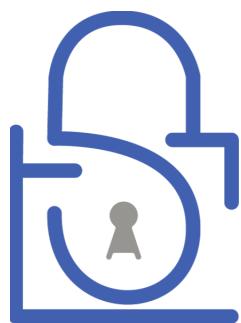


Target: localhost:4444

Analysis performed on 2025-10-29 16:42



TLSAssistant

Version 3.1.0

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Security Tool Report Disclaimer

The information provided in this report is the result of security testing conducted by [Your Company/Organization] using TLSAssistant. The purpose of this tool is to assess the security of TLS configurations. The findings and recommendations presented in this report are based on the specific conditions and configurations tested at the time of the assessment. We respectfully recommend verifying the identified vulnerability thoroughly.

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Recap

Modules	localhost:4444
Bar Mitzvah	Potentially Vulnerable
RC4 NOMORE	Potentially Vulnerable

Detected vulnerabilities

localhost:4444

Bar Mitzvah

CVE:2015-2808 - CVSS2:4.3 (Medium)

By exploiting the invariance weakness of the RC4 stream cipher, an attacker is able to retrieve the session cookie by guessing the LSBs (least significant bits) of the keystream. After a phase in which the attacker sniffs the connection between two parties, it detects a weak key usage and tries to exploit the weakness.

Mitigation

Textual

Disable the RC4 stream cipher.

Apache

1. open your Apache configuration file (default: /etc/apache2/sites-available/default-ssl.conf);
2. find the line starting with: SSLCipherSuite;
3. add the string `:!RC4` at the end.

N.B. restart the server by typing: `sudo service apache2 restart`.

nginx

1. In a default situation, you can edit your website configuration `/etc/nginx/sites-enabled/default` (if you changed your site conf name `/etc/nginx/sites-enabled/YOURSITECONFIGURATION`);
2. Inside `server {...}` brackets configuration, find `ssl_ciphers`;
3. Remove `RC4` (if any) and add `:!RC4` at the end.

N.B. restart the server by typing: `sudo service nginx restart`.

RC4 NOMORE

CVE:Not available - CVSS3:Not available

RC4 Numerous Occurrence MOnitoring & Recovery Exploit

Given the biases existing in the key generation algorithm, an attacker can use statistics to guess information. The capture of the session cookie is operated by surrounding the token itself with known plaintext and repeatedly connecting to the server. After

collecting a fair amount of packets, the attacker can exploit the biases to calculate the cookie.

Mitigation

Textual

Disable the RC4 stream cipher.

Apache

1. open your Apache configuration file (default: /etc/apache2/sites-available/default-ssl.conf);
2. find the line starting with: SSLCipherSuite;
3. add the string **:!RC4** at the end.

N.B. restart the server by typing: **sudo service apache2 restart**.

nginx

1. In a default situation, you can edit your website configuration /etc/nginx/sites-enabled/default
(if you changed your site conf name /etc/nginx/sites-enabled/YOURSITECONFIGURATION);
2. Inside **server {...}** brackets configuration, find **ssl_ciphers**;
3. Remove **RC4** (if any) and add **:!RC4** at the end.

N.B. restart the server by typing: **sudo service nginx restart**.