Website Vulnerability Scanner Report

✔ **https://athenaonline.com/**

Target added due to a redirect from http://www.athenaonline.com

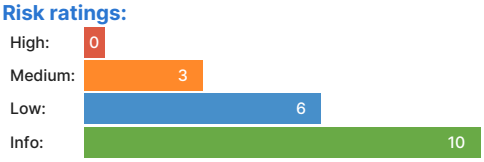
The Light Website Scanner didn't check for critical issues like SQLi, XSS, Command Injection, XXE, etc. Upgrade to run Deep scans with 40+ tests and detect more vulnerabilities.

Summary

Overall risk level:

Medium

Risk ratings:



Scan information:

Start time:	Aug 27, 2024 / 09:42:01 UTC-07
Finish time:	Aug 27, 2024 / 09:42:54 UTC-07
Scan duration:	53 sec
Tests performed:	19/19
Scan status:	Finished

Findings

Insecure cookie setting: missing HttpOnly flag

CONFIRMED

URL	Cookie Name	Evidence
https://athenaonline.com/	ASPSESSIONIDCWTBQCRA	The server responded with Set-Cookie header(s) that does not specify the HttpOnly flag: Set-Cookie: ASPSESSIONIDCWTBQCRA=ONKFEODCHLOANOHGJBMCIEDA Request / Response

Details

Risk description:

The risk is that an attacker who injects malicious JavaScript code on the page (e.g. by using an XSS attack) can access the cookie and can send it to another site. In case of a session cookie, this could lead to session hijacking.

Recommendation:

Ensure that the HttpOnly flag is set for all cookies.

References:

https://owasp.org/www-community/HttpOnly

Classification:

CWE : CWE-1004
OWASP Top 10 - 2017 : A6 - Security Misconfiguration
OWASP Top 10 - 2021 : A5 - Security Misconfiguration

Insecure cookie setting: missing Secure flag

CONFIRMED

URL	Cookie Name	Evidence
https://athenaonline.com/partnerinquiry	ASP.NET_SessionId	Set-Cookie: ASP.NET_SessionId=2pt4mh5zjxu3ecsyorts45rq; path=/; HttpOnly; SameSite=Lax Request / Response

Details

Risk description:
The risk exists that an attacker will intercept the clear-text communication between the browser and the server and he will steal the cookie of the user. If this is a session cookie, the attacker could gain unauthorized access to the victim's web session.

Recommendation:
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.

References:
https://owasp.org/www-project-web-security-testing-guide/stable/4-Web_Application_Security_Testing/06-Session_Management_Testing/02-Testing_for_Cookies_Attributes.html

Classification:
CWE : CWE-614
OWASP Top 10 - 2017 : A6 - Security Misconfiguration
OWASP Top 10 - 2021 : A5 - Security Misconfiguration

Vulnerabilities found for server-side software

UNCONFIRMED

Risk Level	CVSS	CVE	Summary	Affected software
	4.3	CVE-2018-14040	In Bootstrap before 4.1.2, XSS is possible in the collapse data-parent attribute.	bootstrap 3.3.7
	4.3	CVE-2018-14042	In Bootstrap before 4.1.2, XSS is possible in the data-container property of tooltip.	bootstrap 3.3.7
	4.3	CVE-2016-10735	In Bootstrap 3.x before 3.4.0 and 4.x-beta before 4.0.0-beta.2, XSS is possible in the data-target attribute, a different vulnerability than CVE-2018-14041.	bootstrap 3.3.7
	4.3	CVE-2018-20676	In Bootstrap before 3.4.0, XSS is possible in the tooltip data-viewport attribute.	bootstrap 3.3.7
	4.3	CVE-2018-20677	In Bootstrap before 3.4.0, XSS is possible in the affix configuration target property.	bootstrap 3.3.7
	4.3	CVE-2015-9251	jQuery before 3.0.0 is vulnerable to Cross-site Scripting (XSS) attacks when a cross-domain Ajax request is performed without the dataType option, causing text/javascript responses to be executed.	jquery 1.10.2
	4.3	CVE-2019-11358	jQuery before 3.4.0, as used in Drupal, Backdrop CMS, and other products, mishandles jQuery.extend(true, {}, ...) because of Object.prototype pollution. If an unsanitized source object contained an enumerable __proto__ property, it could extend the native Object.prototype.	jquery 1.10.2
	4.3	CVE-2020-11023	In jQuery versions greater than or equal to 1.0.3 and before 3.5.0, passing HTML containing <option> elements from untrusted sources - even after sanitizing it - to one of jQuery's DOM manipulation methods (i.e. .html(), .append(), and others) may execute untrusted code. This problem is patched in jQuery 3.5.0.	jquery 1.10.2
	4.3	CVE-2020-11022	In jQuery versions greater than or equal to 1.2 and before 3.5.0, passing HTML from untrusted sources - even after sanitizing it - to one of jQuery's DOM manipulation methods (i.e. .html(), .append(), and others) may execute untrusted code. This problem is patched in jQuery 3.5.0.	jquery 1.10.2

Details

Risk description:
The risk is that an attacker could search for an appropriate exploit (or create one himself) for any of these vulnerabilities and use it to attack the system.

Recommendation:
We recommend you to upgrade the affected software to the latest version in order to eliminate the risk of these vulnerabilities.

Classification:
CWE : CWE-1026
OWASP Top 10 - 2017 : A9 - Using Components with Known Vulnerabilities
OWASP Top 10 - 2021 : A6 - Vulnerable and Outdated Components

Missing security header: X-Content-Type-Options

CONFIRMED

URL	Evidence
https://athenaonline.com/	Response headers do not include the X-Content-Type-Options HTTP security header Request / Response

Details

Risk description:
The risk is that lack of this header could make possible attacks such as Cross-Site Scripting or phishing in Internet Explorer browsers.

Recommendation:
We recommend setting the X-Content-Type-Options header such as `X-Content-Type-Options: nosniff` .

References:
https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Content-Type-Options

Classification:
CWE : CWE-693
OWASP Top 10 - 2017 : A6 - Security Misconfiguration
OWASP Top 10 - 2021 : A5 - Security Misconfiguration

Missing security header: Content-Security-Policy

CONFIRMED

URL	Evidence
https://athenaonline.com/	Response does not include the HTTP Content-Security-Policy security header or meta tag Request / Response

Details

Risk description:
The risk is that if the target application is vulnerable to XSS, lack of this header makes it easily exploitable by attackers.

Recommendation:
Configure the Content-Security-Header to be sent with each HTTP response in order to apply the specific policies needed by the application.

References:
https://cheatsheetseries.owasp.org/cheatsheets/Content_Security_Policy_Cheat_Sheet.html
https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Content-Security-Policy

Classification:
CWE : CWE-693
OWASP Top 10 - 2017 : A6 - Security Misconfiguration
OWASP Top 10 - 2021 : A5 - Security Misconfiguration

Missing security header: Strict-Transport-Security

CONFIRMED

URL	Evidence
https://athenaonline.com/	Response headers do not include the HTTP Strict-Transport-Security header Request / Response

Details

Risk description:
The risk is that lack of this header permits an attacker to force a victim user to initiate a clear-text HTTP connection to the server, thus opening the possibility to eavesdrop on the network traffic and extract sensitive information (e.g. session cookies).

Recommendation:
The Strict-Transport-Security HTTP header should be sent with each HTTPS response. The syntax is as follows:

```
Strict-Transport-Security: max-age=<seconds>[; includeSubDomains]
```

The parameter `max-age` gives the time frame for requirement of HTTPS in seconds and should be chosen quite high, e.g. several months. A value below 7776000 is considered as too low by this scanner check.
The flag `includeSubDomains` defines that the policy applies also for sub domains of the sender of the response.

Classification:

CWE : CWE-693
OWASP Top 10 - 2017 : A6 - Security Misconfiguration
OWASP Top 10 - 2021 : A5 - Security Misconfiguration

Missing security header: Referrer-Policy

CONFIRMED

URL	Evidence
https://athenaonline.com/	Response headers do not include the Referrer-Policy HTTP security header as well as the <meta> tag with name 'referrer' is not present in the response. Request / Response

Details

Risk description:
The risk is that if a user visits a web page (e.g. "http://example.com/pricing/") and clicks on a link from that page going to e.g. "https://www.google.com", the browser will send to Google the full originating URL in the `Referer` header, assuming the Referrer-Policy header is not set. The originating URL could be considered sensitive information and it could be used for user tracking.

Recommendation:
The Referrer-Policy header should be configured on the server side to avoid user tracking and inadvertent information leakage. The value `no-referrer` of this header instructs the browser to omit the Referer header entirely.

References:
https://developer.mozilla.org/en-US/docs/Web/Security/Referer_header:_privacy_and_security_concerns

Classification:
CWE : CWE-693
OWASP Top 10 - 2017 : A6 - Security Misconfiguration
OWASP Top 10 - 2021 : A5 - Security Misconfiguration

Robots.txt file found

CONFIRMED

URL
https://athenaonline.com/robots.txt

Details

Risk description:
There is no particular security risk in having a robots.txt file. However, it's important to note that adding endpoints in it should not be considered a security measure, as this file can be directly accessed and read by anyone.

Recommendation:
We recommend you to manually review the entries from robots.txt and remove the ones which lead to sensitive locations in the website (ex. administration panels, configuration files, etc).

References:
https://www.theregister.co.uk/2015/05/19/robotstxt/

Classification:
OWASP Top 10 - 2017 : A6 - Security Misconfiguration
OWASP Top 10 - 2021 : A5 - Security Misconfiguration

Server software and technology found

UNCONFIRMED

Software / Version	Category
Facebook Pixel 2.9.166	Analytics
Clicky	Analytics
Google Analytics UA	Analytics
Google Font API	Font scripts
jQuery UI	JavaScript libraries

AOS	JavaScript libraries
Windows Server	Operating systems
Google Tag Manager	Tag managers
Linkedin Ads	Advertising
Linkedin Insight Tag	Analytics
ASP	Web frameworks
Bootstrap 3.3.7	UI frameworks
jQuery 1.10.2	JavaScript libraries
Preact	JavaScript libraries
Sectigo	SSL/TLS certificate authorities
Microsoft ASP.NET 4.0.30319	Web frameworks
reCAPTCHA	Security
HubSpot	Marketing automation
HubSpot Analytics	Analytics
IIS 8.5	Web servers
Osano	Cookie compliance

Details

Risk description:
The risk is that an attacker could use this information to mount specific attacks against the identified software type and version.

Recommendation:
We recommend you to eliminate the information which permits the identification of software platform, technology, server and operating system: HTTP server headers, HTML meta information, etc.

References:
https://owasp.org/www-project-web-security-testing-guide/stable/4-Web_Application_Security_Testing/01-Information_Gathering/02-Fingerprint_Web_Server.html

Classification:
OWASP Top 10 - 2017 : A6 - Security Misconfiguration
OWASP Top 10 - 2021 : A5 - Security Misconfiguration

HTTP OPTIONS enabled

CONFIRMED

URL	Method	Summary
https://athenaonline.com/	OPTIONS	We did a HTTP OPTIONS request. The server responded with a 200 status code and the header: `Allow: OPTIONS, TRACE, GET, HEAD, POST` Request / Response

Details

Risk description:
The only risk this might present nowadays is revealing debug HTTP methods that can be used on the server. This can present a danger if any of those methods can lead to sensitive information, like authentication information, secret keys.

Recommendation:
We recommend that you check for unused HTTP methods or even better, disable the OPTIONS method. This can be done using your webserver configuration.

References:

https://techcommunity.microsoft.com/t5/iis-support-blog/http-options-and-default-page-vulnerabilities/ba-p/1504845
https://docs.nginx.com/nginx-management-suite/acm/how-to/policies/allowed-http-methods/

Classification:

CWE : CWE-16
OWASP Top 10 - 2017 : A6 - Security Misconfiguration
OWASP Top 10 - 2021 : A5 - Security Misconfiguration

website is accessible.

Nothing was found for client access policies.

Nothing was found for absence of the security.txt file.

Nothing was found for use of untrusted certificates.

Nothing was found for enabled HTTP debug methods.

Nothing was found for secure communication.

Nothing was found for directory listing.

Nothing was found for domain too loose set for cookies.

Nothing was found for unsafe HTTP header Content Security Policy.

Scan coverage information

List of tests performed (19/19)

- Starting the scan...
- Checking for HttpOnly flag of cookie...
- Checking for missing HTTP header - X-Content-Type-Options...
- Checking for missing HTTP header - Content Security Policy...
- Checking for missing HTTP header - Strict-Transport-Security...
- Checking for missing HTTP header - Referrer...
- Checking for Secure flag of cookie...
- Checking for website technologies...
- Checking for vulnerabilities of server-side software...
- Checking for client access policies...
- Checking for robots.txt file...
- Checking for absence of the security.txt file...
- Checking for use of untrusted certificates...
- Checking for enabled HTTP debug methods...
- Checking for enabled HTTP OPTIONS method...
- Checking for secure communication...
- Checking for directory listing...
- Checking for domain too loose set for cookies...
- Checking for unsafe HTTP header Content Security Policy...

Scan parameters

Target:	https://athenaonline.com/
Scan type:	Light
Authentication:	False

Scan stats

Unique Injection Points Detected:	50
URLs spidered:	12
Total number of HTTP requests:	21
Average time until a response was received:	247ms