

Sites: https://192.168.0.16:8050 https://192.168.0.16:4200

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Summary of Alerts

Risk Level	Number of Alerts
High	0
Medium	5
Low	5
Informational	1

Alerts

Name	Risk Level	Number of Instances
Buffer Overflow	Medium	3
CSP: Wildcard Directive	Medium	3
Cross-Domain Misconfiguration	Medium	11
Format String Error	Medium	2
Missing Anti-clickjacking Header	Medium	2
Cross Site Scripting Weakness (Reflected in JSON Response)	Low	6
Incomplete or No Cache-control Header Set	Low	2
Server Leaks Information via "X-Powered-By" HTTP Response Header Field(s)	Low	11
<u>Timestamp Disclosure - Unix</u>	Low	7
X-Content-Type-Options Header Missing	Low	8
Information Disclosure - Suspicious Comments	Informational	3

Alert Detail

Medium	Buffer Overflow
Description	Buffer overflow errors are characterized by the overwriting of memory spaces of the background
URL	https://192.168.0.16:8050/product/createProduct
Method	POST
Attack	On QPut Ay Fyiuf DSwhx Av Rb Dbu FUBHWqGfbMJTIGWeewvKtCZ jsGTjIOHGY ixokkiMKXbWNZLOW for the property of the
Evidence	Connection: close
URL	https://192.168.0.16:8050/product/updateProductImage
Method	POST
Attack	LglWlNqdmhWPMyuxxUbyaJmNmxvRVQMSPMKJrvUVgSBcvDbkkgYJFjDNAvLSXlTqxyaxAhrander (All Market Ma
Evidence	Connection: close

URL	https://192.168.0.16:8050/product/updateProductInfo
Method	POST
Attack	MpDZ imQkFxDgKnjfuCjeAluJFAORAkmUcnsAbiGWiJPHBPMUwMUAfXHdilkriDPWPFbuvhoEquilibritation and the properties of the prop
Evidence	Connection: close
Instances	3
Solution	Rewrite the background program using proper return length checking. This will require a recom
Reference	https://owasp.org/www-community/attacks/Buffer_overflow_attack
CWE Id	120
WASC Id	7
Plugin Id	30001
Medium	CSP: Wildcard Directive
	The following directives either allow wildcard sources (or ancestors), are not defined, or are overly broadly defined:
Description	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.
URL	https://192.168.0.16:4200/robots.txt
Method	GET
Attack	
Evidence	default-src 'none'
URL	https://192.168.0.16:4200/sitemap.xml
Method	GET
Attack	
Evidence	default-src 'none'
URL	https://192.168.0.16:4200/ws
Method	GET
Attack	
Evidence	default-src 'none'
Instances	3
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://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	Cross-Domain Misconfiguration
Description	Web browser data loading may be possible, due to a Cross Origin Resource Sharing (CORS) misconfiguration on the web server

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URL https://192.168.0.16:4200/sitemap.xml	Attack	
· · · · · · · · · · · · · · · · · · ·	Evidence	Access-Control-Allow-Origin: *
Method GET	URL	https://192.168.0.16:4200/sitemap.xml
	Method	GET
Attack	Attack	
Evidence Access-Control-Allow-Origin: *	Evidence	Access-Control-Allow-Origin: *
URL https://192.168.0.16:4200/styles.css	URL	https://192.168.0.16:4200/styles.css
Method GET		GET
Attack	Attack	
Evidence Access-Control-Allow-Origin: *		
URL https://192.168.0.16:4200/styles.js		
Method GET		GET
Attack		
Evidence Access-Control-Allow-Origin: *		
URL https://192.168.0.16:4200/ws	URL	https://192.168.0.16:4200/ws

Method	GET
Attack	
Evidence	Access-Control-Allow-Origin: *
Instances	11
	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	<u>10098</u>
Medium	Format String Error
Description	A Format String error occurs when the submitted data of an input string is evaluated as a command by the application.
URL	https://192.168.0.16:8050/product/updateProductImage
Method	POST
Attack	ZAP%n%s%n%s%n%s%n%s%n%s%n%s%n%s%n%s%n%s%n%
Evidence	
URL	https://192.168.0.16:8050/product/updateProductInfo
Method	POST
Attack	ZAP%n%s%n%s%n%s%n%s%n%s%n%s%n%s%n%s%n%s%n%
Evidence	
Instances	2
Solution	Rewrite the background program using proper deletion of bad character strings. This will require a recompile of the background executable.
Reference	https://owasp.org/www-community/attacks/Format_string_attack
CWE Id	<u>134</u>
WASC Id	6
Plugin Id	30002
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	https://192.168.0.16:4200
Method	GET
Attack	
Evidence	
URL	https://192.168.0.16:4200/
Method	GET
Attack	
Evidence	

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 Policy's "frame-ancestors" directive.
Reference	https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Frame-Options
CWE Id	<u>1021</u>
WASC Id	15
Plugin Id	10020
Low	Cross Site Scripting Weakness (Reflected in JSON Response)
Description	A XSS attack was reflected in a JSON response, this might leave content consumers vulnerable to attack if they don't appropriately handle the data (response).
URL	https://192.168.0.16:8050/auth/update
Method	POST
Attack	<scrlpt>alert(1);</scrlpt>
Evidence	
URL	https://192.168.0.16:8050/product/createProduct
Method	POST
Attack	<scrlpt>alert(1);</scrlpt>
Evidence	
URL	https://192.168.0.16:8050/product/updateProductInfo
Method	POST
Attack	<scrlpt>alert(1);</scrlpt>
Evidence	
URL	https://192.168.0.16:8050/product/updateProductInfo
Method	POST
Attack	<scrlpt>alert(1);</scrlpt>
Evidence	
URL	https://192.168.0.16:8050/product/updateProductInfo
Method	POST
Attack	<scrlpt>alert(1);</scrlpt>
Evidence	
URL	https://192.168.0.16:8050/product/updateProductInfo
Method	POST
Attack	<scrlpt>alert(1);</scrlpt>
Evidence	
Instances	6
	Phase: Architecture and Design
	Use a vetted library or framework that does not allow this weakness to occur or provides constructs that make this weakness easier to avoid.

Examples of libraries and frameworks that make it easier to generate properly encoded output include Microsoft's Anti-XSS library, the OWASP ESAPI Encoding module, and Apache Wicket.

Phases: Implementation; Architecture and Design

Understand the context in which your data will be used and the encoding that will be expected. This is especially important when transmitting data between different components, or when generating outputs that can contain multiple encodings at the same time, such as web pages or multi-part mail messages. Study all expected communication protocols and data representations to determine the required encoding strategies.

For any data that will be output to another web page, especially any data that was received from external inputs, use the appropriate encoding on all non-alphanumeric characters.

Consult the XSS Prevention Cheat Sheet for more details on the types of encoding and escaping that are needed.

Phase: Architecture and Design

For any security checks that are performed on the client side, ensure that these checks are duplicated on the server side, in order to avoid CWE-602. Attackers can bypass the client-side checks by modifying values after the checks have been performed, or by changing the client to remove the client-side checks entirely. Then, these modified values would be submitted to the server.

If available, use structured mechanisms that automatically enforce the separation between data and code. These mechanisms may be able to provide the relevant quoting, encoding, and validation automatically, instead of relying on the developer to provide this capability at every point where output is generated.

Phase: Implementation

For every web page that is generated, use and specify a character encoding such as ISO-8859-1 or UTF-8. When an encoding is not specified, the web browser may choose a different encoding by guessing which encoding is actually being used by the web page. This can cause the web browser to treat certain sequences as special, opening up the client to subtle XSS attacks. See CWE-116 for more mitigations related to encoding/escaping.

To help mitigate XSS attacks against the user's session cookie, set the session cookie to be HttpOnly. In browsers that support the HttpOnly feature (such as more recent versions of Internet Explorer and Firefox), this attribute can prevent the user's session cookie from being accessible to malicious client-side scripts that use document.cookie. This is not a complete solution, since HttpOnly is not supported by all browsers. More importantly, XMLHTTPRequest and other powerful browser technologies provide read access to HTTP headers, including the Set-Cookie header in which the HttpOnly flag is set.

Assume all input is malicious. Use an "accept known good" input validation strategy, i.e., use an allow list of acceptable inputs that strictly conform to specifications. Reject any input that does not strictly conform to specifications, or transform it into something that does. Do not rely exclusively on looking for malicious or malformed inputs (i.e., do not rely on a deny list). However, deny lists can be useful for detecting potential attacks or determining which inputs are so malformed that they should be rejected outright.

When performing input validation, consider all potentially relevant properties, including length, type of input, the full range of acceptable values, missing or extra inputs, syntax, consistency across related fields, and conformance to business rules. As an example of business rule logic, "boat" may be syntactically valid because it only contains alphanumeric characters, but it is not valid if you are expecting colors such as "red" or "blue."

Ensure that you perform input validation at well-defined interfaces within the application. This will help protect the application even if a component is reused or moved elsewhere.

Reference

http://projects.webappsec.org/Cross-Site-Scripting http://cwe.mitre.org/data/definitions/79.html

CWE Id

Solution

<u>79</u>

WASC Id

8

Plugin Id	40012
Low	Incomplete or No Cache-control Header Set
Description	The cache-control header has not been set properly or is missing, allowing the browser and proxies to cache content.
URL	https://192.168.0.16:4200
Method	GET
Attack	
Evidence	
URL	https://192.168.0.16:4200/
Method	GET
Attack	
Evidence	
Instances	2
Solution	Whenever possible ensure the cache-control HTTP header is set with no-cache, no-store, must-revalidate.
Reference	https://cheatsheetseries.owasp.org/cheatsheets/Session Management Cheat Sheet. html#web-content-caching https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Cache-Control
CWE Id	<u>525</u>
WASC Id	13
Plugin Id	<u>10015</u>
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	https://192.168.0.16:4200
URL Method	https://192.168.0.16:4200 GET
Method	
Method Attack	GET
Method Attack Evidence	GET X-Powered-By: Express
Method Attack Evidence URL	GET X-Powered-By: Express https://192.168.0.16:4200/
Method Attack Evidence URL Method	GET X-Powered-By: Express https://192.168.0.16:4200/
Method Attack Evidence URL Method Attack	X-Powered-By: Express https://192.168.0.16:4200/ GET
Method Attack Evidence URL Method Attack Evidence	X-Powered-By: Express https://192.168.0.16:4200/ GET X-Powered-By: Express
Method Attack Evidence URL Method Attack Evidence URL	X-Powered-By: Express https://192.168.0.16:4200/ GET X-Powered-By: Express https://192.168.0.16:4200/favicon.ico
Method Attack Evidence URL Method Attack Evidence URL Method Method	X-Powered-By: Express https://192.168.0.16:4200/ GET X-Powered-By: Express https://192.168.0.16:4200/favicon.ico
Method Attack Evidence URL Method Attack Evidence URL Method Attack Attack Attack Attack	GET X-Powered-By: Express https://192.168.0.16:4200/ GET X-Powered-By: Express https://192.168.0.16:4200/favicon.ico GET
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Method	GET
Attack	
Evidence	X-Powered-By: Express
URL	https://192.168.0.16:4200/robots.txt
Method	GET
Attack	
Evidence	X-Powered-By: Express
URL	https://192.168.0.16:4200/runtime.js
Method	GET
Attack	
Evidence	X-Powered-By: Express
URL	https://192.168.0.16:4200/sitemap.xml
Method	GET
Attack	
Evidence	X-Powered-By: Express
URL	https://192.168.0.16:4200/styles.css
Method	GET
Attack	
Evidence	X-Powered-By: Express
URL	https://192.168.0.16:4200/styles.js
Method	GET
Attack	
Evidence	X-Powered-By: Express
URL	https://192.168.0.16:4200/ws
Method	GET
Attack	
Evidence	X-Powered-By: Express
Instances	11
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	200
WASC Id	13
Plugin Id	10037
Low	Timestamp Disclosure - Unix
Description	A timestamp was disclosed by the application/web server - Unix
URL	https://192.168.0.16:4200/main.js
Method	GET
Attack	
Evidence	2147483647

URL	https://192.168.0.16:4200/polyfills.js
Method	GET
Attack	
Evidence	2147483647
URL	https://192.168.0.16:4200/styles.css
Method	GET
Attack	
Evidence	0000005
URL	https://192.168.0.16:4200/styles.css
Method	GET
Attack	
Evidence	0000024
URL	https://192.168.0.16:4200/styles.css
Method	GET
Attack	
Evidence	00000042
URL	https://192.168.0.16:4200/styles.css
Method	GET
Attack	
Evidence	00000061
URL	https://192.168.0.16:4200/styles.js
Method	GET
Attack	
Evidence	2147483647
Instances	7
Solution	Manually confirm that the timestamp data is not sensitive, and that the data cannot be aggregated to disclose exploitable patterns.
Reference	http://projects.webappsec.org/w/page/13246936/Information%20Leakage
CWE Id	200
WASC Id	13
Plugin Id	<u>10096</u>
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	https://192.168.0.16:4200
Method	GET
Attack	
Evidence	
URL	https://192.168.0.16:4200/

Method	GET
Attack	
Evidence	
URL	https://192.168.0.16:4200/favicon.ico
Method	GET
Attack	
Evidence	
URL	https://192.168.0.16:4200/main.js
Method	GET
Attack	
Evidence	
URL	https://192.168.0.16:4200/polyfills.js
Method	GET
Attack	
Evidence	
URL	https://192.168.0.16:4200/runtime.js
Method	GET
Attack	
Evidence	
URL	https://192.168.0.16:4200/styles.css
Method	GET
Attack	
Evidence	
URL	https://192.168.0.16:4200/styles.js
Method	GET
Attack	
Evidence	
Instances	8
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	<u>693</u>
WASC Id	15
Plugin Id	10021
Informational	Information Disclosure - Suspicious Comments

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	https://192.168.0.16:4200/main.js
Method	GET

Attack	
Evidence	query
URL	https://192.168.0.16:4200/polyfills.js
Method	GET
Attack	
Evidence	query
URL	https://192.168.0.16:4200/styles.js
Method	GET
Attack	
Evidence	query
Instances	3
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