

# Security Assessment Report

Target: [www.itsecgames.com](http://www.itsecgames.com)

Date: 17-Sep-2025

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## Objective

This assessment encompasses both passive and active reconnaissance of the target site, aiming to identify potential vulnerabilities, misconfigurations, and sensitive information exposures that an attacker could exploit. No critical vulnerabilities were found, but some improvements are recommended to harden security.

## Scope

What was tested:

- Passive Information Gathering
- Port Scanning
- Directory Enumeration
- Subdomain Enumeration
- SSL/TLS certification assessment
- Manual Info Leakage Analysis
- JavaScript Inspection

## Methodology

List tools & techniques used:

- WhatWeb
- WafW00f
- Subfinder / Amass
- Dirb
- Nmap
- SSL Labs
- curl
- Manual Browsing

## Finding

### 1. Check for robots.txt file

Tool Used: Manual

During the analysis, no robots.txt or sitemap file was found.

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### **Mitigation Recommendations**

It is recommended to create a robots.txt file to restrict crawlers from accessing sensitive pages. Note that this is primarily for search engine guidance and not a security control. Example directives include restricting access to administrative or private sections of the website.

## 2. Subdomain Discovery

Tool Used:subfinder

During testing, no subdomains related to the target website were identified.

```
(direction@kali)-[~]  
$ subfinder -d http://www.itsecgames.com/ -o subfinder.txt  
flag provided but not defined: -o  
  
(direction@kali)-[~]  
$ subfinder -d http://www.itsecgames.com/ -o subfinder.txt  
  
projectdiscovery.io  
  
[INF] Current subfinder version v2.6.0 (outdated)  
[INF] Loading provider config from the default location: /home/direction/.config/subfinder/provider-config.yaml  
[INF] Enumerating subdomains for http://www.itsecgames.com/  
[INF] Found 0 subdomains for http://www.itsecgames.com/ in 56 seconds 722 milliseconds  
  
(direction@kali)-[~]
```

---

### Mitigation Recommendations

Regularly monitor DNS records to detect any unauthorized or new subdomains.  
Remove or disable unused subdomains to prevent potential takeover risks.  
Consider implementing security measures such as wildcard prevention to avoid subdomain exploitation.

### 3. Firewall Discovery

Tool Used: wafw00f

During testing, no firewall or Web Application Firewall (WAF) was detected protecting the website.

---

#### **Mitigation Recommendations**

Deploy a WAF to filter and block malicious traffic.

Implement rate limiting, bot protection, and IP blacklisting to prevent automated attacks.

Regularly review firewall logs to identify suspicious activity and potential threats.



## 4. Directories Present

Tool Used: Dirb

```
(direction@kali)-[~]
$ dirb http://www.itsecgames.com/

DIRB v2.22
By The Dark Raver

START_TIME: Tue Sep 16 20:46:17 2025
URL_BASE: http://www.itsecgames.com/
WORDLIST_FILES: /usr/share/dirb/wordlists/common.txt

GENERATED WORDS: 4612

— Scanning URL: http://www.itsecgames.com/ —
=> DIRECTORY: http://www.itsecgames.com/downloads/
=> DIRECTORY: http://www.itsecgames.com/images/
+ http://www.itsecgames.com/index.htm (CODE:200|SIZE:3651)
=> DIRECTORY: http://www.itsecgames.com/javascript/
=> DIRECTORY: http://www.itsecgames.com/js/

(!) FATAL: Too many errors connecting to host
(Possible cause: COULDNT CONNECT)

END_TIME: Tue Sep 16 20:56:43 2025
DOWNLOADED: 2881 - FOUND: 1

(direction@kali)-[~]
$
```

During directory brute-forcing with **dirb**, the following interesting result was found:

- **URL:** <http://www.itsecgames.com/index.htm>
- **HTTP Response Code:** 200 (OK)
- **Content Size:** [Include size 3651]

An index.htm file returning 200 means the file is publicly accessible and serves content to visitors.

Depending on its content, this could expose:

- Old or forgotten website versions
- Debug information
- Sensitive comments in source code
- Hardcoded credentials or API endpoints
- Unused functionality or vulnerable scripts

Even if it looks like a normal page, attackers often check these files carefully for hidden info or old scripts that can be exploited.

---

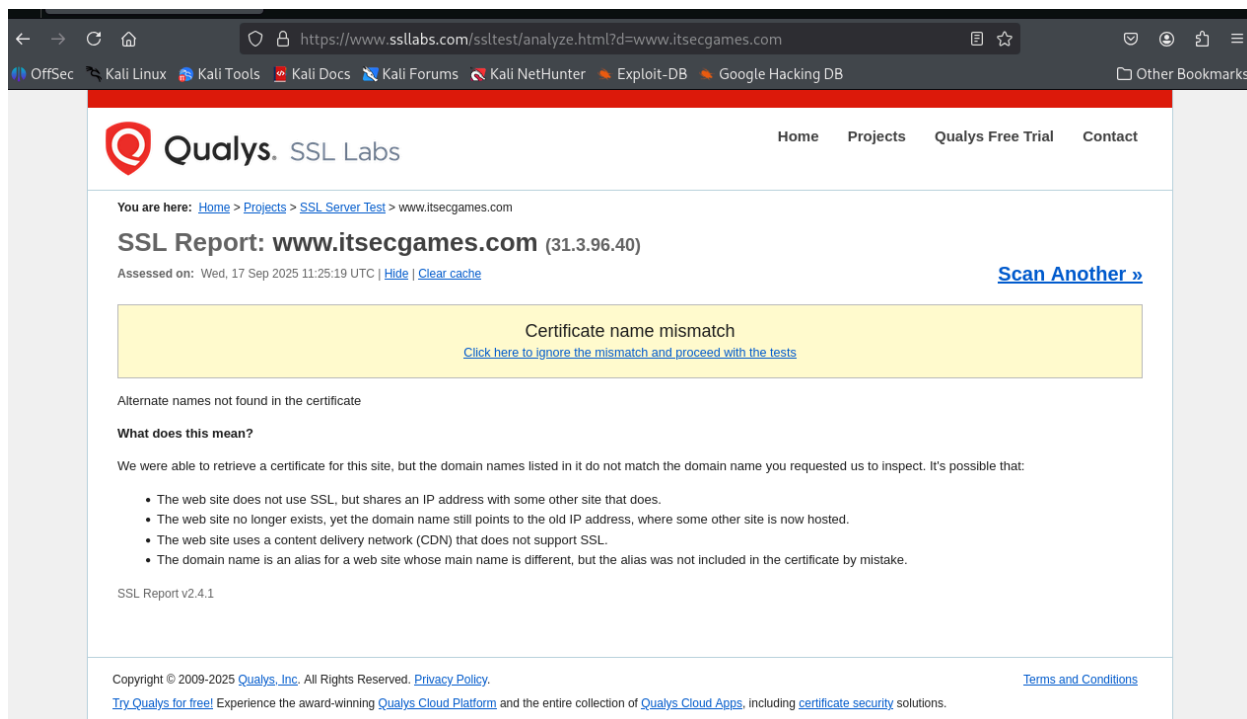
## Mitigation Recommendations

1. Manually review the contents of index.htm to ensure there is no sensitive data, comments, hardcoded credentials, or debug information left in the code.
2. If the file is outdated, unused, or serves no functional purpose, it should be removed from the public web directory immediately to reduce the attack surface.
3. If the file is needed for specific purposes (e.g., internal documentation), restrict access using proper web server rules (.htaccess for Apache):

## 5. SSL/TLS Certification assesment

During the assessment, the website was found accessible over plain HTTP without HTTPS enforcement. This means no SSL/TLS encryption is present, which exposes data in transit to interception or tampering by attackers.

Additionally, server headers such as Server: Apache and old Last-Modified timestamps were visible(in homepage check), indicating potential information leakage about the web server version and configuration.



The screenshot shows a web browser window with the address bar displaying <https://www.ssllabs.com/ssltest/analyze.html?d=www.itsecgames.com>. The browser's bookmark bar includes links to OffSec, Kali Linux, Kali Tools, Kali Docs, Kali Forums, Kali NetHunter, Exploit-DB, and Google Hacking DB. The Qualys SSL Labs report is displayed, showing the URL **SSL Report: www.itsecgames.com (31.3.96.40)** and the assessment date **Assessed on: Wed, 17 Sep 2025 11:25:19 UTC**. A prominent yellow box contains the error **Certificate name mismatch** with a link to [Click here to ignore the mismatch and proceed with the tests](#). Below this, the text states 'Alternate names not found in the certificate' and 'What does this mean?'. It explains that a certificate was retrieved but the domain names listed in it do not match the requested domain. Possible reasons listed are: the site doesn't use SSL, the site no longer exists, the site uses a CDN that doesn't support SSL, or the domain is an alias not included in the certificate. The footer includes copyright information for Qualys, Inc. and links to the Privacy Policy, Terms and Conditions, and a promotion for Qualys Cloud Platform.

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**SSL Report: www.itsecgames.com (31.3.96.40)**

Assessed on: Wed, 17 Sep 2025 11:25:19 UTC | [Hide](#) | [Clear cache](#) [Scan Another »](#)

**Certificate name mismatch**

[Click here to ignore the mismatch and proceed with the tests](#)

Alternate names not found in the certificate

**What does this mean?**

We were able to retrieve a certificate for this site, but the domain names listed in it do not match the domain name you requested us to inspect. It's possible that:

- The web site does not use SSL, but shares an IP address with some other site that does.
- The web site no longer exists, yet the domain name still points to the old IP address, where some other site is now hosted.
- The web site uses a content delivery network (CDN) that does not support SSL.
- The domain name is an alias for a web site whose main name is different, but the alias was not included in the certificate by mistake.

SSL Report v2.4.1


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## SSL Server Test

This free online service performs a deep analysis of the configuration of any SSL web server on the public Internet. **Please note the information you submit here is used only to provide you the service. We don't use the domain names or the test results, as will.**

Hostname:

☐ Do not show the results on the boards

### Recently Seen


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- [connect.tanglas.com](#) A-

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- [ejit.jyothyit.ac.in](#)
- [reader.i-telligent.com](#)
- [www.nationalpublicseating.co...](#)
- [sws.sb.com.ua](#)
- [telisservices.site](#)

 **Server Key and Certificate #1** 📄

<b>Subject</b>	web.mmebvba.com Fingerprint SHA256: 9e7276cb84903692044a0e1f9b64d1426869813b55b28167913b7e49e778f87e Pin SHA256: molIG7Pck7rm7Q7pJpb+auqA9cuCcDeOAxVrTFBhY0M=
<b>Common names</b>	web.mmebvba.com
<b>Alternative names</b>	- <b>INVALID</b>
<b>Serial Number</b>	00ba5e79e0c2f743cb
<b>Valid from</b>	Mon, 25 May 2015 09:07:54 UTC
<b>Valid until</b>	Thu, 22 May 2025 09:07:54 UTC (expired 3 months and 26 days ago) <b>EXPIRED</b>
<b>Key</b>	RSA 2048 bits (e 65537)
<b>Weak key (Debian)</b>	No
<b>Issuer</b>	web.mmebvba.com Self-signed
<b>Signature algorithm</b>	SHA256withRSA
<b>Extended Validation</b>	No
<b>Revocation information</b>	None
<b>DNS CAA</b>	No ( <a href="#">more info</a> )
<b>Trusted</b>	No <b>NOT TRUSTED</b> ( <a href="#">Why?</a> ) Mozilla Apple Android Java Windows

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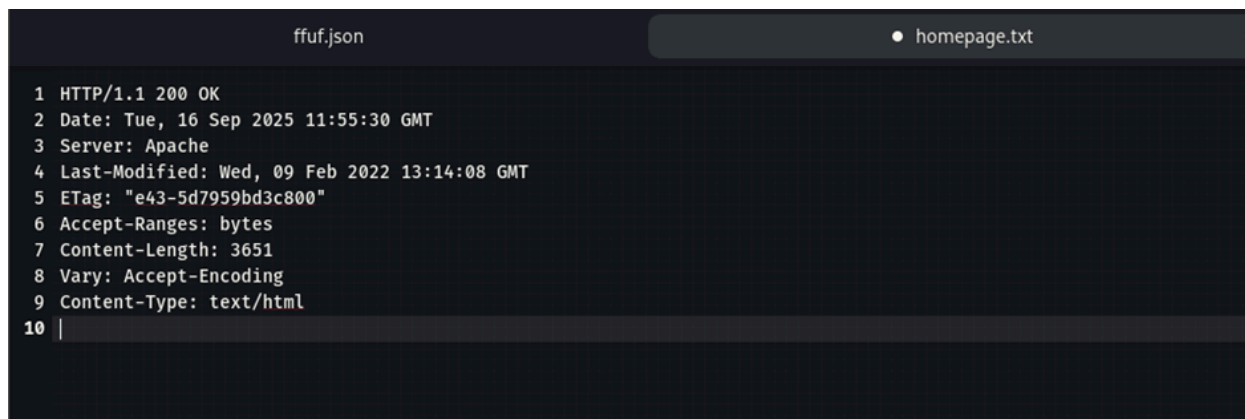
## Mitigation Recommendations

- Enforce HTTPS across the entire site by configuring HTTP → HTTPS redirects.
- Install a valid SSL/TLS certificate from a trusted certificate authority
- Disable weak or outdated TLS versions
- Implement strong cipher suites.
- Enable HTTP Strict Transport Security (HSTS) to force browsers to use HTTPS.
- Hide unnecessary server headers to prevent information leakage.
- Regularly test the SSL configuration using tools like SSL Labs to ensure no vulnerabilities are present.

## 6. Code Review

Command → `curl -IL http://www.itsecgames.com/ >homepage.txt`

--Server responds with HTTP 200 OK, serving the homepage. However, no security-related HTTP headers were found in the response.



```
ffuf.json  • homepage.txt x
1 HTTP/1.1 200 OK
2 Date: Tue, 16 Sep 2025 11:55:30 GMT
3 Server: Apache
4 Last-Modified: Wed, 09 Feb 2022 13:14:08 GMT
5 ETag: "e43-5d7959bd3c800"
6 Accept-Ranges: bytes
7 Content-Length: 3651
8 Vary: Accept-Encoding
9 Content-Type: text/html
10 |
```

Here's the analysis:

Status 200 → Page is up & serving fine.

Server Header Exposed:

Server: Apache → No version info (good, but ideally should hide "Apache" completely for better security).

Missing Security Headers:

- X-Frame-Options → Prevent clickjacking
- X-XSS-Protection → Helps stop some basic XSS attacks
- Content-Security-Policy (CSP) → Limits what content can be loaded/executed

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## Mitigation Recommendations

- Add security headers in Apache config like:

Header always set X-Frame-Options "DENY"

Header always set X-XSS-Protection "1; mode=block"

Header always set Content-Security-Policy "default-src 'self';"

- Hide Server header completely to avoid giving attackers info.

## 7. Nmap Findings

Open Ports:

- 22/tcp → tcpwrapped (no service version info)
- 80/tcp → tcpwrapped (likely Apache HTTP)
- 443/tcp → tcpwrapped (possibly HTTPS fallback)

Closed Ports: 1117, 1862, etc

```

... not found, but can be installed with:
(direction@kali)-[~]
$ nmap -sS -sV -Pn www.itsecgames.com
Starting Nmap 7.95 ( https://nmap.org ) at 2025-09-16 20:54 IST
Nmap scan report for www.itsecgames.com (31.3.96.40)
Host is up (0.29s latency).
rDNS record for 31.3.96.40: web.mmebvba.com
Not shown: 991 filtered tcp ports (no-response)
PORT      STATE SERVICE        VERSION
22/tcp    open  tcpwrapped     Not Upgrading: 1130
80/tcp    open  tcpwrapped
443/tcp    open  tcpwrapped
1117/tcp   closed ardus-mtrns
1862/tcp   closed mysql-cm-agent  in amd64 subfinder amd64 2.6.0-0kali1 [5,386
2869/tcp   closed icslap
6510/tcp   closed mcer-port  ing previously unselected package subfinder.
7019/tcp   closed doceri-ctl ectories currently installed.)
49161/tcp  closed unknown   0kali1_amd64.deb ...
Service detection performed. Please report any incorrect results at https://n
map.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 179.79 seconds

```

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## Mitigation Recommendations

Only expose necessary ports to the public (block SSH on 22 if not needed externally, use VPN or jump server).



During testing, the website was not consistently accessible. It seems multiple requests



5. Implement traffic monitoring to detect unusual spikes early.
6. Consider services like Cloudflare, AWS Shield, or Akamai to mitigate large-scale DoS attacks.

## 9. JavaScript and API findings

During the assessment, references to JavaScript files and a `js/` directory were discovered on the target website. These files could expose API endpoints, sensitive information, or implementation details if not properly secured.

Due to the website being temporarily unavailable (likely due to high request volume or a DoS-like condition), further inspection of the JavaScript files and discovery of API endpoints was not possible at the time of testing.

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### Mitigation Recommendations

- Once the site is accessible, inspect JavaScript files and the `js/` directory for hardcoded URLs, credentials, or API endpoints.
- Use browser Developer Tools and proxy tools like Burp Suite or OWASP ZAP to capture and analyze API calls during site interaction.
- Ensure all API endpoints are properly authenticated and validated, and avoid exposing sensitive logic in frontend JS files.

## Summary Table

	Area / Test	Observation	Risk Level
1	Passive Info Gathering	Website reveals server info, no subdomains found	Low
2	Firewall / WAF	No WAF detected	Medium
3	Directory Bruteforce	6 directories found	Medium
4	Port Scan / Services	Open ports: 22, 80, 443 (tcpwrapped); closed ports: 1117,1862,2869,6510,7019,49161	Medium
5	Subdomain Enumeration	No subdomains found	Low
6	SSL/TLS	HTTP accessible, Apache headers exposed, old Last-Modified date	High
7	Robots.txt	Not found	Low
8	Denial-of-Ser vice	Website temporarily unavailable due to multiple requests	High

9	API/	These could potentially contain hardcoded API endpoints or sensitive information	Medium
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## Conclusion

The assessment focused on passive and active reconnaissance of the target website, aiming to identify potential vulnerabilities, misconfigurations, and information exposures. No critical vulnerabilities were found during the testing. However, several areas of improvement were identified, including a lack of SSL/TLS encryption, a missing WAF, exposed JavaScript files, and the absence of robots.txt.

Additionally, availability issues (likely due to high request volume) prevented further in-depth testing of API endpoints and JavaScript files.

Implementing the recommended mitigations—such as enforcing HTTPS, deploying a Web Application Firewall, restricting sensitive directories, and securing API endpoints—will significantly improve the security posture of the website and reduce the risk of potential attacks.