

Site: http://localhost:3000

Generated on Mon, 2 Oct 2023 23:46:28

ZAP Version: 2.13.0

Summary of Alerts

Risk Level	Number of Alerts
High	0
Medium	4
Low	3
Informational	2

Alerts

Name	Risk Level	Number of Instances
CSP: Wildcard Directive	Medium	2
Content Security Policy (CSP) Header Not Set	Medium	2
Cross-Domain Misconfiguration	Medium	9
Missing Anti-clickjacking Header	Medium	2
Cross-Domain JavaScript Source File Inclusion	Low	2
Server Leaks Information via "X-Powered-By" HTTP Response Header Field(s)	Low	9
X-Content-Type-Options Header Missing	Low	6
Information Disclosure - Suspicious Comments	Informational	4
Modern Web Application	Informational	2

Alert Detail

Medium	CSP: Wildcard Directive
Description	Content Security Policy (CSP) is an added layer of security that helps to detect and mitigate certain types of attacks. Including (but not limited to) 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.
URL	http://localhost:3000/sitemap.xml
Method	GET
Attack	
Evidence	default-src 'none'
Other	The following directives either allow wildcard sources (or ancestors), are not defined, or are overly broadly defined: frame-ancestors, form-action The directive(s): frame-ancestors,

Info	form-action are among the directives that do not fallback to default-src, missing/excluding them is the same as allowing anything.
URL	http://localhost:3000/src/Component/Images/Coloration.png
Method	GET
Attack	
Evidence	default-src 'none'
Other Info	The following directives either allow wildcard sources (or ancestors), are not defined, or are overly broadly defined: frame-ancestors, form-action The directive(s): frame-ancestors, form-action are among the directives that do not fallback to default-src, missing/excluding them is the same as allowing anything.
Instances	2
Solution	Ensure that your web server, application server, load balancer, etc. is properly configured to set the Content-Security-Policy header.
Reference	http://www.w3.org/TR/CSP2/ http://www.w3.org/TR/CSP/ http://caniuse.com/#search=content+security+policy http://content-security-policy.com/ https://github.com/shapesecurity/salvation https://developers.google.com/web/fundamentals/security /csp#policy applies to a wide variety of resources
CWE Id	<u>693</u>
WASC Id	15
Plugin Id	<u>10055</u>
Medium	Content Security Policy (CSP) Header Not Set
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.
URL	http://localhost:3000
Method	GET
Attack	
Evidence	
Other Info	
URL	http://localhost:3000/
Method	GET
Attack	
Evidence	
Other Info	
Instances	2
Solution	Ensure that your web server, application server, load balancer, etc. is configured to set the Content-Security-Policy header.
	https://developer.mozilla.org/en-US/docs/Web/Security/CSP /Introducing Content Security Policy https://cheatsheetseries.owasp.org/cheatsheets/Content Security Policy Cheat Sheet.html
Reference	http://www.w3.org/TR/CSP/

	http://w3c.github.io/webappsec/specs/content-security-policy/csp-specification.dev.html http://www.html5rocks.com/en/tutorials/security/content-security-policy/
	http://caniuse.com/#feat=contentsecuritypolicy
014/5 1 1	http://content-security-policy.com/
CWE Id	<u>693</u>
WASC Id	15
Plugin Id	10038
Medium	Cross-Domain Misconfiguration
Description	Web browser data loading may be possible, due to a Cross Origin Resource Sharing (CORS) misconfiguration on the web server
URL	http://localhost:3000
Method	GET
Attack	
Evidence	Access-Control-Allow-Origin: *
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 IP address white-listing.
URL	http://localhost:3000/
Method	GET
Attack	
Evidence	Access-Control-Allow-Origin: *
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 IP address white-listing.
URL	http://localhost:3000/favicon.png
Method	GET
Attack	
Evidence	Access-Control-Allow-Origin: *
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 IP address white-listing.
URL	http://localhost:3000/logo192.png
Method	GET
Attack	
Evidence	Access-Control-Allow-Origin: *
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 IP address white-listing.
URL	http://localhost:3000/manifest.json

Method	GET
Attack	
Evidence	Access-Control-Allow-Origin: *
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 IP address white-listing.
URL	http://localhost:3000/robots.txt
Method	GET
Attack	
Evidence	Access-Control-Allow-Origin: *
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 IP address white-listing.
URL	http://localhost:3000/sitemap.xml
Method	GET
Attack	
Evidence	Access-Control-Allow-Origin: *
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 IP address white-listing.
URL	http://localhost:3000/src/Component/Images/Coloration.png
Method	GET
Attack	
Evidence	Access-Control-Allow-Origin: *
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 IP address white-listing.
URL	http://localhost:3000/static/js/bundle.js
Method	GET
Attack	
Evidence	Access-Control-Allow-Origin: *
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 IP address white-listing.
Instances	9
	Ensure that sensitive data is not available in an unauthenticated manner (using IP address white-listing, for instance).

Solution	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.
Reference	https://vulncat.fortify.com/en/detail?id=desc.config.dotnet. html5_overly_permissive_cors_policy
CWE Id	<u>264</u>
WASC Id	14
Plugin Id	10098
Medium	Missing Anti-clickjacking Header
Description	The response does not include either Content-Security-Policy with 'frame-ancestors' directive or X-Frame-Options to protect against 'ClickJacking' attacks.
URL	http://localhost:3000
Method	GET
Attack	
Evidence	
Other Info	
URL	http://localhost:3000/
Method	GET
Attack	
Evidence	
Other	
Info	
Instances	2
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. If you 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
Defenses	to be framed, you should use DENY. Alternatively consider implementing Content Security Policy's "frame-ancestors" directive.
Reference	to be framed, you should use DENY. Alternatively consider implementing Content Security Policy's "frame-ancestors" directive. https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Frame-Options
CWE Id	to be framed, you should use DENY. Alternatively consider implementing Content Security Policy's "frame-ancestors" directive. https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Frame-Options 1021
CWE Id WASC Id	to be framed, you should use DENY. Alternatively consider implementing Content Security Policy's "frame-ancestors" directive. https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Frame-Options 1021 15
CWE Id	to be framed, you should use DENY. Alternatively consider implementing Content Security Policy's "frame-ancestors" directive. https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Frame-Options 1021
CWE Id WASC Id	to be framed, you should use DENY. Alternatively consider implementing Content Security Policy's "frame-ancestors" directive. https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Frame-Options 1021 15
CWE Id WASC Id Plugin Id	to be framed, you should use DENY. Alternatively consider implementing Content Security Policy's "frame-ancestors" directive. https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Frame-Options 1021 15 10020
CWE Id WASC Id Plugin Id Low	to be framed, you should use DENY. Alternatively consider implementing Content Security Policy's "frame-ancestors" directive. https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Frame-Options 1021 15 10020 Cross-Domain JavaScript Source File Inclusion
CWE Id WASC Id Plugin Id Low Description	to be framed, you should use DENY. Alternatively consider implementing Content Security Policy's "frame-ancestors" directive. https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Frame-Options 1021 15 10020 Cross-Domain JavaScript Source File Inclusion The page includes one or more script files from a third-party domain.
CWE Id WASC Id Plugin Id Low Description URL	to be framed, you should use DENY. Alternatively consider implementing Content Security Policy's "frame-ancestors" directive. https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Frame-Options 1021 15 10020 Cross-Domain JavaScript Source File Inclusion The page includes one or more script files from a third-party domain. http://localhost:3000
CWE Id WASC Id Plugin Id Low Description URL Method	to be framed, you should use DENY. Alternatively consider implementing Content Security Policy's "frame-ancestors" directive. https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Frame-Options 1021 15 10020 Cross-Domain JavaScript Source File Inclusion The page includes one or more script files from a third-party domain. http://localhost:3000
CWE Id WASC Id Plugin Id Low Description URL Method Attack	to be framed, you should use DENY. Alternatively consider implementing Content Security Policy's "frame-ancestors" directive. https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Frame-Options 1021 15 10020 Cross-Domain JavaScript Source File Inclusion The page includes one or more script files from a third-party domain. http://localhost:3000 GET
CWE Id WASC Id Plugin Id Low Description URL Method Attack Evidence Other	to be framed, you should use DENY. Alternatively consider implementing Content Security Policy's "frame-ancestors" directive. https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Frame-Options 1021 15 10020 Cross-Domain JavaScript Source File Inclusion The page includes one or more script files from a third-party domain. http://localhost:3000 GET
CWE Id WASC Id Plugin Id Low Description URL Method Attack Evidence Other Info	to be framed, you should use DENY. Alternatively consider implementing Content Security Policy's "frame-ancestors" directive. https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Frame-Options 1021 15 10020 Cross-Domain JavaScript Source File Inclusion The page includes one or more script files from a third-party domain. http://localhost:3000 GET

Attack	
Evidence	<pre><script src="https://accounts.google.com/gsi/client"></script></pre>
Other Info	
Instances	2
Solution	Ensure JavaScript source files are loaded from only trusted sources, and the sources can't be controlled by end users of the application.
Reference	
CWE Id	829
WASC Id	15
Plugin Id	10017
Low	Server Leaks Information via "X-Powered-By" HTTP Response Header Field(s)
Description	The web/application server is leaking information via one or more "X-Powered-By" HTTP response headers. Access to such information may facilitate attackers identifying other frameworks/components your web application is reliant upon and the vulnerabilities such components may be subject to.
URL	http://localhost:3000
Method	GET
Attack	
Evidence	X-Powered-By: Express
Other Info	
URL	http://localhost:3000/
Method	GET
Attack	
Evidence	X-Powered-By: Express
Other Info	
URL	http://localhost:3000/favicon.png
Method	GET
Attack	
Evidence	X-Powered-By: Express
Other Info	
URL	http://localhost:3000/logo192.png
Method	GET
Attack	
Evidence	X-Powered-By: Express
Other Info	
URL	http://localhost:3000/manifest.json
Method	GET
Attack	
Evidence	X-Powered-By: Express
Other	

Info	
URL	http://localhost:3000/robots.txt
Method	GET
Attack	
Evidence	X-Powered-By: Express
Other Info	
URL	http://localhost:3000/sitemap.xml
Method	GET
Attack	
Evidence	X-Powered-By: Express
Other Info	
URL	http://localhost:3000/src/Component/Images/Coloration.png
Method	GET
Attack	
Evidence	X-Powered-By: Express
Other Info	
URL	http://localhost:3000/static/js/bundle.js
Method	GET
Attack	
Evidence	X-Powered-By: Express
Other Info	
Instances	9
Solution	Ensure that your web server, application server, load balancer, etc. is configured to suppress "X-Powered-By" headers.
Reference	http://blogs.msdn.com/b/varunm/archive/2013/04/23/remove-unwanted-http-response- headers.aspx http://www.troyhunt.com/2012/02/shhh-dont-let-your-response-headers.html
CWE Id	<u>200</u>
WASC Id	13
Plugin Id	10037
Low	X-Content-Type-Options Header Missing
Description	The Anti-MIME-Sniffing header X-Content-Type-Options was not set to 'nosniff'. This allows older versions of Internet Explorer and Chrome to perform MIME-sniffing on the response body, potentially causing the response body to be interpreted and displayed as a content type other than the declared content type. Current (early 2014) and legacy versions of Firefox will use the declared content type (if one is set), rather than performing MIME-sniffing.
URL	http://localhost:3000
Method	GET
Attack	
Evidence	
	This issue still applies to error type pages (401, 403, 500, etc.) as those pages are often still

Other	affected by injection issues, in which case there is still concern for browsers sniffing pages
Info	away from their actual content type. At "High" threshold this scan rule will not alert on client or server error responses.
URL	http://localhost:3000/
Method	GET
Attack	
Evidence	
Other Info	This issue still applies to error type pages (401, 403, 500, etc.) as those pages are often still affected by injection issues, in which case there is still concern for browsers sniffing pages away from their actual content type. At "High" threshold this scan rule will not alert on client or server error responses.
URL	http://localhost:3000/favicon.png
Method	GET
Attack	
Evidence	
Other Info	This issue still applies to error type pages (401, 403, 500, etc.) as those pages are often still affected by injection issues, in which case there is still concern for browsers sniffing pages away from their actual content type. At "High" threshold this scan rule will not alert on client or server error responses.
URL	http://localhost:3000/logo192.png
Method	GET
Attack	
Evidence	
Other Info	This issue still applies to error type pages (401, 403, 500, etc.) as those pages are often still affected by injection issues, in which case there is still concern for browsers sniffing pages away from their actual content type. At "High" threshold this scan rule will not alert on client or server error responses.
URL	http://localhost:3000/manifest.json
Method	GET
Attack	
Evidence	
Other Info	This issue still applies to error type pages (401, 403, 500, etc.) as those pages are often still affected by injection issues, in which case there is still concern for browsers sniffing pages away from their actual content type. At "High" threshold this scan rule will not alert on client or server error responses.
URL	http://localhost:3000/robots.txt
Method	GET
Attack	
Evidence	
Other Info	This issue still applies to error type pages (401, 403, 500, etc.) as those pages are often still affected by injection issues, in which case there is still concern for browsers sniffing pages away from their actual content type. At "High" threshold this scan rule will not alert on client or server error responses.
Instances	6
Solution	Ensure that the application/web server sets the Content-Type header appropriately, and that it sets the X-Content-Type-Options header to 'nosniff' for all web pages. If possible, ensure that the end user uses a standards-compliant and modern web browser that does not perform MIME-sniffing at all, or that can be directed by the web application /web server to not perform MIME-sniffing.

Reference	http://msdn.microsoft.com/en-us/library/ie/gg622941%28v=vs.85%29.aspx https://owasp.org/www-community/Security_Headers
CWE Id	693
WASC Id	15
Plugin Id	10021

Plugin Id	10021
Plugili lu	<u>1002 I</u>
Informational	Information Disclosure - Suspicious Comments
Description	The response appears to contain suspicious comments which may help an attacker. Note: Matches made within script blocks or files are against the entire content not only comments.
URL	http://localhost:3000
Method	GET
Attack	
Evidence	from
Other Info	The following pattern was used: \bFROM\b and was detected in the element starting with: " Notice the use of in the tags above. It will be replaced with the URL of the `public` folder during the buil", see evidence field for the suspicious comment/snippet.</td
URL	http://localhost:3000
Method	GET
Attack	
Evidence	user
Other Info	The following pattern was used: \bUSER\b and was detected in the element starting with: " manifest.json provides metadata used when your web app is installed on a user's mobile device or desktop. See", see evidence field for the suspicious comment/snippet.</td
URL	http://localhost:3000/
Method	GET
Attack	
Evidence	from
Other Info	The following pattern was used: \bFROM\b and was detected in the element starting with: " Notice the use of in the tags above. It will be replaced with the URL of the `public` folder during the buil", see evidence field for the suspicious comment/snippet.</td
URL	http://localhost:3000/
Method	GET
Attack	
Evidence	user
Other Info	The following pattern was used: \bUSER\b and was detected in the element starting with: " manifest.json provides metadata used when your web app is installed on a user's mobile device or desktop. See", see evidence field for the suspicious comment/snippet.</td
Instances	4
Solution	Remove all comments that return information that may help an attacker and fix any underlying problems they refer to.
Reference	
CWE Id	200
WASC Id	13
Plugin Id	10027

LIGECTINION	ation appears to be a modern web application. If you need to explore it lly then the Ajax Spider may well be more effective than the standard one.

URL	http://localhost:3000
Method	GET
Attack	
Evidence	<script src="https://accounts.google.com/gsi/client"></script>
Other Info	No links have been found while there are scripts, which is an indication that this is a modern web application.
URL	http://localhost:3000/
Method	GET
Attack	
Evidence	<script src="https://accounts.google.com/gsi/client"></script>
Other Info	No links have been found while there are scripts, which is an indication that this is a modern web application.
Instances	2
Solution	This is an informational alert and so no changes are required.
Reference	
CWE Id	
WASC Id	
Plugin Id	10109