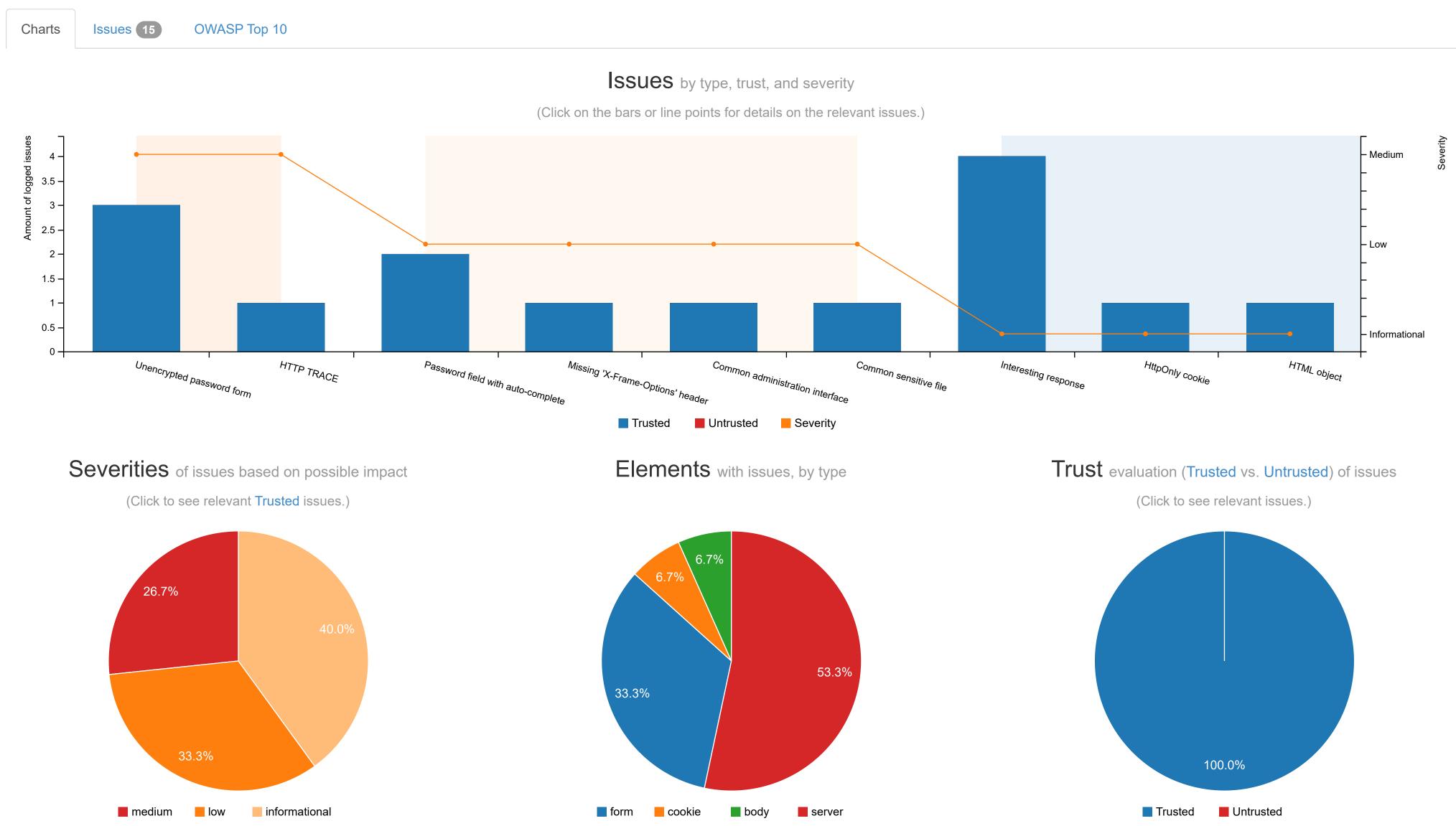
Summary



OWASP Top 10

http://www.arafat.com/ Generated on 2020-03-29 23:33:32 -0400

Summary

Charts Issues 15

Medium severity 4

Trusted 15

Unencrypted password form 3

The HTTP protocol by itself is clear text, meaning that any data that is transmitted via HTTP can be captured and the contents viewed.

To keep data private, and prevent it from being intercepted, HTTP is often tunnelled through either Secure Sockets Layer (SSL), or Transport Layer Security (TLS). When either of these encryption standards are used it is referred to as HTTPS.

Cyber-criminals will often attempt to compromise credentials passed from the client to the server using HTTP. This can be conducted via various different Man-in-The-Middle (MiTM) attacks or through network packet captures.

Arachni discovered that the affected page contains a password input, however, the value of the field is not sent to the server utilising HTTPS. Therefore it is possible that any submitted credential may become compromised.

	Vector type	HTTP method	Action
	form	GET	http://www.arafat.com/OCMS/index.php
	form	GET	http://www.arafat.com/OCMS/membership_signup.php
(form	GET	http://www.arafat.com/OCMS/membership_signup.php

HTTP TRACE 1

The TRACE HTTP method allows a client so send a request to the server, and have the same request then send back in the server's response. This allows the client to determine if the server is receiving the request as expected or if specific parts of the request are not arriving as expected. For example incorrect encoding or a load balancer has filtered or changed a value. On many default installations the TRACE method is still enabled.

While not vulnerable by itself, it does provide a method for cyber-criminals to bypass the HTTPOnly cookie flag, and therefore could allow a XSS attack to successfully access a session token.

Arachni has discovered that the affected page permits the HTTP TRACE method.

Vector type	HTTP method	Action
server	TRACE	http://www.arafat.com/

Low severity 5

Password field with auto-complete 2

In typical form-based web applications, it is common practice for developers to allow autocomplete within the HTML form to improve the usability of the page. With autocomplete enabled (default), the browser is allowed to cache previously entered form values.

For legitimate purposes, this allows the user to quickly re-enter the same data when completing the form multiple times.

When autocomplete is enabled on either/both the username and password fields, this could allow a cybercriminal with access to the victim's computer the ability to have the victim's credentials automatically entered as the cyber-criminal visits the affected page.

Arachni has discovered that the affected page contains a form containing a password field that has not disabled autocomplete.

Vector type	HTTP method	Action
form	GET	http://www.arafat.com/OCMS/membership_signup.php
form	GET	http://www.arafat.com/OCMS/index.php

Missing 'X-Frame-Options' header 1

Common administration interface 1

Clickjacking (User Interface redress attack, UI redress attack, UI redressing) is a malicious technique of tricking a Web user into clicking on something different from what the user perceives they are clicking on, thus potentially revealing confidential information or taking control of their computer while clicking on seemingly innocuous web pages.

The server didn't return an X-Frame-Options header which means that this website could be at risk of a clickjacking attack.

The X-Frame-Options HTTP response header can be used to indicate whether or not a browser should be allowed to render a page inside a frame or iframe. Sites can use this to avoid clickjacking attacks, by ensuring that their content is not embedded into other sites.

Vector type	HTTP method	Action
server	GET	http://www.arafat.com/

Common sensitive file 1

Web applications are often made up of multiple files and directories.

It is possible that over time some files may become unreferenced (unused) by the web application and forgotten about by the administrator/developer. Because web applications are built using common frameworks, they contain common files that can be discovered (independent of server).

During the initial recon stages of an attack, cyber-criminals will attempt to locate unreferenced files in the hope that the file will assist in further compromise of the web application. To achieve this they will make thousands of requests using word lists containing common filenames. The response headers from the server will then indicate if the file exists.

Arachni also contains a list of common file names which it will attempt to access.

Vector type	HTTP method	Action
server	GET	http://www.arafat.com/OCMS/config.php

An administration interface was identified and should be reviewed.				
	Vector type	HTTP method	Action	
	server	GET	http://www.arafat.com/OCMS/admin/pageHome.php	

Informational severity 6

Interesting response 4

The server responded with a non 200 (OK) nor 404 (Not Found) status code. This is a non-issue, however exotic HTTP response status codes can provide useful insights into the behavior of the web application and assist with the penetration test.

Vector type	HTTP method	Action
server	POST	http://www.arafat.com/OCMS/index.php?loginFailed=1
server	PUT	http://www.arafat.com/Arachni-c328f964b1d7b62b8b81af38bffd4f6d
server	GET	http://www.arafat.com/%3Cmy_tag_c328f964b1d7b62b8b81af38bffd4f6d/%3E
server	POST	http://www.arafat.com/OCMS/membership_passwordReset.php

HttpOnly cookie 1

HTTP by itself is a stateless protocol. Therefore the server is unable to determine which requests are performed by which client, and which clients are authenticated or unauthenticated.

The use of HTTP cookies within the headers, allows a web server to identify each individual client and can therefore determine which clients hold valid authentication, from those that do not. These are known as session cookies.

When a cookie is set by the server (sent the header of an HTTP response) there are several flags that can be set to configure the properties of the cookie and how it is to be handled by the browser.

The Http0nly flag assists in the prevention of client side-scripts (such as JavaScript) accessing and using the cookie.

This can help prevent XSS attacks targeting the cookies holding the client's session token (setting the Http0nly flag does not prevent, nor safeguard against XSS vulnerabilities themselves).

Vector type	HTTP method	Action
cookie	GET	http://www.arafat.com/OCMS/

HTML object 1

Logs the existence of HTML object tags. Since Arachni can't execute things like Java Applets and Flash this serves as a heads-up to the penetration tester to review the objects in question using a different method.

Vector type	HTTP method	Action
body	GET	http://www.arafat.com/OCMS/resources/jquery/js/jquery-1.11.2.min.js

Arachni v1.5.1 Plugin results 1 ▼ Configuration Issues 15 (Found a false positive? Please let us know.) Summary **▼**

http://www.arafat.com/ Generated on 2020-03-29 23:33:32 -0400

Issues

Trusted 15

At the time these issues were logged there were no abnormal interferences or anomalous server behavior.

These issues are considered trusted and accurate.

Medium 4 Informational 6

Unencrypted password form 3 unencrypted_password_forms

The HTTP protocol by itself is clear text, meaning that any data that is transmitted via HTTP can be captured and the contents viewed.

To keep data private, and prevent it from being intercepted, HTTP is often tunnelled through either Secure Sockets Layer (SSL), or Transport Layer Security (TLS). When either of these encryption

standards are used it is referred to as HTTPS. Cyber-criminals will often attempt to compromise credentials passed from the client to the server using HTTP. This can be conducted via various different Man-in-The-Middle (MiTM) attacks or through

Arachni discovered that the affected page contains a password input, however, the value of the field is not sent to the server utilising HTTPS. Therefore it is possible that any submitted credential may

become compromised.

Remediation guidance

network packet captures.

The affected site should be secured utilising the latest and most secure encryption protocols. These include SSL version 3.0 and TLS version 1.2. While TLS 1.2 is the latest and the most preferred protocol, not all browsers will support this encryption method. Therefore, the more common SSL is included. Older protocols such as SSL version 2, and weak ciphers (< 128 bit) should also be disabled.

In form with inputs username password rememberMe signIn using GET at http://www.arafat.com/OCMS/index.php?signIn=1_arachni_trainer_c328f964b1d7b62b8b81af38bffd4f6d pointing to http://www.arafat.com/OCMS/index.php.

Proof i Forgot your password? Click here </div> <div class="checkbox"> <label class="control-label" for="rememberMe"> <input type="checkbox" name="rememberMe" id="rememberMe" value="1"> </input> Remember me </label> </div> <div class="row"> <div class="col-sm-offset-3 col-sm-6"> <button name="signIn" type="submit" id="submit" value="signIn" class="btn btn-primary btn-lg btn-block"> Sign In </button> </div> </div> </form>

% Vector information

Proof i

SAffected page: http://www.arafat.com/OCMS/index.php?signIn=1_arachni_trainer_c328f964b1d7b62b8b81af38bffd4f6d

% Referring page: http://www.arafat.com/OCMS/index.php?signIn=1_arachni_trainer_c328f964b1d7b62b8b81af38bffd4f6d

In form with inputs newUsername password confirmPassword email custom1 custom2 custom3 custom4 groupID signUp using GET at http://www.arafat.com/OCMS/membership signup.php pointing to http://www.arafat.com/OCMS/membership_signup.php.

<form method="post" action="membership_signup.php"> <div class="form-group"> <label for="username" class="control-label"> Username </label> <input class="form-control input-lg" type="text" required="" placeholder="Username" id="username" name="newUsername"> <i class="glyphicon glyphicon-ok"> </i> Username is available and you can take it. <i class="glyphicon glyphicon-remove"> </i> Username already exists or is invalid. Make sure you provide a username containing 4 to 20 valid characters. <div class="clearfix">

% Vector information

Proof i

S Affected page: http://www.arafat.com/OCMS/membership_signup.php

Referring page: http://www.arafat.com/OCMS/membership_signup.php

In form with inputs newUsername password confirmPassword email custom1 custom2 custom3 custom4 groupID signUp using GET at http://www.arafat.com/OCMS/membership_signup.php pointing to http://www.arafat.com/OCMS/membership_signup.php.

<form method="post" action="membership_signup.php"> <div class="form-group"> <label for="username" class="control-label"> Username </label> <input class="form-control input-lg" type="text" required="" placeholder="Username" id="username" name="newUsername"> <i class="glyphicon glyphicon-ok"> </i> Username is available and you can take it. <i class="glyphicon glyphicon-remove"> </i> Username already exists or is invalid. Make sure you provide a username containing 4 to 20 valid characters. <div class="clearfix"> //div/ % Vector information

S Affected page: http://www.arafat.com/OCMS/membership_signup.php

Referring page: http://www.arafat.com/OCMS/membership_signup.php

HTTP TRACE 1 xst

The TRACE HTTP method allows a client so send a request to the server, and have the same request then send back in the server's response. This allows the client to determine if the server is receiving the request as expected or if specific parts of the request are not arriving as expected. For example incorrect encoding or a load balancer has filtered or changed a value. On many default installations the TRACE method is still enabled.

Arachni has discovered that the affected page permits the HTTP TRACE method.

While not vulnerable by itself, it does provide a method for cyber-criminals to bypass the HTTPOnly cookie flag, and therefore could allow a XSS attack to successfully access a session token.

Remediation guidance

The HTTP TRACE method is normally not required within production sites and should therefore be disabled. Depending on the function being performed by the web application, the risk level can start low and increase as more functionality is implemented.

The remediation is typically a very simple configuration change and in most cases will not have any negative impact on the server or application.

In server using TRACE at http://www.arafat.com/ pointing to http://www.arafat.com/ .

Proof i HTTP/1.1 200 OK

% Vector information

S Affected page: http://www.arafat.com/

% Referring page: http://www.arafat.com/

CWE-693

References

References

OWASP Top 10 2010

CWE-319

CAPEC

OWASP

Arachni v1.5.1 Summary ▼ Issues 15 ▼ Plugin results 1 ▼ Sitemap 38 Configuration (Found a false positive? Please let us know.)

http://www.arafat.com/ Generated on 2020-03-29 23:33:32 -0400

Issues

Trusted 15

At the time these issues were logged there were no abnormal interferences or anomalous server behavior.

These issues are considered trusted and accurate.

Medium 4 Low 5 Informational 6

Password field with auto-complete 2 password_autocomplete

In typical form-based web applications, it is common practice for developers to allow autocomplete within the HTML form to improve the usability of the page. With autocomplete enabled (default), the browser is allowed to cache previously entered form values.

For legitimate purposes, this allows the user to quickly re-enter the same data when completing the form multiple times.

When autocomplete is enabled on either/both the username and password fields, this could allow a cyber-criminal with access to the victim's computer the ability to have the victim's credentials automatically entered as the cyber-criminal visits the affected page.

Arachni has discovered that the affected page contains a form containing a password field that has not disabled autocomplete.

Remediation guidance

The autocomplete value can be configured in two different locations.

The first and most secure location is to disable the autocomplete attribute on the <form> HTML tag. This will disable autocomplete for all inputs within that form. An example of disabling autocomplete within the form tag is <form autocomplete=off>.

The second slightly less desirable option is to disable the autocomplete attribute for a specific <input> HTML tag. While this may be the less desired solution from a security perspective, it may be preferred method for usability reasons, depending on size of the form. An example of disabling the autocomplete attribute within a password input tag is <input type=password autocomplete=off>.

In form with inputs newUsername password confirmPassword email custom1 custom2 custom3 custom4 groupID signUp using GET at http://www.arafat.com/OCMS/membership_signup.php pointing to http://www.arafat.com/OCMS/membership_signup.php .

% Vector information

Affected page: http://www.arafat.com/OCMS/membership_signup.php

Referring page: http://www.arafat.com/OCMS/membership_signup.php

In form with inputs username password rememberMe signIn using GET at http://www.arafat.com/OCMS/index.php?signIn=1_arachni_trainer_c328f964b1d7b62b8b81af38bffd4f6d pointing to http://www.arafat.com/OCMS/index.php.

% Vector information

% Affected page: http://www.arafat.com/OCMS/index.php?signIn=1_arachni_trainer_c328f964b1d7b62b8b81af38bffd4f6d

Seferring page: http://www.arafat.com/OCMS/index.php?signIn=1_arachni_trainer_c328f964b1d7b62b8b81af38bffd4f6d

Missing 'X-Frame-Options' header 1 x_frame_options

Clickjacking (User Interface redress attack, UI redress attack, UI redressing) is a malicious technique of tricking a Web user into clicking on something different from what the user perceives they are clicking on, thus potentially revealing confidential information or taking control of their computer while clicking on seemingly innocuous web pages.

The server didn't return an X-Frame-Options header which means that this website could be at risk of a clickjacking attack.

The X-Frame-Options HTTP response header can be used to indicate whether or not a browser should be allowed to render a page inside a frame or iframe. Sites can use this to avoid clickjacking attacks, by ensuring that their content is not embedded into other sites.

RFC OWASP

MDN

References

CWE-693

Remediation guidance

Configure your web server to include an X-Frame-Options header.

Proof i

In server using GET at http://www.arafat.com/ pointing to http://www.arafat.com/ .

HTTP/1.1 302 Found

♦ Vector information

S Affected page: http://www.arafat.com/

Referring page: http://www.arafat.com/

Common administration interface 1 common_admin_interfaces

An administration interface was identified and should be reviewed.

Remediation guidance

Access to administration interfaces should be restricted to trusted IP addresses only.

In server using GET at http://www.arafat.com/OCMS/admin/pageHome.php pointing to http://www.arafat.com/OCMS/admin/pageHome.php.

Proof i

HTTP/1.1 301 Moved Permanently

% Vector information

% Affected page: http://www.arafat.com/OCMS/admin/pageHome.php

% Referring page: http://www.arafat.com/OCMS/

Common sensitive file 1 common_files

Web applications are often made up of multiple files and directories.

It is possible that over time some files may become unreferenced (unused) by the web application and forgotten about by the administrator/developer. Because web applications are built using common frameworks, they contain common files that can be discovered (independent of server).

During the initial recon stages of an attack, cyber-criminals will attempt to locate unreferenced files in the hope that the file will assist in further compromise of the web application. To achieve this they will make thousands of requests using word lists containing common filenames. The response headers from the server will then indicate if the file exists.

Arachni also contains a list of common file names which it will attempt to access.

Remediation guidance

If files are unreferenced then they should be removed from the web root and/or the application directory.

Preventing access without authentication may also be an option and can stop a client from being able to view the contents of a file, however it is still likely that the directory structure will be able to be

discovered.

Using obscure file names is implementing security through obscurity and is not a recommended option.

In server using GET at http://www.arafat.com/OCMS/config.php pointing to http://www.arafat.com/OCMS/config.php .

Proof i

HTTP/1.1 200 OK

% Vector information

ffected page: http:/

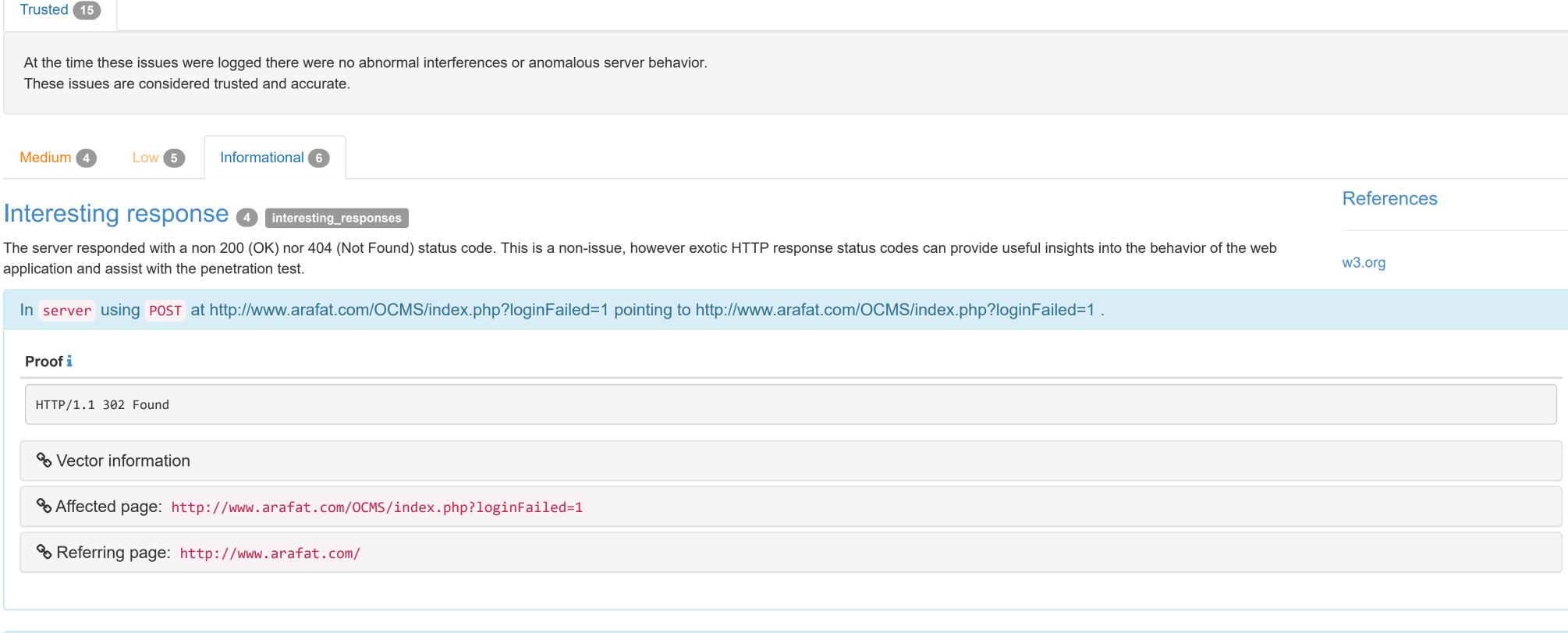
Affected page: http://www.arafat.com/OCMS/config.php

Referring page: http://www.arafat.com/0CMS/

References

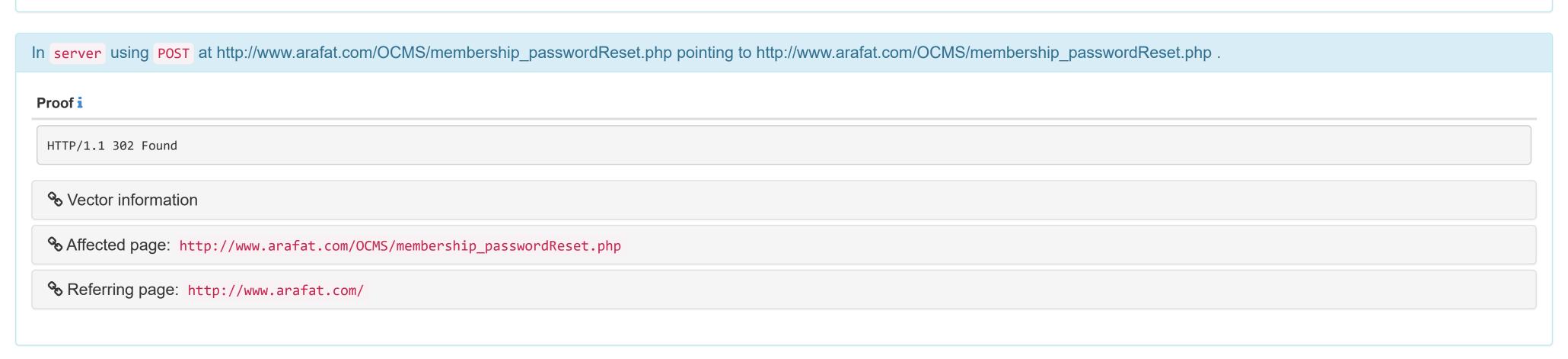
Apache.org

Issues









HttpOnly cookie 1 http_only_cookies

HTTP by itself is a stateless protocol. Therefore the server is unable to determine which requests are performed by which client, and which clients are authenticated or unauthenticated.

The use of HTTP cookies within the headers, allows a web server to identify each individual client and can therefore determine which clients hold valid authentication, from those that do not. These are known as session cookies.

When a cookie is set by the server (sent the header of an HTTP response) there are several flags that can be set to configure the properties of the cookie and how it is to be handled by the browser.

The HttpOply flag assists in the prevention of client side-scripts (such as JavaScript) accessing and using the cookie.

The Http0n1y flag assists in the prevention of client side-scripts (such as JavaScript) accessing and using the cookie.

This can help prevent XSS attacks targeting the cookies holding the client's session token (setting the HttpOnly flag does not prevent, nor safeguard against XSS vulnerabilities themselves).

Remediation guidance

The initial step to remedy this would be to determine whether any client-side scripts (such as JavaScript) need to access the cookie and if not, set the http0nly flag.

Additionally, it should be noted that some older browsers are not compatible with the Http0nly flag, and therefore setting this flag will not protect those clients against this form of attack.



HTML object 1 [html_objects]

Logs the existence of HTML object tags. Since Arachni can't execute things like Java Applets and Flash this serves as a heads-up to the penetration tester to review the objects in question using a different method.

References

CWE-200

References

HttpOnly - OWASP

CWE-200

nature i	Proof i	
object.*?>.*?	<object>","</object>	
S Vector information		
• Affected page: http://www.arafat.com/OCMS/resources		

Plugin results

Health map

Generates a simple list of safe/unsafe URLs.

Total	33	http://www.arafat.com/
Without issues	22	http://www.arafat.com/%3Cmy_tag_c328f964b1d7b62b8b81af38bffd4f6d/%3E
With issues	11	http://www.arafat.com/Arachni-c328f964b1d7b62b8b81af38bffd4f6d
Issue percentage	33	http://www.arafat.com/OCMS/
		http://www.arafat.com/OCMS/admin/pageHome.php
		http://www.arafat.com/OCMS/resources/jquery/js/jquery-1.11.2.min.js
		http://www.arafat.com/OCMS/membership_signup.php
		http://www.arafat.com/OCMS/config.php
		http://www.arafat.com/OCMS/membership_passwordReset.php
		http://www.arafat.com/OCMS/index.php
		http://www.arafat.com/OCMS/index.php?loginFailed=1
		http://www.arafat.com/OCMS/resources/initializr/js/vendor/bootstrap.min.js
		http://www.arafat.com/OCMS/common.js.php
		http://www.arafat.com/OCMS/resources/images/appgini-icon.png
		http://www.arafat.com/OCMS/resources/initializr/css/bootstrap-theme.css
		http://www.arafat.com/OCMS/resources/initializr/css/bootstrap.css
		http://www.arafat.com/OCMS/dynamic.css.php
		http://www.arafat.com/OCMS/checkMemberID.php
		http://www.arafat.com/OCMS/resources/jquery/js/jquery.background-fit.min.js
		http://www.arafat.com/OCMS/resources/jquery/js/jquery.mark.min.js
		http://www.arafat.com/OCMS/resources/jscookie/js.cookie.js
		http://www.arafat.com/OCMS/resources/lightbox/css/lightbox.css
		http://www.arafat.com/OCMS/resources/lightbox/js/'%20libraryName%20'
		http://www.arafat.com/OCMS/resources/lightbox/js/effects.js
		http://www.arafat.com/OCMS/resources/lightbox/js/lightbox.min.js
		http://www.arafat.com/OCMS/resources/lightbox/js/prototype.js
		http://www.arafat.com/OCMS/resources/lightbox/js/scriptaculous.js
		http://www.arafat.com/OCMS/resources/select2/select2.css
		http://www.arafat.com/OCMS/resources/select2/select2.min.js
		http://www.arafat.com/OCMS/resources/timepicker/bootstrap-timepicker.min.css
		http://www.arafat.com/OCMS/resources/timepicker/bootstrap-timepicker.min.js
		http://www.arafat.com/
		http://www.arafat.com/div

Sitemap 38

HTTP status code	URL
302	http://www.arafat.com/
200	http://www.arafat.com/OCMS/
200	http://www.arafat.com/OCMS/checkMemberID.php?memberID=
200	http://www.arafat.com/OCMS/checkMemberID.php?memberID=1
200	http://www.arafat.com/OCMS/checkMemberID.php?memberID=a
200	http://www.arafat.com/OCMS/checkMemberID.php?memberID=ar
200	http://www.arafat.com/OCMS/checkMemberID.php?memberID=ara
200	http://www.arafat.com/OCMS/checkMemberID.php?memberID=arac
200	http://www.arafat.com/OCMS/checkMemberID.php?memberID=arachn
200	http://www.arafat.com/OCMS/checkMemberID.php?memberID=arachni_name
200	http://www.arafat.com/OCMS/common.js.php
200	http://www.arafat.com/OCMS/dynamic.css.php
200	http://www.arafat.com/OCMS/index.php
403	http://www.arafat.com/OCMS/index.php?loginFailed=1
200	http://www.arafat.com/OCMS/index.php?signIn=1
200	http://www.arafat.com/OCMS/membership_passwordReset.php
200	http://www.arafat.com/OCMS/membership_passwordReset.php?emptyData=1
200	http://www.arafat.com/OCMS/membership_signup.php
200	http://www.arafat.com/OCMS/resources/images/appgini-icon.png
200	http://www.arafat.com/OCMS/resources/initializr/css/bootstrap-theme.css
200	http://www.arafat.com/OCMS/resources/initializr/css/bootstrap.css
200	http://www.arafat.com/OCMS/resources/initializr/js/vendor/bootstrap.min.js
200	http://www.arafat.com/OCMS/resources/jquery/js/jquery-1.11.2.min.js
404	http://www.arafat.com/OCMS/resources/jquery/js/jquery.background-fit.min.js
200	http://www.arafat.com/OCMS/resources/jquery/js/jquery.mark.min.js
200	http://www.arafat.com/OCMS/resources/jscookie/js.cookie.js
200	http://www.arafat.com/OCMS/resources/lightbox/css/lightbox.css
404	http://www.arafat.com/OCMS/resources/lightbox/js/'%20libraryName%20'
200	http://www.arafat.com/OCMS/resources/lightbox/js/effects.js
200	http://www.arafat.com/OCMS/resources/lightbox/js/lightbox.min.js
200	http://www.arafat.com/OCMS/resources/lightbox/js/prototype.js
200	http://www.arafat.com/OCMS/resources/lightbox/js/scriptaculous.js?load=effects
200	http://www.arafat.com/OCMS/resources/select2/select2.css
200	http://www.arafat.com/OCMS/resources/select2/select2.min.js
200	http://www.arafat.com/OCMS/resources/timepicker/bootstrap-timepicker.min.css
200	http://www.arafat.com/OCMS/resources/timepicker/bootstrap-timepicker.min.js
404	http://www.arafat.com/
404	http://www.arafat.com/div