

IE2062 – Web Security

Semester 2, 2024

BUB BOUNTY



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WEEKEND BATCH

MALABE CAMPUS

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Bug Bounty Platform - Hacker One

Bug Bounty Program - Booking.com

Scope

In Scope Assets

For in Scope Assets please refer to the Scope tab

Out-Of-Scope Applications Any application whether owned by Booking.com or third-party vendor **not included as an in-scope asset** will be mentioned on the scope tab as out of scope.

For Out Of Scope Assets please refer to the Scope tab

In-scope Vulnerabilities

Accepted, in-scope vulnerabilities include, but are not limited to:

- Disclosure of sensitive or personally identifiable information
- Cross-Site Scripting (XSS) Please note, for XSS if the same issue is reported for the different subdomains but with the same root cause, it will be considered duplicate
- Cross-Site Request Forgery (CSRF) for sensitive functions in a privileged context
- Remote code execution (RCE)
- Authentication or authorization flaws, including insecure direct object references and authentication bypass
- Injection vulnerabilities, including SQL and XML injection
- Directory traversal
- Significant security misconfiguration with a verifiable vulnerability
- · Account takeover by exploiting a vulnerability

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- SSRF
- XXE
- Subdomain takeover in *.booking.com domains

Out-Of-Scope Vulnerabilities Depending on their impact, not all reported issues may qualify for a monetary reward. However, all reports are reviewed on a case-by-case basis and any report that results in a change being made will at a minimum receive recognition. Please note that our **program terms and rules of engagement** still apply.

The following issues are outside the scope of our vulnerability rewards program:

- Any vulnerability which requires access to a compromised email account or Booking.com account for successful exploitation
- Vulnerabilities on Third Party Products
- Attacks requiring physical access to a user's device or network.
- Forms missing CSRF tokens (we require evidence of actual CSRF vulnerability)
- Login/Logout CSRF
- Missing security headers which do not lead directly to a vulnerability
- Use of a known-vulnerable library (without evidence of exploitability)
- · Reports from automated tools or scans
- Social engineering of Booking staff or contractors
- Denial of Service attacks and/or reports on rate limiting issues
- Not enforcing certificate pinning
- Any issues that require a rooted or jailbroken device or a compromised device
- Clickjacking
- Improper session invalidation
- User enumeration
- · Host header injections without a specific, demonstrable impact
- Self-XSS, which includes any payload entered by the victim



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- Any vulnerabilities requiring significant and unlikely interaction by the victim, such as disabling browser controls
- Content spoofing without embedded HTML or JavaScript
- Hypothetical issues that do not have any practical impact
- Infrastructure vulnerabilities, including:
- · Issues related to SSL certificates
- DNS configuration issues
- Server configuration issues (e.g. open ports, TLS versions, etc.)

Asset name ↑	Туре 🛧	Coverage ↑	Max. severity ↓	Bounty ↑	Last update ↑
https://iphone-xml.booking.com/json/	URL	In scope	— Critical	§ Eligible	Nov 29, 2023
https://secure-iphone-xml.booking.com/json/	URL	In scope	Critical	§ Eligible	Dec 13, 2023
supplier.auth.toag.booking.com	Domain	In scope	— Critical	§ Eligible	Jan 24, 2023
metasearch-api.booking.com	Domain	In scope	— Critical	S Eligible	Nov 7, 2023
experiences.booking.com	Domain	In scope	— Critical	§ Eligible	Nov 7, 2023
webhooks.booking.com	Domain	In scope	— Critical	S Eligible	Nov 29, 2023
paybridge.booking.com	Domain	In scope	— Critical	§ Eligible	Dec 13, 2023
phone-validation.taxi.booking.com	Domain	In scope	Critical	§ Eligible	Dec 13, 2023
autocomplete.booking.com	Domain	In scope	Critical	§ Eligible	Nov 29, 2023
distribution-xml.booking.com	Domain	In scope	Critical	§ Eligible	Nov 29, 2023
paynotifications.booking.com	Domain	In scope	— Critical	§ Eligible	Dec 13, 2023
supply-xml.booking.com	Domain	In scope	— Critical	§ Eligible	Dec 13, 2023
accommodations.booking.com	Domain	In scope	Critical	§ Eligible	Nov 29, 2023
portal.taxi.booking.com	Domain	In scope	— Critical	§ Eligible	Nov 29, 2023
secure-supply-xml.booking.com	Domain	In scope	Critical	S Eligible	Nov 29, 2023



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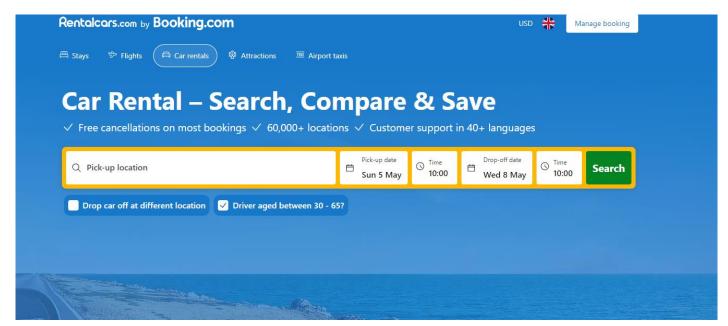
careers.booking.com	Domain	In scope	Critical	S Eligible	Nov 6, 2023
accommodations.booking.com	Domain	In scope	— Critical	6 Eligible	Nov 29, 2023
booking.com	Domain	In scope	Critical	S Eligible	Nov 6, 2023
www.fareharbor.com	Domain	In scope	Critical	6 Eligible	Mar 5, 2024
*.rentalcars.com if there's any vulnerabilities raised on this asset that are owned by a third party we will not be accepting those reports	Wildcard	In scope	— Critical	§ Eligible	Feb 29, 2024
New compass.fareharbor.com	Domain	In scope	Critical	§ Eligible	Updated Apr 30, 2024
New fhdn.fareharbor.com	Domain	In scope	Critical	S Eligible	Updated Apr 30, 2024
account.booking.com	Domain	In scope	Critical	6 Eligible	Nov 6, 2023
admin.booking.com	Domain	In scope	Critical	S Eligible	Nov 29, 2023
secure.booking.com	Domain	In scope	Critical	§ Eligible	Nov 6, 2023
*.booking.com if there's any vulnerabilities raised on this asset that are owned by a third party we will not be accepting those reports	Wildcard	In scope	Critical	§ Eligible	Feb 29, 2024
if there's any vulnerabilities raised on this asset that are owned by	Wildcard Wildcard	In scope Out of scope	CriticalNone	S EligibleIneligib	
if there's any vulnerabilities raised on this asset that are owned by a third party we will not be accepting those reports					le Mar 19, 2024
if there's any vulnerabilities raised on this asset that are owned by a third party we will not be accepting those reports www.booking.com/bbmanage/data/*	Wildcard	Out of scope	• None	§ Ineligib	le Mar 19, 2024 le Mar 19, 2024
if there's any vulnerabilities raised on this asset that are owned by a third party we will not be accepting those reports www.booking.com/bbmanage/data/* spadmin.booking.com/	Wildcard	Out of scope Out of scope	None None	§ Ineligib § Ineligib	le Mar 19, 2024 le Mar 19, 2024 le Mar 19, 2024
if there's any vulnerabilities raised on this asset that are owned by a third party we will not be accepting those reports www.booking.com/bbmanage/data/* spadmin.booking.com/ www.booking.com/bbmanage/*	Wildcard Domain Wildcard	Out of scope Out of scope Out of scope	None None None	\$ Ineligib\$ Ineligib	le Mar 19, 2024 le Mar 19, 2024 le Mar 19, 2024
if there's any vulnerabilities raised on this asset that are owned by a third party we will not be accepting those reports www.booking.com/bbmanage/data/* spadmin.booking.com/ www.booking.com/bbmanage/* secure.booking.com/company/*	Wildcard Domain Wildcard Wildcard	Out of scope Out of scope Out of scope	None None None None	\$ Ineligib\$ Ineligib\$ Ineligib	le Mar 19, 2024
if there's any vulnerabilities raised on this asset that are owned by a third party we will not be accepting those reports www.booking.com/bbmanage/data/* spadmin.booking.com/ www.booking.com/bbmanage/* secure.booking.com/company/* secure.booking.com/orgnode/*	Wildcard Domain Wildcard Wildcard Wildcard	Out of scope	None None None None None	\$ Ineligib\$ Ineligib\$ Ineligib\$ Ineligib\$ Ineligib	le Mar 19, 2024
if there's any vulnerabilities raised on this asset that are owned by a third party we will not be accepting those reports www.booking.com/bbmanage/data/* spadmin.booking.com/ www.booking.com/bbmanage/* secure.booking.com/company/* secure.booking.com/orgnode/* business.booking.com/	Wildcard Domain Wildcard Wildcard Wildcard Domain	Out of scope	None None None None None None	\$ Ineligib\$ Ineligib\$ Ineligib\$ Ineligib\$ Ineligib\$ Ineligib	le Mar 19, 2024



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www.rentalcars.com (*rentalcars.com)





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The ZAP automated scan gives the following results

- Alerts (19)
 - Absence of Anti-CSRF Tokens (2)
 - Pu Content Security Policy (CSP) Header Not Set (2)
 - Plus Cross-Domain Misconfiguration (6)
 - Missing Anti-clickjacking Header (2)
 - Pi Cookie No HttpOnly Flag (16)
 - Cookie Without Secure Flag (18)
 - Pi Cookie without SameSite Attribute (16)
 - PU Cross-Domain JavaScript Source File Inclusion (10)
 - Server Leaks Version Information via "Server" HTTP Response Header Field
 - Strict-Transport-Security Header Not Set (12)
 - Timestamp Disclosure Unix (73)
 - Name = Name =
 - Information Disclosure Suspicious Comments (23)
 - > Nosely Scoped Cookie (4)
 - Modern Web Application (3)
 - Re-examine Cache-control Directives (4)
 - > Place Retrieved from Cache (14)
 - Session Management Response Identified (17)
 - User Agent Fuzzer (131)

For example, use anti-CSRF packages such as the OWASP CSRFGuard



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Content Security Policy (CSP) Header Not Set
URL: https://www.rentalcars.com
Risk: Nedium
Confidence: High Parameter:
Falanteer. Attack
Evidence:
CWE ID: 693
WASC ID: 15
Source: Passive (10038 - Content Security Policy (CSP) Header Not Set)
Alert Reference: 10038-1
Input Vector: Description:
Content Security Policy (CSP) is an added layer of security that helps to detect and mitigate certain types of attacks, including Cross Site Scripting (XSS) and data injection attacks. These attacks are used for everything from data theft to site defacement
or distribution of malware. CSP provides a set of standard HTTP headers that allow website owners to declare approved sources of content that browsers should be allowed to load on that page — covered types are JavaScript, CSS, HTML frames,
fonts, images and embeddable objects such as Java applets, ActiveX, audio and video files.
Other Info:
Solution:
Ensure that your web server, application server, load balancer, etc. is configured to set the Content-Security-Policy header.
Reference:
Part New Francis
Cross-Domain Misconfiguration URL: https://cdn.cookielaw.org/scripttemplates/otSDKStub.js
ora. Input control orange of suppliet input establishment of s
Confidence: Medium
Parameter:
Attack:
Evidence: Access-Control-Allow-Origin: *
CWEID: 264 WASC ID: 14
Source: Passive (10098 - Cross-Domain Misconfiguration)
Input Vector:
Description:
Web browser data loading may be possible, due to a Cross Origin Resource Sharing (CORS) misconfiguration on the web server
Other Info:
The CORS misconfiguration on the web server permits cross-domain read requests from arbitrary third party domains, using unauthenticated APIs on this domain. Web browser implementations do not permit arbitrary third parties to read the
response from authenticated APIs, however. This reduces the risk somewhat. This misconfiguration could be used by an attacker to access data that is available in an unauthenticated manner, but which uses some other form of security, such as If
address white-listing.
Solution:
Ensure that sensitive data is not available in an unauthenticated manner (using IP address white-listing, for instance). Configure the "Access-Control-Allow-Origin" HTTP header to a more restrictive set of domains, or remove all CORS headers entirely, to allow the web browser to enforce the Same Origin Policy (SOP) in a more restrictive manner.
Consigned and Access Consider Andrew Congress of the March Consider and Consider an
Reference:
Nicolar Anti-off-triangle day
Missing Anti-clickjacking Header URL: https://www.rentalcars.com
Risk: Neddum
Confidence: Medium
Parameter: x-frame-options
Attack:
Evidence:
CWEID: 1021 WASC ID: 15
vinoci ib. 19 Source: Passive (10020 - Anti-clickjacking Header)
Alert Reference: 10020-1
Input Vector:
Description:
The response does not include either Content-Security-Policy with 'frame-ancestors' directive or X-Frame-Options to protect against 'ClickJacking' attacks.
Other Info:
Solution:
Modern Web browsers support the Content-Security-Policy and X-Frame-Options HTTP headers. Ensure one of them is set on all web pages returned by your site/app.
fly ou expect the page to be framed only by pages on your server (e.g. it's part of a FRAMESET) then you'll want to use SAMEORIGIN, otherwise if you never expect the page to be framed, you should use DENY. Alternatively consider implementing Content Security Policy's "frame-ancestors" directive.



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URL: https://www.rentalcars.com
Natural Distriction of the Control o
Risk: Pu Low
Confidence: Medium
Parameter: tj_seed
Attack
Evidence: Set-Cookie:tj_seed
CWEID: 1004
WASC ID: 13
Source: Passive (10010 - Cookie No HttpOnly Flag)
Input Vector:
Description:
A cookie has been set without the HttpOnly flag, which means that the cookie can be accessed by JavaScript. If a malicious script can be run on this page then the cookie will be accessible and can be transmitted to another site. If this is a session
cookie then session hijacking may be possible.
Other Info:
Solution:
Ensure that the HttpOnly flag is set for all cookies.
Reference:
https://owasp.org/www-community/HttpOnly
Cookie Without Secure Flag
URL: https://www.rentalcars.com
Risk: Pu Low
Confidence: Medium
Parameter: tj_seed
Attack:
Evidence: Set-Cookie: tj_seed
CWE ID: 614
WASC ID: 13
Source: Passive (10011 - Cookie Without Secure Flag)
Laput Vector.
Description:
A cookie has been set without the secure flag, which means that the cookie can be accessed via unencrypted connections.
Other Info:
Other Info:
Other Info:
Other Info:
Solution:
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-Solution: Whenever a cookie contains sensitive information or is a session token, then it should always be passed using an encrypted channel. Ensure that the secure flag is set for cookies containing such sensitive information
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Solution: Whenever a cookie contains sensitive information or is a session token, then it should always be passed using an encrypted channel. Ensure that the secure flag is set for cookies containing such sensitive information Cookie without Same Site Attribute URL: https://www.rentaicars.com Risk: Pi Low
Solution: Whenever a cookie contains sensitive information or is a session token, then it should always be passed using an encrypted channel. Ensure that the secure flag is set for cookies containing such sensitive information Cookie without Same Site Attribute URL: https://www.rentalcars.com Risk: D Low Confidence: Medium
Solution: Whenever a cookie contains sensitive information or is a session token, then it should always be passed using an encrypted channel. Ensure that the secure flag is set for cookies containing such sensitive information Cookie without Same Site Attribute URL: https://www.rentaicars.com Risk: PL tow Confidence: Medium Parameter: U_seed
Solution: Whenever a cookie contains sensitive information or is a session token, then it should always be passed using an encrypted channel. Ensure that the secure flag is set for cookies containing such sensitive information Cookie without Same Site Attribute URL: https://www.rentalcars.com Risk: PLow Confidence: Medium Parameter: tj_seed Attack:
Solution: Whenever a cookie contains sensitive information or is a session token, then it should always be passed using an encrypted channel. Ensure that the secure flag is set for cookies containing such sensitive information Cookie without SameSite Attribute URL: https://www.rentalcars.com Risk: Lou Low Confidence: Medium Parameter: tj_seed Attack: Evidence: Set-Cookie: tj_seed
Solution: Whenever a cookie contains sensitive information or is a session token, then it should always be passed using an encrypted channel. Ensure that the secure flag is set for cookies containing such sensitive information Cookie without Same Site Attribute URL: https://www.rentalcars.com Risk: PL Low Confidence: Medium Parameter: t_seed Attack: Evidence: Set-Cookie: tj_seed CWEID: 1275
Solution: Whenever a cookie contains sensitive information or is a session token, then it should always be passed using an encrypted channel. Ensure that the secure flag is set for cookies containing such sensitive information Cookie without Same Site Attribute URL: https://www.rentalcars.com Risk: PU Low Confidence: Medium Parameter: tj_seed Attack: Evidence: Set-Cookie: tj_seed CWE ID: 1275 WASC ID: 13
Solution: Whenever a cookie contains sensitive information or is a session token, then it should always be passed using an encrypted channel. Ensure that the secure flag is set for cookies containing such sensitive information Cookie without SameSite Attribute URL: https://www.rentaicars.com Risk: PLow Confidence: Medium Parameter: tj_seed Attack: Evidence: Set-Cookie: tj_seed CWE ID: 1275 WASCI ID: 13 Source: Passive (10054 - Cookie without SameSite Attribute)
Solution: Whenever a cookie contains sensitive information or is a session token, then it should always be passed using an encrypted channel. Ensure that the secure flag is set for cookies containing such sensitive information Cookie without SameSite Attribute URL: https://www.rentalcars.com Risk: PL Low Confidence: Medium Parameter: tseed Attack: Evidence: Set-Cookie: tseed CWE ID: 1275 WASC ID: 13 Source: Passive (10054 - Cookie without SameSite Attribute) Alert Reference: 10054-1
Solution: Whenever a cookie contains sensitive information or is a session token, then it should always be passed using an encrypted channel. Ensure that the secure flag is set for cookies containing such sensitive information Cookie without SameSite Attribute URL: https://www.rentalcars.com Risk: \(\triangle \
Solution: Whenever a cookie contains sensitive information or is a session token, then it should always be passed using an encrypted channel. Ensure that the secure flag is set for cookies containing such sensitive information then it should always be passed using an encrypted channel. Ensure that the secure flag is set for cookies containing such sensitive information when the secure flag is set for cookies containing such sensitive information sensitive i
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Solution: Whenever a cookie contains sensitive information or is a session token, then it should always be passed using an encrypted channel. Ensure that the secure flag is set for cookies containing such sensitive information this shows remaining such sensitive information and the secure flag is set for cookies containing such sensitive information this shows remaining such sensitive information and the secure flag is set for cookies containing such sensitive information this shows remaining such sensitive information and the secure flag is set for cookies containing such sensitive information and the secure flag is set for cookies containing such sensitive information and the secure flag is set for cookies containing such sensitive information and the secure flag is set for cookies containing such sensitive information and the secure flag is set for cookies containing such sensitive information and the sensitive information and the secure flag is set for cookies containing such sensitive information and the
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Solution: Whenever a cookie contains sensitive information or is a session token, then it should always be passed using an encrypted channel. Ensure that the secure flag is set for cookies containing such sensitive information Cookie without SameSite Attribute URL: https://www.rentaicars.com Risk: PLow Confidence: Medium Parameter: Juseed Attack: Evidence: Set-Cookie: tj_seed CWE ID: 1275 WASG ID: 1275 WASG ID: 13 Source: Passive (10054 - Cookie without SameSite Attribute) Alert Reference: 10054-1 Input Vector: Description: A cookie has been set without the SameSite attribute, which means that the cookie can be sent as a result of a 'cross-site' request. The SameSite attribute is an effective counter measure to cross-site request forgery, cross-site script inclusion, an timing attacks.
Solution: Whenever a cookie contains sensitive information or is a session token, then it should always be passed using an encrypted channel. Ensure that the secure flag is set for cookies containing such sensitive information to the sensitive inf



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	nain JavaScript Source File Inclusion
URL:	https://www.rentalcars.com
Risk:	No.
Confidence	e: Medium
Parameter	: https://cdn2.rcstatic.com/com.rentalcars.185492029745.eu-west-1.web.prod.static-live/mfs-global-bundle/mfs-global-bundle.3.1.7.js
Attack:	
Evidence:	<script src="https://cdn2.rcstatic.com/com.rentalcars.185492029745.eu-west-1.web.prod.static-live/mfs-global-bundle/mfs-global-bundle.3.1.7.js" type="text/javascript"></script>
CWE ID:	829
WASC ID:	 15
Source:	Passive (10017 - Cross-Domain JavaScript Source File Inclusion)
Input Vector	
Descripti	
The pag	e includes one or more script files from a third-party domain.
Other Inf	X
0-1-6	
Solution:	
Ensure .	lavaScript source files are loaded from only trusted sources, and the sources can't be controlled by end users of the application.
Ensure	lavaScript source files are loaded from only trusted sources, and the sources can't be controlled by end users of the application.
	lavaScript source files are loaded from only trusted sources, and the sources can't be controlled by end users of the application.
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Server Leal URL: Risk: Confidence: Parameter: Attack: Evidence: CWE ID:	ss Version Information via "Server" HTTP Response Header Field https://cs-cdn.deviceatlas.com/dacs-lite.js Low High nginx/1.17.9
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Server Leal URL: Risk: Confidence: Parameter: Attack: Evidence: CWE ID: Source: Input Vector Descriptio The web/a	s Version Information via "Server" HTTP Response Header Field https://cs-cdn.deviceatlas.com/dacs-lite.js Low High nginx/1.17.9 200 13 Passive (10036 - HTTP Server Response Header)
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HTTP/1.1 200 OK Server: nginx/1.17.9 Date: Tue, 30 Apr 2024 19:47:08 GMT Content-Type: application/javascript Content-Length: 9094 Connection: keep-alive Last-Modified: Wed, 24 Jan 2024 11:57:34 GMT ETag: "80ed6d6451f9c2a85e3577cff4549f07" Expires: Tue, 30 Apr 2024 19:47:07 GMT Cache-Control: no-cache X-Cache: HIT Accept-CH: DPR, Width, Viewport-Width, Viewport-Height, Device-Memory, RTT, Downlink, ECT, Lang, Sec-CH-CH-Lang, Sec-CH-UA, Sec-CH-UA-Arch, Sec-CH-UA-Platform, Sec-CH-UA-Platform-Version, Sec-CH-UA-Model, Motion, Sec-CH-Prefers-Reduced-Transparency, Sec-CH-Prefers-Contrast, Sec-CH-Forced-Colors, Sec-CH-* Copyright 2024 DeviceAtlas Limited. All rights reserved. * http://deviceatlas.com var DeviceAtlas=function(e){var t={};function r(n){if(t[n])return t[n].exports;var o=t[n]={i:n, Object.defineProperty(e,t,{enumerable:!0,get:n})},r.r=function(e){"undefined"!=typeof Symbol&&S })),r.t=function(e,t){if(1&t&&(e=r(e)),8&t)return e;if(4&t&&"object"==typeof e&&e&&e.__esModule e)for(var o in e)r.d(n,o,function(t){return e[t]}.bind(null,o));return n},r.n=function(e){var t prototype.hasOwnProperty.call(e,t)},r.p="",r(r.s=15)}([function(e,t){e.exports={criticalPropert

"btml widoo andy" "btml widoo aw1"111 Eurotion/a + alffuso ethict": + a function/a + \f++||E201.

According to the HTTP response header the server is nginx/1.17.9

The are the vulnerabilities which are related to nginx/1.17.9

Remote code execution in nginx -But the patch is available https://www.cybersecurity-help.cz/vdb/SB2021052543

https://www.cybersecurity-help.cz/vdb/SB2022101941

Security restrictions bypass in nginx- The patch is available.

https://www.cybersecurity-help.cz/vdb/SB2022010903

In the following site it contains some vulnerabilities related to this server https://snyk.io/test/docker/nginx%3A1.17.9-alpine



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Strict-Transp	ort-Security Header Not Set
URL:	https://cdn2.rcstatic.com/com.rentalcars.185492029745.eu-west-1.web.prod.static-live/theme-tokens/rentalcars.com/css/tokens.css
Risk	<mark>P</mark> i Low
Confidence:	High
Parameter:	
Attack:	
Evidence:	
CWE ID:	319
WASC ID:	15
Source:	Passive (10035 - Strict-Transport-Security Header)
Alert Reference	pe: 10035-1
Input Vector:	
Description:	
HTTP Strict	Transport Security (HSTS) is a web security policy mechanism whereby a web server declares that complying user agents (such as a web browser) are to interact with it using only secure HTTPS connections (i.e. HTTP layered over
TLS/SSL). H	ISTS is an IETF standards track protocol and is specified in RFC 6797.
Other Info:	
Solution:	
	your web server, application server, load balancer, etc. is configured to enforce Strict-Transport-Security.
Liisule iilai	you web server, apprication server, toda barancer, etc. is confingured to entitle server reactions.

It's widely accepted that HTTPS is far more secure than HTTP. However, if you're encountering the "HSTS missing from HTTPS server" message, then this protocol could be putting your site at risk.

Fortunately, it is possible to close this serious security loophole. Even if you haven't encountered this error message, any site that <u>redirects from HTTP to HTTPS</u> is vulnerable to this exploit. Therefore, it's still wise to take a proactive approach and fix this flaw.

To help keep visitors safe, it's not uncommon for sites to <u>perform HTTPS</u> redirection. This redirection forwards visitors from an HTTP to an HTTPS version of the website.

A user may explicitly enter HTTP into their browser's address bar, or follow a link that points to an HTTP version of the site. In these scenarios, a redirect can prevent malicious third parties from stealing the visitor's data.

However, no technology is perfect. If your site does use HTTPS redirects, then you may be susceptible to a Man-In-The-Middle (MITM) attack known as Secure Sockets Layer (SSL) Stripping. As part of this attack, the hacker will block the redirection request and prevent the browser from loading your

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site over the HTTPS protocol. As a result, the visitor will access your website via HTTP, which makes it much easier for hackers to steal data.

Alternatively, the attacker might intercept the redirect and forward visitors to a clone version of your site. At this point, the hacker can steal any data that the user shares, including passwords and payment information. Some hackers might also try to trick visitors into downloading malicious software.

It's also possible for hackers to steal a session cookie over an unsecured connection, in an attack known as cookie hijacking. These cookies can contain a wealth of information, including usernames, passwords, and even credit card details.

To protect your visitors against these attacks, we recommend enabling
Strict Transport Security (HSTS). This protocol forces the browser to ignore any direct requests and load your site over HTTPS.

For further information visit this site:

https://kinsta.com/knowledgebase/hsts-missing-from-https-server/

How to fix Strict-Transport-Security Header Not Set

Your server should be configured to include the header, e.g.

Strict-Transport-Security: max-age=31536000; includeSubDomains; preload

max-age is the time in seconds indicating how long the browser should remember that a site is accessible via HTTPS only. The time is refreshed (set again to max-age) after each request to the domain. In the example the time is equal to one year.

includeSubDomains indicates that HTTPS restriction is valid for subdomains too (optional, but recommended).

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preload is optional (and not the part of the official specification) and allows you to add your website to a preload list maintained by Google. This means that your domain will be hardcoded in the list and browsers will never try to connect using an insecure connection. Note that it will have permanent consequences and switching back to HTTP may be troublesome.

https://scanrepeat.com/web-security-knowledge-base/strict-transport-security-header-not-set

Timestamp	Disclosure - Unix
URL:	https://www.rentalcars.com
Risk:	Pu Low
Confidence:	Low
Parameter:	
Attack:	
Evidence:	2005179829
CWE ID:	200
WASC ID:	13
Source:	Passive (10096 - Timestamp Disclosure)
Input Vector:	
Description	1:
A timestan	np was disclosed by the application/web server - Unix
	4 ····
Other Info:	
	20. which avaluates to: 2022 07 47 07:52:40
20051798	29, which evaluates to: 2033-07-17 07:53:49
Solution:	
Manually c	onfirm that the timestamp data is not sensitive, and that the data cannot be aggregated to disclose exploitable patterns.

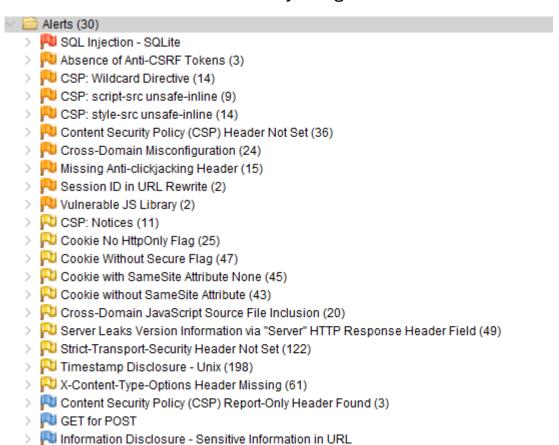


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Once the automated scanner is finished then I moved into manual explore tab and check the site manually the got 30 alerts



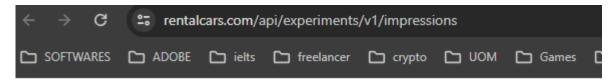


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In here there is SQL injection -SQLite high risk alert now here is that page



Whitelabel Error Page

This application has no explicit mapping for /error, so you are seeing this as a fallback.

Tue Apr 30 21:47:27 UTC 2024

There was an unexpected error (type=Method Not Allowed, status=405).

```
HTTP/1.1 400 Bad Request

Date: Tue, 30 Apr 2024 20:56:03 GMT

Content-Type: application/json

Connection: keep-alive

CF-Ray: 87ca6fae8ee15137-CMB

CF-Cache-Status: DYNAMIC

Set-Cookie: tj_seed=00061bed3248aa137a3c780c4f6000000; Max-Age=31536000; Domain=.rentalcars.com; Path=/; Expires=Wed, 30 Apr 2025 20:56:03 GMT

Strict-Transport-Security: max-age=31536000

referrer-policy: no-referrer-when-downgrade

Set-Cookie: essentials_visitor=%7B%22correlationId%22%3A%221b876fde-6fda-43fb-8311-23634e43876f%22%7D; Domain=.rentalcars.com; Path=/

Set-Cookie: tj_conf="tj_pref_currency:USD[tj_pref_lang:en|tjcor:1k|"; Domain=.rentalcars.com; Path=/; Expires=Thu, 30 May 2024 20:56:03 GMT

Set-Cookie: et_uvi=11UmFuZG9tSVVkc2RIIyh9Yaa29%2F3xUOLbPQWCfhpXVUshTZF2EH%2BkIosJ84qcWJP8862s%2Fm%2FIUsmMcrfiuEPeO0Z7iU7Nvz3q; Max-Age=33696000; Doma x-envoy-upstream-service-time: 18

{"timestamp":"2024-04-30T20:56:03.831+00:00","status":400,"error":"Bad Request","path":"/api/experiments/v1/impressions"}
```

Other errors are quite similar to previous scan.



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Results that were obtained when scanning through the SQLmap.In SQLmap I did the injections to the site that gives the above SQL Injection error.

```
-$ sqlmap -u https://www.rentalcars.com/api/experiments/v1/impressions -a -f --level 5 --risk 2
                            {1.8.3#stable}
                            https://sqlmap.org
 ed legal disclaimer: Usage of sqlmap for attacking targets without prior mutual consent is illegal. It is the end us!
er's responsibility to obey all applicable local, state and federal laws. Developers assume no liability and are not
responsible for any misuse or damage caused by this program
[*] starting @ 03:21:57 /2024-05-01/
[03:21:57] [WARNING] you've provided target URL without any GET parameters (e.g. 'http://www.site.com/article.php?id=
  ) and without providing any POST parameters through option '--data
do you want to try URI injections in the target URL itself? [Y/n/q] Y
03:21:59] [INFO] testing connection to the target URL
03:22:00] [WARNING] the web server responded with an HTTP error code (405) which could interfere with the results of
[03:22:00] [INFO] checking if the target is protected by some kind of WAF/IPS [03:22:00] [CRITICAL] WAF/IPS identified as 'CloudFlare'
03:22:00] [INFO] testing if the target URL content is stable
03:22:00] [WARNING] target URL content is not stable (i.e. content differs). sqlmap will base the page comparison on
a sequence matcher. If no dynamic nor injectable parameters are detected, or in case of junk results, refer to user'
 manual paragraph 'Page comparison'
 ow do you want to proceed? [(C)ontinue/(s)tring/(r)egex/(q)uit] C
```

```
[INFO] testing if URI parameter '#1* is dynamic
[WARNING] URI parameter '#1*' does not appear to be dynamic
03:22:06] [WARNING] heuristic (basic) test shows that URI parameter '#1*' might not be injectable
               [INFO] testing for SQL injection on URI parameter '#1*'
[INFO] testing 'AND boolean-based blind - WHERE or HAVING clause
03:22:071
03:22:08] [INFO] URI parameter '#1*' appears to be 'AND boolean-based blind - WHERE or HAVING clause' injectable
03:22:08] [INFO] heuristic (extended) test shows that the back-end DBMS could be 'Altibase' it looks like the back-end DBMS is 'Altibase'. Do you want to skip test payloads specific for other DBMSes? [Y/n] Y
for the remaining tests, do you want to include all tests for 'Altibase' extending provided risk (2) value? [Y/n] Y
[03:22:17] [INFO] testing 'Generic inline queries'
[03:22:17] [INFO] testing 'Generic UNION query (NULL) - 1 to 20 columns'
[03:22:17] [INFO] automatically extending ranges for UNION query injection technique tests as there is at least one o
03:22:18] [INFO] testing 'Generic UNION query (random number) - 1 to 20 columns
               [INFO] testing 'Generic UNION query (NULL) - 21 to 40 columns'
[INFO] testing 'Generic UNION query (random number) - 21 to 40 columns'
               [INFO] testing 'Generic UNION query (NULL) - 41 to 60 columns
               [INFO] testing
[INFO] testing
                        testing 'Generic UNION query (random number) - 41 to 60 columns' testing 'Generic UNION query (NULL) - 61 to 80 columns'
               [INFO] testing 'Generic UNION query (random number) - 61 to 80 columns'
[INFO] testing 'Generic UNION query (NULL) - 81 to 100 columns'
[INFO] testing 'Generic UNION query (random number) - 81 to 100 columns'
03:22:271
 03:22:27] [WARNING] URI parameter '#1*' does not seem to be injectable
```

In the SQL map says that **AND Boolean-based blind -WHERE or HAVING Clause'** is injectable

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<u>www.rentalcars.com/api/experiments/v1/impressions</u> this is using the backend Altibase.

- Type: Enterprise-grade Open Source database.
- License: Free. As this is a free database, you do not need to purchase any license to use Altibase.
- Subscription: Subscription fees are lower than all mainstream DBMS providers.
- Industry: Enterprise Software
- Headquarters: The company manufacturing this product is known as 'Altibase'. It has two headquarters i.e. Greater New York City, Seoul, South Korea.
- Major Clients: Altibase has its customers in the Telecom, Financial Services, Manufacturing, and Utility Industry. Major clients include China Unicom, Posco, Samsung, HP, Hyundai, Toshiba Medical, and many other world-famous companies.
- Technical Support: 24/7/365 customer service is available globally.
- Scalability: Scales vertically and horizontally.
- User Size: This is suitable for all i.e. Small (<50 employees), Medium (50 to 1000 employees) and Big Enterprises (>1000 employees).

This database does have any direct vulnerability up to now. But there can be indirect vulnerabilities.

https://www.softwaretestinghelp.com/altibase-database-tutorial/



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```
[10:85:27] [INFO] parameter 'Host' appears to be 'AND boolean-based blind - WHERE or HAVING clause' injectable
[10:65:27] [INFO] testing 'Generic inline queries'
[10:65:33] [INFO] testing 'Generic UNION query (NULL) - 1 to 20 columns'
[10:65:34] [INFO] testing 'Generic UNION query (random number) - 1 to 20 columns'
[10:65:34] [INFO] testing 'Generic UNION query (random number) - 1 to 20 columns'
[10:65:34] [INFO] testing 'Generic UNION query (random number) - 1 to 20 columns.
Automatically extending the range for current UNION query injection technique test
[10:05:35] [INFO] target URL appears to have 9 columns in query
[10:10:95:35] [WARRING] if UNION based SQL injection is not detected, please consider and/or try to force the back-end DBMS (e.g. '--dbms-mysql')
[10:19:40] [INFO] testing 'Generic UNION query (NULL) - 21 to 40 columns'
[10:19:45] [INFO] testing 'Generic UNION query (MULL) - 41 to 60 columns'
[10:19:55] [INFO] testing 'Generic UNION query (MULL) - 41 to 60 columns'
[10:19:55] [INFO] testing 'Generic UNION query (MULL) - 61 to 80 columns'
[10:20:08] [INFO] testing 'Generic UNION query (MULL) - 61 to 80 columns'
[10:20:08] [INFO] testing 'Generic UNION query (MULL) - 81 to 100 columns'
[10:20:08] [INFO] testing 'Generic UNION query (MULL) - 81 to 100 columns'
[10:20:08] [INFO] testing 'Generic UNION query (Tandom number) - 61 to 80 columns'
[10:20:08] [INFO] testing 'Generic UNION query (Tandom number) - 81 to 100 columns'
[10:20:09] [INFO] testing 'Generic UNION query (Tandom number) - 81 to 100 columns'
[10:20:19] [WARNING] false positive or unexploitable injection point detected
[10:20:19] [WARNING] alse positive or unexploitable injection point detected
[10:20:19] [WARNING] all tested parameters do not appear to be injectable. Try to increase values for '-level'/'-risk' options if you wish to perform more testing the detection of the standard parameter' Host' does not seem to be injectable. Try to increase values for '-level'/'-risk' options if you wish to perform more testing the detection of
```

The query has 9 columns that data found through this scan.

The results that were obtained from XSStrike



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```
-(dinu_mrx®kali)-[~/XXStrike/XSStrike]
 -$ python3 xsstrike.py -u http://www.rentalcars.com/search.php?q=quer
       XSStrike v3.1.5
[~] Checking for DOM vulnerabilities
[+] Potentially vulnerable objects found
   const decodedCookie = decodeURIComponent(document.cookie);
22 url: window.location.href
32 document.cookie = "rv=1";
40 const visitLogged = typeof document.cookie ≠ "undefined" δδ visito
rCookieValue ≠ "";
14 const ca = document.cookie.split(";");
22 if (c.indexOf(nameEq) == 0 δδ c.indexOf(document.location.host)) {
36 document.cookie = `cps=1;domain=${cookieDomain};max-age=${ONE_TRUST
CONFIG.COOKIE_CONSENT_MAX_AGE}; path=/; `;
37 document.cookie = `cookie_category_exclusions=${exclusionCategoriesS
elected.join(":")};max-age=${ONE_TRUST_CONFIG.COOKIE_CATEGORY_MAX_AGE};p
ath=/; ;
22 if (/\.(?:dev|dqs)\.booking\.com/.test(window.location.origin)) {
26 apHost = "https://account.booking.".concat(/booking\.cn/.test(window
.location.origin) ? 'cn' : 'com');
79 var url = (window δδ window.location) ? window.location.href : '';
80 var hostname = url.index0f('/') > -1 ? url.split('/')[2] : url.split
('/')[0];
81 return (hostname.split(':')[0]).split('?')[0];
```



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```
26 apHost = "https://account.booking.".concat(/booking\.cn/.test(window
.location.origin) ? 'cn' : 'com');
79 var url = (window & window.location) ? window.location.href : '';
80 var hostname = url.indexOf('/') > -1 ? url.split('/')[2] : url.split
('/')[0];
81 return (hostname.split(':')[0]).split('?')[0];
111 document.cookie = "OptanonConsent=" + consent + cookiesDomain + ";pa
th=/;expires=" + expirationDateString + ";samesite=lax;";
113 document.cookie = "OptanonAlertBoxClosed=" + alertBoxClosed + cookie
sDomain + ";path=/;expires=" + expirationDateString + ";samesite=lax;";
137 httpRequest.send(JSON.stringify(Object.assign({ client_type: 'web',
client_id: 'v01Kblk7xX9tUn2cpZLS' }, consent)));
143 document.cookie = "OptanonConsent=" + decodedConsent;
167 sendConsentToAP(Object.assign({
225 document.cookie = "OptanonConsent=" + consentStr + cookiesDomain + "
;path=/;expires=" + expirationDateString + ";samesite=lax;";
323 Object.assign(optanonObject, result.value);
451 window.PCM = Object.assign({
500 var e = document.cookie.split(";");
512 domain = domain || '.' + hostname;
513 document.cookie = name + '=;path=' + path + ';domain=' + domain + ';
expires=Thu, 01 Jan 1970 00:00:01 GMT';
527 if (!shareConsentWithin || hostname ≡ shareConsentWithin) {
538 var iframe = document.createElement('iframe');
539 iframe.src = 'https://' + shareConsentWithin + '/cookiebanner.html';
540 iframe.id = "OTcrossDomain";
541 iframe['frameborder'] = "0";
542 iframe.height = "0";
543 iframe.width = "0";
```



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```
-(dinu mrx® kali)-[~/XXStrike/XSStrike]
 -$ python3 xsstrike.py -u http://www.rentalcars.com/search.php -t 10 --crawl -l 3
       XSStrike v3.1.5
~] Crawling the target
+] Potentially vulnerable objects found at http://www.rentalcars.com/search.php
   const decodedCookie = decodeURIComponent(document.cookie);
22 url: window.location.href
32 document.cookie = "rv=1";
40 const visitLogged = typeof document.cookie ≠ "undefined" 🟍 visitorCookieValue ≠ "
14 const ca = document.cookie.split(";");
22 if (c.indexOf(nameEq) == 0 δδ c.indexOf(document.location.host)) {
36 document.cookie = `cps=1;domain=${cookieDomain};max-age=${ONE_TRUST_CONFIG.COOKIE_CONSEN
_MAX_AGE};path=/; ;
37 document.cookie = `cookie_category_exclusions=${exclusionCategoriesSelected.join(":")};m
ax-age=${ONE_TRUST_CONFIG.COOKIE_CATEGORY_MAX_AGE};path=/;`;
22 if (/\.(?:dev|dqs)\.booking\.com/.test(window.location.origin)) {
26 apHost = "https://account.booking.".concat(/booking\.cn/.test(window.location.origin) ?
79 var url = (window & window.location) ? window.location.href : '';
80 var hostname = url.indexOf('/') > -1 ? url.split('/')[2] : url.split('/')[0];
81 return (hostname.split(':')[0]).split('?')[0];
111 document.cookie = "OptanonConsent=" + consent + cookiesDomain + ";path=/;expires=" + exp
irationDateString + ";samesite=lax;";
113 document.cookie = "OptanonAlertBoxClosed=" + alertBoxClosed + cookiesDomain + ";path=/;e
xpires=" + expirationDateString + ";samesite=lax;";
137 httpRequest.send(JSON.stringify(Object.assign({ client_type: 'web', client_id: 'vO1Kblk7
xX9tUn2cpZLS' }, consent)));
143 document.cookie = "OptanonConsent=" + decodedConsent;
167 sendConsentToAP(Object.assign({
225 document.cookie = "OptanonConsent=" + consentStr + cookiesDomain + ";path=/;expires=" +
expirationDateString + ";samesite=lax;";
323 Object.assign(optanonObject, result.value);
+51 window.PCM = Object.assign({
500 var e = document.cookie.split(";");
512 domain = domain || '.' + hostname;
513 document.cookie = name + '=;path=' + path + ';domain=' + domain + ';expires=Thu, 01 Jan
1970 00:00:01 GMT';
```



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```
xpires=" + expirationDateString + ";samesite=lax;";
137 httpRequest.send(JSON.stringify(Object.assign({ client_type: 'web', client_id: 'v01Kblk7
xX9tUn2cpZLS' }, consent)));
143 document.cookie = "OptanonConsent=" + decodedConsent;
167 sendConsentToAP(Object.assign({
225 document.cookie = "OptanonConsent=" + consentStr + cookiesDomain + ";path=/;expires=" +
expirationDateString + ";samesite=lax;";
323 Object.assign(optanonObject, result.value);
451 window.PCM = Object.assign({
500 var e = document.cookie.split(";");
512 domain = domain | '.' + hostname;
513 document.cookie = name + '=;path=' + path + ';domain=' + domain + ';expires=Thu, 01 Jan
1970 00:00:01 GMT';
527 if (!shareConsentWithin || hostname ≡ shareConsentWithin) {
538 var iframe = document.createElement('iframe');
539 iframe.src = 'https://' + shareConsentWithin + '/cookiebanner.html';
540 iframe.id = "OTcrossDomain";
541 iframe['frameborder'] = "0";
542 iframe.height = "0";
543 iframe.width = "0";
545 iframe.setAttribute('style', style);
546 document.body.appendChild(iframe);
[+] Potentially vulnerable objects found at http://www.rentalcars.com/
    setTimeout(showBlockPage, 10000);
    window.location.reload(true);
 !] Progress: 3/3
```