expected</i> | |
| <i>ISD Representative</i> | | <i>Remediation Expected</i> | |
| <i>Server's Affected</i> | http://example.com/public/js/bootstrap.min.js | | |
| <i>Vulnerability Ref</i> | https://owasp.org/www-project-top-ten/2017/A9_2017-Using_Components_with_Known_Vulnerabilities | | |
| <i>Title</i> | OUTDATED BOOTSTRAP | | |
| <i>Description</i> | Our team detected that the server is using out dated version of BOOTSTRAP which is 4.3.1 version. It has some previously known vulnerabilities which can be exploited. | | |
| <i>Recommendation</i> | It is recommended to update BOOTSTRAP to the latest version 4.5.3 | | |
| <i>Evidence</i> | N/A | | |
| <i>Impact</i> | Since this is an old version of the software, it may be vulnerable to attacks | | |



17. CONCLUSION

Threatsys has done a thorough Internal Penetration testing for XXXXXX web Application, Threatsys suggests XXXXXX Organization to implement the Preventions in this document with respect to affected applications and infrastructure. The following table suggests the timelines to implement the Preventions based on the risk rating of the vulnerabilities.

| RISK RATING | TIMELINES |
|-----------------|---|
| CRITICAL | Implement controls within 1 week |
| HIGH | Implement controls within 2 to 3 weeks |
| MEDIUM | Implement controls within 1 months |
| LOW | Implement controls within 1 to 2 months |



APPENDIX A – DEFINITIONS -VULNERABILITY RATING & EXPLOITATION

| VULNERABILITY LEVELS | DESCRIPTION |
|----------------------|---|
| High | If the exploitation of the vulnerability can result in complete takeover of the / destruction of the / disclosure of highly sensitive information. Exploit for this vulnerability is easily available |
| Medium | If the exploitation of the vulnerability can result in Partial control of the / Partial destruction of the / disclosure of semi sensitive information. Exploit for this vulnerability is possible but not available |
| Low | If the exploitation of the vulnerability can result in little or no impact on the / disclosure of less sensitive information. Exploit for this vulnerability is very difficult to obtain |