INFORMATION ASSURANCE AND AUDITING

IE 4040

Mini Project Report

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B.Sc. (Hons) Degree in Information Technology specializing in Computer

Systems & Network Engineering

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DECLARATION

This is my own work and has not been submitted previously for a degree at this or any other university/institute.

To the best of my knowledge, it does not contain any material published or written by another person, except as acknowledged in the text.

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ABSTRACT

The world is most reliant on the Internet. Nowadays, web security is the biggest challenge in the corporate world. It is considered as the principal framework for the worldwide data society. Web applications are prone to security attacks. Web security is securing a web application layer from attacks by unauthorized users. A lot of the issues that occur over a web application is mainly due to the improper input provided by the client. This paper discusses the different aspects of web security, and it's weakness. The main elements of web security techniques, such as passwords, encryption, authentication, and integrity, are also discussed in this paper. The anatomy of a web application attack and the attack techniques are also covered in detail. This paper explores several methods for combatting this class of threats and assesses why they have not proven more successful. This paper proposes a better way of minimizing this type of web vulnerabilities. It also provides the best security mechanisms for the said attacks.

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1. INTRODUCTION

Software security testing is the process of assessing and testing a system to discover security risks and vulnerabilities of the system and its data. There is no universal terminology, but for our purposes, we define assessments as the analysis and discovery of vulnerabilities without attempting to exploit those vulnerabilities. We define testing as the discovery and attempted exploitation of vulnerabilities.

Security testing is often broken out, somewhat arbitrarily, according to either the type of vulnerability being tested or the type of testing being done. A common thing is,

- Vulnerability Assessment The system is scanned and analyzed for security issues.
- Penetration Testing The system undergoes analysis and attack from simulated malicious attackers.
- Runtime Testing The system undergoes analysis and security testing from an end-user.
- Code Review The system code undergoes a detailed review and analysis, looking specifically for security vulnerabilities.

Note that risk assessment, which is commonly listed as part of security testing, is not included in this list. That is because a risk assessment is not actually a test but rather the analysis of the perceived severity of different risks (software security, personnel security, hardware security, etc.) and any mitigation steps for those risks.

2. Tools for Web application testing

Top 10 Testing Automation Tools for Web application Testing.

Selenium

Selenium is a testing framework to perform web application testing across various browsers and platforms like Windows, Mac, and Linux. Selenium helps the testers to write tests in different programming languages like Java, PHP, C#, Python, Groovy, Ruby, and Perl. It offers a record and playback feature to write tests without learning Selenium IDE.

• TestingWhiz

TestingWhiz is a test automation tool with the code-less scripting by Cygnet Infotech, a CMMi Level 3 IT solutions provider. TestingWhiz tool's Enterprise edition offers a complete package of various automated testing solutions like web testing, software testing, database testing, API testing, mobile app testing, regression test suite maintenance, optimization, and automation, and cross-browser testing.

 HPE Unified Functional Testing (HP – UFT formerly QTP) HP QuickTest Professional was renamed to HPE Unified Functional Testing. HPE UFT offers testing automation for functional and regression testing for software applications. Visual Basic Scripting Edition scripting language is used by this tool to register the test processes and operates the various objects and controls in testing the applications.

TestComplete

TestComplete is a functional testing platform that offers various solutions to automate testing for desktop, web, and

mobile applications by SmartBear Software.

Ranorex

anorex Studio offers various testing automation tools that cover testing all desktop, web, and mobile applications.

• Sahi

Sahi is a testing automation tool to automate web applications testing. The open-source Sahi is written in Java and JavaScript programming languages.

Watir

Watir is an open-source testing tool made up of Ruby libraries to automate web application testing. It is pronounced as "water."

• Tosca Testsuite

Tosca Testsuite by Tricentis uses modelbased test automation to automate software testing.

• Telerik TestStudio

Telerik TestStudio offers one solution to automate desktop, web, and mobile application testing including UI, load, and performance testing.

Katalon Studio

Katalon Studio is a free automation testing solution developed by Katalon LLC. The software is built on top of the open-source automation frameworks Selenium, Appium with a specialized IDE interface for API, web and mobile testing. This tool includes a full package of powerful features that help overcome common challenges in web UI test automation.

3. Introduction to "ZAP" penetration testing tool

Zed Attack Proxy (ZAP) is a free, open-source penetration testing tool being maintained under the umbrella of the Open Web Application Security Project (OWASP). ZAP is explicitly designed for testing web applications and is both flexible and extensible.

At its core, ZAP is what is known as a "man-in-the-middle proxy." It stands between the tester's browser and the web application so that it can intercept and inspect messages sent between the browser and web application, modify the contents if needed, and then forward those packets on to the destination. It can be used as a stand-alone application and as a daemon process.



Fig 3.1

If there is another network proxy already in use, as in many corporate environments, ZAP can be configured to connect to that proxy.



Fig 3.2

ZAP provides functionality for a range of skill levels – from developers, to testers new to security testing, to security testing specialists. ZAP has versions for each major OS and Docker, so you are not tied to a single OS. Additional functionality is freely available from a variety of add-ons in the ZAP Marketplace, accessible from within the ZAP client.

Because ZAP is open-source, the source code can be examined to see exactly how the functionality is implemented. Anyone can volunteer to work on ZAP, fix bugs, add features, create pull requests to pull fixes into the project, and author add-ons to support specialized situations.

4. Steps of auditing web application using "ZAP"

we can download zap our pc by following link.
 Link - <u>zaproxy.org/download/</u>
 It supports many operating systems, and we can choose the relevant setup

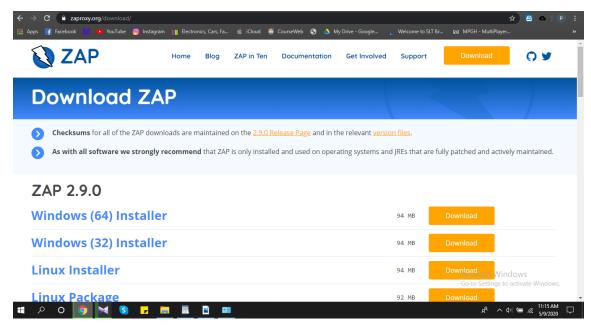


Fig 4.1: downloding ZAP

• After installing zap setup open it. this is the zap user interface.

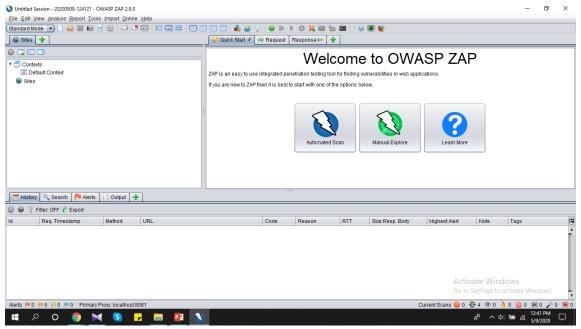


Fig 4.2: ZAP User interface

• It has two primary scan type as automated and manual. Choose the manual scan type because we can get more details about web application on this scan type.

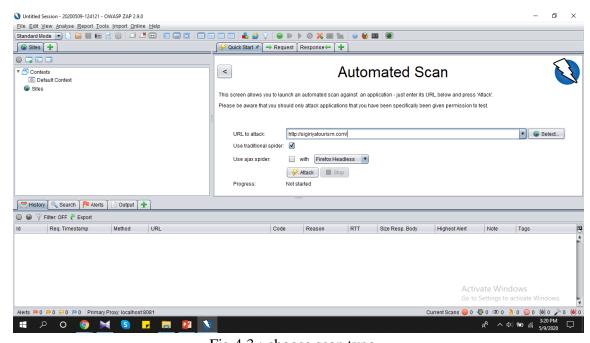


Fig 4.3 : choose scan type

• Get a relevant web sites link. I choose sigiriyatourisum.com as websites for audit. It is SriLankan websites and includes much information about Sigiriya and tourism hotel about the Sigiriya area.



Fig 4.4 : our website

• Go to zap the user interface and choose a manual scan mood. Next, copy our website URL and copy it into the zap. Next, we can choose a web browser like Chrome or firefox. I select Chrome and click the launch browser.

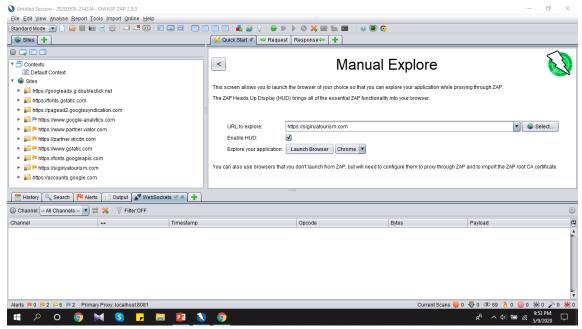


Fig 4.5: start scan

Now we can see scan website the left side shows our website's backlink web site
in the zap user interface

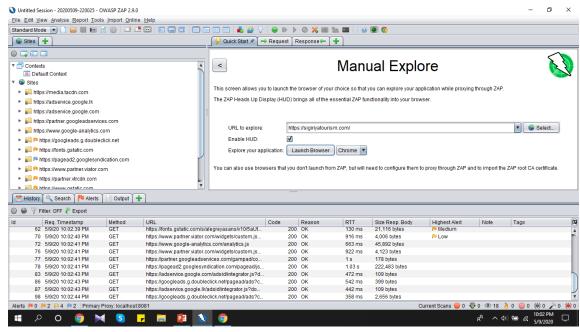


Fig 4.6: scaning

• After the scan, we can look like this interface, and it has a backlink site and alert information. Mention more details about the alert. Alert display 4 colors like red orange yellow blue. This color shows the risk level of alert.

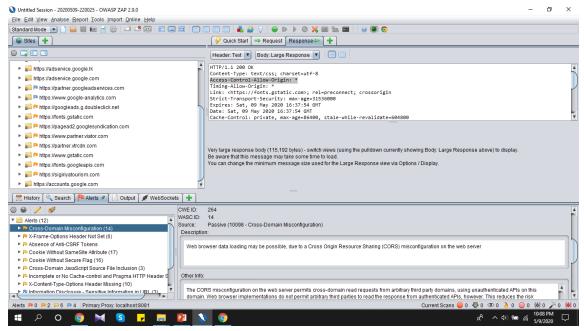


Fig 4.7: after scan website

• We can get an audit report go to report and select a need report format. I select HTML report

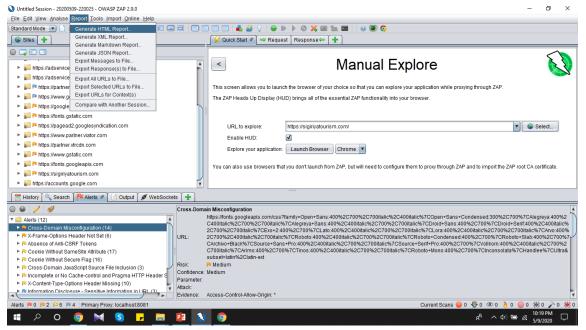
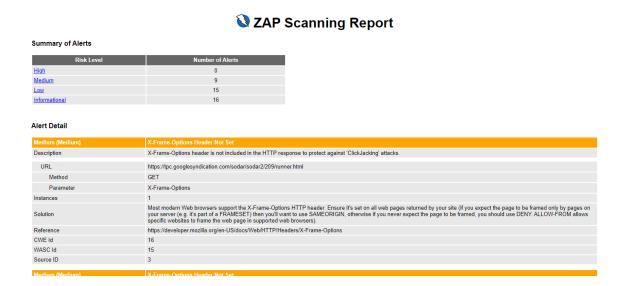


Fig 4.8: generate report

• After a few seconds, generate a scan report and its open web browser. Firstly scan report has a summary of alerts. Its have a risk level and how much of alert in the web site. Include alert details, as one by one. We can show more information about this alert in the sections. Zap tools show 40 alerts and give a solution in scan repot for every alert. No high-risk level attacks for the Sigiriya tourism web site. High-risk level attacks show a red color. Show medium risk level alert as orange color and yellow color show low-risk level alert. Blue color shows information alerts.



Medium (Medium)	X-Frame-Options Header Not Set
Description	X-Frame-Options header is not included in the HTTP response to protect against 'ClickJacking' attacks.
URL	https://googleads.g.doubleclick.net/pagead/ads?client=ca-pub- 538721738/14060244.output=html&adic=18122718048adis-3025194257&lmt=1589041964&pita=1%3A32776%2C2%3A16809992%2C8%3A32776%2C9%3A32776%2C16%3A8388 09%2C217%3A32%2C24%3A32%2C52%3A32%2C30%3A1048576%2C32%3A32%2C40%3A32&guci=2.2.0.0.2.2.0.0&format=0x0&url=https://doi.org/10.00000000000000000000000000000000000
Method	GET
Parameter	X-Frame-Options
URL	https://googleads.g.doubleclick.net/pagead/html/r20200506/r20190131/zrt_lookup.html
Method	GET
Parameter	X-Frame-Options
URL	https://googleads.g.doubleclick.net/pagea/dads/client=ca-pub- 53872173874000240.doupt=htmlsit=2808.dotname=471558225&adk=3936940963&adf=4048911295&w=6618.fwrm=48.fwrmh=100.klmt=1589041963&rafmt=18.psa=08.guci=2.2.0.0 2.2.0.081ormat=651x280&url=https%3.34%2F%2Fsigiriyatourism.com%2Fs81ash=18.fwr=08.pp=18.resp_fmts=38.wgl=18.dt=15890419546778bpp=3025&bdt=690688dt=848528shv=20.058686x3487%2Ps301559422893x3AJALHI MadaOV3wc4027K81089ftV 3770LiBAAcv=18.cornelator=57895140394748firm=2089v=28.gg_v=1642594801415890419628gg_sid=15890419638gg_h=1610564999258gg_f=08lag=08lacg=2351669259&dssz 288mdo=48ms=088u_tz=3308u_fhs=28u_jav=18u_f=7688u_w=13668u_afs=728u_av=13668u_cd=248u_pflug=38u_mmine=48.adz=108.ady=39988bw=10178bih=5768scr_x= 2974646z=2166695852c4100751056304-38px;bez=26rsz=6%7Co%7CoeEr%7CAabi=NS8ptx=084u=39308bc=318.fil=18.uci=a118.fsb=18.xpc=bKGPk2EHVy8p=https%3A sigiriyatourism.comⅆ:dt=499
Method	GET
Parameter	X-Frame-Options
Instances	3
Solution	Most modern Web browsers support the X-Frame-Options HTTP header. Ensure it's set on all web pages returned by your site (if you expect the page to be framed only by pages on your server (e.g. it's part of a FRAMESET) then you'l want to use SAMEORIGIN, otherwise if you never expect the page to be framed, you should use DENY. ALLOW-FROM allows specific websites to frame the web page in supported web browsers).
Reference	https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Frame-Options
CWE I4	16
Source ID	3

000100115	The state of the s
Medium (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	https://fonts.gstatic.com/s/alegreyasans/v10/58Ut91phKLFgshYDvh6Vwt7V9dv21T.woff2
Method	GET GET
Evidence	Access-Control-Allow-Origin: *
URL	https://fonts.gstatic.com/s/alegreyasans/v10/5aUo91phKLFgshYDvh6Vwt7V9VBEhGiU9G.woff2
Method	GET
Evidence	Access-Control-Allow-Origin: *
URL	https://fonts.gstatic.com/s/alegreyasans/v10/5aUz91phKLFgshYDvh6Vvt7VptvQ.woff2
Method	GET
Evidence	Access-Control-Allow-Origin: *
URL	https://fonts.gstatic.com/s/opensans/v17/mem8YaGs126MiZpBA-UFVZ0b.woff2
Method	GET
Evidence	Access-Control-Allow-Origin: *
URL	https://fonts.gstatic.com/s/alegreya/v13/4UaGrEBBsBhiBjvfkSpa4r3Owp4.woff2
Method	GET
Evidence	Access-Control-Allow-Origin: *
URL	https://fonts.gstatic.com/s/alegreyasans/v10/5aUu91phKLFgshYDvh6Vwt5eFiqEp2/w.woff2
Method	GET
Evidence	Access-Control-Allow-Origin: *
Instances	6
	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.

Description Web browser data loading may be possible, due to a Cross Origin Resource Sharing (CORS) misconfiguration on the web server	domain. Web browser
URL https://pagead2.googlesyndication.com/getconfig/sodar/sv=200&tid=gda&tv=r20200506&st=env Method GET Evidence Access-Control-Allow-Origin: * Instances 1 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 brow Origin Policy (SOP) in a more restrictive manner. The CORS misconfiguration on the web server permits cross-domain read requests from arbitrary third party domains, using unauthenticated APIs on this implementations do not permit arbitrary third parties to read the response from authenticated APIs, however. This reduces the risk somewhat. This misconfi 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. Reference http://www.hpenterprisesecurity.com/vulncat/en/vulncat/vb/html5_overty_permissive_cors_policy.html CWE id 264 WASC id 14 Source ID 3 Medium (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 https://www.partner.viator.com/css/lib/niftycorners.css Evidence Access-Control-Allow-Origin: * https://www.partner.viator.com/widgets/custom.jspa? callback-document viator/Comwidgets/custom.jspa?	domain. Web browser
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Other information implementations do not permit arbitrary third parties to read the response from authenticated APIs, however. This reduces the risk somewhat. This misconf 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. Reference http://www.hpenterprisesecurity.com/vulncat/en/vulncat/vb/html5_overly_permissive_cors_policy.html CWE Id 264 WASC Id 14 Source ID 3 Medium (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 https://www.partner.viator.com/css/lib/niftycorners.css Evidence Access-Control-Allow-Origin: * https://www.partner.viator.com/digets/custom.jspa? callback-document viator.Com/digets/custom.jspa? callback-document viator.Com/digets/custom.jspa? callback-document viator.Com/digets/custom.jspa? callback-document viator.Com/digets/custom.jspa? callback-document viator.Com/digets/custom.jspa? callback-document viator.Com/digets/custom.jspa?	figuration could be used by
Reference http://www.hpenterprisesecurity.com/vulncat/en/vulncat/vb/html5_overly_permissive_cors_policy.html 264 WASC Id 264 WASC Id 14 Source ID 3 Medium (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 https://www.partner.viator.com/css/lib/niftycorners.css Evidence Access-Control-Allow-Origin: * https://www.partner.viator.com/widgets/custom.jspa? callback-document viator.Viator.Widgets/custom.jspa? callback-document viator.Viator.Widgets/custom.jspa? callback-document viator.Viator.Widgets/bc.callback afcar/497&set.ocale=en&PUID=18531&destinationID=0&numProducts=1&title=%201%20Adult%20-	
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Description Web browser data loading may be possible, due to a Cross Origin Resource Sharing (CORS) misconfiguration on the web server URL https://www.partner.viator.com/css/lib/niftycorners.css Method GET Evidence Access-Control-Allow-Origin:* https://www.partner.viator.com/widgets/custom.jspa? callback-document viator.ViadoetDivCallback afcar/497&sett.ocale=en&PUID=18531&destinationID=0&numProducts=1&title=%201%20Adult%20-	
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%2095.00%20USD&vidth=340&horizontal=false&showThumbs=true&widgetAction=custom&customProductCodes=1010 87020P5&SUBPUID=&linkNew/	
	Nindow=true
Method GET	
Fyldence Access-Control-Allow-Orisin: * Source II 3	
Source ID 3	
Medium (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 https://partner.vtrcdn.com/modules/widgets/js/hittWidget.js?v=2018.10.17.2	
Method GET	
Evidence Access-Control-Allow-Origin: *	
Instances 1	
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 brows	ser to enforce the Same
Origin Policy (SOP) in a more restrictive manner.	
The CORS misconfiguration on the web server permits cross-domain read requests from arbitrary third party domains, using unauthenticated APIs on this do	omain. Web browser
Other information implementations do not permit arbitrary third parties to read the response from authenticated APIs, however. This reduces the risk somewhat. This misconfig an attacker to access data that is available in an unauthenticated maner, but which uses some other from of security, such as IP address white-listing.	uration could be used by
Reference http://www.hpenterprisesecurity.com/vulncati/eh/vulncati/vb/html5_overly_permissive_cors_policy.html	
CWE Id 264	
WASC Id 14	
Source ID 3	
Medium (Medium) X-Frame-Options Header Not Set	
Description X-Frame-Options header is not included in the HTTP response to protect against 'ClickJacking' attacks.	
URL https://www.gstatic.com/chrome/intelligence/assist/ranker/models/translate/2017/03/translate_ranker_model_20170329.pb.bin	
Method GET	
Parameter X-Frame-Options	
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Instances 1	
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Total information Implementations of this permit activities to read the segones for authenticated AFIs, browner. This neckors that all somewhall. This misconfiguration could be used an interest of the control and the several and interest and permit and the control and the several and permit and the several and permi	Solution	v /, /
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Maching Mach	Reference	http://www.hpenterprisesecurity.com/vulncat/vb/html5_overly_permissive_cors_policy.html
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Decorption X Frame-Options header is not included in the HTTP response to protect against Click-backing altacks. URL	Source ID	3
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Incomplete or No Cache-control and Pragma HTTP Header Set	Method	GET
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The cache-control and pragma HTTP header have not been set properly or are missing allowing the browser and prodes to cache content. International Center Cache-Control	Low (Madium)	Isospelate of No Codes control and Drama HTTD Header Set
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Description Incomplete or No Cache-control and Pragma HTTP Header Set		
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Method GET		
Method GET Parameter Cache-Control Evidence public, max-age=120900 between https://poopleads.g.double-click.net/pageadiad9?client=ca-pub-539717974660246a/battpst=html6ht=208a/battpst=html6html6html6ht=208a/battpst=html6html6html6html6html6html6html6html6	Description	The cache-control and pragma HTTP header have not been set properly or are missing allowing the browser and proxies to cache content.
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Evidence	Parameter	Cache-Control
https://poorgleads.g. doubbetlick.net/pagea/das/7/letric=a-pub-53872/T/97/4062/48couput=hmtklh=208.stotnam==47155802258.adic=39359409638.adic=40489112658.w=6618.hmm=4.kmml=108.lmt=15890419638.adim=16.page=308.paic=2.page=35872/T/97/4062/48couput=hmtklh=208.stotnam==47155802258.adic=39359409638.adic=40489112658.w=6618.hmm=4.kmml=38.kmml=18.page=18.page=3258.bdt=9058481646846.page=3258.bdt=9058481646846.page=3258.bdt=9058481646846.page=3258.bdt=9058481646846.page=3258.bdt=9058481646846.page=3258.bdt=90584816486.page=3258.bdt=90584816486.page=3258.bdt=90584816486.page=3258.bdt=90584816486.page=3258.bdt=90584816486.page=3258.bdt=90584816486.page=3258.bdt=90584816486.page=3258.bdt=9058486.page=3258.bdt=9058486.page=3258.bdt=9058486.page=3258.bdt=9058486.page=3258.bdt=9058486.page=3258.bdt=9058486.page=3258.bdt=9058486.page=3258.bdt=9058486.page=3258.bdt=9058486.page=3258.bdt=9058486.page=3258.bdt=9058486.page=3258.bdt=9058486.page=3258.bdt=9058486.page=3258.bdt=9058486.page=3258.bdt=9058486.page=3258.bdt=9058486.page=3258.bdt=9058486.page=3258.bdt=9058486.page=325886.page=		
Description A cookie has been set with an invalid SameSite attribute value, 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, and timing attacks.	URL	https://gooplasds.g.doubleclick.ne/papsadrads/?client=ca-pub- 598721/3974600248output-imbihat=2084schamme=4715585225&ade=3935940963&adf=4048911295&w=6518.htm=48.htmh=108.ltmt=1589041953&rafmt=158pa=0.8guci=2.2.0.0 2.2.0.046roma=651x208.ut=https:%3.4%.2F%.7Fsigiriyatourism com%2F88ash=0.6kmr=0.8gr=18.esp. fml=38.wtg=18.dtm1589041963478bpp=3025&bdt=9069&idt=8462&shv=7202 00596&bctv=2199191318pt=958addr=aa8abave=18.cookse=10%.29bdd=15ect.620668e%3.347%31059042296%318.0bd.11M.ddac073wc02Dx80B36by-370CliBA8Crv=18coortealtor=5789514093474&fm=208.pv=28ga_vid=1425948114.15890419638ga_id=15890419638ga_id=163649925&ga_id=1636499398bw=10178bh=576&ccr_v=08ade=21066698xy2C410075106&id=38pvid=2108255506584398&pem=3848cv=08ae=80&t=69864bridm=32009xy2C-32000
Description A cookie has been set with an invalid SameSite attribute value, 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, and timing attacks.		
Counter measure to cross-site request forgery, cross-site script inclusion, and timing attacks.	Low (Medium)	
S3872173874060248-output-html&adic=18122718044adef=30254954925784mt=15890419648ptat=1%3A22776%2C2%3A32%2C04%2C04%2C04%2C04%2C04%2C04%2C04%2C0	Description	counter measure to cross-site request forgery, cross-site script inclusion, and timing attacks.
Parameter IDE Evidence Set-Cookie: IDE Instances 1 Solution Ensure that the SameSite attribute is set to either "lax" or ideally "strict" for all cookies. Reference https://tools ieff org/html/draft-ieff-httpbis-cookie-same-site CWE Id 16 WASC Id 13 Source ID 3 Low (Medium) Incomplete or No Cache-control and Pragma HTTP Header Set	URL	53872173874060248.dutput=html8.adir=1812271804.8adir=30251942578.lmt=1590419648.plat=1%:3A32776%2C2%3A16809992%2C6%3A32776%2C9%3A32776%2C9%3A32776%2C9%3A32776%2C9%3A32776%2C9%3A32776%2C9%3A32776%2C9%3A32776%2C9%3A32776%2C9%3A32776%2C9%3A3276%2C9%3A3276%2C9%3A3276%2C9%3A3276%2C9%3A3276%2C9%3A3276%2C9%3A327%2C9%2C9%3A327%2C9%3A327%2C9%3A327%2C9%3A327%2C9%3A327%2C9%3A327%2C9%3A327%2C9%3A327%2C9%3A327%2C9%3A327%2C9%3A327%2C9%3A327%2C9%3A327%2C9%3A327%2C9%3
Parameter IDE Evidence Set-Cookie: IDE Instances 1 Solution Ensure that the SameSite attribute is set to either "lax" or ideally "strict" for all cookies. Reference https://tools ietf org/html/draft-ietf-httpbis-cookie-same-site CWE Id 16 WASC Id 13 Source ID 3 Low (Medium) Incomplete or No Cache-control and Pragma HTTP Header Set	Method	
Evidence Set-Cookie: IDE Instances 1 Solution Ensure that the SameSite attribute is set to either "lax" or ideally 'strict' for all cookies. Reference https://tools.ietf.org/html/draft-ietf-httpbis-cookie-same-site CWE Id 16 WASC Id 13 Source ID 3 Low (Medium) Incomplete or No Cache-control and Pragma HTTP Header Set		IDE
Instances 1 Solution Ensure that the SameSite attribute is set to either 'lax' or ideally 'strict' for all cookies. Reference https://tools.ietf.org/html/draft-leff-httpbis-cookie-same-site CWE Id 16 WASC Id 3 Source ID 3 Low (Medium) Incomplete or No Cache-control and Pragma HTTP Header Set	Evidence	
Solution Ensure that the SameSite attribute is set to either lax' or ideally 'strict' for all cookies. Reference https://tools.ietf.org/html/draft-ietf-httpbis-cookie-same-site CWE Id 16 WASC Id 13 Source ID 3 Low (Medium) Incomplete or No Cache-control and Pragma HTTP Header Set		
Reference https://tools.ietf.org/ihtml/draft-ietf-httpbis-cookie-same-site CWE Id 16 WASC Id 3 Source ID 3 Low (Medium) Incomplete or No Cache-control and Pragma HTTP Header Set		
CWE Id 16 WASC Id 13 Source ID 3 Low (Medium) Incomplete or No Cache-control and Pragma HTTP Header Set		
WASC Id 13 Source ID 3 Low (Medium) Incomplete or No Cache-control and Pragma HTTP Header Set		
Source ID 3 Low (Medium) Incomplete or No Cache-control and Pragma HTTP Header Set		
Low (Medium) Incomplete or No Cache-control and Pragma HTTP Header Set		
	Source ID	
Description The cache-control and pragma HTTP header have not been set properly or are missing allowing the browser and proving to cache content.		
The carrier contest and pragma TTTT include national set properly or are misseling anomality and provide and provide to carrier contests:	Low (Medium)	
URL https://pagead2.googlesyndication.com/getconfig/sodar/?sv=200&tid=gda&tv=r20200506&st=env		Incomplete or No Cache-control and Pragma HTTP Header Set The cache-control and pragma HTTP header have not been set properly or are missing allowing the browser and proxies to cache content.
Method GET	Low (Medium) Description	The cache-control and pragma HTTP header have not been set properly or are missing allowing the browser and proxies to cache content.
Parameter Cache-Control	Low (Medium) Description URL	The cache-control and pragma HTTP header have not been set properly or are missing allowing the browser and proxies to cache content. https://pagead2.googlesyndication.com/getconfig/sodar?sv=200&tid=gda&tv=r20200506&st=env
Evidence private	Low (Medium) Description URL Method	The cache-control and pragma HTTP header have not been set properly or are missing allowing the browser and proxies to cache content. https://pagead2.googlesyndication.com/getconfig/sodar?ev=2008.tid=gda&tv=r20200506&st=env GET

Low (Medium)	Incomplete or No Cache-control and Pragma HTTP Header Set
Description	The cache-control and pragma HTTP header have not been set properly or are missing allowing the browser and proxies to cache content.
	https://www.partner.viator.com/widgets/custom.jspa?
URL	callback=document.viatorWidgetDivCallback_2c409202&setLocale=en&PUID=18531&destinationID=0&numProducts=1&title=1%20Adult%20-
	%20220.00%20USD&width=340&horizontal=false&showThumbs=true&widgetAction=custom&customProductCodes=1010_17652P24&SUBPUID=&linkNewWindow=true
Method	GET .
Parameter	Cache-Control
URL	https://www.partner.viator.com/css/lib/niftycorners.css
Method	GET
Parameter	Cache-Control
Evidence	max-age=2592000
URL	https://www.partner.viator.com/widgets/custom.jspa? callback=document.viator/widgets/custom.jspa? callback=document.viator/widgetDivCallback_afca7497&setLocale=en&PUID=18531&destinationID=0&numProducts=18title=%201%20Adult%20- %2095.00%20USD&width=340&horizontal=false&showThumbs=true&widgetAction=custom&customProductCodes=1010_87020P5&SUBPUID=&linkNewWindow=true
Method	GET
Parameter	Cache-Control
URL	https://www.partner.viator.com/modules/widgets/css/widgets.css
Method	GET
Parameter	Cache-Control
Evidence	max-age=2592000
nstances	4
Solution	Whenever possible ensure the cache-control HTTP header is set with no-cache, no-store, must-revaildate; and that the pragma HTTP header is set with no-cache.
Reference	https://www.owasp.org/index.php/Session_Management_Cheat_Sheet#Web_Content_Caching
CWE Id	525
VASC Id	13
Source ID	3
Low (Medium)	Cookie Without Secure Flag
Description	A cookle has been set without the secure flag, which means that the cookle can be accessed via unencrypted connections.
URL	https://www.partner.viator.com/widgets/custom/jspa? caliback=document.viaton/VidgetDivCaliback_2cdu9202&sett.ocale=en&PUID=18531&destinationID=0&numProducts=1&title=1%20Aduit%20- %2020_00%20US0&with=3408.htm;contal=false&showThumbs=true&widgetAction=custom&customProductCodes=1010_17652P24&SUBPUID=&linkNewWindow=true
Method	GET
Parameter	attibution
Evidence	Set-Cookie: attribution
Littorios	https://www.partner.viator.com/widgets/custom.jspa?
URL	callback=document viator/VidgetDivCallback_2c409202&setLocale=en&PUID=18531&destinationID=0&numProducts=1&title=1%20Adut%20- %20220 00%20USD&width=340&horizontal=false&showThumbs=true&widgetAction=custom&customProductCodes=1010_17652P24&SUBPUID=&linkNewWindow=true
Method	GET
Parameter	AID
Evidence	Set-Cookie: AID
URL	https://www.partner.viator.com/widgets/custom_ispar? callback=document.viatorVidgetDivCallback_2c409202&setLocale=en&PUID=18531&destinationID=0&numProducts=1&ittle=1%20Adult%20- %20220.00%20USD&width=340&horizontal=laise&showThumbs=true&widgetAction=custom&customProductCodes=1010_17652P24&SUBPUID=&linkNewWindow=true
Method	GET
Parameter	aid
Evidence	Se
URL	https://www.partner.viator.com/widgets/custom/jspa? caliback=document.viaton/VidgetDivCaliback_2c409202&sett.ocale=en&PUID=18531&destinationID=0&numProducts=1&title=1%20Aduit%20- %20220_00%20US0&with=3408.htm;contal=false&showThumbs=true&widgetAction=custom&customProductCodes=1010_17652P24&SUBPUID=&linkNewWindow=true
Method	GET
Parameter	ORION_SESSION_18531_REQ
Evidence	Set-Cookie: ORION SESSION 18531 REQ
URL	https://www.partner.viator.com/widgets/custom.jspa? callback=document.viator/WidgetDivCallback_afcar497&setLocale=en&PUID=18531&destinationID=0&numProducts=1&title=%201%20Adult%20-
Jource ID	%2095.00%20USD&width=340&horizontal=false&showThumbs=true&widgetAction=custom&customProductCodes=1010_87020P5&SUBPUID=&linkNewWindow=true
	Continued Company
Low (Medium)	Cookie Without Same Site Attribute A position has been set without the Come Site attribute, which mappe that the positioner has a part on a youth of a large site of appearance. The Come Site attribute is an effective accuracy.
Description	A cookle has been set without the SameSite attribute, which means that the cookle 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, and timing attacks.
URL	https://www.partnerviator.com/widgets/custom/spa? callback-documentviatorWidgetDic/allback_2cdo9202&setLocale=en&PUID=18531&destinationID=0&numProducts=1&title=1%20Aduth%20- %20220.00%20USD&width=340&horizontal=false&showThumbs=true&widgetAction=custom&customProductCodes=1010_17652P24&SUBPUID=&linkNewWindow=true
Method	GET
Parameter	x-viator-tapersistentcookie
	Set-Cookie: x-viator-tapersistentcookie
Evidence	
Evidence	https://www.partner.viator.com/widgets/custom_ispa? callback=document_viator/widgetDivCallback_afca7497&sett_ocale=en&PUID=18531&destinationID=0&numProducts=1&title=%201%20Adult%20-%2095_00%20US0&width=340&Nortontal=false&showThumbs=true&widgetAction=custom&customProductCodes=1010_87020P5&SUBPUID=&linkNewWindow=true
	https://www.partnerviator.com/widgets/custom/jspa? callback=document.viator/widgetDivCallback_afca7497&setLocale=en&PUID=18531&destinationID=0&numProducts=1&title=%201%20Adult%20-%2095.00%20USD&width=340&horizontal=false&show/Thumbs=true&widgetAction=custom&customProductCodes=1010_87020P5&SUBPUID=&linkNewWindow=true GET
URL	callback=document.viator\VidgetDivCallback_afca7497&setLocale=en&PUID=18531&destinationID=0&numProducts=1&ittle=%201%20Adult%20-%2095.00%20USD&width=340&horizontal=false&showThumbs=true&widgetAction=custom&customProductCodes=1010_87020P5&SUBPUID=&linkNewWindow=true
URL Method	callback=document viator\WidgerID\Callback_afca7497&setLocale=en&PUID=18531&destinationID=0&numProducts=1&ittle=%201%20Adult%20- %2095.00%20USD&width=340&horizontal=false&showThumbs=true&widgetAction=custom&customProductCodes=1010_87020P5&SUBPUID=&linkNewWindow=true GET
URL Method Parameter	callback-document viator\/\digotD\/callback. afca7497&setLocale=en&PUID=18531&destinationID=0&numProducts=1&ittle=%201%20Adult%20-%2095.00%20USD&width=340&horizontal=false&show/Thumbs=true&widgetAction=custom&customProductCodes=1010_87020P5&SUBPUID=&linkNew\/\indow=true GET ORION_SESSION_18531 Set-Cookie: ORION_SESSION_18531 https://www.partner.viator.com/vidgets/custom.jspa? callback-document viator\/\digotGetD\/\cappa_clips_callback_afca7497&setLocale=en&PUID=18531&destinationID=0&numProducts=1&title=%201%20Adult%20-
URL Method Parameter Evidence URL	callback-document viator\WidgetD\Callback, afca7497&setLocale=en&PUID=18531&destinationID=0&numProducts=1&ittle=%201%20Adult%20-%2095.00%20USD&width=340&horizontal=false&show/Thumbs=true&widgetAction=custom&customProductCodes=1010_87020P5&SUBPUID=&linkNew\Window=true GET ORION_SESSION_18531 Set-Cookie: ORION_SESSION_18531 https://www.partner.viator.com/widgets/custom.jspa? callback-document viator\widgetD\cdot\cdot\backdocustom\spa? callback-document viator\widgetS\widgetD\cdot\backdocustom\spa? %2095.00%20USD&width=340&horizontal=false&show/Thumbs=true&widgetAction=custom&customProductCodes=1010_87020P5&SUBPUID=&linkNew\Window=true
URL Method Parameter Evidence URL Method	callback-document viator\fividgetD\rCallback_afca7497\&setLocale=en\&PUID=18531\&destinationID=0\&numProducts=1\&title=\%201\%2095\&00\%20USD\&width=340\&horizontal=false\&show\Thumbs=true\&widgetAction=custom\&custom\&ProductCodes=1010_87020P5\&SUBPUID=&link\&width\&findow=true\\ GET\ ORION_SESSION_18531\ Set-Cookie: ORION_SESSION_18531\ https://www.partner-viator.com/widgets/custom\&spa? callback-document viator\widgetD\rCallback_afca7497\&setLocale=en\&PUID=18531\&destinationID=0\&numProducts=1\&title=\%201\%20Adult\%20-\%2095\&00\%20USD\&width=340\&horizontal=false\&show\Thumbs=true\&widgetAction=custom\&custom\ProductCodes=1010_87020P5\&SUBPUID=&link\&width\&window=true\\ GET\
URL Method Parameter Evidence URL Method Parameter	callback-document viator\fidgetD\callback_afca7497&setLocale=en&PUID=18531&destinationID=0&numProducts=1&ittle=%201%20Adult%20- %2095.00%20USD&width=340&horizontal=false&showThumbs=true&widgetAction=custom&customProductCodes=1010_87020P5&SUBPUID=&linkNewWindow=true GET ORION_SESSION_18531 Set-Cookie: ORION_SESSION_18531 https://www.patner.viator.com/widgets/custom.jspa? callback-document_viator\fidgetD\callback_afca7497&setLocale=en&PUID=18531&destinationID=0&numProducts=1&ittle=%201%20Adult%20- %2095.00%20USD&width=340&horizontal=false&showThumbs=true&widgetAction=custom&customProductCodes=1010_87020P5&SUBPUID=&linkNew\findow=true GET JSESSIONID
URL Method Parameter Evidence URL Method	callback-document viatorWidgetDivCallback_afca7497&setLocale=en&PUID=18531&destinationID=0&numProducts=1&title=%201%20Adult%20- %2095.0%%20USD&width=340&horizontal=false&showThumbs=true&widgetAction=custom&customProductCodes=1010_87020P5&SUBPUID=&linkNewWindow=true GET ORION_SESSION_18531 Set-Cookie: ORION_SESSION_18531 https://www.partner.viator.com/widgets/custom.jspa? callback=document viatorVidgetDivCallback_afca7497&setLocale=en&PUID=18531&destinationID=0&numProducts=1&title=%201%20Adult%20- %2095.00%20USD&width=340&horizontal=false&showThumbs=true&widgetAction=custom&customProductCodes=1010_87020P5&SUBPUID=&linkNewWindow=true GET JSESSIONID Set-Cookie: JSESSIONID
URL Method Parameter Evidence URL Method Parameter	callback-document viator\fidgetD\callback_afca7497&setLocale=en&PUID=18531&destinationID=0&numProducts=1&ittle=%201%20Adult%20- %2095.00%20USD&width=340&horizontal=false&showThumbs=true&widgetAction=custom&customProductCodes=1010_87020P5&SUBPUID=&linkNewWindow=true GET ORION_SESSION_18531 Set-Cookie: ORION_SESSION_18531 https://www.patner.viator.com/widgets/custom.jspa? callback-document_viator\fidgetD\callback_afca7497&setLocale=en&PUID=18531&destinationID=0&numProducts=1&ittle=%201%20Adult%20- %2095.00%20USD&width=340&horizontal=false&showThumbs=true&widgetAction=custom&customProductCodes=1010_87020P5&SUBPUID=&linkNew\findow=true GET JSESSIONID
URL Method Parameter Evidence URL Method Parameter Evidence	callback-document viator\MidgetD\Callback_afca7497&setLocale=en&PUID=18531&destinationID=0&numProducts=1&itile=%201%20Adult%20- %2095.0%\20USD&width=340&horizontal=false&showThumbs=true&widgetAction=custom&customProductCodes=1010_87020P5&SUBPUID=&linkNewWindow=true GET ORION_SESSION_18531 Set-Cookie: ORION_SESSION_18531 https://www.partner.viator.com/widgets/custom.jspa? callback=document.viator\fidgetD\callback_afca7497&setLocale=en&PUID=18531&destinationID=0&numProducts=1&itite=%201%20Adult%20- %2095.00%20USD&width=340&horizontal=false&showThumbs=true&widgetAction=custom&customProductCodes=1010_87020P5&SUBPUID=&linkNewWindow=true GET JSESSIONID Set-Cookie: JSESSIONID https://www.partner.viator.com/widgets/custom.jspa? callback=document.viator\fidgetD\callback_afca7497&setLocale=en&PUID=18531&destinationID=0&numProducts=1&ititle=%201%20Adult%20- callback=document.viator\fidgetD\callback_afca7497&setLocale=en&PUID=18531&destinationID=0&numProducts=1&ititle=%201%20Adult%20- callback=document.viator\fidgetD\callback_afca7497&setLocale=en&PUID=18531&destinationID=0&numProducts=1&ititle=%201%20Adult%20-
URL Method Parameter Evidence URL Method Parameter Evidence URL	callback-document viator\(\frac{\text{viator}}{\text{dipedDivCallback}}, afca7497\(\text{&setLocale=en8PUID=185318.destinationID=08numProducts=18title=%201%20Adult%20-\text{\text{\text{viator}}} \) GET ORION_SESSION_18531 Set-Cookie: ORION_SESSION_18531 https://www.partner.viator.com/widgetb/custom/spa? callback-document viator\(\text{viator}\) GET GET JESSIONID Set-Cookie: ORION_SESSION_18531 https://www.partner.viator.com/widgetb/custom/spa? callback-document viator\(\text{viator}\) GET JSESSIONID Set-Cookie: JSESSIONID https://www.partner.viator.com/widgetb/custom/spa? callback-document viator\(\text{viator}\) Set-Cookie: JSESSIONID https://www.partner.viator.com/widgetb/custom/spa? callback-document viator\(\text{viator}\) Set-Cookie: JSESSIONID https://www.partner.viator.com/widgetb/custom/spa? callback-document viator\(\text{viator}\) Alter (callback-document viator\(\text{viator}\) Set-Cookie: JSESSIONID https://www.partner.viator.com/widgetb/custom/spa? callback-document viator\(\text{viator}\) Callback-document viator\(\text{viator}\) Alter (callback-document viator\(\text{viator}\) Alter (callback-document viator\(\text{viator}\) Callback-document viator\(\text{viator}\) Alter (callback-document viator\(\text{viator}\) Callback-document viator\(\text{viator}\) Alter (callback-document viator\(\text{viator}\) Alter (callback-document viator\(\text{viator}\) Callback-document viator\(\text{viator}\) Alter (callback-document viator\(\text{viator}\) Callback-document v

Low (Medium)	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 (in on is set), rather than performing MIME-sniffing.
URL	https://www.partner.viator.com/css/lib/niftycorners.css
Method	GET
Parameter	X-Content-Type-Options
	https://www.partnerviator.com/widgets/custom.jspa?
URL	callback=document.viatorWidgetDivCallback_afcar497&sett.ocale=en&PUID=18531&destinationID=0&numProducts=1&title=%201%20Adult%20-%2095.00%20USD&width=340&horizontal=false&showThumbs=true&widgetAction=custom&customProductCodes=1010_87020P5&SUBPUID=&linkNewWindow=true
Method	GET
Parameter	X-Content-Type-Options
URL	https://www.partner.viator.com/modules/widgets/js/initWidget js?v=2018.10.17.2
Method	GET
Parameter	X-Content-Type-Options
URL	https://www.partner.viator.com/modules/widgets/css/widgets.css
Method	GET
Parameter	X-Content-Type-Options
URL	https://www.partner.viator.com/widgets/custom.jspa? callback=document.viator\WidgetDivCallback_2c409202&setLocale=en&PUID=18531&destinationID=0&numProducts=1&title=1%20Adult%20- %20220_00%20USD&width=340&honizontal=false&showThumbs=true&widgetAction=custom&customProductCodes=1010_17652P24&SUBPUID=&inkNewWindow=true
Method	GET
Parameter	X-Content-Type-Options
nstances	5
	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.
Solution	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.
Low (Medium)	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://partner.vtrcdn.com/modules/widgets/js/initWidget.js?v=2018.10.17.2
Method	GET .
Parameter	X-Content-Type-Options
nstances	1
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
Other information	application/web server to not perform MIME-sniffing. 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 scanner will not alert on client or server error responses.
Reference	http://msdn.microsoft.com/en-us/library/ie/gg622941%28v=vs.85%29.aspx
Kelelelice	https://www.owasp.org/index.php/List_of_useful_HTTP_headers
CWE Id	16
WASC Id	15
Source ID	3
Low (Medium)	Incomplete or No Cache-control and Pragma HTTP Header Set
Description	The cache-control and pragma HTTP header have not been set properly or are missing allowing the browser and proxies to cache content.
URL	https://www.gstatic.com/chrome/intelligence/assist/ranker/models/translate/2017/03/translate_ranker_model_2017/0329.pb.bin
Method	GET
Parameter	Cache-Control
Evidence	public, max-age=31536000
Low (Medium)	Incomplete or No Cache-control and Pragma HTTP Header Set
Description	The cache-control and pragma HTTP header have not been set properly or are missing allowing the browser and proxies to cache content.
URL	https://fonts.googleapis.com/css? family=Open-Sans.400%2C7001talic%2C400ltalic%2C400ltalic%2CO00talic%2C00dtalic%2C700%2C700ltalic%2C400ltalic%2C700%2C700%2C700%2
	C400italic%2C700%2C700italic%7CArimo:400%2C700%7CTinos:400%2C400italic%2C700%2C700italic%7CRoboto+Mono:400%2C700%7CInconsolata%7CHandlee%7CUltra⊂=latin%2Clatin-ext
Method	C400italic%2C700%2C700italic%7CArimo:400%2C700%7CTinos:400%2C400italic%2C700%2C700italic%7CRoboto+Mono:400%2C700%7CInconsolata%7CHandlee%7CUltra⊂
	C400italic%2C700%2C700italic%7CArimo:400%2C700%7CTinos:400%2C400italic%2C700%2C700italic%7CRoboto+Mono:400%2C700%7CInconsolata%7CHandlee%7CUltra⊂=latin%2Clatin-ext
Method Parameter Evidence	C400italic%2C700%2C700italic%7CArimo:400%2C700%7CTinos:400%2C400italic%2C700%2C700italic%7CRoboto+Mono:400%2C700%7CInconsolata%7CHandlee%7CUltra⊂=latin%2Clatin-ext GET
Method Parameter Evidence Instances	C400ttatic%2C700%2C700tatic%7CArimo:400%2C700%7CTinos:400%2C400ttatic%2C700%2C700ttatic%7CRoboto+Mono:400%2C700%7CInconsolata%7CHandlee%7CUltra⊂=latin%2Clatin-ext GET Cache-Control private, max-age=86400, stale-while-revalidate=604800 1
Method Parameter Evidence nstances Solution	C400tatic%2C700%2C700tatic%7CArimo.400%2C700%7CTinos:400%2C400tatic%2C700%2C700tatic%7CRoboto+Mono.400%2C700%7CInconsolata%7CHandlee%7CUltra⊂ GET Cache-Control private, max-age=86400, stale-while-revalidate=604800 1 Whenever possible ensure the cache-control HTTP header is set with no-cache, no-store, must-revalidate, and that the pragma HTTP header is set with no-cache.
Method Parameter Evidence instances Solution Reference	C400tatic%2C700%2C700tatic%7CArimo.400%2C700%7CTinos:400%2C400tatic%2C700%2C700tatic%7CRoboto+Mono.400%2C700%7CInconsolata%7CHandlee%7CUltra⊂ GET Cache-Control private, max-age=86400, stale-while-revalidate=604800 1 Whenever possible ensure the cache-control HTTP header is set with no-cache, no-store, must-revalidate; and that the pragma HTTP header is set with no-cache. https://www.owasp.org/index.php/Session_Management_Cheat_Sheet#Web_Content_Caching
Method Parameter Evidence Instances Solution Reference	C400tatic%2C700%2C700tatic%7CArimo.400%2C700%7CTinos:400%2C400tatic%2C700%2C700tatic%7CRoboto+Mono.400%2C700%7CInconsolata%7CHandlee%7CUltra⊂=latin%2Clatin-ext GET Cache-Control private, max-age=86400, stale-while-revalidate=604800 1 Whenever possible ensure the cache-control HTTP header is set with no-cache, no-store, must-revalidate; and that the pragma HTTP header is set with no-cache. https://www.owasp.org/index.php/Session_Management_Cheat_Sheet#Web_Content_Caching 525
Method Parameter Evidence Instances Solution Reference CWE Id WASC Id	C400tatic%2C700%2C700tatic%7CArimo.400%2C700%7CTinos.400%2C400tatic%2C700%2C700tatic%7CRoboto+Mono.400%2C700%7CInconsolata%7CHandlee%7CUltra⊂ set=tatin%2Clatin-ext GET Cache-Control private, max-age=86400, stale-while-revalidate=604800 1 Whenever possible ensure the cache-control HTTP header is set with no-cache, no-store, must-revalidate, and that the pragma HTTP header is set with no-cache. https://www.owasp.org/index.php/Session_Management_Cheat_Sheet#Web_Content_Caching 525 13
Method Parameter Evidence instances Solution Reference CWE Id WASC Id Source ID	C400tatic%2C700%2C700tatic%7CArimo.400%2C700%7CTinos:400%2C400tatic%2C700%2C700tatic%7CRoboto+Mono.400%2C700%7CInconsolata%7CHandlee%7CUltra⊂ sel-latin%2Clatin-ext GET Cache-Control private, max-age=86400, stale-while-revalidate=604800 1 Whenever possible ensure the cache-control HTTP header is set with no-cache, no-store, must-revalidate; and that the pragma HTTP header is set with no-cache. https://www.owasp.org/index.php/Session_Management_Cheat_Sheet#Web_Content_Caching 525 13 3
Method Parameter Evidence Instances Solution Reference CWE Id WASC Id Source ID Low (Medium)	C400tatic%2C700%2C700tatic%7CArimo.400%2C700%7CTinos.400%2C400tatic%2C700%2C700tatic%7CRoboto+Mono.400%2C700%7CInconsolata%7CHandlee%7CUltra⊂ GET Cache-Control private, max-age=86400, stale-while-revalidate=604800 1 Whenever possible ensure the cache-control HTTP header is set with no-cache, no-store, must-revalidate; and that the pragma HTTP header is set with no-cache. https://www.owasp.org/index.php/Session_Management_Cheat_Sheet#Web_Content_Caching 525 13 3 X-Content-Type-Options Header Missing 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 to be interpreted and displayed as a content type other than the declared content type. Current (early 2014) and legacy versions of Firefox
Method Parameter Evidence nstances Solution Reference VWE Id WASC Id Source ID Low (Medium) Description	C400tatic%2C700%2C700tatic%7CArimo.400%2C700%7CTinos.400%2C400tatic%2C700%2C700tatic%7CRoboto+Mono.400%2C700%7CInconsolata%7CHandlee%7CUltra⊂=latin%2Clatin-ext GET Cache-Control private, max-age=86400, stale-while-revalidate=604800 1 Whenever possible ensure the cache-control HTTP header is set with no-cache, no-store, must-revalidate, and that the pragma HTTP header is set with no-cache. https://www.owasp.org/index.php/Session_Management_Cheat_Sheet#Web_Content_Caching 525 13 3 X-Content-Type-Options Header Missing 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 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.
Method Parameter Evidence nstances Solution Reference UVE Id NASC Id Source ID Low (Medium) Description	C400tatic%2C700%2C700tatic%7CArimo.400%2C700%7CTinos.400%2C400tatic%2C700%2C700tatic%7CRoboto+Mono.400%2C700%7CInconsolata%7CHandlee%7CUltra⊂=latin%2Clatin-ext GET Cache-Control private, max-age=85400, stale-while-revalidate=604800 1 Whenever possible ensure the cache-control HTTP header is set with no-cache, no-store, must-revalidate; and that the pragma HTTP header is set with no-cache. https://www.owasp.org/index.php/Session_Management_Cheat_Sheet#Web_Content_Caching 525 13 3 X-Content-Type-Options Header Missing 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 (or no is set), rather than performing MIME-sniffing https://sigiriyatourism.com/wp-content/cache/autoptimize/css/autoptimize/css/autoptimize_15ac691e8488c14c820b02c7a328b688.css
Method Parameter Evidence instances Solution Reference CWE Id WASC Id Source ID Low (Medium) Description URL Method	C400tatic%2C700%2C700tatic%7CArimo.400%2C700%7CTinos:400%2C400tatic%2C700%2C700tatic%7CRoboto+Mono.400%2C700%7CInconsolata%7CHandlee%7CUltra⊂=latin%2Clatin-ext GET Cache-Control private, max-age=86400, stale-while-revalidate=604800 1 Whenever possible ensure the cache-control HTTP header is set with no-cache, no-store, must-revalidate; and that the pragma HTTP header is set with no-cache. https://www.owasp.org/index.php/Session_Management_Cheat_Sheet#Web_Content_Caching 525 13 3 X-Content-Type-Options Header Missing 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 (for no le set), rather than performing MIME-sniffing. https://sligit/yatourism.com/wp-content/cache/autoptimize/css/autoptimize_15ac691e8488c14c820b02c7a328b688.css GET
Method Parameter Evidence nstances Solution Reference CWE Id WASC Id Source ID Low (Medium) Description URL Method Parameter	C400tatic%2C700%2C700tatic%7CArimo.400%2C700%7CTinos:400%2C400tatic%2C700%2C700tatic%7CRoboto+Mono.400%2C700%7CInconsolata%7CHandlee%7CUltra&sut GET Cache-Control private, max-age=86400, stale-while-revalidate=604800 1 Whenever possible ensure the cache-control HTTP header is set with no-cache, no-store, must-revalidate; and that the pragma HTTP header is set with no-cache. https://www.owasp.org/index.php/Session_Management_Cheat_Sheet#Web_Content_Caching 525 13 3 X.Content-Type-Options Header Missing The Antl-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 https://sigifrystourism.com/wp-content/cache/autoptimize/css/autoptimize_15ac691e8488c14c820b02c7a328b688.css GET X-Content-Type-Options
Method Parameter Evidence Instances Solution Reference CWE Id WASC Id Source ID Low (Medium) Description URL Method	C400tatic%2C700%2C700tatic%7CArimo.400%2C700%7CTinos:400%2C400tatic%2C700%2C700tatic%7CRoboto+Mono.400%2C700%7CInconsolata%7CHandlee%7CUltra⊂=latin%2Clatin-ext GET Cache-Control private, max-age=86400, stale-while-revalidate=604800 1 Whenever possible ensure the cache-control HTTP header is set with no-cache, no-store, must-revalidate; and that the pragma HTTP header is set with no-cache. https://www.owasp.org/index.php/Session_Management_Cheat_Sheet#Web_Content_Caching 525 13 3 X-Content-Type-Options Header Missing 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 (for no le set), rather than performing MIME-sniffing. https://sligit/yatourism.com/wp-content/cache/autoptimize/css/autoptimize_15ac691e8488c14c820b02c7a328b688.css GET

Low (Medium)	Cross-Domain JavaScript Source File Inclusion
Description	The page includes one or more script files from a third-party domain.
URL	https://sigir/yatourism.com/
Method	GET
Parameter	//pagead2.googlesyndication.com/pagead/js/adsbygoogle.js
Evidence	<pre><script async="" src="//pagead2.googlesyndication.com/pagead/js/adsbygoogle.js"></pre>/script></pre></td></tr><tr><td>URL</td><td>https://sigiriyatourism.com/</td></tr><tr><td>Method</td><td>GET</td></tr><tr><td>Parameter</td><td>//partner.vtrcdn.com/modules/widgets/js/init/Widget.js?v=2018.10.17.2</td></tr><tr><td>Evidence</td><td><script type="text/javascript" src="//partner.vtrcdn.com/modules/widgets/js/initWidget.js?v=2018.10.17.2" ></script></pre>
URL	https://sigiriyatourism.com/
Method	GET
Parameter	https://www.partner.viator.com/modules/widgets/js/finitWidget.js?v=2018.10.17.2
Evidence	<script src="https://www.partner.viator.com/modules/widgets/js/initWidget.js?v=2018.10.17.2" type="text/javascript"></script>
Instances	3
Solution Reference	Ensure JavaScript source files are loaded from only trusted sources, and the sources can't be controlled by end users of the application.
CWE Id	829
WASC Id	15
Source ID	3
	L. H. N. C. L. L. L. D. WITTON L. C.
Low (Medium)	Incomplete or No Cache-control and Pragma HTTP Header Set
Description	The cache-control and pragma HTTP header have not been set properly or are missing allowing the browser and proxies to cache content.
URL	https://sigiriyatourism.com/wp-content/cache/autoptimize/css/autoptimize_15ac691e8488c14c820b02c7a328b688.css
Method	GFT
URL	https://sigiriyatourism.com/
Method	GET
Parameter	Cache-Control
Evidence	max-age=3, must-revalidate
Instances	2
Solution Reference	Whenever possible ensure the cache-control HTTP header is set with no-cache, no-store, must-revalidate; and that the pragma HTTP header is set with no-cache. https://www.owasp.org/index.php/Session_Management_Cheat_Sheet#Web_Content_Caching
CWE Id	mps/www.orasp.org/mos.pnp-session_management_creat_sheep-return_content_caching 525
WASC Id	13
Source ID	3
Law (Madham)	Name of Aut CODE Tales
Low (Medium)	Absence of Anti-CSRF Tokens No Anti-CSRF tokens were found in a HTML submission form.
Description	A cross-site request forgery is an attack that involves forcing a victim to send an HTTP request to a target destination without their knowledge or intent in order to perform an action as the victim. The underlying cause is application functionally using predictable URL/form actions in a repeatable way. The nature of the attack is that CSRF exploits the trust that a web site has for a user. By contrast, cross-site scripting (XSS) exploits the trust that a user has for a web site. Like XSS, CSRF attacks are not necessarily cross-site, but they can be. Cross-site request forger is also known as CSFR, XSRF, one-click attack, session riding, confused deputy, and sea surf. CSRF attacks are effective in a number of situations, including: "The victim has an active session on the target site. "The victim is authenticated via HTTP auth on the target site. "The victim is on the same local network as the target site. CSRF has primarily been used to perform an action against a target site using the victim's privileges, but recent techniques have been discovered to disclose information by gaining access to the response. The risk of information disclosure is dramatically increased when the target site is vulnerable to XSS, because XSS can be used as a platform for CSRF,
	allowing the attack to operate within the bounds of the same-origin policy.
URL	https://sigiriyatourism.com/
Method	GET
Informational (Medium)	Information Disclosure - Sensitive Information in URL
Description	The request appeared to contain sensitive information leaked in the URL. This can violate PCI and most organizational compliance policies. You can configure the list of strings for this
Безсприон	check to add or remove values specific to your environment.
URL	https://partner.googleadservices.com/gampad/cookle.js?domain=sigiriyatourism.com&callback=_gfp_s_&Client=ca-pub-5387217387406024
Method	GET
Parameter	client
Evidence	ca-pub-5387217387406024
Instances	1
Solution	Do not pass sensitive information in URIs.
Other information	The URL appears to contain credit card information.
Reference	
CWE Id	200
WASC Id	13
Source ID	3
Informational (Medium)	Information Disclosure - Sensitive information in URL
Description	The request appeared to contain sensitive information leaked in the URL. This can violate PCI and most organizational compliance policies. You can configure the list of strings for this
URL	check to add or remove values specific to your environment. https://googleads.g.doubleclick.net/pagead/ads/client=ca-pub- 53872173674060248.doupupt=html&adste=18122718048.adsf=30251942578.lmt=15890419648.plat=1%3A32776%2C2%3A16809992%2C8%3A32776%2C9%3A32776%2C16%3A83886 08%2C17%3A32%2C24%3A32%2C25%3A32%2C30%3A1048576%2C32%3A32%2C40%3A328guci=2.2.0.0.2.2.0.0.8format=0x08.url=https:%3A%2F%2Fsigiriyatourism.com%2F8e =#8fissh=08pr=278wigi=18.adsid=NT8.dt=15890419577208.bbp=28bdt=121138id=66278shv=120209568cbv=221901373fstpt=8sa8id=reaabbxe=18.coolkie=10%3D4dc15ec1620e 86e%3AT%3D1659042269%3A5%3DALNI MadaoV3wcdD2rK0R6fg/W 37OLIBA8cv=18prev_fmts=661x2608xnas=18.coorelator=5789514138id=66278shv=120209568cbv=221901373fstpt=8sa8id=reaabbxe=18.coolkie=10%3D4dc15ec1620e 87OLIBA8cv=18prev_fmts=661x2608xnas=18.coolkie=10%3D4dc15ec1620e 87OLIBA8cv=18prev_fmts=661x2608xnas=18.coolkie=10%3D4dc15ec1620e 87OLIBA8cv=18prev_fmts=661x2608xnas=18.coolkie=10%3D4dc15ec1620e 87OLIBA8cv=18prev_fmts=661x2608xnas=18.coolkie=10%3D4dc15ec1620e 87OLIBA8cv=18prev_fmts=661x2608xnas=18coolkie=10%3D4dc15ec1620e 87OLIBA8cv=18prev_fmts=661x2608xnas=18coolkie=10%3D4dc1
Method	32/00/76/2-32/00/76/2-32/00/76/2-100/76/2-100/76/2-20/7-103/76/2-104/76/2-76/7-104/76/7-104/76/7-104/76/7-104
Parameter	client
T MIMITORUI	one in

Informational (Low)	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://hpc.googlesyndication.com/sodar/sodar/2.js
Method	GET
URL	https://tpc.googlesyndication.com/sodar/sodar/2/209/runner.html
Method	GET .
Instances	2
Solution	Remove all comments that return information that may help an attacker and fix any underlying problems they refer to.
Other information	The following comment/snippet was identified via the pattern: \bDB\b function ab(a)\(return new M(function(b, 0)\(a \) botguard\(s\) & a \) botguard bg/a a =new a b botguard bg(a \(v\) b)\(c\))\(\)\(return new M(function(b)\(c\))\(return new M(function(b)\(return new M(function
	function tb(a)[switch(a context)(case "pt":a=new Z(a) break.case "c":a=new Y(a) break.default.throw 2];f(window.postMessages&XT(a))throw 8:return a g()];f(unction()(var a=ceb);tyf(seturn a*2(b),2.14(gldb);new M(function(b,c)(setTimeout(function()(ceb()));5E3))))) then(function()(a=cb);if(a)throw eb();return tb(a));function(b)(return sb(b,a)))(cath(tb)); call(this);
Reference	
CWE Id	200
WASC Id	13
Source ID	3
Informational floor	Tours Distance University
Informational (Low)	Timestamp Disclosure - Unix
Description	A timestamp was disclosed by the application/web server - Unix
URL	https://update.googleapis.com/service/update2/json?cup2key=9:356623786&cup2hreq=61b05dc83b776c9a4f0085dfa4f1bbf985314f8f417afca0214d286fd076b52b
Informational (Low)	Timestamp Disclosure - Unix
Description	A timestamp was disclosed by the application/web server - Unix
URL	https://www.googletgreenices.com/activey/autis/current/sed is26h=%/2Fc/20100101
	https://www.googletagservices.com/activeview/js/current/osd js?cb=%2Fr/20100101
Method	GET CALCARDA
Evidence	2146435072
URL	https://www.googletagservices.com/activeview/js/current/osd.js?cb=%2Fr20100101
Method	GET
Evidence	480596785
URL	https://www.googletagservices.com/activeview/js/current/osd.js?cb=%2Fr20100101
Method	GET
Evidence	20200508
URL	https://www.googletagservices.com/activeview/js/current/osd.js?cb=%2Fr20100101
Method	GET
Evidence	12245933
URL	https://www.googletagservices.com/activeview/js/current/osd.js?cb=%2Fr20100101
Method	GET
Evidence	480596784
URL	https://www.googletagservices.com/activeview/js/current/osd.js?cb=%2Fr20100101
Method	GET
Evidence	79463069
URL	https://www.googletagservices.com/activeview/js/current/osd.js?cb=%2Fr20100101
Method	GET
Evidence	68123728
URL	https://www.googletagservices.com/activeview/js/current/osd.js?cb=%2Fr/20100101
Method	IIIIps://www.googleta/gsetvices.com/activeview/js/cumenioso/js/cum-/s2/12/10/10/1
Informational (Low)	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://www.googletagservices.com/activeview/js/current/osd.js?cb=%2Fr20100101
Method	GET
Instances	1
Solution	Remove all comments that return information that may help an attacker and fix any underlying problems they refer to. The following comment/snippet was identified via the pattern: \bDB\bDB\bDB\bDB\bDB\bDB\bDB\bDB\bDB\bDB
	var tfunction aa(a)(var b=0 return function)(return b <a (done:10))))inction="" b="1" ba(a)(var="" iterator&<="" iterator&a(symboli="" iterator)&a(symboli="" length?(done:11,value:a b++]]="" symboli&symboli="" td="" undefined*1=");peof">

Informational (Low)	Timestamp Disclosure - Unix
Description	A timestamp was disclosed by the application/web server - Unix
URL	https://partner.googleadservices.com/gampad/cookie.js?domain=sigiriyatourism.com&callback=_gfp_s_&client=ca-pub-5387217387406024
Method	GET
Evidence	1589042289
URL	https://partner.googleadservices.com/gampad/cookie.js?domain=sigiriyatourism.com&callback=_gfp_s_&client=ca-pub-5387217387406024
Method	GET SECOND SECON
Evidence Instances	1652114289 2
Solution	Manually confirm that the timestamp data is not sensitive, and that the data cannot be aggregated to disclose exploitable patterns.
Other information	1589042289, which evaluates to: 2020-05-09 22:08:09
	https://www.owasp.org/index.php/Top_10_2013-A6-Sensitive_Data_Exposure
Reference	http://projects.webappsec.org/w/page/13246936/Information%20Leakage
CWE ld	map projects, recepped or graphege in 240000 minimum autreanage 200
WASC Id	13
Source ID	3
Informational (Low)	Timestamp Disclosure - Unix
Description	Milessum processors of the application/web server - Unix A timestamp was disclosed by the application/web server - Unix
URL	https://www.google-analytics.com/analytics.js
Method	GET 2147483647
Evidence URL	
Method	https://www.google-analytics.com/analytics.js GET
Evidonos	NET 1 CONTRACT
Informational (Low)	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	
Method	https://www.google-analytics.com/analytics.js GET
Instances	1
Solution	
	The following comment/snippet was identified via the pattern: \bQUERY\b
	b)),a=b,break,case "protocol" a=c,break.case "host" a=a hostname replace(y,") tol.overCase(),break.case "port" a=5ting()(m),break (a=b,break) = 0.00 (b),break.case "port" a pathamella hostname();a=a pathamea bustin() 1/a pathamella hostname();a=a pathamea a=a split(")",a lift()=[-cala angth-1]a/ray,prototype indexOf(b-b-indexOf(c),b="number"==typeof b7b-1;else(for(var d=0.d <bled "),break.case="" "query";a="a"),a="a" 3988292384.d="" \bquery\b="" a b="-1]0<=b&&(a a" comment="" following="" hength-d++)if(b[d]="==c)b=d,break" identified="" join("="" length-1]="" pattern:="" replace("?")="" search="" snippet="" the="" via="" was="">>>1,b[c]=d])]=b=4294967295.for(c=0.c<a length.c++)b="b">>>8+ [(b^a c.harCodeAt(c))&255].return((b^-1)>>>0).toString(36)),c=function(a)(return function(b)(var c=B(r(ocation herd),d=c.search replace("")"),a (var f=d.split("a) for(var e=0.e<flat falls),bright("),bright("),bright("),bright("),bright("),bright("),bright("),bright("),bright("),bright("),bright("),bright("),bright("),bright("),bright("),bright("),bright("),d("));bright("),d("));bright("),d("),d("));bright("),d("),bright("),d("),d("));bright("),d("),d("),d("));bright("),d("),d("),d("));bright("),d("),d("),d("));bright("),d("),d("),d("));bright("),d("),d("),d("));bright("),d("),d("),d("));bright("),d("),d("),d("));bright("),d("),d("),d("));bright("),d("),d("),d("));bright("),d("),d("),d("));bright("),d("),d("),d("));bright("),d("),d("),d("));bright("),d("),d("),d("));bright("),d("),d("),d("));bright("),d("),d("),d("),d("),d("),d("),d("),d<="" td=""></flat></bled>
	The following comment/snippet was identified via the pattern: \bQUERY\b \text{var} \text{-function(a)}(try(a; \text{for}(var) b= 100.a&&0.cb.)\(\text{fi}_a\text{ herd&a}\) and \text{mare} \text{ match}(a)\(\text{var} c=a.break a)=a \text{ aperathode.b}(c=null)\(\text{if}_c\) (c)\(\text{var} c=a.break a)=a \text{ aperathode.b}(c=a.break a)=a \text{ pare} \text{ aperathode.b}(c=a.break a)=a \text{ pare} \text{ aperathode.b}(c=a.break a)=a \text{ pare} \
Other information	Ya prototype set=function(a,b,c,l)fif(a)fif(object"==typeof a)for(var d in a)a hasOwnProperty(d)&&ab(this,d,d,d,c,else ab(this,a,b,c)),var ab=function(a,b,c,d)fif(void 01=c)switch(b)(case Nawb.test(c))var e=Sa(b), e&&a o^a o (a,b,c,d) = a data set(b,c,d)) var us=new ea v=t[bb=function(a,b,c,d,el),this name=a this F=b,this Z=d this o=e this default/alue=c) &s=function(a) (var b=ug eqt(a),tif(b)) for(var c=0.cv=le,anght,c+1)var d=vel(a), e=f(d) exec_a (if(e)) f=f(d) exe_a (if(e)) f=f(d) ex
Informational (Low)	Timestamp Disclosure - Unix
Description	A timestamp was disclosed by the application/web server - Unix
URL	https://googleads.g.doubleclick.net/pageaddads/client-ca-pub-53872173874002/3480upl=thm18ads=1812271048ads=20251942578.lm=15890419648plas=1%3A32776%2C2%3A16809992%2C8%3A32776%2C9%3A32776%2C16%3A83886 08%2C17%3A32%2C24%3A32%2C25%3A32%2C30%3A1048576%2C32%3A32%2C40%3A328gucl=2.2.0.0.2.2.0.08format=0x08url=https%3A%2F%2Fsigiriyatourism.com%2F&e=2080e33A1%3D16804228993%3A5%3C156%3C25%3A32%2C40%3A32%2C20%3A32%2C90%3A1048576%2C32%3A32%2C40%3A328gucl=2.2.0.0.2.2.0.08format=0x08url=https%3A%2F%2Fsigiriyatourism.com%2F&e=2080e3A3A7%3D16804228993%3A5%3D14M36a073wa0f2x618890/478489149628ga.sid=15804419638ga.sid
Method	32000 %2C-32000 %2C-32000 %2C 1300 %2C 100 %2C 100 %2C 1034 %2C 31 00015-20152- %1 C %1 C 5 %1 C 6801-N 3610-32 22 000-31 0111-3600-81 36150-1 0010-0030 GET
Evidence	3000001
URL	https://googloads.g.doubleclick.nct/pagead/ads/2client=ca.pub- 538721786/4800248-boutput-htmls.ed=612718084ad=5251942574[mt=15890419648plat=1%3A32776%2C2%3416809992%2C8%3A32776%2C9%3A32776%2C16%3A83886 09%2C17%3A0264-boutput-htmls.ed=612718084ad=5251943578452623%3A328gcc264%3A328gcc262 2.0.0.2.2.0.08formate=0x8ut=htmps%3A%2F%2Fsigiriyatourism.com%2F&e a=0x81ats-hc3par=18_wpt=18_dadd=h78_add=18_509419577206bpp=28.bd=1211384d=66278_abv=n202005068_cbv=20190118_ptt=98_add=aa8_abbv=18_cookle=10%3D4dc15ect_620e 86e%3A7%3D1689042289%3A5%3OALNI. MadaOV3wc4D2rk63H86ffy 37OLIBA6xv=18_ptv=18_bree=16_cookle=n26_absv=18_cookle=10%3D4dc15ect_620e 86e%3A7%3D1689042289%3A5%3OALNI. MadaOV3wc4D2rk63H86ffy 37OLIBA6xv=18_ptv=18_bree=16_cookle=n26_absv=18_cookle=n2
	32000%2C-32000%2C-32000%2C-32000%2C1366%2C0%2C150%2C28%2C1034%2C576&vis=28rsz=%7C%7Cs%7C&abl=NS&tu=92328bc=318ii=38ucl=a138fsb=18dtd=6636
Method	GET
Evidence	85000002
URL	https://googleads.g.doubleclick.net/pagead/ads/?client-ca-pub-53872173874060248cbupt-thmth8ads-e18122716048ad-50251942578.lmt=15890419648plat=1%3A32776%2C2%3A16809992%2C8%3A32776%2C9%3A32776%2C16%3A3886 08%2C17%3A32%2C24%3A32%2C25%3A32%2C30%3A1048576%2C32%3A32%2C40%3A328guic-2 2.0.0.2.2.0.08format=0x08ut=https%3A%2F%2Fsigiryatourism.com%2F&e a=0.8flash=0.8gpa=78_weig=18_adsid=NT&att=15890419577208bpp=28.bdt=121138id=66278&att=20.2005686cb;3A17%3D1589042289%3A5%3D1A.lnl.Mada0/Jowc4D27k8l1889lv. 37OLIBAA6xr=18_prev_inter=661x208xr=ars-facorelator=5789514039474Afm=208pv=18ga_vid=1425948114_15890419628ga_sid=15890419638ga_hid=10364989258ga_fc=08.ia g=08.isgg=367114076278dssz=298mdo=08mso=08u_tz=3308u_his=28u_java=08u_h=7688u_w=13688u_d=1288u_av=13688u_d=248u_nplug=38u_minime=48.adx=-1224933 adxy=122493338bwi=10178bih=57688cz_v=88scz_v=08cd=2160808%2C4100157086304=38pvsid=72885d3898bem=3848xc=08ea=2840=28009%2C3009%2C
Method	32000%2C-32000%2C-32000%2C1366%2C0%2C160%2C28%2C1034%2C5768vis=28rsz=%7C%7Cs%7C8abl=NS8fu=92328bc=318ifi=38uci=al38fsb=18dtd=6636 GET

Informational (Low)	Loosely Scoped Cookle
	Cookies can be scoped by domain or path. This check is only concerned with domain scope. The domain scope applied to a cookie determines which domains can access it. For
Description	example, a cookie can be scoped strictly to a subdomain e.g. www.nottrusted.com, or loosely scoped to a parient domain e.g. nottrusted.com. In the latter case, any subdomain of nottrusted com can access the cookie. Loosely scoped cookies are common in mega-applications like good on and live com. Cookies set from a subdomain like app foo bar are transmitted only to that domain by the browser. However, cookies scoped to a parent-level domain may be transmitted to the parent, or any subdomain of the parent.
URL	https://go.opleads.g.doublectick.net/pagead/ads?client=ca-pub- 5387217387406024&output=html8n=280&sloiname=4715588225&adk=3936940963&adf=4048911295&w=6618&wm=48&wmh=100&lmt=1589041963&rafmt=18.pea=0&guci=2.2.0.0 2.2.0.0&format=651x280&uri=https:%34%2F%2Fsigiryiatourism.com%2F&flash=0&lwt=0&lape=18.resp. imis=3&wgl=18.dt=1589041954677&bpp=3025&bdt=9069&idt=4662&sh=2000000000000000000000000000000000000
Method	GET
URL	https://googleads.g.doubleclick.net/pagead/ads?client=ca-pub-5887217387406024&output=html&adk=18122718048adf=3025194257&lmt=1589041964&plat=1%3A32776%2C2%3A16809992%2C8%3A32776%2C9%3A32776%2C16%3A83888 08%2C1778%A32%2C34%3A332%2C343A168076%2C32%3A32%2C040%3A328guci=2.2.0.0.2.2.0.0&format=0x0&uri=https%3A%2F%2F&igiryatourism.com%2F&a=0&flash
Method	GET
Instances	2
Solution	Always scope cookies to a FQDN (Fully Qualified Domain Name)
Other information	The origin domain used for comparison was: googleads g_doubleclick net test_cookie=CheckForPermission
D. (https://tools.ietf.org/html/rfc6265#section-4.1
Informational (Low)	Timestamp Disclosure - Unix
Description	A timestamp was disclosed by the application/web server - Unix
URL	https://pagead2.googlesyndication.com/pagead/js/adsbygoogle.js
Method	GET
Evidence	21066127
URL	https://pagead2.googlesyndication.com/pagead/js/r20200506/r20190131/show_ads_impl_fy2019.js
Method	GET
Evidence	618018085
URL	https://pagead2.googlesyndication.com/pagead/js/r20200506/r20190131/show_ads_impl_fy2019.js
Method	GET
Evidence	2014749173
URL	https://pagead2.googlesyndication.com/pagead/js/r20200506/r20190131/show_ads_impl_fy2019.js
Method	GET
Evidence	290857819
URL	https://pagead2.googlesyndication.com/pagead/js/r20200506/r20190131/show_ads_impl_fy2019.js
Method	GET
Evidence	21062175
URL	https://pagead2.googlesyndication.com/pagead/js/adsbygoogle_js
Method	GET
Evidence	182984000
URL	https://pagead2.googlesyndication.com/pagead/js/r20200506/r20190131/show_ads_impl_fy2019.js
Method	GET
Evidence	21065714
URL	https://paqead2.googlesyndication.com/paqead/js/adsbyqoogle.js
	OFF.
Informational (Low)	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://pagead2.googlesyndication.com/pagead/js/adsbygoogle.js
Method	GET
URL	https://pagead2.googlesyndication.com/pagead/js/r20200506/r20190131/show_ads_impl_fy2019.js
Method	GET
Instances	2
Solution	- Remove all comments that return information that may help an attacker and fix any underlying problems they refer to.
	The following comment/snippet was identified via the pattern: \bDB\b
	function Oa(a.b)(a/for(var c="string"===typeof a?a split(") a,d=a length-1,0-ed,d-ilfd in c&8b call(void 0.d[d.a.a))(b=chreak a)b=-1)retum 0>Pnull*string"===typeof a? a char4(b);abl[b]inction Pa(a.b)(aif*(string"===typeof a)=2*string"==typeof b)(11=b) sength-1-1 a index*(D(b) (c))selsef(or(var c=0);ca length;c+1)retur (b)(according a) (a) (a) (a) (a) (a) (a) (a) (a) (a)
	The following comment/snippet was identified via the pattern: \bDB\b function \text{vb}(a)\text{var} b=/rv. "\[\d\]\"\\ exec(a)\text{if}(a\&\b)\"\ exec(a)\
	<"."\u003C", yb-e"\"."\",function zb(a)(return String(a) replace(\(\alpha\)_(fa-z)\(\gamma\)_(function(b.c)(return ctol(pperCase()))\(\fraction\)_function Ab\(\gamma\)_(return \(\fraction\)_b\(\gamma\)_function Bb(a)(Bb[\ "]=\)\(\alpha\)_vavar \(\gamma\)_b\(\gamma\)_fil\(\gamma\)_b\(\gamma\)_b\(\gamma\)_fil\(\gamma\)_fil\(\gamma\)_fil\(\gamma\)_b\(\gamma\)_fil\(\g
	(null===e TolgetT=typeof e Aray isArray o Eb&e instanceof Unit&Array) (a_g=b=a_f a_c=e,break_a) a_g=Number MAX_VALUE a_j=[].ff(c)for(b=0_b <c.length_b++)==c[b]_e<a (e+="a_f" a_b(e))="" a_b[e]="a_b[e] Fb).ff(db(a)_a_c[e]=a_c[e] Fb).ff(db&d" comment="" following="" g?="" gb(a)_var_b="a_f+a_b[b] (a_c=a_b[b]=[]))" identified="" inenth) for(b="0_b<f.a_f" pattern:="" snippet="" the="" v="FROMIb</td" var_b="[].function" via="" was=""></c.length_b++)==c[b]_e<a>

Informational (Low)	Timestamp Disclosure - Unix
Description	A timestamp was disclosed by the application/web server - Unix
	https://www.partner.viator.com/widgets/custom jspa?
URL	callback=document.viatorWidgetDivCallback 2c409202&setLocale=en&PUID=18531&destinationID=0&numProducts=1&title=1%20Adult%20-
Method	%20220.00%20USD&width=340&horizontal=false&showThumbs=true&widgetAction=custom&customProductCodes=1010_17652P24&SUBPUID=&linkNewWindow=true GET
Evidence	315360000
Evidence	https://www.partner.viator.com/widgets/custom.jspa?
URL	callback=document.viatorWidgetDivCallback_2c409202&setLocale=en&PUID=18531&destinationID=0&numProducts=1&title=1%20Adult%20- %20220.00%20USD&width=340&horizontal=false&showThumbs=true&widgetAction=custom&customProductCodes=1010_17652P24&SUBPUID=&linkNewWindow=true
Method	GET
Evidence	63072000
URL	https://www.partner.viator.com/widgets/custom.jspa? caliback=document.viator/document.viator/document.pspa? caliback=document.viator/WidgetDic/lablack_afca797&setLocale=en&PUID=18531&destinationID=0&numProducts=1&title=%201%20Adult%20- %2095.00%20USD&width=340&horizontal=false&showThumbs=true&widgetAction=custom&customProductCodes=1010_87020P5&SUBPUID=&linkNewWindow=true
Method	GET
Evidence	315360000
URL	https://www.partner.viator.com/vidgets/custom.jspa? callback=document.viatorVidgetDivCallback_atca7497&setLocale=en&PUID=18531&destinationID=0&numProducts=1&title=%201%20Aduit%20- %2095.00%20USD&width=340&Abnor/contal=false&showThumbs=true&widgetAction=custom&customProductCodes=1010_87020PS&SUBPUID=&linkNewWindow=true
Method	GET
Evidence	63072000
Instances	4
Solution	Manually confirm that the timestamp data is not sensitive, and that the data cannot be aggregated to disclose exploitable patterns.
Other information	315360000, which evaluates to: 1979-12-30 05:30:00
5.4	https://www.owasp.org/index.php/Top_10_2013-A6-Sensitive_Data_Exposure
Reference	http://projects.webappsec.org/w/page/13246936/Information%20Leakage
CWE Id	200
Informational (Low)	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 commen
URL	https://sigiriyatourism.com/wp-content/cache/autoptimize/js/autoptimize_3eb0f58a3ddd6d2309201b40204eb376.js
Method	mps.rsgm/gacursm.com/promencecreteaucymmze/searcymmze/searcyms/sea
URL	https://sigiriyatourism.com/
Method	GET
URL	https://sigiriyatourism.com/wp-includes/js/jquery/jquery.js?ver=1.12.4-wp
Method	GET
Instances	3
Solution	Remove all comments that return information that may help an attacker and fix any underlying problems they refer to.
	wrxOpts menuAltswitch null===wrxCpts menuAltswitch 8&(wrxOpts menuAltswitch? (LaddClass [is-menu-mobile*) temovoclass [is-menu-desktop*) (LaddClass [is-menu-mobile*) temovoclass [is-menu-desktop*) (LaddClass [is-men
Reference	top",o+n+r),e(s).css("top",o+t+"px"),e(i).css("top",t+"px"))))));
CWE Id	200
VASC Id	13
Source ID	3
nformational (Low)	Timestamp Disclosure - Unix
Description	A timestamp was disclosed by the application/web server - Unix
	https://sigiriyatourism.com/wp-content/cache/autoptimize/js/autoptimize_3eb0f58a3ddd6d2309201b40204eb376.js
URL	
URL Method	GET
	GET 2147483647
Method	
Method Evidence	2147483647
Method Evidence URL	2147483647 https://sigiriyatourism.com/
Method Evidence URL Method Evidence	2147483647 https://sigiriyatourism.com/
Method Evidence URL Method Evidence nstances	2147483647 https://sigiriyatourism.com/ GET 56283715
Method Evidence URL Method Evidence enstances	2147483647 https://sigirlyatourism.com/ GET 56283715
Method Evidence URL Method	2147483647 https://sigiriyatourism.com/ GET 56283715 2 Manually confirm that the timestamp data is not sensitive, and that the data cannot be aggregated to disclose exploitable patterns. 2147483647, which evaluates to: 2038-01-19 08:44:07 https://www.owasp.org/index.php/Top_10_2013-A6-Sensitive_Data_Exposure
Method Evidence URL Method Evidence nstances Solution Other information	2147483647 https://sigirlyatourism.com/ GET 56283715 2 Manually confirm that the timestamp data is not sensitive, and that the data cannot be aggregated to disclose exploitable patterns. 2147483647, which evaluates to: 2038-01-19 08:44:07
Method Evidence URL Method Evidence nstances Solution Other information	2147483647 https://sigiriyatourism.com/ GET 56283715 2 Manually confirm that the timestamp data is not sensitive, and that the data cannot be aggregated to disclose exploitable patterns. 2147483647, which evaluates to: 2038-01-19 08:44:07 https://www.owasp.org/index.php/Top_10_2013-A6-Sensitive_Data_Exposure http://projects.webappsec.org/wipage/13246936/information%20Leakage

Fig 4.9 : scan report

5. Conclusion

In these audits, we can identify what kind of weakness that is on our website and what is are solutions to those issues. The audit report has this issue divided to as risk level. We can, after doing these solutions, again scan our website use ZAP tools. We will show any problems has our web site anymore.

6. REFERENCES

- [1] https://www.cloudflare.com/learning/security/what-is-web-application-security/
- $[2] \qquad https://dzone.com/articles/top-10-automated-software-testing-tools$
- [3] https://www.imperva.com/learn/application-security/application-security/