



ISS/NASA Prototype Dev Report w/ Security Updates

Site: <http://127.0.0.1:8000>

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Summary of Alerts

Risk Level	Number of Alerts
High	0
Medium	1
Low	2
Informational	1

Alerts

Name	Risk Level	Number of Instances
Content Security Policy (CSP) Header Not Set	Medium	5
Server Leaks Version Information via "Server" HTTP Response Header Field	Low	10
X-Content-Type-Options Header Missing	Low	2
User Agent Fuzzer	Informational	36

Alert Detail

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://127.0.0.1:8000/favicon.ico
Method	GET
Attack	
Evidence	
URL	http://127.0.0.1:8000/robots.txt
Method	GET
Attack	
Evidence	
URL	http://127.0.0.1:8000/sitemap.xml
Method	GET

Attack	
Evidence	
URL	http://127.0.0.1:8000/static
Method	GET
Attack	
Evidence	
URL	http://127.0.0.1:8000/login
Method	POST
Attack	
Evidence	
Instances	5
Solution	Ensure that your web server, application server, load balancer, etc. is configured to set the Content-Security-Policy header, to achieve optimal browser support: "Content-Security-Policy" for Chrome 25+, Firefox 23+ and Safari 7+, "X-Content-Security-Policy" for Firefox 4.0+ and Internet Explorer 10+, and "X-WebKit-CSP" for Chrome 14+ and Safari 6+.
Reference	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 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 http://content-security-policy.com/
CWE Id	693
WASC Id	15
Plugin Id	10038

Low	Server Leaks Version Information via "Server" HTTP Response Header Field
Description	The web/application server is leaking version information via the "Server" HTTP response header. Access to such information may facilitate attackers identifying other vulnerabilities your web/application server is subject to.
URL	http://127.0.0.1:8000
Method	GET
Attack	
Evidence	WSGIServer/0.2 CPython/3.11.2
URL	http://127.0.0.1:8000/
Method	GET
Attack	
Evidence	WSGIServer/0.2 CPython/3.11.2
URL	http://127.0.0.1:8000/favicon.ico
Method	GET
Attack	
Evidence	WSGIServer/0.2 CPython/3.11.2
URL	http://127.0.0.1:8000/login
Method	GET
Attack	

Evidence	WSGIServer/0.2 CPython/3.11.2
URL	http://127.0.0.1:8000/robots.txt
Method	GET
Attack	
Evidence	WSGIServer/0.2 CPython/3.11.2
URL	http://127.0.0.1:8000/sitemap.xml
Method	GET
Attack	
Evidence	WSGIServer/0.2 CPython/3.11.2
URL	http://127.0.0.1:8000/static
Method	GET
Attack	
Evidence	WSGIServer/0.2 CPython/3.11.2
URL	http://127.0.0.1:8000/static/nasa-logo.png
Method	GET
Attack	
Evidence	WSGIServer/0.2 CPython/3.11.2
URL	http://127.0.0.1:8000/static/styles.css
Method	GET
Attack	
Evidence	WSGIServer/0.2 CPython/3.11.2
URL	http://127.0.0.1:8000/login
Method	POST
Attack	
Evidence	WSGIServer/0.2 CPython/3.11.2
Instances	10
Solution	Ensure that your web server, application server, load balancer, etc. is configured to suppress the "Server" header or provide generic details.
Reference	http://httpd.apache.org/docs/current/mod/core.html#servertokens http://msdn.microsoft.com/en-us/library/ff648552.aspx#ht_urlscan_007 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	10036

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://127.0.0.1:8000/static/nasa-logo.png
Method	GET

Attack	
Evidence	
URL	http://127.0.0.1:8000/static/styles.css
Method	GET
Attack	
Evidence	
Instances	2
Solution	<p>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.</p> <p>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.</p>
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

Informational	User Agent Fuzzer
Description	Check for differences in response based on fuzzed User Agent (eg. mobile sites, access as a Search Engine Crawler). Compares the response statuscode and the hashcode of the response body with the original response.
URL	http://127.0.0.1:8000
Method	GET
Attack	Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1)
Evidence	
URL	http://127.0.0.1:8000
Method	GET
Attack	Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0)
Evidence	
URL	http://127.0.0.1:8000
Method	GET
Attack	Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1)
Evidence	
URL	http://127.0.0.1:8000
Method	GET
Attack	Mozilla/5.0 (Windows NT 10.0; Trident/7.0; rv:11.0) like Gecko
Evidence	
URL	http://127.0.0.1:8000
Method	GET
Attack	Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/75.0.3739.0 Safari/537.36 Edg/75.0.109.0
Evidence	
URL	http://127.0.0.1:8000
Method	GET

Attack	Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/91.0.4472.124 Safari/537.36
Evidence	
URL	http://127.0.0.1:8000
Method	GET
Attack	Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:93.0) Gecko/20100101 Firefox/91.0
Evidence	
URL	http://127.0.0.1:8000
Method	GET
Attack	Mozilla/5.0 (compatible; Googlebot/2.1; +http://www.google.com/bot.html)
Evidence	
URL	http://127.0.0.1:8000
Method	GET
Attack	Mozilla/5.0 (compatible; Yahoo! Slurp; http://help.yahoo.com/help/us/ysearch/slurp)
Evidence	
URL	http://127.0.0.1:8000
Method	GET
Attack	Mozilla/5.0 (iPhone; CPU iPhone OS 8_0_2 like Mac OS X) AppleWebKit/600.1.4 (KHTML, like Gecko) Version/8.0 Mobile/12A366 Safari/600.1.4
Evidence	
URL	http://127.0.0.1:8000
Method	GET
Attack	Mozilla/5.0 (iPhone; U; CPU iPhone OS 3_0 like Mac OS X; en-us) AppleWebKit/528.18 (KHTML, like Gecko) Version/4.0 Mobile/7A341 Safari/528.16
Evidence	
URL	http://127.0.0.1:8000
Method	GET
Attack	msnbot/1.1 (+http://search.msn.com/msnbot.htm)
Evidence	
URL	http://127.0.0.1:8000/
Method	GET
Attack	Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1)
Evidence	
URL	http://127.0.0.1:8000/
Method	GET
Attack	Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0)
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URL	http://127.0.0.1:8000/
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Attack	Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1)
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Method	GET
Attack	Mozilla/5.0 (Windows NT 10.0; Trident/7.0; rv:11.0) like Gecko
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URL	http://127.0.0.1:8000/
Method	GET
Attack	Mozilla/5.0 (compatible; Googlebot/2.1; +http://www.google.com/bot.html)
Evidence	
URL	http://127.0.0.1:8000/
Method	GET
Attack	Mozilla/5.0 (compatible; Yahoo! Slurp; http://help.yahoo.com/help/us/ysearch/slurp)
Evidence	
URL	http://127.0.0.1:8000/
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Evidence	
URL	http://127.0.0.1:8000/
Method	GET
Attack	msnbot/1.1 (+http://search.msn.com/msnbot.htm)
Evidence	
URL	http://127.0.0.1:8000/login
Method	GET
Attack	Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1)
Evidence	

URL	http://127.0.0.1:8000/login
Method	GET
Attack	Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0)
Evidence	
URL	http://127.0.0.1:8000/login
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Evidence	
URL	http://127.0.0.1:8000/login
Method	GET
Attack	msnbot/1.1 (+http://search.msn.com/msnbot.htm)
Evidence	
Instances	36
Solution	
Reference	https://owasp.org/wstg
CWE Id	
WASC Id	
Plugin Id	10104