

Compliance Report

OWASP TOP 10 2021

Description

The primary aim of the OWASP Top 10 is to educate developers, designers, architects, managers, and organizations about the consequences of the most important web application security weaknesses. The Top 10 provides basic techniques to protect against these high risk problem areas - and also provides guidance on where to go from here.

Disclaimer

This document or any of its content cannot account for, or be included in any form of legal advice. The outcome of a vulnerability scan (or security evaluation) should be utilized to ensure that diligent measures are taken to lower the risk of potential exploits carried out to compromise data.

Legal advice must be supplied according to its legal context. All laws and the environments in which they are applied, are constantly changed and revised. Therefore no information provided in this document may ever be used as an alternative to a qualified legal body or representative.

A portion of this report is taken from OWASP's Top Ten 2021 Project document, that can be found at <http://www.owasp.org>.

Scan Detail

Target	http://192.168.145.128/openemr
Scan Type	Full Scan
Start Time	Apr 11, 2023, 6:43:26 PM GMT-5
Scan Duration	30 minutes
Requests	655652
Average Response Time	117ms
Maximum Response Time	15582ms
Application Build	v15.5.230326230

Compliance at a Glance

CATEGORY

- 10** A01 Broken Access Control
- 11** A02 Cryptographic Failures
- 0** A03 Injection
- 4** A04 Insecure Design
- 12** A05 Security Misconfiguration
- 36** A06 Vulnerable and Outdated Components
- 2** A07 Identification and Authentication Failures
- 2** A08 Software and Data Integrity Failures
- 0** A09 Security Logging and Monitoring Failures
- 0** A10 Server-Side Request Forgery

Detailed Compliance Report by Category

This section is a detailed report that explains each vulnerability found according to individual compliance categories.

A01 Broken Access Control

Access control enforces policy such that users cannot act outside of their intended permissions. Failures typically lead to unauthorized information disclosure, modification, or destruction of all data or performing a business function outside the user's limits.

Clickjacking: X-Frame-Options header

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 did not return an **X-Frame-Options** header with the value DENY or SAMEORIGIN, 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 untrusted sites.

CWE

CWE-1021

CVSS2

AV:N/AC:M/Au:N/C:N/I:P/A:N

Access Vector	Network
Access Complexity	Medium
Authentication	None
Confidentiality	None
Integrity Impact	Partial
Availability Impact	None

CVSS3

CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:C/C:N/I:L/A:N

Base Score	5.8
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	None
Scope	Changed
Confidentiality	None
Integrity Impact	Low
Availability Impact	None

Impact

The impact depends on the affected web application.

<http://192.168.145.128/>

Paths without secure XFO header:

- <http://192.168.145.128/openemr/public/assets/>
- <http://192.168.145.128/openemr/library/>
- <http://192.168.145.128/openemr/public/assets/hotkeys-js/>
- <http://192.168.145.128/openemr/interface/main/tabs/>
- <http://192.168.145.128/openemr/public/assets/knockout/>
- <http://192.168.145.128/openemr/interface/>
- http://192.168.145.128/openemr/interface/main/main_screen.php
- <http://192.168.145.128/openemr/public/assets/bootstrap/dist/js/>
- <http://192.168.145.128/openemr/public/assets/moment/min/>
- <http://192.168.145.128/openemr/interface/main/messages/messages.php>
- <http://192.168.145.128/openemr/public/assets/jquery/dist/>
- http://192.168.145.128/openemr/library/ajax/dated_reminders_counter.php
- http://192.168.145.128/openemr/interface/main/dated_reminders/dated_reminders.php
- <http://192.168.145.128/openemr/public/assets/select2/>
- <http://192.168.145.128/openemr/library/js/vendors/>
- <http://192.168.145.128/openemr/interface/main/calendar/>
- <http://192.168.145.128/openemr/public/assets/jquery/>
- <http://192.168.145.128/openemr/Documentation/>
- http://192.168.145.128/openemr/Documentation/help_files/

- <http://192.168.145.128/openemr/public/assets/i18next/>
- http://192.168.145.128/openemr/library/ajax/i18n_generator.php

Request

```
GET /openemr/public/assets/ HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58addee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: aspectalerts;routes
Referer: http://192.168.145.128/openemr/public/assets/
Cookie: OpenEMR=ShqPYxekgSvnztaqfRyqOJ2b-9njDrQM43HnaYAqgkzuKU15
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

Recommendation

Configure your web server to include an X-Frame-Options header and a CSP header with frame-ancestors directive. Consult Web references for more information about the possible values for this header.

References

[The X-Frame-Options response header](#)

<https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Frame-Options>

[Clickjacking](#)

<https://en.wikipedia.org/wiki/Clickjacking>

[OWASP Clickjacking](#)

https://cheatsheetseries.owasp.org/cheatsheets/Clickjacking_Defense_Cheat_Sheet.html

[Frame Buster Buster](#)

<https://stackoverflow.com/questions/958997/frame-buster-buster-code-needed>

Composer installed.json publicly accessible

A **installed.json** file was discovered. Composer is a tool for dependency management in PHP. It allows you to declare the libraries your project depends on and it will manage (install/update) them for you. After installing the dependencies, Composer stores the list of them in a special file for internal purposes.

As the file is publicly accessible, it leads to disclosure of information about components used by the web application.

CWE

CWE-200

CVSS2

AV:N/AC:L/Au:N/C:P/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	Partial
Integrity Impact	None
Availability Impact	None

CVSS3

CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:C/C:L/I:N/A:N

Base Score	5.8
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	None
Scope	Changed
Confidentiality	Low
Integrity Impact	None
Availability Impact	None

Impact

installed.json discloses sensitive information. This information can be used to launch further attacks.

<http://192.168.145.128/openemr/vendor/>

Request

```
GET /openemr/vendor/composer/installed.json HTTP/1.1
Cookie: OpenEMR=F-6X1PVs1YyH8tuel82CU%2CjzXjI%2C2Xj1wHpg%2CMTJEHOAPWa5
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

Recommendation

Restrict access to vendors directory

References

[Composer Basic usage](#)

<https://getcomposer.org/doc/01-basic-usage.md>

Possible sensitive directories

One or more possibly sensitive directories were found. These resources are not directly linked from the website. This check looks for common sensitive resources like backup directories, database dumps, administration pages, temporary directories. Each one of these directories could help an attacker to learn more about his target.

CWE

CWE-200

CVSS2

AV:N/AC:L/Au:N/C:P/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	Partial
Integrity Impact	None
Availability Impact	None

CVSS3

CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N

Base Score	5.3
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	None
Scope	Unchanged
Confidentiality	Low
Integrity Impact	None
Availability Impact	None

Impact

These directories may expose sensitive information that could help a malicious user to prepare more advanced attacks.

<http://192.168.145.128/>

Possible sensitive directories:

- <http://192.168.145.128/openemr/bin>
- <http://192.168.145.128/openemr/sql>
- <http://192.168.145.128/openemr/config>
- <http://192.168.145.128/openemr/tests>
- <http://192.168.145.128/openemr/src>

Request

```
GET /openemr/bin/ HTTP/1.1
Cookie: OpenEMR=ShqPYxekgSvnztaqfRyqOJ2b-9njDrQM43HnaYAqgkzuKU15
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
```

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive

Recommendation

Restrict access to these directories or remove them from the website.

References

[Web Server Security and Database Server Security](#)

<https://www.acunetix.com/websitetecurity/webserver-security/>

Possible sensitive files

A possible sensitive file has been found. This file is not directly linked from the website. This check looks for common sensitive resources like password files, configuration files, log files, include files, statistics data, database dumps. Each one of these files could help an attacker to learn more about his target.

CWE

CWE-200

CVSS2

AV:N/AC:L/Au:N/C:P/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	Partial
Integrity Impact	None
Availability Impact	None

CVSS3

CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N

Base Score	5.3
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	None
Scope	Unchanged
Confidentiality	Low
Integrity Impact	None
Availability Impact	None

Impact

This file may expose sensitive information that could help a malicious user to prepare more advanced attacks.

<http://192.168.145.128/>

Possible sensitive files:

- <http://192.168.145.128/openemr/admin.php>

Request

```
GET /openemr/admin.php HTTP/1.1
Accept: shxrinco/hemy
Cookie: OpenEMR=ShqPYxekgSvnztaqfRyqOJ2b-9njDrQM43HnaYAqgkzuKU15
Accept-Encoding: gzip, deflate, br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

Recommendation

Restrict access to this file or remove it from the website.

References

[Web Server Security and Database Server Security](#)

<https://www.acunetix.com/websitesecurity/webserver-security/>

Email addresses

One or more email addresses have been found on this website. The majority of spam comes from email addresses harvested off the internet. The spam-bots (also known as email harvesters and email extractors) are programs that scour the internet looking for email addresses on any website they come across. Spambot programs look for strings like myname@mydomain.com and then record any addresses found.

CWE

CWE-200

CVSS2

AV:N/AC:L/Au:N/C:N/I:N/A:N

CVSS3

CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	None
Integrity Impact	None
Availability Impact	None

Base Score	0.0
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	None
Scope	Unchanged
Confidentiality	None

Integrity Impact	None
Availability Impact	None

Impact

Email addresses posted on Web sites may attract spam.

<http://192.168.145.128/>

Emails found:

- http://192.168.145.128/openemr/acknowledge_license_cert.html
ajabour@iupui.edu
- http://192.168.145.128/openemr/acknowledge_license_cert.html
andres@paglayan.com
- http://192.168.145.128/openemr/acknowledge_license_cert.html
superarnab@gmail.com
- http://192.168.145.128/openemr/acknowledge_license_cert.html
drbowen@bowenmd.com
- http://192.168.145.128/openemr/acknowledge_license_cert.html
bss@iguanasuicide.net
- http://192.168.145.128/openemr/acknowledge_license_cert.html
brady.g.miller@gmail.com
- http://192.168.145.128/openemr/acknowledge_license_cert.html
pandi.param@capminds.com
- http://192.168.145.128/openemr/acknowledge_license_cert.html
stephen.waite@cmsvt.com
- http://192.168.145.128/openemr/acknowledge_license_cert.html
amit@comlinkinc.com
- http://192.168.145.128/openemr/acknowledge_license_cert.html
sbhayani@communitybehavioralhealth.net
- http://192.168.145.128/openemr/acknowledge_license_cert.html
ramesh@ensoftek.com
- http://192.168.145.128/openemr/acknowledge_license_cert.html
george.tye@gmail.com
- http://192.168.145.128/openemr/acknowledge_license_cert.html
stone@annashaegrp.com
- http://192.168.145.128/openemr/acknowledge_license_cert.html
fndtn357@gmail.com
- http://192.168.145.128/openemr/acknowledge_license_cert.html
sherwin@affordablecustomehr.com
- http://192.168.145.128/openemr/acknowledge_license_cert.html
julia.longtin@gmail.com
- http://192.168.145.128/openemr/acknowledge_license_cert.html
ptspohnpei@gmail.com

- http://192.168.145.128/openemr/acknowledge_license_cert.html
kevin.y@integralemr.com
- http://192.168.145.128/openemr/acknowledge_license_cert.html
openemr@lillysystems.com
- http://192.168.145.128/openemr/acknowledge_license_cert.html
mscltd@earthlink.net
- http://192.168.145.128/openemr/acknowledge_license_cert.html
mdsupport@users.sf.net

Request

```
GET /openemr/acknowledge_license_cert.html HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58addee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: aspectalerts;routes
Referer: http://192.168.145.128/openemr/interface/login/login.php
Cookie: OpenEMR=F-6X1PVs1YyH8tuel82CU%2CjzXjI%2C2Xj1wHpg%2CMTJEHOAPWa5
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

Recommendation

Check references for details on how to solve this problem.

References

[Anti-spam techniques](#)

https://en.wikipedia.org/wiki/Anti-spam_techniques

Error page web server version disclosure

Application errors or warning messages may disclose sensitive information about an application's internal workings to an attacker.

Acunetix found the web server version number and a list of modules enabled on the target server. Consult the 'Attack details' section for more information about the affected page.

CWE

CWE-200

CVSS2

AV:N/AC:L/Au:N/C:P/I:N/A:N

CVSS3

CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	Partial
Integrity Impact	None
Availability Impact	None

Base Score	5.3
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	None
Scope	Unchanged
Confidentiality	Low
Integrity Impact	None
Availability Impact	None

Impact

Error messages information about an application's internal workings may be used to escalate attacks.

<http://192.168.145.128/>

Request

```
GET /OSEbyESLkq HTTP/1.1
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

Recommendation

Properly configure the web server not to disclose information about an application's internal workings to the user. Consult the 'Web references' section for more information.

References

[Custom Error Responses \(Apache HTTP Server\)](#)

<https://httpd.apache.org/docs/current/custom-error.html>

[server_tokens \(Nginx\)](#)

http://nginx.org/en/docs/http/ngx_http_core_module.html#server_tokens

[Remove Unwanted HTTP Response Headers \(Microsoft IIS\)](#)

<https://blogs.msdn.microsoft.com/varunm/2013/04/23/remove-unwanted-http-response-headers/>

Possible server path disclosure (Unix)

One or more fully qualified path names were found. From this information the attacker may learn the file system structure from the web server. This information can be used to conduct further attacks.

This alert may be a false positive, manual confirmation is required.

CWE

CWE-200

CVSS2

AV:N/AC:L/Au:N/C:P/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	Partial
Integrity Impact	None
Availability Impact	None

CVSS3

CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N

Base Score	5.3
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	None
Scope	Unchanged
Confidentiality	Low
Integrity Impact	None
Availability Impact	None

Impact

Possible sensitive information disclosure.

<http://192.168.145.128/>

Pages with paths being disclosed:

- http://192.168.145.128/openemr/interface/main/main_screen.php
(/var/www/html/openemr/vendor/adodb/adodb)
- http://192.168.145.128/openemr/interface/main/messages/messages.php
(/var/www/html/openemr/vendor/adodb/adodb)
- http://192.168.145.128/openemr/library/ajax/dated_reminders_counter.php
(/var/www/html/openemr/vendor/adodb/adodb)
- http://192.168.145.128/openemr/interface/login/login.php
(/var/www/html/openemr/vendor/adodb/adodb)
- http://192.168.145.128/openemr/library/ajax/i18n_generator.php
(/var/www/html/openemr/vendor/adodb/adodb)
- http://192.168.145.128/
>/var/www/html/index.html

- http://192.168.145.128/openemr/interface/login_screen.php
(/var/www/html/openemr/vendor/adodb/adodb)
- http://192.168.145.128/openemr/interface/main/dated_reminders/dated_reminders.php
(/var/www/html/openemr/vendor/adodb/adodb)
- http://192.168.145.128/openemr/interface/main/tabs/main.php
(/var/www/html/openemr/vendor/adodb/adodb)
- http://192.168.145.128/openemr/portal/
(/var/www/html/openemr/vendor/adodb/adodb)
- http://192.168.145.128/openemr/portal/messaging/messages.php
(/var/www/html/openemr/vendor/adodb/adodb)
- http://192.168.145.128/openemr/portal/messaging/secure_chat.php
(/var/www/html/openemr/vendor/adodb/adodb)
- http://192.168.145.128/openemr/Documentation/Readme_edihistory.html
/var/www/htdocs/openemr/sites/
- http://192.168.145.128/openemr/Documentation/help_files/add_edit_transactions_dashboard_help.php
(/var/www/html/openemr/vendor/adodb/adodb)
- http://192.168.145.128/openemr/Documentation/README-Log-Backup.txt
/var/www/openemr
- http://192.168.145.128/openemr/Documentation/help_files/adminacl_help.php
(/var/www/html/openemr/vendor/adodb/adodb)
- http://192.168.145.128/openemr/Documentation/help_files/cms_1500_help.php
(/var/www/html/openemr/vendor/adodb/adodb)
- http://192.168.145.128/openemr/library/FeeSheet.class.php
(/var/www/html/openemr/vendor/adodb/adodb)
- http://192.168.145.128/openemr/Documentation/help_files/common_help.php
(/var/www/html/openemr/vendor/adodb/adodb)
- http://192.168.145.128/openemr/library/FeeSheetHtml.class.php
(/var/www/html/openemr/vendor/adodb/adodb)
- http://192.168.145.128/openemr/Documentation/help_files/configure_orders_help.php
(/var/www/html/openemr/vendor/adodb/adodb)

Request

```

GET /openemr/interface/main/main_screen.php HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58adee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: filelist;packages;aspectalerts;routes
Referer: http://192.168.145.128/openemr
Cookie: OpenEMR=fLVw-dnCSU123MMDJ4XDEmokIFFZN%2CUpmA0oNxhYR1Fnqazp
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive

```

Recommendation

Prevent this information from being displayed to the user.

References

Full Path Disclosure

https://www.owasp.org/index.php/Full_Path_Disclosure

Development configuration files

One or more configuration files (e.g. Vagrantfile, Gemfile, Rakefile, ...) were found. These files may expose sensitive information that could help a malicious user to prepare more advanced attacks. It's recommended to remove or restrict access to this type of files from production systems.

CWE

CWE-538

CVSS2

AV:N/AC:L/Au:N/C:P/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	Partial
Integrity Impact	None
Availability Impact	None

CVSS3

CVSS:3.0/AV:N/AC:H/PR:N/UI:R/S:U/C:L/I:N/A:N

Base Score	3.1
Attack Vector	Network
Attack Complexity	High
Privileges Required	None
User Interaction	Required
Scope	Unchanged
Confidentiality	Low
Integrity Impact	None
Availability Impact	None

Impact

These files may disclose sensitive information. This information can be used to launch further attacks.

<http://192.168.145.128/>

Development configuration files:

- <http://192.168.145.128/openemr/package.json>

package.json => Grunt configuration file. Grunt is a JavaScript task runner.

- <http://192.168.145.128/openemr/composer.json>

composer.json => Composer configuration file. Composer is a dependency manager for PHP.

- <http://192.168.145.128/openemr/composer.lock>

composer.lock => Composer lock file. Composer is a dependency manager for PHP.

- <http://192.168.145.128/openemr/package-lock.json>

package-lock.json => npm file. This file keeps track of the exact version of every package that is installed.

- <http://192.168.145.128/openemr/public/assets/jquery-datetimepicker/package.json>

package.json => Grunt configuration file. Grunt is a JavaScript task runner.

- <http://192.168.145.128/openemr/public/assets/jquery-datetimepicker/bower.json>

bower.json => Bower manifest file. Bower is a package manager for the web.

Request

```
GET /openemr/package.json HTTP/1.1
Cookie: OpenEMR=ShqPYxekgSvnztaqfRyqOJ2b-9njDrQM43HnaYAqgkzuKU15
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

Recommendation

Remove or restrict access to all configuration files accessible from internet.

Directory listings

Directory listing is a web server function that displays the directory contents when there is no index file in a specific website directory. It is dangerous to leave this function turned on for the web server because it leads to information disclosure.

CWE

CWE-538

CVSS2

AV:N/AC:L/Au:N/C:P/I:N/A:N

CVSS3

CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	Partial
Integrity Impact	None
Availability Impact	None

Base Score	5.3
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	None
Scope	Unchanged
Confidentiality	Low
Integrity Impact	None
Availability Impact	None

Impact

A user can view a list of all files from the affected directories possibly exposing sensitive information.

<http://192.168.145.128/> Verified

Folders with directory listing enabled:

- http://192.168.145.128/openemr/interface/
- http://192.168.145.128/openemr/interface/login/
- http://192.168.145.128/openemr/interface/main/messages/css/
- http://192.168.145.128/openemr/public/assets/
- http://192.168.145.128/openemr/public/assets/bootstrap/dist/js/
- http://192.168.145.128/openemr/interface/main/messages/js/
- http://192.168.145.128/openemr/public/assets/moment/
- http://192.168.145.128/openemr/library/ajax/
- http://192.168.145.128/openemr/interface/main/dated_reminders/
- http://192.168.145.128/openemr/public/assets/select2/dist/css/
- http://192.168.145.128/openemr/public/assets/moment/min/
- http://192.168.145.128/openemr/interface/product_registration/
- http://192.168.145.128/openemr/Documentation/
- http://192.168.145.128/openemr/public/assets/bootstrap/dist/
- http://192.168.145.128/openemr/interface/main/tabs/js/
- http://192.168.145.128/openemr/public/assets/i18next/dist/
- http://192.168.145.128/openemr/public/assets/i18next/dist/umd/
- http://192.168.145.128/openemr/public/
- http://192.168.145.128/openemr/public/assets/i18next/
- http://192.168.145.128/openemr/public/assets/knockout/
- http://192.168.145.128/openemr/public/assets/hotkeys-js/dist/

Request

```
GET /openemr/interface/ HTTP/1.1
Cookie: OpenEMR=ShqPYxekgSvnztaqfRyqOJ2b-9njDrQM43HnaYAqgkzuKU15
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

Recommendation

You should make sure no sensitive information is disclosed or you may want to restrict directory listings from the web server configuration.

Description

How to disable directory listings

The easiest way to disable directory listing is to create an index file. The name of the index file depends on the web server configuration. On Apache is called index.htm, index.html. On IIS is named default.asp, default.aspx, default.htm.

On IIS directory listings are disabled by default.

For Apache you need to edit the Apache configuration file (usually named httpd.conf) or create an .htaccess file. In the configuration file you will have the definition of the directory. Something like

```
<Directory /directoryname/subdirectory> Options Indexes FollowSymLinks ...
</Directory>
```

To disable directory listing for that directory you need to remove the 'Indexes' option.

References

[CWE-548: Exposure of Information Through Directory Listing](#)

<https://cwe.mitre.org/data/definitions/548.html>

Documentation files

One or more documentation files (e.g. readme.txt, changelog.txt, ...) were found. The information contained in these files could help an attacker identify the web application you are using and sometimes the version of the application. It's recommended to remove these files from production systems.

CWE

CWE-538

CVSS2

AV:N/AC:L/Au:N/C:P/I:N/A:N

CVSS3

CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N

Access Vector
Network

Base Score
5.3

Access Complexity	Low
Authentication	None
Confidentiality	Partial
Integrity Impact	None
Availability Impact	None

Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	None
Scope	Unchanged
Confidentiality	Low
Integrity Impact	None
Availability Impact	None

Impact

These files may disclose sensitive information. This information can be used to launch further attacks.

<http://192.168.145.128/>

Documentation files:

- <http://192.168.145.128/openemr/README.md>

File contents (first 100 characters):

```
! [Syntax Status] (https://github.com/openemr/openemr/workflows/Syntax/badge.svg?branch=rel-700)
! [Sty ...
```

- <http://192.168.145.128/openemr/interface/README.md>

File contents (first 100 characters):

```
# OpenEMR-interface
```

```
The OpenEMR UI is built with [SASS] (https://sass-lang.com/) on top of a bootstr
...

```

- <http://192.168.145.128/openemr/public/assets/jquery-datetimepicker/README.md>

File contents (first 100 characters):

```
# jQuery DateTimePicker
[Demo and Documentation] (https://xdsoft.net/jqplugins/datetimepicker/)
```

```
[ ! [B ...
```

Request

GET /openemr/README.md HTTP/1.1

Cookie: OpenEMR=ShqPYxekgSvnztaqfRyqOJ2b-9njDrQM43HnaYAqgkzuKU15

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip, deflate, br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive

Recommendation

Remove or restrict access to all documentation file accessible from internet.

A02 Cryptographic Failures

The first thing is to determine the protection needs of data in transit and at rest. For example, passwords, credit card numbers, health records, personal information, and business secrets require extra protection, mainly if that data falls under privacy laws, e.g., EU's General Data Protection Regulation (GDPR), or regulations, e.g., financial data protection such as PCI Data Security Standard (PCI DSS).

Application error messages

This alert requires manual confirmation

Acunetix found one or more error/warning messages. Application error or warning messages may expose sensitive information about an application's internal workings to an attacker.
These messages may also contain the location of the file that produced an unhandled exception.
Consult the 'Attack details' section for more information about the affected page(s).

CWE

CWE-209

CVSS2

AV:N/AC:L/Au:N/C:P/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	Partial
Integrity Impact	None
Availability Impact	None

CVSS3

CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N

Base Score	5.3
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	None
Scope	Unchanged
Confidentiality	Low
Integrity Impact	None

Availability Impact	None
---------------------	------

Impact

Error messages may disclose sensitive information which can be used to escalate attacks.

<http://192.168.145.128/>

Application error messages:

- http://192.168.145.128/openemr/interface/main/main_screen.php
**< b > Warning </ b >: include_once(/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php): failed to open stream: No such file or directory in < b >/var/www/html/openemr/interface/main/main_screen.php</ b > on line < b >5137</ b >
**
- http://192.168.145.128/openemr/interface/main/main_screen.php
**< b > Warning </ b >: include_once(): Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion (include_path='/var/www/html/openemr/vendor/pear/archive_tar:/var/www/html/openemr/vendor/pear/console_getopt:/var/www/html/openemr/vendor/pear/pear-core-minimal/src:/var/www/html/openemr/vendor/pear/pear_exception:::/usr/share/php') in < b >/var/www/html/openemr/interface/main/main_screen.php</ b > on line < b >5137</ b >
**
- http://192.168.145.128/openemr/interface/main/main_screen.php
Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion
- http://192.168.145.128/openemr/interface/main/messages/messages.php
**< b > Warning </ b >: include_once(/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php): failed to open stream: No such file or directory in < b >/var/www/html/openemr/interface/main/messages/messages.php</ b > on line < b >5137</ b >
**
- http://192.168.145.128/openemr/interface/main/messages/messages.php
**< b > Warning </ b >: include_once(): Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion (include_path='/var/www/html/openemr/vendor/pear/archive_tar:/var/www/html/openemr/vendor/pear/conssole_getopt:/var/www/html/openemr/vendor/pear/pear-core-minimal/src:/var/www/html/openemr/vendor/pear/pear_exception:::/usr/share/php') in < b >/var/www/html/openemr/interface/main/messages/messages.php</ b > on line < b >5137</ b >
**
- http://192.168.145.128/openemr/interface/main/messages/messages.php
Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion
- http://192.168.145.128/openemr/library/ajax/dated_reminders_counter.php
< b > Warning </ b >: include_once(/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-

mysqli_log.inc.php): failed to open stream: No such file or directory in
/var/www/html/openemr/library/ajax/dated_reminders_counter.php on line 5137

- http://192.168.145.128/openemr/library/ajax/dated_reminders_counter.php
Warning: include_once(): Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion
(include_path='/var/www/html/openemr/vendor/pear/archive_tar:/var/www/html/openemr/vendor/pear/console_getopt:/var/www/html/openemr/vendor/pear/pear-core-minimal/src:/var/www/html/openemr/vendor/pear/pear_exception:::/usr/share/php') in
/var/www/html/openemr/library/ajax/dated_reminders_counter.php on line 5137

- http://192.168.145.128/openemr/library/ajax/dated_reminders_counter.php
Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion
- http://192.168.145.128/openemr/interface/login/login.php
Warning: include_once(/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php): failed to open stream: No such file or directory in
/var/www/html/openemr/interface/login/login.php on line 5137

- http://192.168.145.128/openemr/interface/login/login.php
Warning: include_once(): Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion
(include_path='/var/www/html/openemr/vendor/pear/archive_tar:/var/www/html/openemr/vendor/pear/console_getopt:/var/www/html/openemr/vendor/pear/pear-core-minimal/src:/var/www/html/openemr/vendor/pear/pear_exception:::/usr/share/php') in
/var/www/html/openemr/interface/login/login.php on line 5137

- http://192.168.145.128/openemr/interface/login/login.php
Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion
- http://192.168.145.128/openemr/library/ajax/i18n_generator.php
Warning: include_once(/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php): failed to open stream: No such file or directory in
/var/www/html/openemr/library/ajax/i18n_generator.php on line 5137

- http://192.168.145.128/openemr/library/ajax/i18n_generator.php
Warning: include_once(): Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion
(include_path='/var/www/html/openemr/vendor/pear/archive_tar:/var/www/html/openemr/vendor/pear/console_getopt:/var/www/html/openemr/vendor/pear/pear-core-minimal/src:/var/www/html/openemr/vendor/pear/pear_exception:::/usr/share/php') in
/var/www/html/openemr/library/ajax/i18n_generator.php on line 5137

- http://192.168.145.128/openemr/library/ajax/i18n_generator.php
Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion
- http://192.168.145.128/openemr/interface/login_screen.php
**Warning: include_once(/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php): failed to open stream: No such file or directory in /var/www/html/openemr/interface/login_screen.php on line 5137
**
- http://192.168.145.128/openemr/interface/login_screen.php
**Warning: include_once(): Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion (include_path='/var/www/html/openemr/vendor/pear/archive_tar:/var/www/html/openemr/vendor/pear/cole_getopt:/var/www/html/openemr/vendor/pear/pear-core-minimal/src:/var/www/html/openemr/vendor/pear/pear_exception:::/usr/share/php') in /var/www/html/openemr/interface/login_screen.php on line 5137
**
- http://192.168.145.128/openemr/interface/login_screen.php
Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion
- http://192.168.145.128/openemr/interface/main/dated_reminders/dated_reminders.php
**Warning: include_once(/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php): failed to open stream: No such file or directory in /var/www/html/openemr/interface/main/dated_reminders/dated_reminders.php on line 5137
**
- http://192.168.145.128/openemr/interface/main/dated_reminders/dated_reminders.php
**Warning: include_once(): Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion (include_path='/var/www/html/openemr/vendor/pear/archive_tar:/var/www/html/openemr/vendor/pear/cole_getopt:/var/www/html/openemr/vendor/pear/pear-core-minimal/src:/var/www/html/openemr/vendor/pear/pear_exception:::/usr/share/php') in /var/www/html/openemr/interface/main/dated_reminders/dated_reminders.php on line 5137
**
- http://192.168.145.128/openemr/interface/main/dated_reminders/dated_reminders.php
Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion

Request

```
GET /openemr/interface/main/main_screen.php HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58addee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
```

```
Acunetix-Aspect-Queries: filelist;packages;aspectalerts;routes
Referer: http://192.168.145.128/openemr
Cookie: OpenEMR=fLVw-dnCSU123MMDJ4XDEmokIFFZN%2CUpmA0oNxhYR1Fnqazp
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

Recommendation

Verify that these page(s) are disclosing error or warning messages and properly configure the application to log errors to a file instead of displaying the error to the user.

Description

While information disclosure vulnerabilities are not directly exploitable by an attacker, they may help an attacker to learn about system specific information. The following is a list of **some** of the information an attacker may be able to obtain from application error disclosure.

Internal IP addresses

Secrets (passwords, keys, tokens...)

Operating system distributions

Software version numbers

Missing security patches

Application stack traces

SQL statements

Location of sensitive files (backups, temporary files...)

Location of sensitive resources (databases, caches, code repositories...)

References

[PHP Runtime Configuration](#)

<https://www.php.net/manual/en/errorfunc.configuration.php#ini.display-errors>

[Improper Error Handling](#)

https://www.owasp.org/index.php/Improper_Error_Handling

Development configuration files

One or more configuration files (e.g. Vagrantfile, Gemfile, Rakefile, ...) were found. These files may expose sensitive information that could help a malicious user to prepare more advanced attacks. It's recommended to remove or restrict access to this type of files from production systems.

CWE

CWE-538

CVSS2

AV:N/AC:L/Au:N/C:P/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	Partial
Integrity Impact	None
Availability Impact	None

CVSS3

CVSS:3.0/AV:N/AC:H/PR:N/UI:R/S:U/C:L/I:N/A:N

Base Score	3.1
Attack Vector	Network
Attack Complexity	High
Privileges Required	None
User Interaction	Required
Scope	Unchanged
Confidentiality	Low
Integrity Impact	None
Availability Impact	None

Impact

These files may disclose sensitive information. This information can be used to launch further attacks.

<http://192.168.145.128/>

Development configuration files:

- <http://192.168.145.128/openemr/package.json>

package.json => Grunt configuration file. Grunt is a JavaScript task runner.

- <http://192.168.145.128/openemr/composer.json>

composer.json => Composer configuration file. Composer is a dependency manager for PHP.

- <http://192.168.145.128/openemr/composer.lock>

composer.lock => Composer lock file. Composer is a dependency manager for PHP.

- <http://192.168.145.128/openemr/package-lock.json>

package-lock.json => npm file. This file keeps track of the exact version of every package that is installed.

- <http://192.168.145.128/openemr/public/assets/jquery-datetimepicker/package.json>

package.json => Grunt configuration file. Grunt is a JavaScript task runner.

- <http://192.168.145.128/openemr/public/assets/jquery-datetimepicker/bower.json>

Request

```
GET /openemr/package.json HTTP/1.1
Cookie: OpenEMR=ShqPYxekgSvnztaqfRyqOJ2b-9njDrQM43HnaYAqgkzuKU15
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

Recommendation

Remove or restrict access to all configuration files accessible from internet.

Directory listings

Directory listing is a web server function that displays the directory contents when there is no index file in a specific website directory. It is dangerous to leave this function turned on for the web server because it leads to information disclosure.

CWE

CWE-538

CVSS2

AV:N/AC:L/Au:N/C:P/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	Partial
Integrity Impact	None
Availability Impact	None

CVSS3

CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N

Base Score	5.3
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	None
Scope	Unchanged
Confidentiality	Low
Integrity Impact	None
Availability Impact	None

Impact

A user can view a list of all files from the affected directories possibly exposing sensitive information.

<http://192.168.145.128/>

Verified

Folders with directory listing enabled:

- http://192.168.145.128/openemr/interface/
- http://192.168.145.128/openemr/interface/login/
- http://192.168.145.128/openemr/interface/main/messages/css/
- http://192.168.145.128/openemr/public/assets/
- http://192.168.145.128/openemr/public/assets/bootstrap/dist/js/
- http://192.168.145.128/openemr/interface/main/messages/js/
- http://192.168.145.128/openemr/public/assets/moment/
- http://192.168.145.128/openemr/library/ajax/
- http://192.168.145.128/openemr/interface/main/dated_reminders/
- http://192.168.145.128/openemr/public/assets/select2/dist/css/
- http://192.168.145.128/openemr/public/assets/moment/min/
- http://192.168.145.128/openemr/interface/product_registration/
- http://192.168.145.128/openemr/Documentation/
- http://192.168.145.128/openemr/public/assets/bootstrap/dist/
- http://192.168.145.128/openemr/interface/main/tabs/js/
- http://192.168.145.128/openemr/public/assets/i18next/dist/
- http://192.168.145.128/openemr/public/assets/i18next/dist/umd/
- http://192.168.145.128/openemr/public/
- http://192.168.145.128/openemr/public/assets/i18next/
- http://192.168.145.128/openemr/public/assets/knockout/
- http://192.168.145.128/openemr/public/assets/hotkeys-js/dist/

Request

```
GET /openemr/interface/ HTTP/1.1
Cookie: OpenEMR=ShqPYxekgSvnztaqfRyqOJ2b-9njDrQM43HnaYAqgkzuKU15
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

Recommendation

You should make sure no sensitive information is disclosed or you may want to restrict directory listings from the web server configuration.

Description

How to disable directory listings

The easiest way to disable directory listing is to create an index file. The name of the index file depends on the web server configuration. On Apache is called index.htm, index.html. On IIS is named default.asp, default.aspx, default.htm.

On IIS directory listings are disabled by default.

For Apache you need to edit the Apache configuration file (usually named httpd.conf) or create an .htaccess file. In the configuration file you will have the definition of the directory. Something like

```
<Directory /directoryname/subdirectory> Options Indexes FollowSymLinks ...  
</Directory>
```

To disable directory listing for that directory you need to remove the 'Indexes' option.

References

[CWE-548: Exposure of Information Through Directory Listing](#)

<https://cwe.mitre.org/data/definitions/548.html>

Documentation files

One or more documentation files (e.g. readme.txt, changelog.txt, ...) were found. The information contained in these files could help an attacker identify the web application you are using and sometimes the version of the application. It's recommended to remove these files from production systems.

CWE

CWE-538

CVSS2

AV:N/AC:L/Au:N/C:P/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	Partial
Integrity Impact	None
Availability Impact	None

CVSS3

CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N

Base Score	5.3
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	None
Scope	Unchanged
Confidentiality	Low
Integrity Impact	None
Availability Impact	None

Impact

These files may disclose sensitive information. This information can be used to launch further attacks.

<http://192.168.145.128/>

Documentation files:

- <http://192.168.145.128/openemr/README.md>

File contents (first 100 characters):

```
! [Syntax Status] (https://github.com/openemr/openemr/workflows/Syntax/badge.svg?branch=rel-700)
! [Sty ...
```

- <http://192.168.145.128/openemr/interface/README.md>

File contents (first 100 characters):

```
# OpenEMR-interface
```

```
The OpenEMR UI is built with [SASS] (https://sass-lang.com/) on top of a bootstr
...
```

- <http://192.168.145.128/openemr/public/assets/jquery-datetimepicker/README.md>

File contents (first 100 characters):

```
# jQuery DateTimePicker
[Demo and Documentation] (https://xdsoft.net/jqplugins/datetimepicker/)
```

```
[ ! [B ...
```

Request

```
GET /openemr/README.md HTTP/1.1
Cookie: OpenEMR=ShqPYxekgSvnztaqfRyqOJ2b-9njDrQM43HnaYAqgkzuKU15
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

Recommendation

Remove or restrict access to all documentation file accessible from internet.

Possible sensitive directories

One or more possibly sensitive directories were found. These resources are not directly linked from the website. This check looks for common sensitive resources like backup directories, database dumps,

administration pages, temporary directories. Each one of these directories could help an attacker to learn more about his target.

CWE

CWE-200

CVSS2

AV:N/AC:L/Au:N/C:P/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	Partial
Integrity Impact	None
Availability Impact	None

CVSS3

CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N

Base Score	5.3
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	None
Scope	Unchanged
Confidentiality	Low
Integrity Impact	None
Availability Impact	None

Impact

These directories may expose sensitive information that could help a malicious user to prepare more advanced attacks.

<http://192.168.145.128/>

Possible sensitive directories:

- <http://192.168.145.128/openemr/bin>
- <http://192.168.145.128/openemr/sql>
- <http://192.168.145.128/openemr/config>
- <http://192.168.145.128/openemr/tests>
- <http://192.168.145.128/openemr/src>

Request

```
GET /openemr/bin/ HTTP/1.1
Cookie: OpenEMR=ShqPYxekgSvnztaqfRyqOJ2b-9njDrQM43HnaYAqgkzuKU15
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

Recommendation

Restrict access to these directories or remove them from the website.

References

[Web Server Security and Database Server Security](#)

<https://www.acunetix.com/websitemanagement/webserver-security/>

Possible sensitive files

A possible sensitive file has been found. This file is not directly linked from the website. This check looks for common sensitive resources like password files, configuration files, log files, include files, statistics data, database dumps. Each one of these files could help an attacker to learn more about his target.

CWE

CWE-200

CVSS2

AV:N/AC:L/Au:N/C:P/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	Partial
Integrity Impact	None
Availability Impact	None

CVSS3

CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N

Base Score	5.3
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	None
Scope	Unchanged
Confidentiality	Low
Integrity Impact	None
Availability Impact	None

Impact

This file may expose sensitive information that could help a malicious user to prepare more advanced attacks.

<http://192.168.145.128/>

Possible sensitive files:

- <http://192.168.145.128/openemr/admin.php>

Request

```
GET /openemr/admin.php HTTP/1.1
Accept: shxrinco/hemy
Cookie: OpenEMR=ShqPYxekgSvnztaqfRyqOJ2b-9njDrQM43HnaYAqgkzuKU15
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

Recommendation

Restrict access to this file or remove it from the website.

References

[Web Server Security and Database Server Security](#)

<https://www.acunetix.com/websitesecurity/webserver-security/>

Email addresses

One or more email addresses have been found on this website. The majority of spam comes from email addresses harvested off the internet. The spam-bots (also known as email harvesters and email extractors) are programs that scour the internet looking for email addresses on any website they come across. Spambot programs look for strings like myname@mydomain.com and then record any addresses found.

CWE

CWE-200

CVSS2

AV:N/AC:L/Au:N/C:N/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	None
Integrity Impact	None
Availability Impact	None

CVSS3

CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:N

Base Score	0.0
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	None
Scope	Unchanged
Confidentiality	None
Integrity Impact	None
Availability Impact	None

Impact

Email addresses posted on Web sites may attract spam.

<http://192.168.145.128/>

Emails found:

- http://192.168.145.128/openemr/acknowledge_license_cert.html
ajabour@iupui.edu
- http://192.168.145.128/openemr/acknowledge_license_cert.html
andres@paglayan.com
- http://192.168.145.128/openemr/acknowledge_license_cert.html
superarnab@gmail.com
- http://192.168.145.128/openemr/acknowledge_license_cert.html
drbowen@bowenmd.com
- http://192.168.145.128/openemr/acknowledge_license_cert.html
bss@iguanasuicide.net
- http://192.168.145.128/openemr/acknowledge_license_cert.html
brady.g.miller@gmail.com
- http://192.168.145.128/openemr/acknowledge_license_cert.html
pandi.param@capminds.com
- http://192.168.145.128/openemr/acknowledge_license_cert.html
stephen.waite@cmsvt.com
- http://192.168.145.128/openemr/acknowledge_license_cert.html
amit@comlinkinc.com
- http://192.168.145.128/openemr/acknowledge_license_cert.html
sbhayani@communitybehavioralhealth.net
- http://192.168.145.128/openemr/acknowledge_license_cert.html
ramesh@ensoftek.com
- http://192.168.145.128/openemr/acknowledge_license_cert.html
george.tye@gmail.com
- http://192.168.145.128/openemr/acknowledge_license_cert.html
stone@annashaegrp.com
- http://192.168.145.128/openemr/acknowledge_license_cert.html
fndtn357@gmail.com
- http://192.168.145.128/openemr/acknowledge_license_cert.html
sherwin@affordablecustomehr.com
- http://192.168.145.128/openemr/acknowledge_license_cert.html
julia.longtin@gmail.com
- http://192.168.145.128/openemr/acknowledge_license_cert.html
ptspohnpei@gmail.com
- http://192.168.145.128/openemr/acknowledge_license_cert.html
kevin.y@integralemr.com
- http://192.168.145.128/openemr/acknowledge_license_cert.html
openemr@lillysystems.com

- http://192.168.145.128/openemr/acknowledge_license_cert.html
mscltd@earthlink.net
- http://192.168.145.128/openemr/acknowledge_license_cert.html
mdsupport@users.sf.net

Request

```
GET /openemr/acknowledge_license_cert.html HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58addee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: aspectalerts;routes
Referer: http://192.168.145.128/openemr/interface/login/login.php
Cookie: OpenEMR=F-6X1PVs1YyH8tuel82CU%2CjzXjI%2C2Xj1wHpg%2CMTJEHOAPWa5
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

Recommendation

Check references for details on how to solve this problem.

References

[Anti-spam techniques](#)

https://en.wikipedia.org/wiki/Anti-spam_techniques

Error page web server version disclosure

Application errors or warning messages may disclose sensitive information about an application's internal workings to an attacker.

Acunetix found the web server version number and a list of modules enabled on the target server. Consult the 'Attack details' section for more information about the affected page.

CWE

CWE-200

CVSS2

AV:N/AC:L/Au:N/C:P/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None

CVSS3

CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N

Base Score	5.3
Attack Vector	Network
Attack Complexity	Low

Confidentiality	Partial
Integrity Impact	None
Availability Impact	None

Privileges Required	None
User Interaction	None
Scope	Unchanged
Confidentiality	Low
Integrity Impact	None
Availability Impact	None

Impact

Error messages information about an application's internal workings may be used to escalate attacks.

<http://192.168.145.128/>

Request

```
GET /OSEbyESLkq HTTP/1.1
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

Recommendation

Properly configure the web server not to disclose information about an application's internal workings to the user. Consult the 'Web references' section for more information.

References

[Custom Error Responses \(Apache HTTP Server\)](#)

<https://httpd.apache.org/docs/current/custom-error.html>

[server_tokens \(Nginx\)](#)

http://nginx.org/en/docs/http/ngx_http_core_module.html#server_tokens

[Remove Unwanted HTTP Response Headers \(Microsoft IIS\)](#)

<https://blogs.msdn.microsoft.com/varunm/2013/04/23/remove-unwanted-http-response-headers/>

Possible server path disclosure (Unix)

One or more fully qualified path names were found. From this information the attacker may learn the file system structure from the web server. This information can be used to conduct further attacks.

This alert may be a false positive, manual confirmation is required.

CWE

CWE-200

CVSS2

AV:N/AC:L/Au:N/C:P/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	Partial
Integrity Impact	None
Availability Impact	None

CVSS3

CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N

Base Score	5.3
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	None
Scope	Unchanged
Confidentiality	Low
Integrity Impact	None
Availability Impact	None

Impact

Possible sensitive information disclosure.

<http://192.168.145.128/>

Pages with paths being disclosed:

- http://192.168.145.128/openemr/interface/main/main_screen.php
(/var/www/html/openemr/vendor/adodb/adodb)
- http://192.168.145.128/openemr/interface/main/messages/messages.php
(/var/www/html/openemr/vendor/adodb/adodb)
- http://192.168.145.128/openemr/library/ajax/dated_reminders_counter.php
(/var/www/html/openemr/vendor/adodb/adodb)
- http://192.168.145.128/openemr/interface/login/login.php
(/var/www/html/openemr/vendor/adodb/adodb)
- http://192.168.145.128/openemr/library/ajax/i18n_generator.php
(/var/www/html/openemr/vendor/adodb/adodb)
- http://192.168.145.128/
 >/var/www/html/index.html
- http://192.168.145.128/openemr/interface/login_screen.php
(/var/www/html/openemr/vendor/adodb/adodb)
- http://192.168.145.128/openemr/interface/main/dated_reminders/dated_reminders.php
(/var/www/html/openemr/vendor/adodb/adodb)
- http://192.168.145.128/openemr/interface/main/tabs/main.php
(/var/www/html/openemr/vendor/adodb/adodb)

- http://192.168.145.128/openemr/portal/
(/var/www/html/openemr/vendor/adodb/adodb)
- http://192.168.145.128/openemr/portal/messaging/messages.php
(/var/www/html/openemr/vendor/adodb/adodb)
- http://192.168.145.128/openemr/portal/messaging/secure_chat.php
(/var/www/html/openemr/vendor/adodb/adodb)
- http://192.168.145.128/openemr/Documentation/Readme_edihistory.html
/var/www/htdocs/openemr/sites/
- http://192.168.145.128/openemr/Documentation/help_files/add_edit_transactions_dashboard_help.php
(/var/www/html/openemr/vendor/adodb/adodb)
- http://192.168.145.128/openemr/Documentation/README-Log-Backup.txt
/var/www/openemr
- http://192.168.145.128/openemr/Documentation/help_files/adminacl_help.php
(/var/www/html/openemr/vendor/adodb/adodb)
- http://192.168.145.128/openemr/Documentation/help_files/cms_1500_help.php
(/var/www/html/openemr/vendor/adodb/adodb)
- http://192.168.145.128/openemr/library/FeeSheet.class.php
(/var/www/html/openemr/vendor/adodb/adodb)
- http://192.168.145.128/openemr/Documentation/help_files/common_help.php
(/var/www/html/openemr/vendor/adodb/adodb)
- http://192.168.145.128/openemr/library/FeeSheetHtml.class.php
(/var/www/html/openemr/vendor/adodb/adodb)
- http://192.168.145.128/openemr/Documentation/help_files/configure_orders_help.php
(/var/www/html/openemr/vendor/adodb/adodb)

Request

```
GET /openemr/interface/main/main_screen.php HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58addee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: filelist;packages;aspectalerts;routes
Referer: http://192.168.145.128/openemr
Cookie: OpenEMR=fLVw-dnCSU123MMDJ4XDEmokIFFZN%2CUpmA0oNxhYR1Fnqazp
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

Recommendation

Prevent this information from being displayed to the user.

References

[Full Path Disclosure](#)

Unencrypted connection

This scan target was connected to over an unencrypted connection. A potential attacker can intercept and modify data sent and received from this site.

CWE

CWE-319

CVSS2

AV:N/AC:M/Au:N/C:P/I:P/A:N

Access Vector	Network
Access Complexity	Medium
Authentication	None
Confidentiality	Partial
Integrity Impact	Partial
Availability Impact	None

CVSS3

CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:U/C:L/I:L/A:N

Base Score	5.4
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	Required
Scope	Unchanged
Confidentiality	Low
Integrity Impact	Low
Availability Impact	None

Impact

Possible information disclosure.

<http://192.168.145.128/>

Verified

Request

```
GET /openemr/public/assets/ HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58addee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: aspectalerts;routes
Referer: http://192.168.145.128/openemr/public/assets/
Cookie: OpenEMR=ShqPYxekgSvnztaqfRyqOJ2b-9njDrQM43HnaYAqgkzuKU15
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
```

Recommendation

The site should send and receive data over a secure (HTTPS) connection.

User credentials are sent in clear text

User credentials are transmitted over an unencrypted channel. This information should always be transferred via an encrypted channel (HTTPS) to avoid being intercepted by malicious users.

CWE

CWE-523

CVSS2

AV:N/AC:L/Au:N/C:P/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	Partial
Integrity Impact	None
Availability Impact	None

CVSS3

CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:U/C:L/I:N/A:N

Base Score	4.3
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	Required
Scope	Unchanged
Confidentiality	Low
Integrity Impact	None
Availability Impact	None

Impact

A third party may be able to read the user credentials by intercepting an unencrypted HTTP connection.

<http://192.168.145.128/>

Forms with credentials sent in clear text:

- <http://192.168.145.128/openemr/interface/login/login.php>

Form name: login_form

Form action: ../main/main_screen.php?auth=login&site=default

Form method: POST

Password input: clearPass

Request

```
GET /openemr/interface/login/login.php?site=default HTTP/1.1
Host: 192.168.145.128
Pragma: no-cache
Cache-Control: no-cache
accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9
accept-language: en-US
upgrade-insecure-requests: 1
Accept-Encoding: gzip,deflate,br
Connection: keep-alive
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
```

Recommendation

Because user credentials are considered sensitive information, should always be transferred to the server over an encrypted connection (HTTPS).

A03 Injection

Injection flaws, such as SQL, NoSQL, OS, and LDAP injection, occur when untrusted data is sent an interpreter as part of a command or query. The attacker's hostile data can trick the interpreter into executing unintended commands or accessing data without proper authorization.

No alerts in this category

A04 Insecure Design

Insecure design is a broad category representing different weaknesses, expressed as "missing or ineffective control design." Insecure design is not the source for all other Top 10 risk categories. There is a difference between insecure design and insecure implementation. We differentiate between design flaws and implementation defects for a reason, they have different root causes and remediation. A secure design can still have implementation defects leading to vulnerabilities that may be exploited. An insecure design cannot be fixed by a perfect implementation as by definition, needed security controls were never created to defend against specific attacks. One of the factors that contribute to insecure design is the lack of business risk profiling inherent in the software or system being developed, and thus the failure to determine what level of security design is required.

Application error messages

This alert requires manual confirmation

Acunetix found one or more error/warning messages. Application error or warning messages may expose sensitive information about an application's internal workings to an attacker.

These messages may also contain the location of the file that produced an unhandled exception.

Consult the 'Attack details' section for more information about the affected page(s).

CWE

CWE-209

CVSS2

AV:N/AC:L/Au:N/C:P/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	Partial
Integrity Impact	None
Availability Impact	None

CVSS3

CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N

Base Score	5.3
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	None
Scope	Unchanged
Confidentiality	Low
Integrity Impact	None
Availability Impact	None

Impact

Error messages may disclose sensitive information which can be used to escalate attacks.

<http://192.168.145.128/>

Application error messages:

- http://192.168.145.128/openemr/interface/main/main_screen.php
**< b > Warning </ b >: include_once(/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php): failed to open stream: No such file or directory in < b > /var/www/html/openemr/interface/main/main_screen.php </ b > on line < b > 5137 </ b >
**
- http://192.168.145.128/openemr/interface/main/main_screen.php
< b > Warning </ b >: include_once(): Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion (include_path='/var/www/html/openemr/vendor/pear/archive_tar:/var/www/html/openemr/vendor/pear/console_getopt:/var/www/html/openemr/vendor/pear/pear-core-

- minimal/src:/var/www/html/openemr/vendor/pear/pear_exception:::/usr/share/php') in
< b >/var/www/html/openemr/interface/main/main_screen.php on line **< b >5137
**
- http://192.168.145.128/openemr/interface/main/main_screen.php
Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion
 - http://192.168.145.128/openemr/interface/main/messages/messages.php
**< b >Warning: include_once(/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php): failed to open stream: No such file or directory in
< b >/var/www/html/openemr/interface/main/messages/messages.php on line **< b >5137

 - http://192.168.145.128/openemr/interface/main/messages/messages.php
**< b >Warning: include_once(): Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion
(include_path='/var/www/html/openemr/vendor/pear/archive_tar:/var/www/html/openemr/vendor/pear/console_getopt:/var/www/html/openemr/vendor/pear/pear-core-minimal/src:/var/www/html/openemr/vendor/pear/pear_exception:::/usr/share/php') in
< b >/var/www/html/openemr/interface/main/messages/messages.php on line **< b >5137

 - http://192.168.145.128/openemr/interface/main/messages/messages.php
Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion
 - http://192.168.145.128/openemr/library/ajax/dated_reminders_counter.php
**< b >Warning: include_once(/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php): failed to open stream: No such file or directory in
< b >/var/www/html/openemr/library/ajax/dated_reminders_counter.php on line **< b >5137

 - http://192.168.145.128/openemr/library/ajax/dated_reminders_counter.php
**< b >Warning: include_once(): Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion
(include_path='/var/www/html/openemr/vendor/pear/archive_tar:/var/www/html/openemr/vendor/pear/console_getopt:/var/www/html/openemr/vendor/pear/pear-core-minimal/src:/var/www/html/openemr/vendor/pear/pear_exception:::/usr/share/php') in
< b >/var/www/html/openemr/library/ajax/dated_reminders_counter.php on line **< b >5137

 - http://192.168.145.128/openemr/library/ajax/dated_reminders_counter.php
Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion
 - http://192.168.145.128/openemr/interface/login/login.php
**< b >Warning: include_once(/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php): failed to open stream: No such file or directory in
< b >/var/www/html/openemr/interface/login/login.php on line **< b >5137

- http://192.168.145.128/openemr/interface/login/login.php

Warning: include_once(): Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion
 (include_path='/var/www/html/openemr/vendor/pear/archive_tar:/var/www/html/openemr/vendor/pear/console getopt:/var/www/html/openemr/vendor/pear/pear-core-minimal/src:/var/www/html/openemr/vendor/pear/pear_exception:::/usr/share/php') in
 /var/www/html/openemr/interface/login/login.php on line 5137

- http://192.168.145.128/openemr/interface/login/login.php

Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion
- http://192.168.145.128/openemr/library/ajax/i18n_generator.php

Warning: include_once(/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php): failed to open stream: No such file or directory in
 /var/www/html/openemr/library/ajax/i18n_generator.php on line 5137

- http://192.168.145.128/openemr/library/ajax/i18n_generator.php

Warning: include_once(): Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion
 (include_path='/var/www/html/openemr/vendor/pear/archive_tar:/var/www/html/openemr/vendor/pear/console getopt:/var/www/html/openemr/vendor/pear/pear-core-minimal/src:/var/www/html/openemr/vendor/pear/pear_exception:::/usr/share/php') in
 /var/www/html/openemr/library/ajax/i18n_generator.php on line 5137

- http://192.168.145.128/openemr/library/ajax/i18n_generator.php

Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion
- http://192.168.145.128/openemr/interface/login_screen.php

Warning: include_once(/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php): failed to open stream: No such file or directory in
 /var/www/html/openemr/interface/login_screen.php on line 5137

- http://192.168.145.128/openemr/interface/login_screen.php

Warning: include_once(): Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion
 (include_path='/var/www/html/openemr/vendor/pear/archive_tar:/var/www/html/openemr/vendor/pear/console getopt:/var/www/html/openemr/vendor/pear/pear-core-minimal/src:/var/www/html/openemr/vendor/pear/pear_exception:::/usr/share/php') in
 /var/www/html/openemr/interface/login_screen.php on line 5137

- http://192.168.145.128/openemr/interface/login_screen.php

Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion

- http://192.168.145.128/openemr/interface/main/dated_reminders/dated_reminders.php
 Warning: include_once(/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php): failed to open stream: No such file or directory in
 /var/www/html/openemr/interface/main/dated_reminders/dated_reminders.php on line 5137

- http://192.168.145.128/openemr/interface/main/dated_reminders/dated_reminders.php
 Warning: include_once(): Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion
 (include_path='/var/www/html/openemr/vendor/pear/archive_tar:/var/www/html/openemr/vendor/pear/console_getopt:/var/www/html/openemr/vendor/pear/pear-core-minimal/src:/var/www/html/openemr/vendor/pear/pear_exception:::/usr/share/php') in
 /var/www/html/openemr/interface/main/dated_reminders/dated_reminders.php on line 5137

- http://192.168.145.128/openemr/interface/main/dated_reminders/dated_reminders.php
 Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion

Request

```
GET /openemr/interface/main/main_screen.php HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58addee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: filelist;packages;aspectalerts;routes
Referer: http://192.168.145.128/openemr
Cookie: OpenEMR=fLVw-dnCSU123MMDJ4XDEmokIFFZN%2CUpmA0oNxhYR1Fnqazp
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

Recommendation

Verify that these page(s) are disclosing error or warning messages and properly configure the application to log errors to a file instead of displaying the error to the user.

Description

While information disclosure vulnerabilities are not directly exploitable by an attacker, they may help an attacker to learn about system specific information. The following is a list of **some** of the information an attacker may be able to obtain from application error disclosure.

Internal IP addresses
 Secrets (passwords, keys, tokens...)

Operating system distributions
Software version numbers
Missing security patches
Application stack traces
SQL statements
Location of sensitive files (backups, temporary files...)
Location of sensitive resources (databases, caches, code repositories...)

References

[PHP Runtime Configuration](#)

<https://www.php.net/manual/en/errorfunc.configuration.php#ini.display-errors>

[Improper Error Handling](#)

https://www.owasp.org/index.php/Improper_Error_Handling

Clickjacking: X-Frame-Options header

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 did not return an **X-Frame-Options** header with the value DENY or SAMEORIGIN, 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 untrusted sites.

CWE

CWE-1021

CVSS2

AV:N/AC:M/Au:N/C:N/I:P/A:N

Access Vector	Network
Access Complexity	Medium
Authentication	None
Confidentiality	None
Integrity Impact	Partial
Availability Impact	None

CVSS3

CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:C/C:N/I:L/A:N

Base Score	5.8
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	None
Scope	Changed
Confidentiality	None
Integrity Impact	Low

Availability Impact	None
---------------------	------

Impact

The impact depends on the affected web application.

<http://192.168.145.128/>

Paths without secure XFO header:

- <http://192.168.145.128/openemr/public/assets/>
- <http://192.168.145.128/openemr/library/>
- <http://192.168.145.128/openemr/public/assets/hotkeys-js/>
- <http://192.168.145.128/openemr/interface/main/tabs/>
- <http://192.168.145.128/openemr/public/assets/knockout/>
- <http://192.168.145.128/openemr/interface/>
- http://192.168.145.128/openemr/interface/main/main_screen.php
- <http://192.168.145.128/openemr/public/assets/bootstrap/dist/js/>
- <http://192.168.145.128/openemr/public/assets/moment/min/>
- <http://192.168.145.128/openemr/interface/main/messages/messages.php>
- <http://192.168.145.128/openemr/public/assets/jquery/dist/>
- http://192.168.145.128/openemr/library/ajax/dated_reminders_counter.php
- http://192.168.145.128/openemr/interface/main/dated_reminders/dated_reminders.php
- <http://192.168.145.128/openemr/public/assets/select2/>
- <http://192.168.145.128/openemr/library/js/vendors/>
- <http://192.168.145.128/openemr/interface/main/calendar/>
- <http://192.168.145.128/openemr/public/assets/jquery/>
- <http://192.168.145.128/openemr/Documentation>

- http://192.168.145.128/openemr/Documentation/help_files/
- <http://192.168.145.128/openemr/public/assets/i18next/>
- http://192.168.145.128/openemr/library/ajax/i18n_generator.php

Request

```
GET /openemr/public/assets/ HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58addee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: aspectalerts;routes
Referer: http://192.168.145.128/openemr/public/assets/
Cookie: OpenEMR=ShqPYxekgSvnztaqfRyqOJ2b-9njDrQM43HnaYAqggkzuKU15
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

Recommendation

Configure your web server to include an X-Frame-Options header and a CSP header with frame-ancestors directive. Consult Web references for more information about the possible values for this header.

References

[The X-Frame-Options response header](#)

<https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Frame-Options>

[Clickjacking](#)

<https://en.wikipedia.org/wiki/Clickjacking>

[OWASP Clickjacking](#)

https://cheatsheetseries.owasp.org/cheatsheets/Clickjacking_Defense_Cheat_Sheet.html

[Frame Buster Buster](#)

<https://stackoverflow.com/questions/958997/frame-buster-buster-code-needed>

Content Security Policy (CSP) not implemented

Content Security Policy (CSP) is an added layer of security that helps to detect and mitigate certain types of attacks, including Cross Site Scripting (XSS) and data injection attacks.

Content Security Policy (CSP) can be implemented by adding a **Content-Security-Policy** header. The value

of this header is a string containing the policy directives describing your Content Security Policy. To implement CSP, you should define lists of allowed origins for all of the types of resources that your site utilizes. For example, if you have a simple site that needs to load scripts, stylesheets, and images hosted locally, as well as from the jQuery library from their CDN, the CSP header could look like the following:

```
Content-Security-Policy:  
default-src 'self';  
script-src 'self' https://code.jquery.com;
```

It was detected that your web application doesn't implement Content Security Policy (CSP) as the CSP header is missing from the response. It's recommended to implement Content Security Policy (CSP) into your web application.

CWE

CWE-1021

CVSS2

AV:N/AC:L/Au:N/C:N/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	None
Integrity Impact	None
Availability Impact	None

CVSS3

CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:C/C:N/I:N/A:N

Base Score	0.0
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	Required
Scope	Changed
Confidentiality	None
Integrity Impact	None
Availability Impact	None

Impact

CSP can be used to prevent and/or mitigate attacks that involve content/code injection, such as cross-site scripting/XSS attacks, attacks that require embedding a malicious resource, attacks that involve malicious use of iframes, such as clickjacking attacks, and others.

<http://192.168.145.128/>

Paths without CSP header:

- <http://192.168.145.128/openemr/public/assets/>
- <http://192.168.145.128/openemr/library/>

- http://192.168.145.128/openemr/public/assets/hotkeys-js/
- http://192.168.145.128/openemr/interface/main/tabs/
- http://192.168.145.128/openemr/public/assets/knockout/
- http://192.168.145.128/openemr/interface/
- http://192.168.145.128/openemr/interface/main/main_screen.php
- http://192.168.145.128/openemr/public/assets/bootstrap/dist/js/
- http://192.168.145.128/openemr/public/assets/moment/min/
- http://192.168.145.128/openemr/interface/main/messages/messages.php
- http://192.168.145.128/openemr/public/assets/jquery/dist/
- http://192.168.145.128/openemr/library/ajax/dated_reminders_counter.php
- http://192.168.145.128/openemr/public/assets/select2/
- http://192.168.145.128/openemr/library/js/vendors/
- http://192.168.145.128/openemr/interface/main/calendar/
- http://192.168.145.128/openemr/public/assets/jquery/
- http://192.168.145.128/openemr/Documentation/
- http://192.168.145.128/openemr/Documentation/help_files/
- http://192.168.145.128/openemr/public/assets/i18next/
- http://192.168.145.128/openemr/library/ajax/i18n_generator.php
- http://192.168.145.128/openemr/library/ajax/

Request

```
GET /openemr/public/assets/ HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58addee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: aspectalerts;routes
Referer: http://192.168.145.128/openemr/public/assets/
```

Cookie: OpenEMR=ShqPYxekgSvnztaqfRyqOJ2b-9njDrQM43HnaYAqgkzuKU15
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive

Recommendation

It's recommended to implement Content Security Policy (CSP) into your web application. Configuring Content Security Policy involves adding the **Content-Security-Policy** HTTP header to a web page and giving it values to control resources the user agent is allowed to load for that page.

References

[Content Security Policy \(CSP\)](https://developer.mozilla.org/en-US/docs/Web/HTTP/CSP)

<https://developer.mozilla.org/en-US/docs/Web/HTTP/CSP>

[Implementing Content Security Policy](https://hacks.mozilla.org/2016/02/implementing-content-security-policy/)

<https://hacks.mozilla.org/2016/02/implementing-content-security-policy/>

Permissions-Policy header not implemented

The Permissions-Policy header allows developers to selectively enable and disable use of various browser features and APIs.

CWE

CWE-1021

CVSS2

AV:N/AC:L/Au:N/C:N/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	None
Integrity Impact	None
Availability Impact	None

CVSS3

CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:C/C:N/I:N/A:N

Base Score	0.0
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	Required
Scope	Changed
Confidentiality	None
Integrity Impact	None
Availability Impact	None

Impact

<http://192.168.145.128/>

Locations without Permissions-Policy header:

- http://192.168.145.128/openemr/public/assets/
- http://192.168.145.128/openemr/library/
- http://192.168.145.128/openemr/public/assets/hotkeys-js/
- http://192.168.145.128/openemr/interface/main/tabs/
- http://192.168.145.128/openemr/public/assets/knockout/
- http://192.168.145.128/openemr/interface/
- http://192.168.145.128/openemr/interface/main/main_screen.php
- http://192.168.145.128/openemr/public/assets/bootstrap/dist/js/
- http://192.168.145.128/openemr/public/assets/moment/min/
- http://192.168.145.128/openemr/interface/main/messages/messages.php
- http://192.168.145.128/openemr/public/assets/jquery/dist/
- http://192.168.145.128/openemr/library/ajax/dated_reminders_counter.php
- http://192.168.145.128/openemr/interface/main/dated_reminders/dated_reminders.php
- http://192.168.145.128/openemr/public/assets/select2/
- http://192.168.145.128/openemr/library/js/vendors/
- http://192.168.145.128/openemr/interface/login/login.php
- http://192.168.145.128/openemr/interface/main/calendar/
- http://192.168.145.128/openemr/public/assets/jquery/
- http://192.168.145.128/openemr/Documentation/
- http://192.168.145.128/openemr/Documentation/help_files/
- http://192.168.145.128/openemr/public/assets/i18next/

Request

```
GET /openemr/public/assets/ HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58addee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: aspectalerts;routes
Referer: http://192.168.145.128/openemr/public/assets/
Cookie: OpenEMR=ShqPYxekgSvnztaqfRyqOJ2b-9njDrQM43HnaYAqgkzuKU15
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

References

[Permissions-Policy / Feature-Policy \(MDN\)](#)

<https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Feature-Policy>

[Permissions Policy \(W3C\)](#)

<https://www.w3.org/TR/permissions-policy-1/>

A05 Security Misconfiguration

Security misconfiguration is commonly a result of insecure default configurations, incomplete or ad hoc configurations, open cloud storage, misconfigured HTTP headers, and verbose error messages containing sensitive information. Not only must all operating systems, frameworks, libraries, and applications be securely configured, but they must be patched and upgraded in a timely fashion.

PHP allow_url_fopen enabled

The PHP configuration directive allow_url_fopen is enabled. When enabled, this directive allows data retrieval from remote locations (web site or FTP server). A large number of code injection vulnerabilities reported in PHP-based web applications are caused by the combination of enabling allow_url_fopen and bad input filtering.

allow_url_fopen is enabled by default.

CWE

CWE-829

CVSS2

AV:N/AC:L/Au:N/C:N/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	None
Integrity Impact	None
Availability Impact	None

CVSS3

CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:C/C:N/I:N/A:N

Base Score	0.0
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	None
Scope	Changed
Confidentiality	None
Integrity Impact	None
Availability Impact	None

Impact

Application dependant - possible remote file inclusion.

<http://192.168.145.128/>



Verified

Current setting is : allow_url_fopen = **on**

Observed on /openemr/interface/main/main_screen.php

Recommendation

You can disable allow_url_fopen from either php.ini (for PHP versions newer than 4.3.4) or .htaccess (for PHP versions up to 4.3.4).

php.ini

```
allow_url_fopen = 'off'
```

.htaccess

```
php_flag allow_url_fopen off
```

References

Runtime Configuration

<https://www.php.net/manual/en/filesystem.configuration.php>

Directory listings

Directory listing is a web server function that displays the directory contents when there is no index file in a specific website directory. It is dangerous to leave this function turned on for the web server because it leads to information disclosure.

CWE

CWE-538

CVSS2

AV:N/AC:L/Au:N/C:P/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	Partial
Integrity Impact	None
Availability Impact	None

CVSS3

CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N

Base Score	5.3
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	None
Scope	Unchanged
Confidentiality	Low
Integrity Impact	None

Availability Impact	None
---------------------	------

Impact

A user can view a list of all files from the affected directories possibly exposing sensitive information.

<http://192.168.145.128/>

Verified

Folders with directory listing enabled:

- http://192.168.145.128/openemr/interface/
- http://192.168.145.128/openemr/interface/login/
- http://192.168.145.128/openemr/interface/main/messages/css/
- http://192.168.145.128/openemr/public/assets/
- http://192.168.145.128/openemr/public/assets/bootstrap/dist/js/
- http://192.168.145.128/openemr/interface/main/messages/js/
- http://192.168.145.128/openemr/public/assets/moment/
- http://192.168.145.128/openemr/library/ajax/
- http://192.168.145.128/openemr/interface/main/dated_reminders/
- http://192.168.145.128/openemr/public/assets/select2/dist/css/
- http://192.168.145.128/openemr/public/assets/moment/min/
- http://192.168.145.128/openemr/interface/product_registration/
- http://192.168.145.128/openemr/Documentation/
- http://192.168.145.128/openemr/public/assets/bootstrap/dist/
- http://192.168.145.128/openemr/interface/main/tabs/js/
- http://192.168.145.128/openemr/public/assets/i18next/dist/
- http://192.168.145.128/openemr/public/assets/i18next/dist/umd/
- http://192.168.145.128/openemr/public/
- http://192.168.145.128/openemr/public/assets/i18next/
- http://192.168.145.128/openemr/public/assets/knockout/
- http://192.168.145.128/openemr/public/assets/hotkeys-js/dist/

Request

```
GET /openemr/interface/ HTTP/1.1
Cookie: OpenEMR=ShqPYxekgSvnztaqfRyqOJ2b-9njDrQM43HnaYAqgkzuKU15
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

Recommendation

You should make sure no sensitive information is disclosed or you may want to restrict directory listings from the web server configuration.

Description

How to disable directory listings

The easiest way to disable directory listing is to create an index file. The name of the index file depends on the web server configuration. On Apache is called index.htm, index.html. On IIS is named default.asp, default.aspx, default.htm.

On IIS directory listings are disabled by default.

For Apache you need to edit the Apache configuration file (usually named httpd.conf) or create an .htaccess file. In the configuration file you will have the definition of the directory. Something like

```
<Directory /directoryname/subdirectory> Options Indexes FollowSymLinks ...  
</Directory>
```

To disable directory listing for that directory you need to remove the 'Indexes' option.

References

[CWE-548: Exposure of Information Through Directory Listing](#)

<https://cwe.mitre.org/data/definitions/548.html>

PHP open_basedir is not set

The open_basedir configuration directive will limit the files that can be opened by PHP to the specified directory-tree. When a script tries to open a file with, for example, fopen() or gzopen(), the location of the file is checked. When the file is outside the specified directory-tree, PHP will refuse to open it. open_basedir is a good protection against remote file inclusion vulnerabilities. For a remote attacker it is not possible to break out of the open_basedir restrictions if he is only able to inject the name of a file to be included. Therefore the number of files he will be able to include with such a local file include vulnerability is limited.

CWE

CWE-664

CVSS2

AV:N/AC:L/Au:N/C:N/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	None
Integrity Impact	None

CVSS3

CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:C/C:N/I:N/A:N

Base Score	0.0
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	None

Availability Impact	None
---------------------	------

Scope	Changed
Confidentiality	None
Integrity Impact	None
Availability Impact	None

Impact

Application dependant - possible remote code inclusion.

<http://192.168.145.128/>



Current setting is : open_basedir =

Observed on /openemr/interface/main/main_screen.php

Recommendation

You can set open_basedir from php.ini

php.ini

open_basedir = your_application_directory

Cookies without HttpOnly flag set

One or more cookies don't have the HttpOnly flag set. When a cookie is set with the HttpOnly flag, it instructs the browser that the cookie can only be accessed by the server and not by client-side scripts. This is an important security protection for session cookies.

CWE

CWE-1004

CVSS2

AV:N/AC:L/Au:N/C:N/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	None
Integrity Impact	None
Availability Impact	None

CVSS3

CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:U/C:N/I:N/A:N

Base Score	0.0
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	Required
Scope	Unchanged
Confidentiality	None
Integrity Impact	None

Availability Impact	None
---------------------	------

Impact

Cookies can be accessed by client-side scripts.

<http://192.168.145.128/>

Verified

Cookies without HttpOnly flag set:

- <http://192.168.145.128/openemr/interface/login/login.php>

```
Set-Cookie: OpenEMR=PrCCihxJI%2CqG1CX0p7oP16LOkuij2mG5Yq0pHL59ThbnUpzb;
path=/openemr/; SameSite=Strict
```

- http://192.168.145.128/openemr/library/ajax/dated_reminders_counter.php

```
Set-Cookie: OpenEMR=fLVw-dnCSU123MMDJ4XDEmokIFFZN%2CUpmA0oNxhYRlFnqazp;
path=/openemr/; SameSite=Strict
```

- <http://192.168.145.128/openemr/interface/main/calendar/index.php>

```
Set-Cookie: OpenEMR=ShqPYxekgSvnztaqfRyq0J2b-9njDrQM43HnaYAqgkzuKU15;
path=/openemr/; SameSite=Strict
```

- <http://192.168.145.128/openemr/interface/main/calendar/index.php>

```
Set-Cookie: OpenEMR=fLVw-dnCSU123MMDJ4XDEmokIFFZN%2CUpmA0oNxhYRlFnqazp;
path=/openemr/; SameSite=Strict
```

Set-Cookie: OpenEMR=fLVw-dnCSU123MMDJ4XDEmokIFFZN%2CUpmA0oNxhYRlFnqazp; path=/openemr/; SameSite=Strict

- http://192.168.145.128/openemr/interface/main/main_screen.php

Set-Cookie: OpenEMR=9Y8ac4csy6RvRyifO9Yg1001but4qLPoxBtXKUc8Kxsv0A5J; path=/openemr/; SameSite=Strict

- <http://192.168.145.128/openemr/interface/main/tabs/main.php>

Set-Cookie: OpenEMR=deleted; expires=Thu, 01-Jan-1970 00:00:01 GMT; Max-Age=0; path=/openemr/; SameSite=Strict

- <http://192.168.145.128/openemr/portal/messaging/messages.php>

Set-Cookie: OpenEMR=deleted; expires=Thu, 01-Jan-1970 00:00:01 GMT; Max-Age=0; path=/openemr/; SameSite=Strict

- http://192.168.145.128/openemr/portal/messaging/secure_chat.php

Set-Cookie: OpenEMR=deleted; expires=Thu, 01-Jan-1970 00:00:01 GMT; Max-Age=0; path=/openemr/; SameSite=Strict

- http://192.168.145.128/openemr/Documentation/help_files/add_edit_transactions_dashboard_help.php

Set-Cookie: OpenEMR=deleted; expires=Thu, 01-Jan-1970 00:00:01 GMT; Max-Age=0; path=/openemr/; SameSite=Strict

- http://192.168.145.128/openemr/library/ajax/execute_background_services.php

Set-Cookie: OpenEMR=W75Ms9wo0idBaU3cwZ3komU0jWJ6XL2Pyzz3muoDQyhZHx; path=/openemr/; SameSite=Strict

- http://192.168.145.128/openemr/Documentation/help_files/adminacl_help.php

Set-Cookie: OpenEMR=deleted; expires=Thu, 01-Jan-1970 00:00:01 GMT; Max-Age=0; path=/openemr/; SameSite=Strict

- http://192.168.145.128/openemr/Documentation/help_files/cms_1500_help.php

Set-Cookie: OpenEMR=deleted; expires=Thu, 01-Jan-1970 00:00:01 GMT; Max-Age=0; path=/openemr/; SameSite=Strict

- <http://192.168.145.128/openemr/library/FeeSheet.class.php>

Set-Cookie: OpenEMR=deleted; expires=Thu, 01-Jan-1970 00:00:01 GMT; Max-Age=0; path=/openemr/; SameSite=Strict

- http://192.168.145.128/openemr/Documentation/help_files/common_help.php

Set-Cookie: OpenEMR=deleted; expires=Thu, 01-Jan-1970 00:00:01 GMT; Max-Age=0; path=/openemr/; SameSite=Strict

- <http://192.168.145.128/openemr/library/FeeSheetHtml.class.php>

Set-Cookie: OpenEMR=deleted; expires=Thu, 01-Jan-1970 00:00:01 GMT; Max-Age=0; path=/openemr/; SameSite=Strict

- http://192.168.145.128/openemr/Documentation/help_files/configure_orders_help.php

Set-Cookie: OpenEMR=deleted; expires=Thu, 01-Jan-1970 00:00:01 GMT; Max-Age=0; path=/openemr/; SameSite=Strict

- http://192.168.145.128/openemr/Documentation/help_files/cqm_amc_help.php

Set-Cookie: OpenEMR=deleted; expires=Thu, 01-Jan-1970 00:00:01 GMT; Max-Age=0; path=/openemr/; SameSite=Strict

- http://192.168.145.128/openemr/Documentation/help_files/fee_sheet_help.php

```
Set-Cookie: OpenEMR=deleted; expires=Thu, 01-Jan-1970 00:00:01 GMT; Max-Age=0;  
path=/openemr/; SameSite=Strict
```

- http://192.168.145.128/openemr/Documentation/help_files/procedure_provider_help.php

```
Set-Cookie: OpenEMR=deleted; expires=Thu, 01-Jan-1970 00:00:01 GMT; Max-Age=0;  
path=/openemr/; SameSite=Strict
```

- http://192.168.145.128/openemr/library/dicom_frame.php

```
Set-Cookie: OpenEMR=deleted; expires=Thu, 01-Jan-1970 00:00:01 GMT; Max-Age=0;  
path=/openemr/; SameSite=Strict
```

- http://192.168.145.128/openemr/Documentation/help_files/report_dashboard_help.php

```
Set-Cookie: OpenEMR=g3GhfkD5xIsb3Ge5m8KYxfe43LFtvIbo%2CVxmCKL9iQGY052L;  
path=/openemr/; SameSite=Strict
```

Request

```
GET /openemr/interface/login/login.php?site=default HTTP/1.1  
Host: 192.168.145.128  
Pragma: no-cache  
Cache-Control: no-cache  
accept:  
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,app  
lication/signed-exchange;v=b3;q=0.9  
accept-language: en-US  
upgrade-insecure-requests: 1  
Accept-Encoding: gzip, deflate, br  
Connection: keep-alive  
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)  
Chrome/109.0.0.0 Safari/537.36
```

Recommendation

If possible, you should set the HttpOnly flag for these cookies.

Content Security Policy (CSP) not implemented

Content Security Policy (CSP) is an added layer of security that helps to detect and mitigate certain types of attacks, including Cross Site Scripting (XSS) and data injection attacks.

Content Security Policy (CSP) can be implemented by adding a **Content-Security-Policy** header. The value of this header is a string containing the policy directives describing your Content Security Policy. To implement CSP, you should define lists of allowed origins for all of the types of resources that your site utilizes. For example, if you have a simple site that needs to load scripts, stylesheets, and images hosted locally, as well as from the jQuery library from their CDN, the CSP header could look like the following:

```
Content-Security-Policy:  
default-src 'self';  
script-src 'self' https://code.jquery.com;
```

It was detected that your web application doesn't implement Content Security Policy (CSP) as the CSP header is missing from the response. It's recommended to implement Content Security Policy (CSP) into your web application.

CWE

CWE-1021

CVSS2

AV:N/AC:L/Au:N/C:N/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	None
Integrity Impact	None
Availability Impact	None

CVSS3

CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:C/C:N/I:N/A:N

Base Score	0.0
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	Required
Scope	Changed
Confidentiality	None
Integrity Impact	None
Availability Impact	None

Impact

CSP can be used to prevent and/or mitigate attacks that involve content/code injection, such as cross-site scripting/XSS attacks, attacks that require embedding a malicious resource, attacks that involve malicious use of iframes, such as clickjacking attacks, and others.

<http://192.168.145.128/>

Paths without CSP header:

- <http://192.168.145.128/openemr/public/assets/>
- <http://192.168.145.128/openemr/library/>
- <http://192.168.145.128/openemr/public/assets/hotkeys-js/>
- <http://192.168.145.128/openemr/interface/main/tabs/>
- <http://192.168.145.128/openemr/public/assets/knockout/>
- <http://192.168.145.128/openemr/interface/>
- http://192.168.145.128/openemr/interface/main/main_screen.php
- <http://192.168.145.128/openemr/public/assets/bootstrap/dist/js/>
- <http://192.168.145.128/openemr/public/assets/moment/min/>
- <http://192.168.145.128/openemr/interface/main/messages/messages.php>
- <http://192.168.145.128/openemr/public/assets/jquery/dist/>
- http://192.168.145.128/openemr/library/ajax/dated_reminders_counter.php
- <http://192.168.145.128/openemr/public/assets/select2/>
- <http://192.168.145.128/openemr/library/js/vendors/>
- <http://192.168.145.128/openemr/interface/main/calendar/>
- <http://192.168.145.128/openemr/public/assets/jquery/>
- <http://192.168.145.128/openemr/Documentation/>
- http://192.168.145.128/openemr/Documentation/help_files/
- <http://192.168.145.128/openemr/public/assets/i18next/>
- http://192.168.145.128/openemr/library/ajax/i18n_generator.php
- <http://192.168.145.128/openemr/library/ajax/>

Request

```
GET /openemr/public/assets/ HTTP/1.1
Acunetix-Aspect: enabled
```

Acunetix-Aspect-Password: d4d608fef00a58addee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: aspectalerts;routes
Referer: http://192.168.145.128/openemr/public/assets/
Cookie: OpenEMR=ShqPYxekgSvnztaqfRyqOJ2b-9njDrQM43HnaYAqgkzuKU15
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive

Recommendation

It's recommended to implement Content Security Policy (CSP) into your web application. Configuring Content Security Policy involves adding the **Content-Security-Policy** HTTP header to a web page and giving it values to control resources the user agent is allowed to load for that page.

References

[Content Security Policy \(CSP\)](#)

<https://developer.mozilla.org/en-US/docs/Web/HTTP/CSP>

[Implementing Content Security Policy](#)

<https://hacks.mozilla.org/2016/02/implementing-content-security-policy/>

Content Security Policy Misconfiguration

Acunetix evaluated the scan target's Content Security Policies, checked for misconfigurations and potentially unintended side-effects of otherwise valid configurations, and offers the following suggestions on how to change existing policies for improved security and maximum compatibility.

CWE

CWE-16

Impact

Consult References for more information.

<http://192.168.145.128/>

Verified

- Missing object-src in CSP Declaration

- First observed on: <http://192.168.145.128/openemr/interface/login/login.php>
- CSP Value: frame-ancestors 'none'
- CSP Source: header

- **Summary:** Acunetix detected that object-src is missed in CSP declaration. It allows the injection of plugins which can execute JavaScript.
- **Impact:** N/A
- **Remediation:** Set object-src to 'none' in CSP declaration: Content-Security-Policy: object-src 'none';
- **References:**
 - N/A

Request

```
GET /openemr/interface/login/login.php?site=default HTTP/1.1
Host: 192.168.145.128
Pragma: no-cache
Cache-Control: no-cache
accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9
accept-language: en-US
upgrade-insecure-requests: 1
Accept-Encoding: gzip,deflate,br
Connection: keep-alive
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
```

Recommendation

See alert details for available remediation advice.

References

[Using Content Security Policy \(CSP\) to Secure Web Applications](#)

<https://www.invicti.com/blog/web-security/content-security-policy/>

[The dangers of incorrect CSP implementations](#)

<https://www.invicti.com/blog/web-security/negative-impact-incorrect-csp-implementations/>

[Leverage Browser Security Features to Secure Your Website](#)

<https://www.invicti.com/blog/web-security/leverage-browser-security-features-secure-website/>

Content type is not specified

These page(s) does not set a Content-Type header value. This value informs the browser what kind of data to expect. If this header is missing, the browser may incorrectly handle the data. This could lead to security problems.

CWE

CWE-16

CVSS2

AV:N/AC:L/Au:N/C:N/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	None
Integrity Impact	None
Availability Impact	None

CVSS3

CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:U/C:N/I:N/A:N

Base Score	0.0
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	Required
Scope	Unchanged
Confidentiality	None
Integrity Impact	None
Availability Impact	None

Impact

None

<http://192.168.145.128/>

Verified

Pages where the content-type header is not specified:

- http://192.168.145.128/openemr/composer.lock
- http://192.168.145.128/openemr/LICENSE
- http://192.168.145.128/openemr/Documentation/INSTALL
- http://192.168.145.128/openemr/Documentation/README.phpacl
- http://192.168.145.128/openemr/library/api.inc
- http://192.168.145.128/openemr/library/auth.inc
- http://192.168.145.128/openemr/library/calendar.inc
- http://192.168.145.128/openemr/library/direct_message_check.inc
- http://192.168.145.128/openemr/library/encounter.inc
- http://192.168.145.128/openemr/interface/themes/colors/utilities/batch-payments.scss
- http://192.168.145.128/openemr/library/forms.inc
- http://192.168.145.128/openemr/library/group.inc
- http://192.168.145.128/openemr/library/lab.inc
- http://192.168.145.128/openemr/library/lists.inc
- http://192.168.145.128/openemr/library/options_listadd.inc
- http://192.168.145.128/openemr/library/patient.inc
- http://192.168.145.128/openemr/library/pid.inc
- http://192.168.145.128/openemr/library/pnotes.inc
- http://192.168.145.128/openemr/interface/themes/core/patient/demographics.scss
- http://192.168.145.128/openemr/library/registry.inc
- http://192.168.145.128/openemr/library/report.inc

Request

```
GET /openemr/composer.lock HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58addee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: aspectalerts;routes
Referer: http://192.168.145.128/openemr/
Cookie: OpenEMR=F-6X1PVs1YyH8tuel82CU%2CjzXjI%2C2Xj1wHpg%2CMTJEHOAPWa5
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

Recommendation

Set a Content-Type header value for these page(s).

Error page web server version disclosure

Application errors or warning messages may disclose sensitive information about an application's internal workings to an attacker.

Acunetix found the web server version number and a list of modules enabled on the target server. Consult the 'Attack details' section for more information about the affected page.

CWE

CWE-200

CVSS2

AV:N/AC:L/Au:N/C:P/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	Partial
Integrity Impact	None
Availability Impact	None

CVSS3

CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N

Base Score	5.3
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	None
Scope	Unchanged
Confidentiality	Low
Integrity Impact	None
Availability Impact	None

Impact

Error messages information about an application's internal workings may be used to escalate attacks.

<http://192.168.145.128/>

Request

```
GET /OSEbyESLkq HTTP/1.1
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

Recommendation

Properly configure the web server not to disclose information about an application's internal workings to the user. Consult the 'Web references' section for more information.

References

[Custom Error Responses \(Apache HTTP Server\)](#)

<https://httpd.apache.org/docs/current/custom-error.html>

[server_tokens \(Nginx\)](#)

http://nginx.org/en/docs/http/ngx_http_core_module.html#server_tokens

[Remove Unwanted HTTP Response Headers \(Microsoft IIS\)](#)

<https://blogs.msdn.microsoft.com/varunm/2013/04/23/remove-unwanted-http-response-headers/>

Permissions-Policy header not implemented

The Permissions-Policy header allows developers to selectively enable and disable use of various browser features and APIs.

CWE

CWE-1021

CVSS2

AV:N/AC:L/Au:N/C:N/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None

CVSS3

CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:C/C:N/I:N/A:N

Base Score	0.0
Attack Vector	Network
Attack Complexity	Low

Confidentiality	None
Integrity Impact	None
Availability Impact	None

Privileges Required	None
User Interaction	Required
Scope	Changed
Confidentiality	None
Integrity Impact	None
Availability Impact	None

Impact

<http://192.168.145.128/>

Locations without Permissions-Policy header:

- http://192.168.145.128/openemr/public/assets/
- http://192.168.145.128/openemr/library/
- http://192.168.145.128/openemr/public/assets/hotkeys-js/
- http://192.168.145.128/openemr/interface/main/tabs/
- http://192.168.145.128/openemr/public/assets/knockout/
- http://192.168.145.128/openemr/interface/
- http://192.168.145.128/openemr/interface/main/main_screen.php
- http://192.168.145.128/openemr/public/assets/bootstrap/dist/js/
- http://192.168.145.128/openemr/public/assets/moment/min/
- http://192.168.145.128/openemr/interface/main/messages/messages.php
- http://192.168.145.128/openemr/public/assets/jquery/dist/
- http://192.168.145.128/openemr/library/ajax/dated_reminders_counter.php
- http://192.168.145.128/openemr/interface/main/dated_reminders/dated_reminders.php
- http://192.168.145.128/openemr/public/assets/select2/
- http://192.168.145.128/openemr/library/js/vendors/
- http://192.168.145.128/openemr/interface/login/login.php
- http://192.168.145.128/openemr/interface/main/calendar/
- http://192.168.145.128/openemr/public/assets/jquery/
- http://192.168.145.128/openemr/Documentation/
- http://192.168.145.128/openemr/Documentation/help_files/
- http://192.168.145.128/openemr/public/assets/i18next/

Request

```
GET /openemr/public/assets/ HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58addee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: aspectalerts;routes
Referer: http://192.168.145.128/openemr/public/assets/
Cookie: OpenEMR=ShqPYxekgSvnztaqfRyqOJ2b-9njDrQM43HnaYAqgkzuKU15
```

```
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

References

[Permissions-Policy / Feature-Policy \(MDN\)](#)

<https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Feature-Policy>

[Permissions Policy \(W3C\)](#)

<https://www.w3.org/TR/permissions-policy-1/>

Subresource Integrity (SRI) not implemented

Subresource Integrity (SRI) is a security feature that enables browsers to verify that third-party resources they fetch (for example, from a CDN) are delivered without unexpected manipulation. It works by allowing developers to provide a cryptographic hash that a fetched file must match.

Third-party resources (such as scripts and stylesheets) can be manipulated. An attacker that has access or has hacked the hosting CDN can manipulate or replace the files. SRI allows developers to specify a base64-encoded cryptographic hash of the resource to be loaded. The integrity attribute containing the hash is then added to the <script> HTML element tag. The integrity string consists of a base64-encoded hash, followed by a prefix that depends on the hash algorithm. This prefix can either be sha256, sha384 or sha512.

The script loaded from the external URL specified in the Details section doesn't implement Subresource Integrity (SRI). It's recommended to implement Subresource Integrity (SRI) for all the scripts loaded from external hosts.

CWE

CWE-830

CVSS2

AV:N/AC:L/Au:N/C:N/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	None
Integrity Impact	None
Availability Impact	None

CVSS3

CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:C/C:N/I:N/A:N

Base Score	0.0
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	None
Scope	Changed

Confidentiality	None
Integrity Impact	None
Availability Impact	None

Impact

An attacker that has access or has hacked the hosting CDN can manipulate or replace the files.

<http://192.168.145.128/openemr/public/assets/checklist-model/>

Pages where SRI is not implemented:

- <http://192.168.145.128/openemr/public/assets/checklist-model/>
Script SRC: <https://cdnjs.cloudflare.com/ajax/libs/angular.js/1.4.8/angular.js>
- <http://192.168.145.128/openemr/public/assets/checklist-model/>
Script SRC: https://cdn.rawgit.com/google/code-prettify/master/loader/run_prettify.js

Request

```
GET /openemr/public/assets/checklist-model/ HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58adee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: aspectalerts;routes
Referer: http://192.168.145.128/openemr/public/assets/
Cookie: OpenEMR=g3GhfkD5xIsb3Ge5m8KYxfe43LFtvIbo%2CVxmCKL9iQGY052L
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

Recommendation

Use the SRI Hash Generator link (from the References section) to generate a <script> element that implements Subresource Integrity (SRI).

For example, you can use the following <script> element to tell a browser that before executing the <https://example.com/example-framework.js> script, the browser must first compare the script to the expected hash, and verify that there's a match.

```
<script src="https://example.com/example-framework.js">
```

integrity="sha384-oqVuAfXRKap7fdgcCY5uykM6+R9GqQ8K/uxy9rx7HNQlGYl1kPzQholwx4JwY8wC"
crossorigin="anonymous">></script>

References

Subresource Integrity

https://developer.mozilla.org/en-US/docs/Web/Security/Subresource_Integrity

SRI Hash Generator

<https://www.srihash.org/>

No HTTP Redirection

It was detected that your web application uses HTTP protocol, but doesn't automatically redirect users to HTTPS.

CWE

CWE-16

CVSS2

AV:N/AC:L/Au:N/C:N/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	None
Integrity Impact	None
Availability Impact	None

CVSS3

CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:C/C:N/I:N/A:N

Base Score	0.0
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	Required
Scope	Changed
Confidentiality	None
Integrity Impact	None
Availability Impact	None

Impact

In some circumstances, it could be used for a man-in-the-middle (MitM) attack

<http://192.168.145.128/>

Request

```
GET / HTTP/1.1
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
```

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive

Recommendation

It's recommended to implement best practices of HTTP Redirection into your web application. Consult web references for more information

References

[HTTP Redirections](#)

https://infosec.mozilla.org/guidelines/web_security#http-redirections

Application error messages

This alert requires manual confirmation

Acunetix found one or more error/warning messages. Application error or warning messages may expose sensitive information about an application's internal workings to an attacker.

These messages may also contain the location of the file that produced an unhandled exception.
Consult the 'Attack details' section for more information about the affected page(s).

CWE

CWE-209

CVSS2

AV:N/AC:L/Au:N/C:P/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	Partial
Integrity Impact	None
Availability Impact	None

CVSS3

CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N

Base Score	5.3
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	None
Scope	Unchanged
Confidentiality	Low
Integrity Impact	None
Availability Impact	None

Impact

Error messages may disclose sensitive information which can be used to escalate attacks.

<http://192.168.145.128/>

Application error messages:

- http://192.168.145.128/openemr/interface/main/main_screen.php
< b > Warning < /b >: include_once(/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php): failed to open stream: No such file or directory in < b >/var/www/html/openemr/interface/main/main_screen.php< /b > on line < b >5137< /b >< br />
- http://192.168.145.128/openemr/interface/main/main_screen.php
< b > Warning < /b >: include_once(): Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion (include_path='/var/www/html/openemr/vendor/pear/archive_tar:/var/www/html/openemr/vendor/pear/console getopt:/var/www/html/openemr/vendor/pear/pear-core-minimal/src:/var/www/html/openemr/vendor/pear/pear_exception:::/usr/share/php') in < b >/var/www/html/openemr/interface/main/main_screen.php< /b > on line < b >5137< /b >< br />
- http://192.168.145.128/openemr/interface/main/main_screen.php
Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion
- http://192.168.145.128/openemr/interface/main/messages/messages.php
< b > Warning < /b >: include_once(/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php): failed to open stream: No such file or directory in < b >/var/www/html/openemr/interface/main/messages/messages.php< /b > on line < b >5137< /b >< br />
- http://192.168.145.128/openemr/interface/main/messages/messages.php
< b > Warning < /b >: include_once(): Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion (include_path='/var/www/html/openemr/vendor/pear/archive_tar:/var/www/html/openemr/vendor/pear/console getopt:/var/www/html/openemr/vendor/pear/pear-core-minimal/src:/var/www/html/openemr/vendor/pear/pear_exception:::/usr/share/php') in < b >/var/www/html/openemr/interface/main/messages/messages.php< /b > on line < b >5137< /b >< br />
- http://192.168.145.128/openemr/interface/main/messages/messages.php
Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion
- http://192.168.145.128/openemr/library/ajax/dated_reminders_counter.php
< b > Warning < /b >: include_once(/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php): failed to open stream: No such file or directory in < b >/var/www/html/openemr/library/ajax/dated_reminders_counter.php< /b > on line < b >5137< /b >< br />
- http://192.168.145.128/openemr/library/ajax/dated_reminders_counter.php
< b > Warning < /b >: include_once(): Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion

```
(include_path='/var/www/html/openemr/vendor/pear/archive_tar:/var/www/html/openemr/vendor/pear/console_getopt:/var/www/html/openemr/vendor/pear/pear-core-minimal/src:/var/www/html/openemr/vendor/pear/pear_exception:::/usr/share/php') in  
<b>/var/www/html/openemr/library/ajax/dated_reminders_counter.php</b> on line <b>5137</b><br />
```

- http://192.168.145.128/openemr/library/ajax/dated_reminders_counter.php
Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion
- http://192.168.145.128/openemr/interface/login/login.php
Warning: include_once(/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php): failed to open stream: No such file or directory in
**/var/www/html/openemr/interface/login/login.php on line 5137
**
- http://192.168.145.128/openemr/interface/login/login.php
Warning: include_once(): Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion
(include_path='/var/www/html/openemr/vendor/pear/archive_tar:/var/www/html/openemr/vendor/pear/console_getopt:/var/www/html/openemr/vendor/pear/pear-core-minimal/src:/var/www/html/openemr/vendor/pear/pear_exception:::/usr/share/php') in
**/var/www/html/openemr/interface/login/login.php on line 5137
**
- http://192.168.145.128/openemr/interface/login/login.php
Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion
- http://192.168.145.128/openemr/library/ajax/i18n_generator.php
Warning: include_once(/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php): failed to open stream: No such file or directory in
**/var/www/html/openemr/library/ajax/i18n_generator.php on line 5137
**
- http://192.168.145.128/openemr/library/ajax/i18n_generator.php
Warning: include_once(): Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion
(include_path='/var/www/html/openemr/vendor/pear/archive_tar:/var/www/html/openemr/vendor/pear/console_getopt:/var/www/html/openemr/vendor/pear/pear-core-minimal/src:/var/www/html/openemr/vendor/pear/pear_exception:::/usr/share/php') in
**/var/www/html/openemr/library/ajax/i18n_generator.php on line 5137
**
- http://192.168.145.128/openemr/library/ajax/i18n_generator.php
Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion
- http://192.168.145.128/openemr/interface/login_screen.php
Warning: include_once(/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-

mysqli_log.inc.php): failed to open stream: No such file or directory in
/var/www/html/openemr/interface/login_screen.php on line 5137

- http://192.168.145.128/openemr/interface/login_screen.php
Warning: include_once(): Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion
(include_path='/var/www/html/openemr/vendor/pear/archive_tar:/var/www/html/openemr/vendor/pear/console getopt:/var/www/html/openemr/vendor/pear/pear-core-minimal/src:/var/www/html/openemr/vendor/pear/pear_exception:::/usr/share/php') in
/var/www/html/openemr/interface/login_screen.php on line 5137

- http://192.168.145.128/openemr/interface/login_screen.php
Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion
- http://192.168.145.128/openemr/interface/main/dated_reminders/dated_reminders.php
Warning: include_once(/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php): failed to open stream: No such file or directory in
/var/www/html/openemr/interface/main/dated_reminders/dated_reminders.php on line 5137

- http://192.168.145.128/openemr/interface/main/dated_reminders/dated_reminders.php
Warning: include_once(): Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion
(include_path='/var/www/html/openemr/vendor/pear/archive_tar:/var/www/html/openemr/vendor/pear/console getopt:/var/www/html/openemr/vendor/pear/pear-core-minimal/src:/var/www/html/openemr/vendor/pear/pear_exception:::/usr/share/php') in
/var/www/html/openemr/interface/main/dated_reminders/dated_reminders.php on line 5137

- http://192.168.145.128/openemr/interface/main/dated_reminders/dated_reminders.php
Failed opening '/var/www/html/openemr/vendor/adodb/adodb-php/drivers/adodb-mysqli_log.inc.php' for inclusion

Request

```
GET /openemr/interface/main/main_screen.php HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58adee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: filelist;packages;aspectalerts;routes
Referer: http://192.168.145.128/openemr
Cookie: OpenEMR=fLVw-dnCSU123MMDJ4XDEmokIFFZN%2CUpmA0oNxhYRlFnqazp
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
```

Host: 192.168.145.128
Connection: Keep-alive

Recommendation

Verify that these page(s) are disclosing error or warning messages and properly configure the application to log errors to a file instead of displaying the error to the user.

Description

While information disclosure vulnerabilities are not directly exploitable by an attacker, they may help an attacker to learn about system specific information. The following is a list of **some** of the information an attacker may be able to obtain from application error disclosure.

Internal IP addresses

Secrets (passwords, keys, tokens...)

Operating system distributions

Software version numbers

Missing security patches

Application stack traces

SQL statements

Location of sensitive files (backups, temporary files...)

Location of sensitive resources (databases, caches, code repositories...)

References

[PHP Runtime Configuration](#)

<https://www.php.net/manual/en/errorfunc.configuration.php#ini.display-errors>

[Improper Error Handling](#)

https://www.owasp.org/index.php/Improper_Error_Handling

A06 Vulnerable and Outdated Components

Components, such as libraries, frameworks, and other software modules, almost always run with full privileges. If a vulnerable component is exploited, such an attack can facilitate serious data loss or server takeover. Applications using components with known vulnerabilities may undermine application defenses and enable a range of possible attacks and impacts.

PHP allow_url_fopen enabled

The PHP configuration directive `allow_url_fopen` is enabled. When enabled, this directive allows data retrieval from remote locations (web site or FTP server). A large number of code injection vulnerabilities reported in PHP-based web applications are caused by the combination of enabling `allow_url_fopen` and

bad input filtering.

allow_url_fopen is enabled by default.

CWE

CWE-829

CVSS2

AV:N/AC:L/Au:N/C:N/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	None
Integrity Impact	None
Availability Impact	None

CVSS3

CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:C/C:N/I:N/A:N

Base Score	0.0
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	None
Scope	Changed
Confidentiality	None
Integrity Impact	None
Availability Impact	None

Impact

Application dependant - possible remote file inclusion.

<http://192.168.145.128/>



- Verified

Current setting is : allow_url_fopen = **on**

Observed on /openemr/interface/main/main_screen.php

Recommendation

You can disable allow_url_fopen from either php.ini (for PHP versions newer than 4.3.4) or .htaccess (for PHP versions up to 4.3.4).

php.ini

allow_url_fopen = 'off'

.htaccess

php_flag allow_url_fopen off

References

[Runtime Configuration](#)

Directory listings

Directory listing is a web server function that displays the directory contents when there is no index file in a specific website directory. It is dangerous to leave this function turned on for the web server because it leads to information disclosure.

CWE

CWE-538

CVSS2

AV:N/AC:L/Au:N/C:P/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	Partial
Integrity Impact	None
Availability Impact	None

CVSS3

CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N

Base Score	5.3
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	None
Scope	Unchanged
Confidentiality	Low
Integrity Impact	None
Availability Impact	None

Impact

A user can view a list of all files from the affected directories possibly exposing sensitive information.

<http://192.168.145.128/>

Verified

Folders with directory listing enabled:

- http://192.168.145.128/openemr/interface/
- http://192.168.145.128/openemr/interface/login/
- http://192.168.145.128/openemr/interface/main/messages/css/
- http://192.168.145.128/openemr/public/assets/
- http://192.168.145.128/openemr/public/assets/bootstrap/dist/js/
- http://192.168.145.128/openemr/interface/main/messages/js/
- http://192.168.145.128/openemr/public/assets/moment/
- http://192.168.145.128/openemr/library/ajax/
- http://192.168.145.128/openemr/interface/main/dated_reminders/
- http://192.168.145.128/openemr/public/assets/select2/dist/css/
- http://192.168.145.128/openemr/public/assets/moment/min/

- http://192.168.145.128/openemr/interface/product_registration/
- <http://192.168.145.128/openemr/Documentation/>
- <http://192.168.145.128/openemr/public/assets/bootstrap/dist/>
- <http://192.168.145.128/openemr/interface/main/tabs/js/>
- <http://192.168.145.128/openemr/public/assets/i18next/dist/>
- <http://192.168.145.128/openemr/public/assets/i18next/dist/umd/>
- <http://192.168.145.128/openemr/public/>
- <http://192.168.145.128/openemr/public/assets/i18next/>
- <http://192.168.145.128/openemr/public/assets/knockout/>
- <http://192.168.145.128/openemr/public/assets/hotkeys-js/dist/>

Request

```
GET /openemr/interface/ HTTP/1.1
Cookie: OpenEMR=ShqPYxekgSvnztaqfRyqOJ2b-9njDrQM43HnaYAqgkzuKU15
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

Recommendation

You should make sure no sensitive information is disclosed or you may want to restrict directory listings from the web server configuration.

Description

How to disable directory listings

The easiest way to disable directory listing is to create an index file. The name of the index file depends on the web server configuration. On Apache is called index.htm, index.html. On IIS is named default.asp, default.aspx, default.htm.

On IIS directory listings are disabled by default.

For Apache you need to edit the Apache configuration file (usually named httpd.conf) or create an .htaccess file. In the configuration file you will have the definition of the directory. Something like

```
<Directory /directoryname/subdirectory> Options Indexes FollowSymLinks ...
</Directory>
```

To disable directory listing for that directory you need to remove the 'Indexes' option.

References

[CWE-548: Exposure of Information Through Directory Listing](#)

<https://cwe.mitre.org/data/definitions/548.html>

PHP open_basedir is not set

The open_basedir configuration directive will limit the files that can be opened by PHP to the specified directory-tree. When a script tries to open a file with, for example, fopen() or gzopen(), the location of the file is checked. When the file is outside the specified directory-tree, PHP will refuse to open it.

open_basedir is a good protection against remote file inclusion vulnerabilities. For a remote attacker it is not possible to break out of the open_basedir restrictions if he is only able to inject the name of a file to be included. Therefore the number of files he will be able to include with such a local file include vulnerability is limited.

CWE

CWE-664

CVSS2

AV:N/AC:L/Au:N/C:N/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	None
Integrity Impact	None
Availability Impact	None

CVSS3

CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:C/C:N/I:N/A:N

Base Score	0.0
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	None
Scope	Changed
Confidentiality	None
Integrity Impact	None
Availability Impact	None

Impact

Application dependant - possible remote code inclusion.

<http://192.168.145.128/>



Verified

Current setting is : `open_basedir=`

Observed on /openemr/interface/main/main_screen.php

Recommendation

You can set open_basedir from php.ini

php.ini

`open_basedir=your_application_directory`

Cookies without HttpOnly flag set

One or more cookies don't have the HttpOnly flag set. When a cookie is set with the HttpOnly flag, it instructs the browser that the cookie can only be accessed by the server and not by client-side scripts. This is an important security protection for session cookies.

CWE

CWE-1004

CVSS2

AV:N/AC:L/Au:N/C:N/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	None
Integrity Impact	None
Availability Impact	None

CVSS3

CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:U/C:N/I:N/A:N

Base Score	0.0
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	Required
Scope	Unchanged
Confidentiality	None
Integrity Impact	None
Availability Impact	None

Impact

Cookies can be accessed by client-side scripts.

<http://192.168.145.128/>

Verified

Cookies without HttpOnly flag set:

- <http://192.168.145.128/openemr/interface/login/login.php>

```
Set-Cookie: OpenEMR=PrCCIhxJI%2CqG1CX0p7oP16LoKuij2mG5Yq0pHL59ThbnUpzb; path=/openemr/; SameSite=Strict
```

- http://192.168.145.128/openemr/library/ajax/dated_reminders_counter.php

```
Set-Cookie: OpenEMR=fLVw-dnCSU123MMDJ4XDEmokIFFZN%2CUpmA0oNxhYR1Fnqazp; path=/openemr/; SameSite=Strict
```

- <http://192.168.145.128/openemr/interface/main/calendar/index.php>

```
Set-Cookie: OpenEMR=ShqPYxekgSvnztaqfRyqOJ2b-9njDrQM43HnaYAqgkzuKU15;
path=/openemr/; SameSite=Strict
```

- <http://192.168.145.128/openemr/interface/main/calendar/index.php>

```
Set-Cookie: OpenEMR=fLVw-dnCSU123MMDJ4XDEmokIFFZN%2CUpA0oNxhYRlFnqazp;
path=/openemr/; SameSite=Strict
```

- http://192.168.145.128/openemr/interface/main/main_screen.php

```
Set-Cookie: OpenEMR=9Y8ac4csy6RvRyifO9Yg1001but4qLPoxBtXKUc8Kxsv0A5J;
path=/openemr/; SameSite=Strict
```

- <http://192.168.145.128/openemr/interface/main/tabs/main.php>

```
Set-Cookie: OpenEMR=deleted; expires=Thu, 01-Jan-1970 00:00:01 GMT; Max-Age=0;
path=/openemr/; SameSite=Strict
```

- <http://192.168.145.128/openemr/portal/messaging/messages.php>

```
Set-Cookie: OpenEMR=deleted; expires=Thu, 01-Jan-1970 00:00:01 GMT; Max-Age=0;
path=/openemr/; SameSite=Strict
```

- http://192.168.145.128/openemr/portal/messaging/secure_chat.php

```
Set-Cookie: OpenEMR=deleted; expires=Thu, 01-Jan-1970 00:00:01 GMT; Max-Age=0;
path=/openemr/; SameSite=Strict
```

- http://192.168.145.128/openemr/Documentation/help_files/add_edit_transactions_dashboard_help.php

```
Set-Cookie: OpenEMR=deleted; expires=Thu, 01-Jan-1970 00:00:01 GMT; Max-Age=0;
path=/openemr/; SameSite=Strict
```

- http://192.168.145.128/openemr/library/ajax/execute_background_services.php

```
Set-Cookie: OpenEMR=W75Ms9wo0idBaU3cwZ3komU0jWJ6XL2Pyzz3muoDQyhZHx;
path=/openemr/; SameSite=Strict
```

- http://192.168.145.128/openemr/Documentation/help_files/adminacl_help.php

```
Set-Cookie: OpenEMR=deleted; expires=Thu, 01-Jan-1970 00:00:01 GMT; Max-Age=0;
path=/openemr/; SameSite=Strict
```

- http://192.168.145.128/openemr/Documentation/help_files/cms_1500_help.php

```
Set-Cookie: OpenEMR=deleted; expires=Thu, 01-Jan-1970 00:00:01 GMT; Max-Age=0;
path=/openemr/; SameSite=Strict
```

- <http://192.168.145.128/openemr/library/FeeSheet.class.php>

```
Set-Cookie: OpenEMR=deleted; expires=Thu, 01-Jan-1970 00:00:01 GMT; Max-Age=0;
path=/openemr/; SameSite=Strict
```

- http://192.168.145.128/openemr/Documentation/help_files/common_help.php

```
Set-Cookie: OpenEMR=deleted; expires=Thu, 01-Jan-1970 00:00:01 GMT; Max-Age=0;
path=/openemr/; SameSite=Strict
```

- <http://192.168.145.128/openemr/library/FeeSheetHtml.class.php>

Set-Cookie: OpenEMR=deleted; expires=Thu, 01-Jan-1970 00:00:01 GMT; Max-Age=0; path=/openemr/; SameSite=Strict

- http://192.168.145.128/openemr/Documentation/help_files/configure_orders_help.php

Set-Cookie: OpenEMR=deleted; expires=Thu, 01-Jan-1970 00:00:01 GMT; Max-Age=0; path=/openemr/; SameSite=Strict

- http://192.168.145.128/openemr/Documentation/help_files/cqm_amc_help.php

Set-Cookie: OpenEMR=deleted; expires=Thu, 01-Jan-1970 00:00:01 GMT; Max-Age=0; path=/openemr/; SameSite=Strict

- http://192.168.145.128/openemr/Documentation/help_files/fee_sheet_help.php

Set-Cookie: OpenEMR=deleted; expires=Thu, 01-Jan-1970 00:00:01 GMT; Max-Age=0; path=/openemr/; SameSite=Strict

- http://192.168.145.128/openemr/Documentation/help_files/procedure_provider_help.php

Set-Cookie: OpenEMR=deleted; expires=Thu, 01-Jan-1970 00:00:01 GMT; Max-Age=0; path=/openemr/; SameSite=Strict

- http://192.168.145.128/openemr/library/dicom_frame.php

Set-Cookie: OpenEMR=deleted; expires=Thu, 01-Jan-1970 00:00:01 GMT; Max-Age=0; path=/openemr/; SameSite=Strict

- http://192.168.145.128/openemr/Documentation/help_files/report_dashboard_help.php

Set-Cookie: OpenEMR=g3GhfkD5xIsb3Ge5m8KYxfe43LFtvIbo%2CVxmCKL9iQGY052L; path=/openemr/; SameSite=Strict

Request

```
GET /openemr/interface/login/login.php?site=default HTTP/1.1
Host: 192.168.145.128
Pragma: no-cache
Cache-Control: no-cache
accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9
accept-language: en-US
upgrade-insecure-requests: 1
Accept-Encoding: gzip, deflate, br
Connection: keep-alive
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/109.0.0.0 Safari/537.36
```

Recommendation

If possible, you should set the `HttpOnly` flag for these cookies.

Content Security Policy (CSP) not implemented

Content Security Policy (CSP) is an added layer of security that helps to detect and mitigate certain types of attacks, including Cross Site Scripting (XSS) and data injection attacks.

Content Security Policy (CSP) can be implemented by adding a `Content-Security-Policy` header. The value of this header is a string containing the policy directives describing your Content Security Policy. To implement CSP, you should define lists of allowed origins for all of the types of resources that your site utilizes. For example, if you have a simple site that needs to load scripts, stylesheets, and images hosted locally, as well as from the jQuery library from their CDN, the CSP header could look like the following:

```
Content-Security-Policy:
default-src 'self';
script-src 'self' https://code.jquery.com;
```

It was detected that your web application doesn't implement Content Security Policy (CSP) as the CSP header is missing from the response. It's recommended to implement Content Security Policy (CSP) into your web application.

CWE

CWE-1021

CVSS2

AV:N/AC:L/Au:N/C:N/I:N/A:N

CVSS3

CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:C/C:N/I:N/A:N

Access Vector	Network
---------------	---------

Base Score	0.0
------------	-----

Access Complexity	Low
Authentication	None
Confidentiality	None
Integrity Impact	None
Availability Impact	None

Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	Required
Scope	Changed
Confidentiality	None
Integrity Impact	None
Availability Impact	None

Impact

CSP can be used to prevent and/or mitigate attacks that involve content/code injection, such as cross-site scripting/XSS attacks, attacks that require embedding a malicious resource, attacks that involve malicious use of iframes, such as clickjacking attacks, and others.

<http://192.168.145.128/>

Paths without CSP header:

- <http://192.168.145.128/openemr/public/assets/>
- <http://192.168.145.128/openemr/library/>
- <http://192.168.145.128/openemr/public/assets/hotkeys-js/>
- <http://192.168.145.128/openemr/interface/main/tabs/>
- <http://192.168.145.128/openemr/public/assets/knockout/>
- <http://192.168.145.128/openemr/interface/>
- http://192.168.145.128/openemr/interface/main/main_screen.php
- <http://192.168.145.128/openemr/public/assets/bootstrap/dist/js/>
- <http://192.168.145.128/openemr/public/assets/moment/min/>
- <http://192.168.145.128/openemr/interface/main/messages/messages.php>
- <http://192.168.145.128/openemr/public/assets/jquery/dist/>
- http://192.168.145.128/openemr/library/ajax/dated_reminders_counter.php

- <http://192.168.145.128/openemr/public/assets/select2/>
- <http://192.168.145.128/openemr/library/js/vendors/>
- <http://192.168.145.128/openemr/interface/main/calendar/>
- <http://192.168.145.128/openemr/public/assets/jquery/>
- <http://192.168.145.128/openemr/Documentation/>
- http://192.168.145.128/openemr/Documentation/help_files/
- <http://192.168.145.128/openemr/public/assets/i18next/>
- http://192.168.145.128/openemr/library/ajax/i18n_generator.php
- <http://192.168.145.128/openemr/library/ajax/>

Request

```
GET /openemr/public/assets/ HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58addee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: aspectalerts;routes
Referer: http://192.168.145.128/openemr/public/assets/
Cookie: OpenEMR=ShqPYxekgSvnztaqfRyqOJ2b-9njDrQM43HnaYAqgkzuKU15
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

Recommendation

It's recommended to implement Content Security Policy (CSP) into your web application. Configuring Content Security Policy involves adding the **Content-Security-Policy** HTTP header to a web page and giving it values to control resources the user agent is allowed to load for that page.

References

[Content Security Policy \(CSP\)](#)

<https://developer.mozilla.org/en-US/docs/Web/HTTP/CSP>

[Implementing Content Security Policy](#)

<https://hacks.mozilla.org/2016/02/implementing-content-security-policy/>

Content Security Policy Misconfiguration

Acunetix evaluated the scan target's Content Security Policies, checked for misconfigurations and potentially unintended side-effects of otherwise valid configurations, and offers the following suggestions on how to change existing policies for improved security and maximum compatibility.

CWE

CWE-16

Impact

Consult References for more information.

<http://192.168.145.128/>

Verified

- Missing object-src in CSP Declaration
 - First observed on: <http://192.168.145.128/openemr/interface/login/login.php>
 - CSP Value: frame-ancestors 'none'
 - CSP Source: header
 - Summary: Acunetix detected that object-src is missed in CSP declaration. It allows the injection of plugins which can execute JavaScript.
 - Impact: N/A
 - Remediation: Set object-src to 'none' in CSP declaration: Content-Security-Policy: object-src 'none';
 - References:
 - N/A

Request

```
GET /openemr/interface/login/login.php?site=default HTTP/1.1
Host: 192.168.145.128
Pragma: no-cache
Cache-Control: no-cache
accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9
accept-language: en-US
upgrade-insecure-requests: 1
Accept-Encoding: gzip, deflate, br
Connection: keep-alive
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
```

Recommendation

See alert details for available remediation advice.

References

[Using Content Security Policy \(CSP\) to Secure Web Applications](#)

<https://www.invicti.com/blog/web-security/content-security-policy/>

[The dangers of incorrect CSP implementations](#)

<https://www.invicti.com/blog/web-security/negative-impact-incorrect-csp-implementations/>

[Leverage Browser Security Features to Secure Your Website](#)

<https://www.invicti.com/blog/web-security/leverage-browser-security-features-secure-website/>

Content type is not specified

These page(s) does not set a Content-Type header value. This value informs the browser what kind of data to expect. If this header is missing, the browser may incorrectly handle the data. This could lead to security problems.

CWE

CWE-16

CVSS2

AV:N/AC:L/Au:N/C:N/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	None
Integrity Impact	None
Availability Impact	None

CVSS3

CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:U/C:N/I:N/A:N

Base Score	0.0
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	Required
Scope	Unchanged
Confidentiality	None
Integrity Impact	None
Availability Impact	None

Impact

None

<http://192.168.145.128/>

Verified

Pages where the content-type header is not specified:

- http://192.168.145.128/openemr/composer.lock
- http://192.168.145.128/openemr/LICENSE
- http://192.168.145.128/openemr/Documentation/INSTALL
- http://192.168.145.128/openemr/Documentation/README.phpacl
- http://192.168.145.128/openemr/library/api.inc
- http://192.168.145.128/openemr/library/auth.inc
- http://192.168.145.128/openemr/library/calendar.inc
- http://192.168.145.128/openemr/library/direct_message_check.inc
- http://192.168.145.128/openemr/library/encounter.inc
- http://192.168.145.128/openemr/interface/themes/colors/utilities/batch-payments.scss
- http://192.168.145.128/openemr/library/forms.inc
- http://192.168.145.128/openemr/library/group.inc
- http://192.168.145.128/openemr/library/lab.inc
- http://192.168.145.128/openemr/library/lists.inc
- http://192.168.145.128/openemr/library/options_listadd.inc
- http://192.168.145.128/openemr/library/patient.inc
- http://192.168.145.128/openemr/library/pid.inc
- http://192.168.145.128/openemr/library/pnotes.inc
- http://192.168.145.128/openemr/interface/themes/core/patient/demographics.scss
- http://192.168.145.128/openemr/library/registry.inc
- http://192.168.145.128/openemr/library/report.inc

Request

```
GET /openemr/composer.lock HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58addee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: aspectalerts;routes
Referer: http://192.168.145.128/openemr/
Cookie: OpenEMR=F-6X1PVs1YyH8tuel82CU%2CjzXjI%2C2Xj1wHpg%2CMTJEHOAPWa5
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

Recommendation

Set a Content-Type header value for these page(s).

Error page web server version disclosure

Application errors or warning messages may disclose sensitive information about an application's internal workings to an attacker.

Acunetix found the web server version number and a list of modules enabled on the target server. Consult the 'Attack details' section for more information about the affected page.

CWE

CWE-200

CVSS2

AV:N/AC:L/Au:N/C:P/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	Partial
Integrity Impact	None
Availability Impact	None

CVSS3

CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N

Base Score	5.3
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	None
Scope	Unchanged
Confidentiality	Low
Integrity Impact	None
Availability Impact	None

Impact

Error messages information about an application's internal workings may be used to escalate attacks.

<http://192.168.145.128/>

Request

```
GET /OSEbyESLkq HTTP/1.1
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

Recommendation

Properly configure the web server not to disclose information about an application's internal workings to the user. Consult the 'Web references' section for more information.

References

[Custom Error Responses \(Apache HTTP Server\)](#)

<https://httpd.apache.org/docs/current/custom-error.html>

server_tokens (Nginx)

http://nginx.org/en/docs/http/ngx_http_core_module.html#server_tokens

Remove Unwanted HTTP Response Headers (Microsoft IIS)

<https://blogs.msdn.microsoft.com/varunm/2013/04/23/remove-unwanted-http-response-headers/>

Permissions-Policy header not implemented

The Permissions-Policy header allows developers to selectively enable and disable use of various browser features and APIs.

CWE

CWE-1021

CVSS2

AV:N/AC:L/Au:N/C:N/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	None
Integrity Impact	None
Availability Impact	None

CVSS3

CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:C/C:N/I:N/A:N

Base Score	0.0
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	Required
Scope	Changed
Confidentiality	None
Integrity Impact	None
Availability Impact	None

Impact

http://192.168.145.128/

Locations without Permissions-Policy header:

- <http://192.168.145.128/openemr/public/assets/>
- <http://192.168.145.128/openemr/library/>
- <http://192.168.145.128/openemr/public/assets/hotkeys-js/>
- <http://192.168.145.128/openemr/interface/main/tabs/>
- <http://192.168.145.128/openemr/public/assets/knockout/>
- <http://192.168.145.128/openemr/interface/>
- http://192.168.145.128/openemr/interface/main/main_screen.php
- <http://192.168.145.128/openemr/public/assets/bootstrap/dist/js/>
- <http://192.168.145.128/openemr/public/assets/moment/min/>

- <http://192.168.145.128/openemr/interface/main/messages/messages.php>
- <http://192.168.145.128/openemr/public/assets/jquery/dist/>
- http://192.168.145.128/openemr/library/ajax/dated_reminders_counter.php
- http://192.168.145.128/openemr/interface/main/dated_reminders/dated_reminders.php
- <http://192.168.145.128/openemr/public/assets/select2/>
- <http://192.168.145.128/openemr/library/js/vendors/>
- <http://192.168.145.128/openemr/interface/login/login.php>
- <http://192.168.145.128/openemr/interface/main/calendar/>
- <http://192.168.145.128/openemr/public/assets/jquery/>
- <http://192.168.145.128/openemr/Documentation/>
- http://192.168.145.128/openemr/Documentation/help_files/
- <http://192.168.145.128/openemr/public/assets/i18next/>

Request

```
GET /openemr/public/assets/ HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58addee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: aspectalerts;routes
Referer: http://192.168.145.128/openemr/public/assets/
Cookie: OpenEMR=ShqPYxekgSvnztaqfRyqOJ2b-9njDrQM43HnaYAqgkzuKU15
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

References

[Permissions-Policy / Feature-Policy \(MDN\)](#)

<https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Feature-Policy>

[Permissions Policy \(W3C\)](#)

<https://www.w3.org/TR/permissions-policy-1/>

Subresource Integrity (SRI) not implemented

Subresource Integrity (SRI) is a security feature that enables browsers to verify that third-party resources they fetch (for example, from a CDN) are delivered without unexpected manipulation. It works by allowing developers to provide a cryptographic hash that a fetched file must match.

Third-party resources (such as scripts and stylesheets) can be manipulated. An attacker that has access or has hacked the hosting CDN can manipulate or replace the files. SRI allows developers to specify a base64-encoded cryptographic hash of the resource to be loaded. The integrity attribute containing the hash is then added to the <script> HTML element tag. The integrity string consists of a base64-encoded hash,

followed by a prefix that depends on the hash algorithm. This prefix can either be sha256, sha384 or sha512.

The script loaded from the external URL specified in the Details section doesn't implement Subresource Integrity (SRI). It's recommended to implement Subresource Integrity (SRI) for all the scripts loaded from external hosts.

CWE

CWE-830

CVSS2

AV:N/AC:L/Au:N/C:N/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	None
Integrity Impact	None
Availability Impact	None

CVSS3

CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:C/C:N/I:N/A:N

Base Score	0.0
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	None
Scope	Changed
Confidentiality	None
Integrity Impact	None
Availability Impact	None

Impact

An attacker that has access or has hacked the hosting CDN can manipulate or replace the files.

<http://192.168.145.128/openemr/public/assets/checklist-model/>

Pages where SRI is not implemented:

- <http://192.168.145.128/openemr/public/assets/checklist-model/>
Script SRC: <https://cdnjs.cloudflare.com/ajax/libs/angular.js/1.4.8/angular.js>
- <http://192.168.145.128/openemr/public/assets/checklist-model/>
Script SRC: https://cdn.rawgit.com/google/code-prettify/master/loader/run_prettify.js

Request

```
GET /openemr/public/assets/checklist-model/ HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58addee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
```

```
Acunetix-Aspect-Queries: aspectalerts;routes
Referer: http://192.168.145.128/openemr/public/assets/
Cookie: OpenEMR=g3GhfkD5xIzb3Ge5m8KYxfe43LFTvIbo%2CVxmCKL9iQGY052L
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

Recommendation

Use the SRI Hash Generator link (from the References section) to generate a <script> element that implements Subresource Integrity (SRI).

For example, you can use the following <script> element to tell a browser that before executing the <https://example.com/example-framework.js> script, the browser must first compare the script to the expected hash, and verify that there's a match.

```
<script src="https://example.com/example-framework.js"
integrity="sha384-oqVuAfXRKap7fdgcCY5uykM6+R9GqQ8K/uxy9rx7HNQlGY11kPzQho1wx4JwY8wC"
crossorigin="anonymous"></script>
```

References

[Subresource Integrity](#)

https://developer.mozilla.org/en-US/docs/Web/Security/Subresource_Integrity

[SRI Hash Generator](#)

<https://www.srihash.org/>

Vulnerable package dependencies [high]

One or more packages that are used in your web application are affected by known vulnerabilities. Please consult the details section for more information about each affected package.

CWE

CWE-1104

Impact

The impact of this vulnerability is different for each vulnerable package. It's recommended to investigate each vulnerable package individually.

<http://192.168.145.128/openemr/>

List of vulnerable **composer** packages:

Package: dompdf/dompdf

Version: 1.2.2

CVE: CVE-2022-41343

Title: Files or Directories Accessible to External Parties

Description: registerFont in FontMetrics.php in Dompdf before 2.0.1 allows remote file inclusion because a URI validation failure does not halt font registration, as demonstrated by a @font-face rule.

CVSS V2:

CVSS V3: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:N/A:N

CWE: CWE-552

References:

- <https://github.com/dompdf/dompdf/releases/tag/v2.0.1>
- <https://github.com/dompdf/dompdf/issues/2994>
- <https://github.com/dompdf/dompdf/pull/2995>
- <https://tantosec.com/blog/cve-2022-41343/>

Package: dompdf/dompdf

Version: 1.2.2

CVE: CVE-2023-23924

Title: Incorrect Authorization

Description: Dompdf is an HTML to PDF converter. The URI validation on dompdf 2.0.1 can be bypassed on SVG parsing by passing `<image>` tags with uppercase letters. This may lead to arbitrary object unserialize on PHP < 8, through the `phar` URL wrapper. An attacker can exploit the vulnerability to call arbitrary URL with arbitrary protocols, if they can provide a SVG file to dompdf. In PHP versions before 8.0.0, it leads to arbitrary unserialize, that will lead to the very least to an arbitrary file deletion and even remote code execution, depending on classes that are available.

CVSS V2:

CVSS V3: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H

CWE: CWE-863

References:

- <https://github.com/dompdf/dompdf/security/advisories/GHSA-3cw5-7cxw-v5qg>
- <https://github.com/dompdf/dompdf/releases/tag/v2.0.2>
- <https://github.com/dompdf/dompdf/commit/7558f07f693b2ac3266089f21051e6b78c6a0c85>

Package: dompdf/dompdf

Version: 1.2.2

CVE: CVE-2023-24813

Title: Interpretation Conflict

Description: Dompdf is an HTML to PDF converter written in php. Due to the difference in the attribute parser of Dompdf and php-svg-lib, an attacker can still call arbitrary URLs with arbitrary protocols. Dompdf parses the href attribute of `image` tags and respects `xlink:href` even if `href` is specified. However, php-svg-lib, which is later used to parse the svg file, parses the href attribute. Since `href` is respected if both `xlink:href` and `href` is specified, it's possible to bypass the protection on the Dompdf side by providing an empty `xlink:href` attribute. An attacker can exploit the vulnerability to call arbitrary URLs with arbitrary protocols if they provide an SVG file to the Dompdf. In PHP versions

before 8.0.0, it leads to arbitrary unserialize, which will lead, at the very least, to arbitrary file deletion and might lead to remote code execution, depending on available classes. This vulnerability has been addressed in commit `95009ea98` which has been included in release version 2.0.3. Users are advised to upgrade. There are no known workarounds for this vulnerability.

CVSS V2:

CVSS V3: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H

CWE: CWE-436

References:

- <https://github.com/dompdf/dompdf/security/advisories/GHSA-56gj-mvh6-rp75>
- <https://github.com/dompdf/dompdf/commit/95009ea98230f9b084b040c34e3869ef3dccc9aa>

Package: guzzlehttp/guzzle

Version: 7.4.4

CVE: CVE-2022-31091

Title:

Description: Guzzle, an extensible PHP HTTP client. `Authorization` and `Cookie` headers on requests are sensitive information. In affected versions on making a request which responds with a redirect to a URI with a different port, if we choose to follow it, we should remove the `Authorization` and `Cookie` headers from the request, before containing. Previously, we would only consider a change in host or scheme. Affected Guzzle 7 users should upgrade to Guzzle 7.4.5 as soon as possible. Affected users using any earlier series of Guzzle should upgrade to Guzzle 6.5.8 or 7.4.5. Note that a partial fix was implemented in Guzzle 7.4.2, where a change in host would trigger removal of the curl-added Authorization header, however this earlier fix did not cover change in scheme or change in port. An alternative approach would be to use your own redirect middleware, rather than ours, if you are unable to upgrade. If you do not require or expect redirects to be followed, one should simply disable redirects all together.

CVSS V2: AV:N/AC:L/Au:S/C:P/I:N/A:N

CVSS V3: CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:C/C:H/I:N/A:N

CWE: NVD-CWE-noinfo

References:

- <https://github.com/guzzle/guzzle/commit/1dd98b0564cb3f6bd16ce683cb755f94c10fdbd82>
- <https://github.com/guzzle/guzzle/security/advisories/GHSA-q559-8m2m-g699>
- <https://www.debian.org/security/2022/dsa-5246>

Package: guzzlehttp/guzzle

Version: 7.4.4

CVE: CVE-2022-31090

Title: Exposure of Sensitive Information to an Unauthorized Actor

Description: Guzzle, an extensible PHP HTTP client. `Authorization` headers on requests are sensitive information. In affected versions when using our Curl handler, it is possible to use the `CURLOPT_HTTPAUTH` option to specify an `Authorization` header. On making a request which responds with a redirect to a URI with a different origin (change in host, scheme or port), if we choose to follow it, we should remove the `CURLOPT_HTTPAUTH` option before continuing, stopping curl from appending the `Authorization` header to the new request. Affected Guzzle 7 users should upgrade to Guzzle 7.4.5 as soon as possible. Affected users using any earlier series of Guzzle should upgrade to Guzzle 6.5.8 or 7.4.5. Note that a partial fix was implemented in Guzzle 7.4.2, where a change in host would trigger removal of the curl-added Authorization header, however this earlier fix did not cover change in scheme or change in port. If you do not require or

expect redirects to be followed, one should simply disable redirects all together. Alternatively, one can specify to use the Guzzle steam handler backend, rather than curl.

CVSS V2: AV:N/AC:L/Au:S/C:P/I:N/A:N

CVSS V3: CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:C/C:H/I:N/A:N

CWE: CWE-200

References:

- <https://github.com/guzzle/guzzle/commit/1dd98b0564cb3f6bd16ce683cb755f94c10fdb82>
- <https://github.com/guzzle/guzzle/security/advisories/GHSA-25mq-v84q-4j7r>
- <https://www.debian.org/security/2022/dsa-5246>

Package: knplabs/knp-snappy

Version: 1.4.1

CVE: CVE-2023-28115

Title: Deserialization of Untrusted Data

Description: Snappy is a PHP library allowing thumbnail, snapshot or PDF generation from a url or a html page. Prior to version 1.4.2, Snappy is vulnerable to PHAR deserialization due to a lack of checking on the protocol before passing it into the `file_exists()` function. If an attacker can upload files of any type to the server he can pass in the phar:// protocol to unserialize the uploaded file and instantiate arbitrary PHP objects. This can lead to remote code execution especially when snappy is used with frameworks with documented POP chains like Laravel/Symfony vulnerable developer code. If a user can control the output file from the `generateFromHtml()` function, it will invoke deserialization. This vulnerability is capable of remote code execution if Snappy is used with frameworks or developer code with vulnerable POP chains. It has been fixed in version 1.4.2.

CVSS V2:

CVSS V3: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H

CWE: CWE-502

References:

- <https://github.com/KnpLabs/snappy/releases/tag/v1.4.2>
- <https://github.com/KnpLabs/snappy/security/advisories/GHSA-gq6w-q6wh-jggc>
- <https://github.com/KnpLabs/snappy/commit/b66f79334421c26d9c244427963fa2d92980b5d3>
- <https://github.com/KnpLabs/snappy/commit/1ee6360cbdbea5d09705909a150df7963a88efd6>
- <https://github.com/KnpLabs/snappy/blob/5126fb5b335ec929a226314d40cd8dad497c3d67/src/Knp/Snappy/AbstractGenerator.php#L670>

- <https://github.com/KnpLabs/snappy/pull/469>

Package: phpseclib/phpseclib

Version: 2.0.37

CVE: CVE-2023-27560

Title: Loop with Unreachable Exit Condition ('Infinite Loop')

Description: Math/PrimeField.php in phpseclib 3.x before 3.0.19 has an infinite loop with composite primefields.

CVSS V2:

CVSS V3: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H

CWE: CWE-835

References:

- <https://github.com/phpseclib/phpseclib/commit/6298d1cd55c3ffa44533bd41906caec246b60440>
- <https://github.com/phpseclib/phpseclib/releases/tag/3.0.19>

Package: smarty/smarty

Version: 2.6.33

CVE: CVE-2021-26119

Title:

Description: Smarty before 3.1.39 allows a Sandbox Escape because \$smarty.template_object can be accessed in sandbox mode.

CVSS V2: AV:N/AC:L/Au:N/C:N/I:P/A:N

CVSS V3: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:H/A:N

CWE: NVD-CWE-noinfo

References:

- <https://github.com/smarty-php/smarty/blob/master/CHANGELOG.md>
- <https://lists.debian.org/debian-lts-announce/2021/04/msg00004.html>
- <https://lists.debian.org/debian-lts-announce/2021/04/msg00014.html>
- <https://security.gentoo.org/glsa/202105-06>
- <https://www.debian.org/security/2022/dsa-5151>

Package: smarty/smarty

Version: 2.6.33

CVE: CVE-2021-26120

Title: Improper Control of Generation of Code ('Code Injection')

Description: Smarty before 3.1.39 allows code injection via an unexpected function name after a {function name= substring.

CVSS V2: AV:N/AC:L/Au:N/C:P/I:P/A:P

CVSS V3: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H

CWE: CWE-94

References:

- <https://github.com/smarty-php/smarty/blob/master/CHANGELOG.md>
- <https://lists.debian.org/debian-lts-announce/2021/04/msg00004.html>
- <https://lists.debian.org/debian-lts-announce/2021/04/msg00014.html>
- <https://security.gentoo.org/glsa/202105-06>
- <https://www.debian.org/security/2022/dsa-5151>

Package: smarty/smarty

Version: 2.6.33

CVE: CVE-2017-1000480

Title: Improper Control of Generation of Code ('Code Injection')

Description: Smarty 3 before 3.1.32 is vulnerable to a PHP code injection when calling fetch() or display() functions on custom resources that does not sanitize template name.

CVSS V2: AV:N/AC:L/Au:N/C:P/I:P/A:P

CVSS V3: CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H

CWE: CWE-94

References:

- https://github.com/smarty-php/smarty/blob/master/change_log.txt
- <https://www.debian.org/security/2018/dsa-4094>
- <https://lists.debian.org/debian-lts-announce/2018/02/msg00000.html>
- <https://lists.debian.org/debian-lts-announce/2018/01/msg00023.html>

Package: smarty/smarty

Version: 2.6.33

CVE: CVE-2018-13982

Title: Improper Limitation of a Pathname to a Restricted Directory ('Path Traversal')

Description: Smarty_Security::isTrustedResourceDir() in Smarty before 3.1.33 is prone to a path traversal vulnerability due to insufficient template code sanitization. This allows attackers controlling the executed template code to bypass the trusted directory security restriction and read arbitrary files.

CVSS V2: AV:N/AC:L/Au:N/C:P/I:N/A:N

CVSS V3: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:N/A:N

CWE: CWE-22

References:

- <https://github.com/smarty-php/smarty/commit/f9ca3c63d1250bb56b2bda609dcc9dd81f0065f8>
- <https://github.com/smarty-php/smarty/commit/c9dbe1d08c081912d02bd851d1d1b6388f6133d1>
- <https://github.com/smarty-php/smarty/commit/bcedfd6b58bed4a7366336979ebaa5a240581531>
- <https://github.com/smarty-php/smarty/commit/8d21f38dc35c4cd6b31c2f23fc9b8e5adbc56dfe>
- <https://github.com/smarty-php/smarty/commit/2e081a51b1effddb23f87952959139ac62654d50>
- https://github.com/sbaresearch/advisories/tree/public/2018/SBA-ADV-20180420-01_Smarty_Path_Traversal
- <https://lists.debian.org/debian-lts-announce/2021/04/msg00004.html>
- <https://lists.debian.org/debian-lts-announce/2021/04/msg00014.html>
- <https://lists.debian.org/debian-lts-announce/2021/10/msg00015.html>

Package: smarty/smarty

Version: 2.6.33

CVE: CVE-2021-21408

Title: Improper Input Validation

Description: Smarty is a template engine for PHP, facilitating the separation of presentation (HTML/CSS) from application logic. Prior to versions 3.1.43 and 4.0.3, template authors could run restricted static php methods. Users should upgrade to version 3.1.43 or 4.0.3 to receive a patch.

CVSS V2: AV:N/AC:L/Au:S/C:P/I:P/A:P

CVSS V3: CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:H/I:H/A:H

CWE: CWE-20

References:

- <https://github.com/smarty-php/smarty/commit/19ae410bf56007a5ef24441cdc6414619cfaf664>
- <https://github.com/smarty-php/smarty/releases/tag/v3.1.43>
- <https://github.com/smarty-php/smarty/security/advisories/GHSA-4h9c-v5vg-5m6m>
- <https://github.com/smarty-php/smarty/releases/tag/v4.0.3>
- <https://lists.debian.org/debian-lts-announce/2022/05/msg00005.html>

- <https://www.debian.org/security/2022/dsa-5151>
- <https://security.gentoo.org/glsa/202209-09>
- <https://lists.fedoraproject.org/archives/list/package-announce@lists.fedoraproject.org/message/L777JIBIWJV34HS7LXPIDWASG7TT4LNI/>
- <https://lists.fedoraproject.org/archives/list/package-announce@lists.fedoraproject.org/message/BRAJVDRGCIY5UZ2PQHKDTT7RMKG6WJQQ/>

Package: smarty/smarty

Version: 2.6.33

CVE: CVE-2021-29454

Title: Improper Neutralization of Special Elements in Output Used by a Downstream Component ('Injection')

Description: Smarty is a template engine for PHP, facilitating the separation of presentation (HTML/CSS) from application logic. Prior to versions 3.1.42 and 4.0.2, template authors could run arbitrary PHP code by crafting a malicious math string. If a math string was passed through as user provided data to the math function, external users could run arbitrary PHP code by crafting a malicious math string. Users should upgrade to version 3.1.42 or 4.0.2 to receive a patch.

CVSS V2: AV:N/AC:L/Au:S/C:P/I:P/A:P

CVSS V3: CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:H/I:H/A:H

CWE: CWE-74

References:

- <https://github.com/smarty-php/smarty/commit/215d81a9fa3cd63d82fb3ab56ecaf97cf1e7db71>
- <https://github.com/smarty-php/smarty/security/advisories/GHSA-29gp-2c3m-3j6m>
- <https://packagist.org/packages/smarty/smarty>
- <https://github.com/smarty-php/smarty/releases/tag/v3.1.42>
- <https://www.smarty.net/docs/en/language.function.math.tpl>
- <https://github.com/smarty-php/smarty/releases/tag/v4.0.2>
- <https://lists.debian.org/debian-lts-announce/2022/05/msg00005.html>
- <https://www.debian.org/security/2022/dsa-5151>
- <https://security.gentoo.org/glsa/202209-09>
- <https://lists.fedoraproject.org/archives/list/package-announce@lists.fedoraproject.org/message/L777JIBIWJV34HS7LXPIDWASG7TT4LNI/>
- <https://lists.fedoraproject.org/archives/list/package-announce@lists.fedoraproject.org/message/BRAJVDRGCIY5UZ2PQHKDTT7RMKG6WJQQ/>

Package: smarty/smarty

Version: 2.6.33

CVE: CVE-2022-29221

Title: Improper Control of Generation of Code ('Code Injection')

Description: Smarty is a template engine for PHP, facilitating the separation of presentation (HTML/CSS) from application logic. Prior to versions 3.1.45 and 4.1.1, template authors could inject php code by choosing a malicious {block} name or {include} file name. Sites that cannot fully trust template authors should upgrade to versions 3.1.45 or 4.1.1 to receive a patch for this issue. There are currently no known workarounds.

CVSS V2: AV:N/AC:L/Au:S/C:P/I:P/A:P

CVSS V3: CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:H/I:H/A:H

References:

- <https://github.com/smarty-php/smarty/releases/tag/v3.1.45>
- <https://github.com/smarty-php/smarty/security/advisories/GHSA-634x-pc3q-cf4c>
- <https://github.com/smarty-php/smarty/commit/64ad6442ca1da31cefdb5c9874262b702ccddd>
- <https://github.com/smarty-php/smarty/releases/tag/v4.1.1>
- <https://www.debian.org/security/2022/dsa-5151>
- <https://lists.debian.org/debian-lts-announce/2022/05/msg00044.html>
- <https://security.gentoo.org/glsa/202209-09>
- <https://lists.fedoraproject.org/archives/list/package-announce@lists.fedoraproject.org/message/L777JIBIWJV34HS7LXPIDWASG7TT4LNI/>
- <https://lists.fedoraproject.org/archives/list/package-announce@lists.fedoraproject.org/message/BRAJVDRGCIY5UZ2PQHKDTT7RMKG6WJQQ/>

Package: twig/twig

Version: 3.4.1

CVE: CVE-2022-39261

Title: Improper Limitation of a Pathname to a Restricted Directory ('Path Traversal')

Description: Twig is a template language for PHP. Versions 1.x prior to 1.44.7, 2.x prior to 2.15.3, and 3.x prior to 3.4.3 encounter an issue when the filesystem loader loads templates for which the name is a user input. It is possible to use the `source` or `include` statement to read arbitrary files from outside the templates' directory when using a namespace like `@somewhere/..//some.file`. In such a case, validation is bypassed. Versions 1.44.7, 2.15.3, and 3.4.3 contain a fix for validation of such template names. There are no known workarounds aside from upgrading.

CVSS V2:

CVSS V3: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:N/A:N

CWE: CWE-22

References:

- <https://github.com/twigphp/Twig/commit/35f3035c5deb0041da7b84daf02dea074ddc7a0b>
- <https://github.com/twigphp/Twig/security/advisories/GHSA-52m2-vc4m-jj33>
- <https://www.drupal.org/sa-core-2022-016>
- <https://www.debian.org/security/2022/dsa-5248>
- <https://lists.fedoraproject.org/archives/list/package-announce@lists.fedoraproject.org/message/2OKRUHPVLIQVFPPJ2UWC3WV3WQO763NR/>
- <https://lists.fedoraproject.org/archives/list/package-announce@lists.fedoraproject.org/message/AUVTXMNPZAHS3DWZEM56V5W4NPVR6L7/>
- <https://lists.fedoraproject.org/archives/list/package-announce@lists.fedoraproject.org/message/NWRFPZSR74SYVKBTKTMYUK36IJ3SQJP/>
- <https://lists.fedoraproject.org/archives/list/package-announce@lists.fedoraproject.org/message/YU4ZYX62H2NUAKKGUES4RZIM4KMTKZ7F/>
- <https://lists.debian.org/debian-lts-announce/2022/10/msg00016.html>
- <https://lists.fedoraproject.org/archives/list/package-announce@lists.fedoraproject.org/message/TW53TFJ6WWNXMUHOFACKATJTS7NIHVQE/>
- <https://lists.fedoraproject.org/archives/list/package-announce@lists.fedoraproject.org/message/WV5TNNJLGG536TJH6DLCIAZZIPV2GUD/>

Recommendation

It's recommended to update the vulnerable packages to the latest version (if a fix exists). If a fix does not exist, you may want to suggest changes that address the vulnerability to the package maintainer or remove the package from your dependency tree.

Vulnerable JavaScript libraries

You are using one or more vulnerable JavaScript libraries. One or more vulnerabilities were reported for this version of the library. Consult Attack details and Web References for more information about the affected library and the vulnerabilities that were reported.

CWE

CWE-937

CVSS2

AV:N/AC:L/Au:N/C:P/I:P/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	Partial
Integrity Impact	Partial
Availability Impact	None

CVSS3

CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:L/A:N

Base Score	6.5
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	None
Scope	Unchanged
Confidentiality	Low
Integrity Impact	Low
Availability Impact	None

Impact

Consult References for more information.

<http://192.168.145.128/>

Confidence: 95%

- AngularJS 1.4.8

- URL: <https://cdnjs.cloudflare.com/ajax/libs/angular.js/1.4.8/angular.js>
- Detection method: The library's name and version were determined based on the file's CDN URI.
- CVE-ID: CVE-2020-7676
- Description: Prototype pollution / Cross-Site Scripting.

- o References:

- <https://github.com/angular/angular.js/commit/726f49dcf6c23106ddaf5cf5e2e592841db743a>
- <https://github.com/angular/angular.js/blob/master/CHANGELOG.md#179-pollution-eradication-2019-11-19>
- <https://nvd.nist.gov/vuln/detail/CVE-2020-7676>

Request

```
GET /openemr/public/assets/checklist-model/ HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58addee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: aspectalerts;routes
Referer: http://192.168.145.128/openemr/public/assets/
Cookie: OpenEMR=g3GhfkD5xIsb3Ge5m8KYxfe43LFtvIbo%2CVxmCKL9iQGY052L
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

<http://192.168.145.128/>

Verified

- **jQuery UI 1.12.1**

- o URL: <http://192.168.145.128/openemr/public/assets/jquery-ui/jquery-ui.js>
- o Detection method: The library's name and version were determined based on the file's syntax fingerprint, and contents. Acunetix verified the library version and the associated vulnerabilities with the file's unique syntax fingerprint, which matched the syntax fingerprint expected by Acunetix.
- o CVE-ID: CVE-2021-41184
- o Description: XSS in the 'of' option of the '.position()' util
- o References:
 - <https://blog.jqueryui.com/2021/10/jquery-ui-1-13-0-released/>
 - <https://github.com/jquery/jquery-ui/security/advisories/GHSA-gpqq-952q-5327>

Request

```
GET /openemr/public/assets/jquery-ui/jquery-ui.js HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58addee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: aspectalerts;routes
Referer: http://192.168.145.128/openemr/Documentation/help_files/openemr_installation_help.php
Cookie: OpenEMR=d40D5DeYlSqGsuSImcMvdlXbnUvSB1S1%2CNIItqLcdHnpIKp4G
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
```

Host: 192.168.145.128
Connection: Keep-alive

<http://192.168.145.128/>

Confidence: 95%

- **jQuery UI Datepicker 1.12.1**

- URL: <http://192.168.145.128/openemr/public/assets/jquery-ui/jquery-ui.js>
- Detection method: The library's name and version were determined based on the file's contents.
- CVE-ID: CVE-2021-41182, CVE-2021-41183
- Description: XSS in the 'altField' option of the Datepicker widget / XSS in '*Text' options of the Datepicker widget
- References:
 - <https://blog.jqueryui.com/2021/10/jquery-ui-1-13-0-released/>
 - <https://github.com/jquery/jquery-ui/security/advisories/GHSA-9gj3-hwp5-pmwcc>
 - <https://github.com/jquery/jquery-ui/security/advisories/GHSA-j7qv-pgf6-hvh4>

Request

```
GET /openemr/public/assets/jquery-ui/jquery-ui.js HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58addee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: aspectalerts;routes
Referer: http://192.168.145.128/openemr/Documentation/help_files/openemr_installation_help.php
Cookie: OpenEMR=d4D5DeY1SqGsuSImcMvd1XbnUvSB1S1%2CNItgLcdHnpIKp4G
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

<http://192.168.145.128/>

Verified

- **jQuery 1.12.4**

- URL: <http://192.168.145.128/openemr/public/assets/jquery-ui/external/jquery/jquery.js>
- Detection method: The library's name and version were determined based on the file's syntax fingerprint, and contents. Acunetix verified the library version and the associated vulnerabilities with the file's unique syntax fingerprint, which matched the syntax fingerprint expected by Acunetix.
- CVE-ID: CVE-2015-9251, CVE-2020-11022, CVE-2020-11023
- Description: Possible Cross Site Scripting via third-party text/javascript responses (1.12.0-1.12.2 mitigation reverted) / In jQuery versions greater than or equal to 1.2 and before 3.5.0, passing HTML from untrusted sources - even after sanitizing it - to one of jQuery's DOM manipulation methods (i.e. .html(), .append(), and others) may execute untrusted code. This problem is patched in jQuery 3.5.0. / In jQuery versions greater

than or equal to 1.0.3 and before 3.5.0, passing HTML containing option elements from untrusted sources - even after sanitizing it - to one of jQuery's DOM manipulation methods (i.e. .html(), .append(), and others) may execute untrusted code. This problem is patched in jQuery 3.5.0.

- o References:

- <https://github.com/jquery/jquery/issues/2432>
- <https://blog.jquery.com/2020/04/10/jquery-3-5-0-released/>
- <https://mksben.l0.cm/2020/05/jquery3.5.0-xss.html>
- <https://jquery.com/upgrade-guide/3.5/>
- <https://api.jquery.com/jQuery.htmlPrefilter/>
- <https://www.cvedetails.com/cve/CVE-2020-11022/>
- <https://github.com/advisories/GHSA-gxr4-xjj5-5px2>
- <https://www.cvedetails.com/cve/CVE-2020-11023/>
- <https://github.com/advisories/GHSA-jpcq-cgw6-v4j6>

Request

```
GET /openemr/public/assets/jquery-ui/external/jquery/jquery.js HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58addee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: aspectalerts;routes
Referer: http://192.168.145.128/openemr/public/assets/jquery-ui/
Cookie: OpenEMR=6WeVd6ZCNQZ1gcdzS-0v%2CJShmKVZumFVDGJv2At8hAWUVeJ3
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

<http://192.168.145.128/>

Verified

- **jQuery 1.10.2**

- o URL: <http://192.168.145.128/openemr/public/assets/jquery-datetimepicker/jquery.js>
- o Detection method: The library's name and version were determined based on the file's syntax fingerprint, and contents. Acunetix verified the library version and the associated vulnerabilities with the file's unique syntax fingerprint, which matched the syntax fingerprint expected by Acunetix.
- o CVE-ID: CVE-2015-9251, CVE-2020-11022, CVE-2020-11023
- o Description: Possible Cross Site Scripting via third-party text/javascript responses / In jQuery versions greater than or equal to 1.2 and before 3.5.0, passing HTML from untrusted sources - even after sanitizing it - to one of jQuery's DOM manipulation methods (i.e. .html(), .append(), and others) may execute untrusted code. This problem is patched in jQuery 3.5.0. / In jQuery versions greater than or equal to 1.0.3 and before 3.5.0, passing HTML containing option elements from untrusted sources - even after sanitizing it - to one of jQuery's DOM manipulation methods (i.e. .html(), .append(), and others) may execute untrusted code. This problem is patched in jQuery 3.5.0.
- o References:

- <https://github.com/jquery/jquery/issues/2432>
- <http://blog.jquery.com/2016/01/08/jquery-2-2-and-1-12-released/>
- <https://blog.jquery.com/2020/04/10/jquery-3-5-0-released/>
- <https://mksben.lo.cm/2020/05/jquery3.5.0-xss.html>
- <https://jquery.com/upgrade-guide/3.5/>
- <https://api.jquery.com/jQuery.htmlPrefilter/>
- <https://www.cvedetails.com/cve/CVE-2020-11022/>
- <https://github.com/advisories/GHSA-gxr4-xjj5-5px2>
- <https://www.cvedetails.com/cve/CVE-2020-11023/>
- <https://github.com/advisories/GHSA-jpcq-cgw6-v4j6>

Request

```
GET /openemr/public/assets/jquery-datetimepicker/jquery.js HTTP/1.1
Host: 192.168.145.128
accept: /*
accept-language: en-US
cookie: OpenEMR=SMoagLf26TS1Vx2PDvSGHTEJwG3t9eYeCWJyUPD7WNEu5a8X
Referer: http://192.168.145.128/openemr/public/assets/jquery-datetimepicker/
Accept-Encoding: gzip,deflate,br
Connection: keep-alive
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
```

<http://192.168.145.128/>

Verified

- **jQuery UI 1.8.10**

- URL: <http://192.168.145.128/openemr/interface/super/rules/www/js/cdr-multiselect/jquery-ui.min.js>
- Detection method: The library's name and version were determined based on the file's syntax fingerprint, and contents. Acunetix verified the library version and the associated vulnerabilities with the file's unique syntax fingerprint, which matched the syntax fingerprint expected by Acunetix.
- CVE-ID: CVE-2021-41184
- Description: XSS in the 'of' option of the '.position()' util
- References:
 - <https://blog.jqueryui.com/2021/10/jquery-ui-1-13-0-released/>
 - <https://github.com/jquery/jquery-ui/security/advisories/GHSA-gpqq-952q-5327>

Request

```
GET /openemr/interface/super/rules/www/js/cdr-multiselect/jquery-ui.min.js HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58addee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: aspectalerts;routes
Referer: http://192.168.145.128/openemr/interface/login_screen.php
Cookie: OpenEMR=2biStMm-fnsHdYMyYHQGKwzilsysHJvKUerLZszaOGdltFQQ
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
```

Accept-Encoding: gzip, deflate, br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive

<http://192.168.145.128/> Verified

- **jQuery UI Dialog 1.8.10**

- URL: <http://192.168.145.128/openemr/interface/super/rules/www/js/cdr-multiselect/jquery-ui.min.js>
- Detection method: The library's name and version were determined based on the file's contents. Acunetix verified the library version and the associated vulnerabilities with the file's unique syntax fingerprint, which matched the syntax fingerprint expected by Acunetix.
- CVE-ID: CVE-2010-5312, CVE-2016-7103
- Description: Title cross-site scripting vulnerability / XSS in dialog closeText
- References:
 - <http://bugs.jqueryui.com/ticket/6016>
 - <https://nodesecurity.io/advisories/127>
 - <http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2016-7103>
 - <https://www.cvedetails.com/cve/CVE-2016-7103/>

Request

GET /openemr/interface/super/rules/www/js/cdr-multiselect/jquery-ui.min.js HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58addee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: aspectalerts;routest
Referer: http://192.168.145.128/openemr/interface/login_screen.php
Cookie: OpenEMR=2biStMm-fnsHdYMyYHQGKWzilsysHJvKUerLZszaOGdltFQQ
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive

<http://192.168.145.128/> Verified

- **jQuery 1.5.1**

- URL: <http://192.168.145.128/openemr/interface/super/rules/www/js/cdr-multiselect/jquery.min.js>
- Detection method: The library's name and version were determined based on the file's syntax fingerprint, and contents. Acunetix verified the library version and the associated vulnerabilities with the file's unique syntax fingerprint, which matched the syntax fingerprint expected by Acunetix.
- CVE-ID: CVE-2011-4969, CVE-2015-9251, CVE-2020-11022, CVE-2020-11023

- Description: Cross-site scripting (XSS) vulnerability in jQuery before 1.6.3, when using location.hash to select elements, allows remote attackers to inject arbitrary web script or HTML via a crafted tag. / Selector interpreted as HTML / Possible Cross Site Scripting via third-party text/javascript responses / In jQuery versions greater than or equal to 1.2 and before 3.5.0, passing HTML from untrusted sources - even after sanitizing it - to one of jQuery's DOM manipulation methods (i.e. .html(), .append(), and others) may execute untrusted code. This problem is patched in jQuery 3.5.0. / In jQuery versions greater than or equal to 1.0.3 and before 3.5.0, passing HTML containing option elements from untrusted sources - even after sanitizing it - to one of jQuery's DOM manipulation methods (i.e. .html(), .append(), and others) may execute untrusted code. This problem is patched in jQuery 3.5.0.
- References:
 - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2011-4969>
 - <http://research.insecurelabs.org/jquery/test/>
 - <http://bugs.jquery.com/ticket/11290>
 - <https://github.com/jquery/jquery/issues/2432>
 - <http://blog.jquery.com/2016/01/08/jquery-2-2-and-1-12-released/>
 - <https://blog.jquery.com/2020/04/10/jquery-3-5-0-released/>
 - <https://mksben.l0.cm/2020/05/jquery3.5.0-xss.html>
 - <https://jquery.com/upgrade-guide/3.5/>
 - <https://api.jquery.com/jQuery.htmlPrefilter/>
 - <https://www.cvedetails.com/cve/CVE-2020-11022/>
 - <https://github.com/advisories/GHSA-gxr4-xjj5-px2>
 - <https://www.cvedetails.com/cve/CVE-2020-11023/>
 - <https://github.com/advisories/GHSA-jpcq-cgw6-v4j6>

Request

```

GET /openemr/interface/super/rules/www/js/cdr-multiselect/jquery.min.js HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58addee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: aspectalerts;routes
Referer: http://192.168.145.128/openemr/interface/login_screen.php
Cookie: OpenEMR=2biStMm-fnsHdYMyYHQGKWzilsysHJvKUerLZszaOGdltFQQ
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
  
```

<http://192.168.145.128/>

Verified

- **jQuery 1.4.3**

- URL: http://192.168.145.128/openemr/interface/modules/zend_modules/public/js/lib/jquery.treeview-1.4.1/lib/jquery.js

- Detection method: The library's name and version were determined based on the file's syntax fingerprint, and contents. Acunetix verified the library version and the associated vulnerabilities with the file's unique syntax fingerprint, which matched the syntax fingerprint expected by Acunetix.
- CVE-ID: CVE-2011-4969, CVE-2015-9251, CVE-2020-11022, CVE-2020-11023
- Description: Cross-site scripting (XSS) vulnerability in jQuery before 1.6.3, when using location.hash to select elements, allows remote attackers to inject arbitrary web script or HTML via a crafted tag. / Selector interpreted as HTML / Possible Cross Site Scripting via third-party text/javascript responses / In jQuery versions greater than or equal to 1.2 and before 3.5.0, passing HTML from untrusted sources - even after sanitizing it - to one of jQuery's DOM manipulation methods (i.e. .html(), .append(), and others) may execute untrusted code. This problem is patched in jQuery 3.5.0. / In jQuery versions greater than or equal to 1.0.3 and before 3.5.0, passing HTML containing option elements from untrusted sources - even after sanitizing it - to one of jQuery's DOM manipulation methods (i.e. .html(), .append(), and others) may execute untrusted code. This problem is patched in jQuery 3.5.0.
- References:
 - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2011-4969>
 - <http://research.insecurelabs.org/jquery/test/>
 - <http://bugs.jquery.com/ticket/11290>
 - <https://github.com/jquery/jquery/issues/2432>
 - <http://blog.jquery.com/2016/01/08/jquery-2-2-and-1-12-released/>
 - <https://blog.jquery.com/2020/04/10/jquery-3-5-0-released/>
 - <https://mksben.l0.cm/2020/05/jquery3.5.0-xss.html>
 - <https://jquery.com/upgrade-guide/3.5/>
 - <https://api.jquery.com/jQuery.htmlPrefilter/>
 - <https://www.cvedetails.com/cve/CVE-2020-11022/>
 - <https://github.com/advisories/GHSA-gxr4-xjj5-5px2>
 - <https://www.cvedetails.com/cve/CVE-2020-11023/>
 - <https://github.com/advisories/GHSA-jpcq-cgw6-v4j6>

Request

```

GET /openemr/interface/modules/zend_modules/public/js/lib/jquery.treeview-1.4.1/lib/jquery.js
HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58addee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: aspectalerts;routes
Referer: http://192.168.145.128/openemr/interface/login_screen.php
Cookie: OpenEMR=2biStMm-fnsHdYMyYHQGKwzilsysHJvKUerLZszaOGdltFQQ
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive

```

<http://192.168.145.128/>

Verified

- **jQuery UI 1.11.4**

- URL: http://192.168.145.128/openemr/interface/forms/eye_mag/js/jquery-ui-1-11-4/jquery-ui.min.js
- Detection method: The library's name and version were determined based on the file's syntax fingerprint, and contents. Acunetix verified the library version and the associated vulnerabilities with the file's unique syntax fingerprint, which matched the syntax fingerprint expected by Acunetix.
- CVE-ID: CVE-2021-41184
- Description: XSS in the 'of' option of the '.position()' util
- References:
 - <https://blog.jqueryui.com/2021/10/jquery-ui-1-13-0-released/>
 - <https://github.com/jquery/jquery-ui/security/advisories/GHSA-gpqq-952q-5327>

Request

```
GET /openemr/interface/forms/eye_mag/js/jquery-ui-1-11-4/jquery-ui.min.js HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58addee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: aspectalerts;routes
Referer: http://192.168.145.128/openemr/interface/login_screen.php
Cookie: OpenEMR=2biStMm-fnsHdYMyYHQGKWzilsysHJvKUerLZszaOGdltFQQ
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

<http://192.168.145.128/>

Verified

- **jQuery UI Dialog 1.11.4**

- URL: http://192.168.145.128/openemr/interface/forms/eye_mag/js/jquery-ui-1-11-4/jquery-ui.min.js
- Detection method: The library's name and version were determined based on the file's contents. Acunetix verified the library version and the associated vulnerabilities with the file's unique syntax fingerprint, which matched the syntax fingerprint expected by Acunetix.
- CVE-ID: CVE-2016-7103
- Description: XSS in dialog closeText
- References:
 - <https://nodesecurity.io/advisories/127>
 - <http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2016-7103>
 - <https://www.cvedetails.com/cve/CVE-2016-7103/>

Request

```
GET /openemr/interface/forms/eye_mag/js/jquery-ui-1-11-4/jquery-ui.min.js HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58addee3950d33ced68a7
```

Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: aspectalerts;routes
Referer: http://192.168.145.128/openemr/interface/login_screen.php
Cookie: OpenEMR=2biStMm-fnsHdYMyYHQGKWzilsysHJvKUerLZszaOGdltFQQ
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive

[http://192.168.145.128/](http://192.168.145.128)

Verified

- **jQuery 1.8.0**

- URL: http://192.168.145.128/openemr/interface/modules/zend_modules/public/js/lib/jquery-1.8.0.min.js
- Detection method: The library's name and version were determined based on the file's name, and contents. Acunetix verified the library version and the associated vulnerabilities with the file's unique syntax fingerprint, which matched the syntax fingerprint expected by Acunetix.
- CVE-ID: CVE-2015-9251, CVE-2020-11022, CVE-2020-11023
- Description: Selector interpreted as HTML / Possible Cross Site Scripting via third-party text/javascript responses / In jQuery versions greater than or equal to 1.2 and before 3.5.0, passing HTML from untrusted sources - even after sanitizing it - to one of jQuery's DOM manipulation methods (i.e. .html(), .append(), and others) may execute untrusted code. This problem is patched in jQuery 3.5.0. / In jQuery versions greater than or equal to 1.0.3 and before 3.5.0, passing HTML containing option elements from untrusted sources - even after sanitizing it - to one of jQuery's DOM manipulation methods (i.e. .html(), .append(), and others) may execute untrusted code. This problem is patched in jQuery 3.5.0.
- References:
 - <http://bugs.jquery.com/ticket/11290>
 - <http://research.insecurelabs.org/jquery/test/>
 - <https://github.com/jquery/jquery/issues/2432>
 - <http://blog.jquery.com/2016/01/08/jquery-2-2-and-1-12-released/>
 - <https://blog.jquery.com/2020/04/10/jquery-3-5-0-released/>
 - <https://mksben.l0.cm/2020/05/jquery3.5.0-xss.html>
 - <https://jquery.com/upgrade-guide/3.5/>
 - <https://api.jquery.com/jQuery.htmlPrefilter/>
 - <https://www.cvedetails.com/cve/CVE-2020-11022/>
 - <https://github.com/advisories/GHSA-gxr4-xjj5-5px2>
 - <https://www.cvedetails.com/cve/CVE-2020-11023/>
 - <https://github.com/advisories/GHSA-jpcq-cgw6-v4j6>

Request

```
GET /openemr/interface/modules/zend_modules/public/js/lib/jquery-1.8.0.min.js HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58adec3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
```

Acunetix-Aspect-Queries: aspectalerts;routes
Referer: http://192.168.145.128/openemr/interface/login_screen.php
Cookie: OpenEMR=2biStMm-fnsHdYMyYHQGKWzilsysHJvKUerLZszaOGdltFQQ
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive

<http://192.168.145.128/>

Verified

- jQuery 1.8.2

- URL: http://192.168.145.128/openemr/interface/modules/zend_modules/public/js/lib/jquery-1.8.2.min.js
- Detection method: The library's name and version were determined based on the file's name, and contents. Acunetix verified the library version and the associated vulnerabilities with the file's unique syntax fingerprint, which matched the syntax fingerprint expected by Acunetix.
- CVE-ID: CVE-2015-9251, CVE-2020-11022, CVE-2020-11023
- Description: Selector interpreted as HTML / Possible Cross Site Scripting via third-party text/javascript responses / In jQuery versions greater than or equal to 1.2 and before 3.5.0, passing HTML from untrusted sources - even after sanitizing it - to one of jQuery's DOM manipulation methods (i.e. .html(), .append(), and others) may execute untrusted code. This problem is patched in jQuery 3.5.0. / In jQuery versions greater than or equal to 1.0.3 and before 3.5.0, passing HTML containing option elements from untrusted sources - even after sanitizing it - to one of jQuery's DOM manipulation methods (i.e. .html(), .append(), and others) may execute untrusted code. This problem is patched in jQuery 3.5.0.
- References:
 - <http://bugs.jquery.com/ticket/11290>
 - <http://research.insecurelabs.org/jquery/test/>
 - <https://github.com/jquery/jquery/issues/2432>
 - <http://blog.jquery.com/2016/01/08/jquery-2-2-and-1-12-released/>
 - <https://blog.jquery.com/2020/04/10/jquery-3-5-0-released/>
 - <https://mksben.lo.cm/2020/05/jquery3.5.0-xss.html>
 - <https://jquery.com/upgrade-guide/3.5/>
 - <https://api.jquery.com/jQuery.htmlPrefilter/>
 - <https://www.cvedetails.com/cve/CVE-2020-11022/>
 - <https://github.com/advisories/GHSA-gxr4-xjj5-5px2>
 - <https://www.cvedetails.com/cve/CVE-2020-11023/>
 - <https://github.com/advisories/GHSA-jpcq-cgw6-v4j6>

Request

GET /openemr/interface/modules/zend_modules/public/js/lib/jquery-1.8.2.min.js HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58addee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: aspectalerts;routes

Referer: http://192.168.145.128/openemr/interface/login_screen.php
Cookie: OpenEMR=2biStMm-fnsHdYMyYHQGKwzilsysHJvKUerLZszaOGdltFQQ
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive

<http://192.168.145.128/> Verified

- **jQuery 1.8.3**

- URL: http://192.168.145.128/openemr/interface/modules/zend_modules/public/js/lib/jquery-1.8.3.js
- Detection method: The library's name and version were determined based on the file's name, and contents. Acunetix verified the library version and the associated vulnerabilities with the file's unique syntax fingerprint, which matched the syntax fingerprint expected by Acunetix.
- CVE-ID: CVE-2015-9251, CVE-2020-11022, CVE-2020-11023
- Description: Selector interpreted as HTML / Possible Cross Site Scripting via third-party text/javascript responses / In jQuery versions greater than or equal to 1.2 and before 3.5.0, passing HTML from untrusted sources - even after sanitizing it - to one of jQuery's DOM manipulation methods (i.e. .html(), .append(), and others) may execute untrusted code. This problem is patched in jQuery 3.5.0. / In jQuery versions greater than or equal to 1.0.3 and before 3.5.0, passing HTML containing option elements from untrusted sources - even after sanitizing it - to one of jQuery's DOM manipulation methods (i.e. .html(), .append(), and others) may execute untrusted code. This problem is patched in jQuery 3.5.0.
- References:
 - <http://bugs.jquery.com/ticket/11290>
 - <http://research.insecurelabs.org/jquery/test/>
 - <https://github.com/jquery/jquery/issues/2432>
 - <http://blog.jquery.com/2016/01/08/jquery-2-2-and-1-12-released/>
 - <https://blog.jquery.com/2020/04/10/jquery-3-5-0-released/>
 - <https://mksben.l0.cm/2020/05/jquery3.5.0-xss.html>
 - <https://jquery.com/upgrade-guide/3.5/>
 - <https://api.jquery.com/jQuery.htmlPrefilter/>
 - <https://www.cvedetails.com/cve/CVE-2020-11022/>
 - <https://github.com/advisories/GHSA-gxr4-xjj5-5px2>
 - <https://www.cvedetails.com/cve/CVE-2020-11023/>
 - <https://github.com/advisories/GHSA-jpcq-cgw6-v4j6>

Request

```
GET /openemr/interface/modules/zend_modules/public/js/lib/jquery-1.8.3.js HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58adee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: aspectalerts;routes
Referer: http://192.168.145.128/openemr/interface/login_screen.php
```

Cookie: OpenEMR=2biStMm-fnsHdYMyYHQGKWzilsysHJvKUerLZszaOGdltFQQ
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive

<http://192.168.145.128/>

Confidence: 80%

- **jQuery UI 1.9.2**

- URL: http://192.168.145.128/openemr/interface/modules/zend_modules/public/js/lib/jquery-ui.custom.js
- Detection method: The library's name and version were determined based on the file's contents. Acunetix performed a syntax analysis of the file and detected functional differences between the file and the original library version. As the file was likely modified on purpose, the confidence level of the vulnerability alert has been lowered.
- CVE-ID: [CVE-2021-41184](#)
- Description: XSS in the 'of' option of the '.position()' util
- References:
 - <https://blog.jqueryui.com/2021/10/jquery-ui-1-13-0-released/>
 - <https://github.com/jquery/jquery-ui/security/advisories/GHSA-gpqq-952q-5327>

Request

GET /openemr/interface/modules/zend_modules/public/js/lib/jquery-ui.custom.js HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58adee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: aspectalerts;routes
Referer: http://192.168.145.128/openemr/interface/login_screen.php
Cookie: OpenEMR=2biStMm-fnsHdYMyYHQGKWzilsysHJvKUerLZszaOGdltFQQ
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive

<http://192.168.145.128/>

Confidence: 95%

- **jQuery UI Datepicker 1.9.2**

- URL: http://192.168.145.128/openemr/interface/modules/zend_modules/public/js/lib/jquery-ui.custom.js
- Detection method: The library's name and version were determined based on the file's contents.
- CVE-ID: [CVE-2021-41182](#), [CVE-2021-41183](#)

- Description: XSS in the 'altField' option of the Datepicker widget / XSS in '*Text' options of the Datepicker widget
- References:
 - <https://blog.jqueryui.com/2021/10/jquery-ui-1-13-0-released/>
 - <https://github.com/jquery/jquery-ui/security/advisories/GHSA-9gj3-hwp5-pmwc>
 - <https://github.com/jquery/jquery-ui/security/advisories/GHSA-j7qv-pgf6-hvh4>

Request

```
GET /openemr/interface/modules/zend_modules/public/js/lib/jquery-ui.custom.js HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58addee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: aspectalerts;routes
Referer: http://192.168.145.128/openemr/interface/login_screen.php
Cookie: OpenEMR=2biStMm-fnsHdYMyYHQGKwzilsysHJvKUerLZszaOGdltFQQ
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

<http://192.168.145.128/>

Verified

- **jQuery UI 1.10.3**
 - URL: http://192.168.145.128/openemr/interface/modules/zend_modules/public/js/lib/jquery-ui.js
 - Detection method: The library's name and version were determined based on the file's syntax fingerprint, and contents. Acunetix verified the library version and the associated vulnerabilities with the file's unique syntax fingerprint, which matched the syntax fingerprint expected by Acunetix.
 - CVE-ID: CVE-2021-41184
 - Description: XSS in the 'of' option of the '.position()' util
 - References:
 - <https://blog.jqueryui.com/2021/10/jquery-ui-1-13-0-released/>
 - <https://github.com/jquery/jquery-ui/security/advisories/GHSA-gpqq-952q-5327>

Request

```
GET /openemr/interface/modules/zend_modules/public/js/lib/jquery-ui.js HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58addee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: aspectalerts;routes
Referer: http://192.168.145.128/openemr/interface/login_screen.php
Cookie: OpenEMR=2biStMm-fnsHdYMyYHQGKwzilsysHJvKUerLZszaOGdltFQQ
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
```

Chrome/109.0.0.0 Safari/537.36

Host: 192.168.145.128

Connection: Keep-alive

http://192.168.145.128/

Verified

- **jQuery UI Dialog 1.10.3**

- URL: http://192.168.145.128/openemr/interface/modules/zend_modules/public/js/lib/jquery-ui.js
- Detection method: The library's name and version were determined based on the file's contents. Acunetix verified the library version and the associated vulnerabilities with the file's unique syntax fingerprint, which matched the syntax fingerprint expected by Acunetix.
- CVE-ID: CVE-2016-7103
- Description: XSS in dialog closeText
- References:
 - <https://nodesecurity.io/advisories/127>
 - <http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2016-7103>
 - <https://www.cvedetails.com/cve/CVE-2016-7103/>

Request

```
GET /openemr/interface/modules/zend_modules/public/js/lib/jquery-ui.js HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58addee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: aspectalerts;routes
Referer: http://192.168.145.128/openemr/interface/login_screen.php
Cookie: OpenEMR=2biStMm-fnsHdYMyYHQGKWzilsysHJvKUerLZszaOGdltFQQ
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

http://192.168.145.128/

Confidence: 95%

- **jQuery UI Datepicker 1.10.3**

- URL: http://192.168.145.128/openemr/interface/modules/zend_modules/public/js/lib/jquery-ui.js
- Detection method: The library's name and version were determined based on the file's contents.
- CVE-ID: CVE-2021-41182, CVE-2021-41183
- Description: XSS in the 'altField' option of the Datepicker widget / XSS in '*Text' options of the Datepicker widget
- References:
 - <https://blog.jqueryui.com/2021/10/jquery-ui-1-13-0-released/>

- <https://github.com/jquery/jquery-ui/security/advisories/GHSA-9gj3-hwp5-pmw>
- <https://github.com/jquery/jquery-ui/security/advisories/GHSA-j7qv-pgf6-hvh4>

Request

```
GET /openemr/interface/modules/zend_modules/public/js/lib/jquery-ui.js HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58addee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: aspectalerts;routes
Referer: http://192.168.145.128/openemr/interface/login_screen.php
Cookie: OpenEMR=2biStMm-fnsHdYMyYHQGKWzilsysHJvKUerLZszaOGdltFQQ
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

Recommendation

Upgrade to the latest version.

Vulnerable package dependencies [medium]

One or more packages that are used in your web application are affected by known vulnerabilities. Please consult the details section for more information about each affected package.

CWE

CWE-1104

Impact

The impact of this vulnerability is different for each vulnerable package. It's recommended to investigate each vulnerable package individually.

<http://192.168.145.128/openemr/>

List of vulnerable **composer** packages:

Package: dompdf/dompdf

Version: 1.2.2

CVE: CVE-2022-0085

Title: Server-Side Request Forgery (SSRF)

Description: Server-Side Request Forgery (SSRF) in GitHub repository dompdf/dompdf prior to 2.0.0.

CVSS V2: AV:N/AC:M/Au:N/C:N/I:P/A:N

CVSS V3: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:L/A:N

CWE: CWE-918

References:

- <https://github.com/dompdf/dompdf/commit/bb1ef65011a14730b7cfbe73506b4bb8a03704bd>
- <https://huntr.dev/bounties/73dbcc78-5ba9-492f-9133-13bbc9f31236>

Package: dompdf/dompdf

Version: 1.2.2

CVE: CVE-2022-2400

Title: External Control of File Name or Path

Description: External Control of File Name or Path in GitHub repository dompdf/dompdf prior to 2.0.0.

CVSS V2:

CVSS V3: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N

CWE: CWE-73

References:

- <https://huntr.dev/bounties/a6da5e5e-86be-499a-a3c3-2950f749202a>
- <https://github.com/dompdf/dompdf/commit/99aeec1efec9213e87098d42eb09439e7ee0bb6a>

Package: smarty/smarty

Version: 2.6.33

CVE: CVE-2018-16831

Title: Improper Limitation of a Pathname to a Restricted Directory ('Path Traversal')

Description: Smarty before 3.1.33-dev-4 allows attackers to bypass the trusted_dir protection mechanism via a file:../../ substring in an include statement.

CVSS V2: AV:N/AC:M/Au:N/C:C/I:N/A:N

CVSS V3: CVSS:3.0/AV:N/AC:H/PR:N/UI:N/S:U/C:H/I:N/A:N

CWE: CWE-22

References:

- <https://github.com/smarty-php/smarty/issues/486>

Package: smarty/smarty

Version: 2.6.33

CVE: CVE-2018-25047

Title: Improper Neutralization of Input During Web Page Generation ('Cross-site Scripting')

Description: In Smarty before 3.1.47 and 4.x before 4.2.1, libs/plugins/function.mailto.php allows XSS. A web page that uses smarty_function_mailto, and that could be parameterized using GET or POST input parameters, could allow injection of JavaScript code by a user.

CVSS V2:

CVSS V3: CVSS:3.1/AV:N/AC:L/PR:L/UI:R/S:C/C:L/I:L/A:N

CWE: CWE-79

References:

- <https://github.com/smarty-php/smarty/releases/tag/v4.2.1>
- <https://github.com/smarty-php/smarty/releases/tag/v3.1.47>
- <https://bugs.gentoo.org/870100>

- <https://github.com/smarty-php/smarty/issues/454>
- <https://security.gentoo.org/glsa/202209-09>
- <https://lists.debian.org/debian-lts-announce/2023/01/msg00002.html>

Package: smarty/smarty

Version: 2.6.33

CVE: CVE-2023-28447

Title: Improper Neutralization of Input During Web Page Generation ('Cross-site Scripting')

Description: Smarty is a template engine for PHP. In affected versions smarty did not properly escape javascript code. An attacker could exploit this vulnerability to execute arbitrary JavaScript code in the context of the user's browser session. This may lead to unauthorized access to sensitive user data, manipulation of the web application's behavior, or unauthorized actions performed on behalf of the user. Users are advised to upgrade to either version 3.1.48 or to 4.3.1 to resolve this issue. There are no known workarounds for this vulnerability.

CVSS V2:

CVSS V3: CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:C/C:L/I:L/A:N

CWE: CWE-79

References:

- <https://github.com/smarty-php/smarty/security/advisories/GHSA-7j98-h7fp-4vwj>
- <https://github.com/smarty-php/smarty/commit/685662466f653597428966d75a661073104d713d>

Recommendation

It's recommended to update the vulnerable packages to the latest version (if a fix exists). If a fix does not exist, you may want to suggest changes that address the vulnerability to the package maintainer or remove the package from your dependency tree.

Outdated JavaScript libraries

You are using an outdated version of one or more JavaScript libraries. A more recent version is available. Although your version was not found to be affected by any security vulnerabilities, it is recommended to keep libraries up to date.

CWE

CWE-937

CVSS2

AV:N/AC:H/Au:N/C:N/I:N/A:N

Access Vector	Network
Access Complexity	High
Authentication	None
Confidentiality	None

CVSS3

CVSS:3.1/AV:N/AC:H/PR:N/UI:R/S:C/C:N/I:N/A:N

Base Score	0.0
Attack Vector	Network
Attack Complexity	High
Privileges Required	None

Integrity Impact	None
Availability Impact	None

User Interaction	Required
Scope	Changed
Confidentiality	None
Integrity Impact	None
Availability Impact	None

Impact

Consult References for more information.

<http://192.168.145.128/>

Verified

- jQuery UI Dialog 1.12.1

- URL: <http://192.168.145.128/openemr/public/assets/jquery-ui/jquery-ui.js>
- Detection method: The library's name and version were determined based on the file's contents. Acunetix verified the library version with the file's unique syntax fingerprint, which matched the syntax fingerprint expected by Acunetix.
- References:
 - <https://jqueryui.com/download/>

Request

```
GET /openemr/public/assets/jquery-ui/jquery-ui.js HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58addee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: aspectalerts;routes
Referer: http://192.168.145.128/openemr/Documentation/help_files/openemr_installation_help.php
Cookie: OpenEMR=d40D5DeY1SqGsUIMcMvd1XbnUvSB1S1%2CNIItqLcdHnpIKp4G
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

<http://192.168.145.128/>

Verified

- jQuery UI Tooltip 1.12.1

- URL: <http://192.168.145.128/openemr/public/assets/jquery-ui/jquery-ui.js>
- Detection method: The library's name and version were determined based on the file's contents. Acunetix verified the library version with the file's unique syntax fingerprint, which matched the syntax fingerprint

expected by Acunetix.

- References:

- <https://jqueryui.com/download/>

Request

```
GET /openemr/public/assets/jquery-ui/jquery-ui.js HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58addee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: aspectalerts;routes
Referer: http://192.168.145.128/openemr/Documentation/help_files/openemr_installation_help.php
Cookie: OpenEMR=d40D5DeY1SqGsuSImcMvd1XbnUvSB1S1%2CNIItqLcdHnpIKp4G
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

<http://192.168.145.128/>

Verified

- **jQuery UI Tooltip 1.11.4**

- URL: http://192.168.145.128/openemr/interface/forms/eye_mag/js/jquery-ui-1-11-4/jquery-ui.min.js
- Detection method: The library's name and version were determined based on the file's contents. Acunetix verified the library version with the file's unique syntax fingerprint, which matched the syntax fingerprint expected by Acunetix.
- References:
 - <https://jqueryui.com/download/>

Request

```
GET /openemr/interface/forms/eye_mag/js/jquery-ui-1-11-4/jquery-ui.min.js HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58addee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: aspectalerts;routes
Referer: http://192.168.145.128/openemr/interface/login_screen.php
Cookie: OpenEMR=2biStMm-fnsHdYMyYHQGKWzilsysHJvKUerLZszaOGdltFQQ
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

<http://192.168.145.128/>

Verified

- jQuery UI Tooltip 1.10.3

- URL: http://192.168.145.128/openemr/interface/modules/zend_modules/public/js/lib/jquery-ui.js
- Detection method: The library's name and version were determined based on the file's contents. Acunetix verified the library version with the file's unique syntax fingerprint, which matched the syntax fingerprint expected by Acunetix.
- References:
 - <https://jqueryui.com/download/>

Request

```
GET /openemr/interface/modules/zend_modules/public/js/lib/jquery-ui.js HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58addee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: aspectalerts;routes
Referer: http://192.168.145.128/openemr/interface/login_screen.php
Cookie: OpenEMR=2biStMm-fnsHdYMyYHQGKWzilsysHJvKUerLZszaOGdltFQQ
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

<http://192.168.145.128/>

Confidence: 95%

- Modernizr 2.6.2

- URL: http://192.168.145.128/openemr/interface/modules/zend_modules/public/js/lib/modernizr-2.6.2.min.js
- Detection method: The library's name and version were determined based on the file's name.
- References:
 - <https://github.com/Modernizr/Modernizr/releases>

Request

```
GET /openemr/interface/modules/zend_modules/public/js/lib/modernizr-2.6.2.min.js HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58addee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: aspectalerts;routes
Referer: http://192.168.145.128/openemr/interface/login_screen.php
Cookie: OpenEMR=2biStMm-fnsHdYMyYHQGKWzilsysHJvKUerLZszaOGdltFQQ
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
```

Accept-Encoding: gzip, deflate, br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive

Recommendation

Upgrade to the latest version.

A07 Identification and Authentication Failures

Application functions related to authentication and session management are often implemented incorrectly, allowing attackers to compromise passwords, keys, or session tokens, or to exploit other implementation flaws to assume other users' identities.

Unencrypted connection

This scan target was connected to over an unencrypted connection. A potential attacker can intercept and modify data sent and received from this site.

CWE

CWE-319

CVSS2

AV:N/AC:M/Au:N/C:P/I:P/A:N

Access Vector	Network
Access Complexity	Medium
Authentication	None
Confidentiality	Partial
Integrity Impact	Partial
Availability Impact	None

CVSS3

CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:U/C:L/I:L/A:N

Base Score	5.4
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	Required
Scope	Unchanged
Confidentiality	Low
Integrity Impact	Low
Availability Impact	None

Impact

Possible information disclosure.

Request

```
GET /openemr/public/assets/ HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58addee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: aspectalerts;routes
Referer: http://192.168.145.128/openemr/public/assets/
Cookie: OpenEMR=ShqPYxekgSvnztaqfRyqOJ2b-9njDrQM43HnaYAqgkzuKU15
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

Recommendation

The site should send and receive data over a secure (HTTPS) connection.

User credentials are sent in clear text

User credentials are transmitted over an unencrypted channel. This information should always be transferred via an encrypted channel (HTTPS) to avoid being intercepted by malicious users.

CWE

CWE-523

CVSS2

AV:N/AC:L/Au:N/C:P/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	Partial
Integrity Impact	None
Availability Impact	None

CVSS3

CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:U/C:L/I:N/A:N

Base Score	4.3
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	Required
Scope	Unchanged
Confidentiality	Low
Integrity Impact	None
Availability Impact	None

Impact

A third party may be able to read the user credentials by intercepting an unencrypted HTTP connection.

<http://192.168.145.128/>

Forms with credentials sent in clear text:

- <http://192.168.145.128/openemr/interface/login/login.php>

```
Form name: login_form
Form action: ../main/main_screen.php?auth=login&site=default
Form method: POST
Password input: clearPass
```

Request

```
GET /openemr/interface/login/login.php?site=default HTTP/1.1
Host: 192.168.145.128
Pragma: no-cache
Cache-Control: no-cache
accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9
accept-language: en-US
upgrade-insecure-requests: 1
Accept-Encoding: gzip, deflate, br
Connection: keep-alive
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
```

Recommendation

Because user credentials are considered sensitive information, should always be transferred to the server over an encrypted connection (HTTPS).

A08 Software and Data Integrity Failures

Software and data integrity failures relate to code and infrastructure that does not protect against integrity violations. An example of this is where an application relies upon plugins, libraries, or modules from untrusted sources, repositories, and content delivery networks (CDNs). An insecure CI/CD pipeline can introduce the potential for unauthorized access, malicious code, or system compromise. Lastly, many applications now include auto-update functionality, where updates are downloaded without sufficient integrity verification and applied to the previously trusted application. Attackers could potentially upload their own updates to be distributed and run on all installations. Another example is where objects or data

are encoded or serialized into a structure that an attacker can see and modify is vulnerable to insecure deserialization.

PHP allow_url_fopen enabled

The PHP configuration directive allow_url_fopen is enabled. When enabled, this directive allows data retrieval from remote locations (web site or FTP server). A large number of code injection vulnerabilities reported in PHP-based web applications are caused by the combination of enabling allow_url_fopen and bad input filtering.

allow_url_fopen is enabled by default.

CWE

CWE-829

CVSS2

AV:N/AC:L/Au:N/C:N/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	None
Integrity Impact	None
Availability Impact	None

CVSS3

CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:C/C:N/I:N/A:N

Base Score	0.0
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	None
Scope	Changed
Confidentiality	None
Integrity Impact	None
Availability Impact	None

Impact

Application dependant - possible remote file inclusion.

<http://192.168.145.128/>



Verified

Current setting is : allow_url_fopen = **on**

Observed on /openemr/interface/main/main_screen.php

Recommendation

You can disable allow_url_fopen from either php.ini (for PHP versions newer than 4.3.4) or .htaccess (for PHP versions up to 4.3.4).

php.ini

allow_url_fopen = 'off'

.htaccess

php_flag allow_url_fopen off

References

[Runtime Configuration](#)

<https://www.php.net/manual/en/filesystem.configuration.php>

Subresource Integrity (SRI) not implemented

Subresource Integrity (SRI) is a security feature that enables browsers to verify that third-party resources they fetch (for example, from a CDN) are delivered without unexpected manipulation. It works by allowing developers to provide a cryptographic hash that a fetched file must match.

Third-party resources (such as scripts and stylesheets) can be manipulated. An attacker that has access or has hacked the hosting CDN can manipulate or replace the files. SRI allows developers to specify a base64-encoded cryptographic hash of the resource to be loaded. The integrity attribute containing the hash is then added to the <script> HTML element tag. The integrity string consists of a base64-encoded hash, followed by a prefix that depends on the hash algorithm. This prefix can either be sha256, sha384 or sha512.

The script loaded from the external URL specified in the Details section doesn't implement Subresource Integrity (SRI). It's recommended to implement Subresource Integrity (SRI) for all the scripts loaded from external hosts.

CWE

CWE-830

CVSS2

AV:N/AC:L/Au:N/C:N/I:N/A:N

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	None
Integrity Impact	None
Availability Impact	None

CVSS3

CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:C/C:N/I:N/A:N

Base Score	0.0
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	None
Scope	Changed
Confidentiality	None
Integrity Impact	None
Availability Impact	None

Impact

An attacker that has access or has hacked the hosting CDN can manipulate or replace the files.

<http://192.168.145.128/openemr/public/assets/checklist-model/>

Pages where SRI is not implemented:

- http://192.168.145.128/openemr/public/assets/checklist-model/
Script SRC: <https://cdnjs.cloudflare.com/ajax/libs/angular.js/1.4.8/angular.js>
- http://192.168.145.128/openemr/public/assets/checklist-model/
Script SRC: https://cdn.rawgit.com/google/code-prettify/master/loader/run_prettify.js

Request

```
GET /openemr/public/assets/checklist-model/ HTTP/1.1
Acunetix-Aspect: enabled
Acunetix-Aspect-Password: d4d608fef00a58addee3950d33ced68a7
Acunetix-Aspect-ScanID: 1655702786608078775
Acunetix-Aspect-Queries: aspectalerts;routes
Referer: http://192.168.145.128/openemr/public/assets/
Cookie: OpenEMR=g3GhfkD5xIsb3Ge5m8KYxfe43LFtvIbo%2CVxmCKL9iQGY052L
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/109.0.0.0 Safari/537.36
Host: 192.168.145.128
Connection: Keep-alive
```

Recommendation

Use the SRI Hash Generator link (from the References section) to generate a <script> element that implements Subresource Integrity (SRI).

For example, you can use the following <script> element to tell a browser that before executing the <https://example.com/example-framework.js> script, the browser must first compare the script to the expected hash, and verify that there's a match.

```
<script src="https://example.com/example-framework.js"
integrity="sha384-oqVuAfxRKap7fdgcCY5uykM6+R9GqQ8K/uxy9rx7HNQ1GY11kPzQholwx4JwY8wC"
crossorigin="anonymous"></script>
```

References

[Subresource Integrity](#)

https://developer.mozilla.org/en-US/docs/Web/Security/Subresource_Integrity

A09 Security Logging and Monitoring Failures

Insufficient logging and monitoring, coupled with missing or ineffective integration with incident response, allows attackers to further attack systems, maintain persistence, pivot to more systems, and tamper, extract, or destroy data. Most breach studies show time to detect a breach is over 200 days, typically detected by external parties rather than internal processes or monitoring.

No alerts in this category

A10 Server-Side Request Forgery

SSRF flaws occur whenever a web application is fetching a remote resource without validating the user-supplied URL. It allows an attacker to coerce the application to send a crafted request to an unexpected destination, even when protected by a firewall, VPN, or another type of network access control list (ACL).

No alerts in this category

Coverage

http://192.168.145.128
1
interface
product_registration
product_registration_controller.php
icons
interface
forms
fee_sheet
contraception_products
css
contraception_products.css
js
view_model.js
questionnaire_assessments
lforms
fhir
R4
lformsFHIR.min.js
webcomponent
assets
lib
zone.min.js
main-es2015.js
polyfills-es2015.js
runtime-es2015.js
scripts.js
styles.css
product_registration
product_registration_controller.php
Inputs

POST , email

library

ajax

 user_settings.php

 Inputs

POST , csrf_token_form, setting, target

openemr

bin

config

Documentation

 help_files

 add_edit_transactions_dashboard_help.php

 Inputs

GET site

 adminacl_help.php

 Inputs

GET site

 cms_1500_help.php

 common_help.php

 Inputs

GET site

 configure_orders_help.php

 Inputs

GET site

 cqm_amc_help.php

 Inputs

GET site

 fee_sheet_help.php

 history_dashboard_help.php

 issues_dashboard_help.php

 ledger_dashboard_help.php

 medical_dashboard_help.php

 message_center_help.php

	#fragments
	medex_communication_service
	messages
	recalls
	reminders
	mfa_help.php
	openemr_installation_help.php
	#fragments
	main-list
	section1
	section10
	section11
	section12
	section2
	section3
	section4
	section5
	section6
	section7
	section8
	section9
	openemr_multisite_admin_help.php
	procedure_provider_help.php
	Inputs
	GET site
	report_dashboard_help.php
	sl_eob_help.php
	template_maintenance_help.php
	transactions_dashboard_help.php
	IPPF_Guides
	privileged_db
	de_identification_readme.txt
	Direct_Messaging_README.txt

Emergency_User_README.txt
 INSTALL
 Readme_edihistory.html
 README-Log-Backup.txt
 README.phpgacl
 SystemArchitecture.txt

interface

batchcom
 batchcom.inc.php

billing
 billing_process.php
 billing_report.php
 billing_tracker.php
 clear_log.php
 customize_log.php
 Inputs
 GET site

edi_270.php
 Inputs
 GET site

edi_271.php
 edih_main.php
 Inputs
 GET site

edih_view.php
 Inputs
 GET site

edit_payment.php
 era_payments.php
 Inputs
 GET site

get_claim_file.php
 indigent_patients_report.php

-  new_payment.php
-  payment_master.inc.php
-  print_billing_report.php
-  print_daysheet_report_num1.php
-  print_daysheet_report_num2.php
-  print_daysheet_report_num3.php
-  search_payments.php
-  sl_eob_invoice.php
-  sl_eob_patient_note.php
-  sl_eob_process.php
-  sl_eob_search.php
-  sl_receipts_report.php
-  ub04_codes.inc.php
-  ub04_dispose.php
-  ub04_form.php
-  ub04_helpers.php
-  ub04_submit.php
-  clickmap
 -  template
 -  {\$form-%3Etemplate_dir}
 -  css
 -  clickmap.css
 -  clickmap.css
 -  {\$form-%3Eimage}
 -  {\$form-%3EsaveAction}
 -  Inputs
 -  POST data, id, pid, process
 -  {php}echo%20\$GLOBALS['webroot']
 -  Inputs
 -  GET
 -  general_new.html
-  AbstractClickmapModel.php



Inputs

GET site



C_AbstractClickmap.php



couchdb



couchdb_log.php



de_identification_forms



de_identification_procedure.sh



re_identification_procedure.sh



drugs



add_edit_drug.php



add_edit_lot.php



destroy_lot.php



dispense_drug.php



drug_inventory.php



Inputs

GET site



forms



aftercare_plan



info.txt



new.php



Inputs

GET site



report.php



Inputs

GET site



save.php



Inputs

GET site



table.sql



view.php



Inputs

GET site



ankleinjury

 info.txt	
 new.php	
 Inputs	
	 site
 report.php	
 Inputs	
	 site
 save.php	
 table.sql	
 view.php	
 Inputs	
	 site
 bronchitis	
 info.txt	
 new.php	
 Inputs	
	 site
 report.php	
 Inputs	
	 site
 save.php	
 Inputs	
	 site
 table.sql	
 view.php	
 Inputs	
	 site
 CAMOS	
 admin.php	
 ajax_save.php	
 Inputs	
	 site
 CAMOS.css	

 help.html
 #fragments
 admin
 advanced
 basic
 intro
 rx
 top
 troubleshooting
 info.txt
 new.php
 Inputs
 site
 notegen.php
 Inputs
 site
 print.php
 Inputs
 site
 README.txt
 report.php
 Inputs
 site
 rx_print.php
 Inputs
 site
 rx.css
 save.php
 Inputs
 site
 table_no_data.sql
 table.sql
 view.php



Inputs

GET site



care_plan



careplan.js



info.txt



new.php



GET site



save.php



GET site



table.sql



view.php



clinic_note



info.txt



new.php



GET site



report.php



GET site



table.sql



view.php



GET site



clinical_instructions



info.txt



new.php



GET site



report.php



GET site

 save.php	
 Inputs	
	 site
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 table.sql	
 view.php	
 Inputs	
	 site
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 clinical_notes	
 info.txt	
 new.php	
 report.php	
 Inputs	
	 site
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 save.php	
 Inputs	
	 site
<hr/>	
 table.sql	
 view.php	
 Inputs	
	 site
<hr/>	
 dictation	
 info.txt	
 new.php	
 Inputs	
	 site
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 report.php	
<hr/>	
 save.php	
 Inputs	
	 site
<hr/>	
 view.php	
 Inputs	
	 site
<hr/>	
 eye_mag	

 css
 images
 report.css
 style.css
 images
 js
 jquery-1-10-2
 jquery.min.js
 jquery-panelslider
 jquery.panelslider.min.js
 jquery-ui-1-11-4
 jquery-ui.min.js
 shortcut.js-2-01-B
 shortcut.js
 canvasdraw.js
 eye_base.php
 Inputs
 site
 shorthand_eye.js
 login
 login.php
 Inputs
 site
 a_issue.php
 Inputs
 site
 help.php
 Inputs
 site
 info.txt
 new.php
 Inputs
 site

 report.php	
 Inputs	
	 site
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 save.php	
 Inputs	
	 site
<hr/>	
 SpectacleRx.php	
 taskman.php	
 Inputs	
	 site
<hr/>	
 view.php	
 Inputs	
	 site
<hr/>	
 fee_sheet	
 code_choice	
 css	
 code_choices.css	
 js	
 view_model.js	
<hr/>	
 contraception_products	
 ajax	
 find_contraception_products.php	
 Inputs	
	 site
<hr/>	
 css	
 contraception_products.css	
 js	
 view_model.js	
<hr/>	
 login	
 login.php	
 Inputs	
	 site
<hr/>	
 templates	
 contraception_products.php	

	 initialize_contraception_products.php
 login	 login.php
	 Inputs
	 site
 review	
	 js
	 fee_sheet_core.js
 views	
	 procedure_select.php
	 review.css
	 code_check.php
	 fee_sheet_ajax.php
	 Inputs
	 site
	 fee_sheet_justify_view_model.js
	 fee_sheet_justify.php
	 Inputs
	 site
	 fee_sheet_options_ajax.php
	 Inputs
	 site
	 fee_sheet_options_queries.php
	 fee_sheet_review_view_model.js
	 fee_sheet_search_ajax.php
	 Inputs
	 site
	 initialize_review.js
	 codes.php
	 fee_sheet_customization.ods
	 info.txt
	 new.php
	 Inputs

	 site
 report.php	
 Inputs	
	 site
 table.sql	
 view.php	
 Inputs	
	 site
 forms	
 eye_mag	
 images	
 functional_cognitive_status	
 info.txt	
 new.php	
 Inputs	
	 site
 report.php	
 Inputs	
	 site
 save.php	
 Inputs	
	 site
 table.sql	
 view.php	
 Inputs	
	 site
 gad7	
 gad7_javasrc.js	
 gad7.inc.php	
 Inputs	
	 site
 info.txt	
 new.php	

 Inputs	
	 site
 report.php	
 Inputs	
	 site
 save.php	
 Inputs	
	 site
 table.sql	
 view.php	
 Inputs	
	 site
 group_attendance	
 info.txt	
 new.php	
 Inputs	
	 site
 report.php	
 Inputs	
	 site
 save.php	
 table.sql	
 view.php	
 Inputs	
	 site
 LBF	
 new.php	
 printable.php	
 report.php	
 Inputs	
	 site
 view.php	
 Inputs	
	 site

 login
 login.php
 Inputs
 site

 misc_billing_options
 info.txt
 new.php
 Inputs
 site

 report.php
 Inputs
 site

 save.php
 Inputs
 site

 table.sql
 view.php
 Inputs
 site

 newGroupEncounter
 info.txt
 new.php
 Inputs
 site

 report.php
 Inputs
 site

 save.php
 Inputs
 site

 view.php
 Inputs
 site

 newpatient	
 info.txt	
 new.php	
 Inputs	
	 site
 report.php	
 Inputs	
	 site
 save.php	
 Inputs	
	 site
 view.php	
 note	
 info.txt	
 new.php	
 Inputs	
	 site
 print.php	
 report.php	
 Inputs	
	 site
 save.php	
 Inputs	
	 site
 table.sql	
 view.php	
 Inputs	
	 site
 observation	
 info.txt	
 new.php	
 Inputs	
	 site
 observation.js	

 report.php
 Inputs
 site

 save.php
 Inputs
 site

 table.sql
 view.php
 Inputs
 site

 painmap
 templates
 README.TXT

 info.txt
 new.php
 Inputs
 site

 report.php
 Inputs
 site

 save.php
 Inputs
 site

 table.sql
 view.php
 Inputs
 site

 physical_exam
 edit_diagnoses.php

 info.txt
 new.php
 Inputs
 site

 report.php	
 Inputs	 site
<hr/>	
 table.sql	
 view.php	
 Inputs	
	 site
<hr/>	
 prior_auth	
 templates	
 prior_auth	
 {\$FORM_ACTION}	
 interface	
 forms	
 prior_auth	
 save.php	
 Inputs	
	 Submit, activity, comments, csrf_token_form, date_from, date_to, id, pid, prior_auth_number, process
	 csrf_token_form, prior_auth_number, date_from, date_to, comments, id, activity, pid, process
<hr/>	
 general_new.html	
<hr/>	
 info.txt	
 new.php	
 Inputs	
	 site
<hr/>	
 report.php	
 Inputs	
	 site
<hr/>	
 save.php	
 Inputs	
	 site
<hr/>	
 table.sql	
<hr/>	
 view.php	
 Inputs	

GET site

procedure_order

common.php

delete.php

info.txt

new.php

Inputs

GET site

report.php

Inputs

GET site

table.sql

view.php

Inputs

GET site

questionnaire_assessments

lforms

fhir

R4

lformsFHIR.min.js

STU3

lformsFHIR.min.js

lformsFHIRAll.min.js

webcomponent

assets

lib

zone.min.js

lh-forms.es2015.js

lh-forms.es5.js

main-es2015.js

main-es5.js

polyfills-es2015.js

polyfills-es5.js

 runtime-es2015.js
 runtime-es5.js
 scripts.js
 styles.css
 LICENSE.md
 README.md
 info.txt
 lform_webcomponents.php
 new.php
 Inputs
 site
 patient_portal.php
 Inputs
 site
 questionnaire_assessments.php
 Inputs
 site
 save.php
 Inputs
 site
 view.php
 Inputs
 site
 requisition
 barcode.php
 info.txt
 new.php
 Inputs
 site
 table.sql
 view.php
 Inputs
 site

reviewofs
info.txt
new.php
GET site
report.php
GET site
save.php
GET site
table.sql
view.php
GET site
ros
templates
ros
{\$FORM_ACTION}
interface
forms
ros
save.php
POST Submit, csrf_token_form, id, pid, process
POST csrf_token_form, id, pid, process
general_new.html
info.txt
new.php
GET site
report.php
save.php

	GET	site
		table.sql
		view.php
		Inputs
	GET	site
		sdoh
		info.txt
		new.php
		Inputs
	GET	site
		patient_portal.php
		report.php
		save.php
		Inputs
	GET	site
		table.sql
		view.php
		Inputs
	GET	site
		soap
		templates
		{\$FORM_ACTION}
		interface
		forms
		soap
		save.php
		Inputs
	POST	Submit, activity, assessment, csrf_token_form, id, objective, pid, plan, process, subjective
	POST	csrf_token_form, subjective, objective, assessment, plan, id, activity, pid, process
		general_new.html
		info.txt
		new.php

 Inputs	
	 site
 report.php	
 Inputs	
	 site
 save.php	
 Inputs	
	 site
 table.sql	
 view.php	
 Inputs	
	 site
 trackAnything	
 create.php	
 history.php	
 Inputs	
	 site
 info.txt	
 new.php	
 Inputs	
	 site
 readme.txt	
 report.js	
 report.php	
 Inputs	
	 site
 style.css	
 table.sql	
 view.php	
 Inputs	
	 site
 transferSummary	
 info.txt	

 new.php		
 Inputs		
	 GET	site
<hr/>		
 report.php		
 Inputs		
	 GET	site
<hr/>		
 save.php		
 Inputs		
	 GET	site
<hr/>		
 table.sql		
<hr/>		
 view.php		
 Inputs		
	 GET	site
<hr/>		
 treatment_plan		
 info.txt		
<hr/>		
 new.php		
 Inputs		
	 GET	site
<hr/>		
 report.php		
 Inputs		
	 GET	site
<hr/>		
 save.php		
 Inputs		
	 GET	site
<hr/>		
 table.sql		
<hr/>		
 view.php		
 Inputs		
	 GET	site
<hr/>		
 vitals		
 growthchart		
 chart.php		
 Inputs		
	 GET	site
<hr/>		
 page1.css		

page2.css
login
login.php
Inputs
site
templates
summary
demographics.php
vitals
{{%20FORM_ACTION attr%20}}
interface
forms
vitals
save.php
Inputs
Submit, activity, csrf_token_form, date, id, pid, process, uuid
csrf_token_form, date, id, uuid, activity, pid, process
vitals.css
vitals.js
vitals_actions.html.twig
vitals_bmi_status.html.twig
vitals_bmi.html.twig
vitals_growthchart_actions.html.twig
vitals_historical_values_complete.html.twig
#fragments
vitals-screen-top
vitals_historical_values.html.twig
vitals_interpretation_selector.html.twig
vitals_notes.html.twig
vitals_reason_row.html.twig
vitals_temp_method.html.twig
vitals_textbox_conversion.html.twig
vitals_textbox.html.twig

	vitals.html.twig
	#fragments
	# patient-vitals-history
	info.txt
	new.php
	Inputs
	GET site
	report.php
	Inputs
	GET site
	save.php
	Inputs
	GET site
	table.sql
	view.php
	Inputs
	GET site
	vitals.css
	vitals.js
img	
language	
csv	
load_csv_file.php	
translation_utilities.php	
validate_csv.php	
lang_constant.php	
lang_definition.php	
lang_language.php	
lang_manage.php	
lang.info.html	
language.inc.php	
login	
login.php	



Inputs

GET site

logview

erx_logview.php

logview.php

main

calendar

includes

pnAPI.php

pnHTML.php

pnMod.php

modules

PostCalendar

plugins

function.pc_date_select.php

function.pc_filter.php

function.pc_form_nav_close.php

function.pc_form_nav_open.php

function.pc_popup.php

function.pc_sort_events.php

function.pc_url.php

function.pc_view_select.php

pnincludes

Date

Calc.php

AnchorPosition.js

ColorPicker2.js

index.htm

overlib_mini.js

PopupWindow.js

pnlang

eng

index.htm

pntemplates

default

admin

modules

[-\$pcDir-]

pnincludes

AnchorPosition.js

ColorPicker2.js

PopupWindow.js

[-\$action-]

Inputs

POST [-\$InputACO|attr-]], [-\$InputAllDay|attr-][-literal-][[-/literal-]
 [-\$cat.id|attr-][-literal-]][-/literal-], [-\$InputCatType|attr-]],
 [-\$InputDurationHour|attr-][-literal-][[-/literal-][\$cat.id|attr-][-literal-]][-/literal-],
 [-\$InputDurationMin|attr-][-literal-][[-/literal-][\$cat.id|attr-][-literal-]][-/literal-],
 active[-literal-][[-/literal-][\$cat.id|attr-][-literal-]][-/literal-], color[], constantid[],
 del[], desc[], id[], name[], new[-\$InputACO|attr-], new[-\$InputAllDay|attr-],
 new[-\$InputCatType|attr-], new[-\$InputDurationHour|attr-],
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 new[-\$InputEndDateFreq|attr-], new[-\$InputEndOn|attr-],
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 new[-\$InputRepeatFreq|attr-], new[-\$InputRepeatOnDay|attr-],
 new[-\$InputRepeatOnFreq|attr-], new[-\$InputRepeatOnNum|attr-],
 new[-\$InputRepeatOn|attr-], new[-\$InputRepeat|attr-], newactive, newcolor,
 newconstantid, newdesc, newid, newname, newsequence, sequence[],
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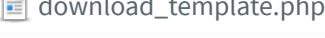
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 login.php

 Inputs

 GET site

 modules

 portal

 images

 login

 login.php

 Inputs

 GET site

 messaging

 messages.php

 Inputs

 GET site

 secure_chat.php

 Inputs

 GET site

 public

 assets

 @eastdesire

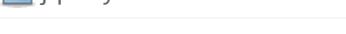
 @fortawesome

 fontawesome-free

 css

 all.min.css

 scss
 brands
 fontawesome
 regular
 solid
 webfonts
 @ttskch
 angular-sanitize
 angular
 backbone
 bootstrap-rtl
 bootstrap
 dist
 css
 bootstrap.min.css
 js
 bootstrap.bundle.js
 bootstrap.bundle.min.js
 bootstrap.js
 bootstrap.min.js
 scss
 vendor
 rfs
 bootswatch
 chart.js
 checklist-model
 docs
 img
 app.js
 main.css
 checklist-model.js
 ckeditor4
 datatables.net-bs4

 datatables.net-colreorder-dt
 datatables.net-colreorder
 datatables.net-dt
 datatables.net-jqui
 datatables.net-scroller-jqui
 datatables.net-scroller
 datatables.net
 dropzone
 dvw
 flot
 hotkeys-js
 dist
 hotkeys.min.js
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 i18next-xhr-backend
<hr/>
 i18next
 dist
 umd
 i18next.min.js
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 interactjs
 jquery-creditcardvalidator
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 jquery-datetimepicker
 build
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 jquery.datetimepicker.min.css
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 node_modules
 jquery-mousewheel
 jquery.mousewheel.js
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 php-date-formatter
 js
 php-date-formatter.min.js
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 bower.json
 jquery.datetimepicker.css

	 jquery.datetimepicker.js
	 jquery.js
	 package.json
	 README.md
	 jquery-panelslider
	 jquery-ui-themes
	 jquery-ui
	 #fragments
	 tabs-1
	 tabs-2
	 tabs-3
	 Inputs
	 radio  GET
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	 ui-icons_444444_256x240.png"
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	 ui-icons_ffffff_256x240.png"
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	 jquery
	 jquery.js
	 images
	 jquery-ui.css
	 jquery-ui.js
	 jquery-validation
	 jquery
	 dist
	 jquery.js
	 jquery.min.js
	 jquery.slim.js
	 jquery.slim.min.js

jspdf
jszip
knockout
build
output
knockout-latest.debug.js
knockout-latest.js
konva
literallycanvas
magic-wand-js
modified
moment
min
moment.min.js
moment.js
numeral
purecss
react
select2
dist
css
select2.min.css
js
select2.full.min.js
sortablejs
underscore
validate.js
ckeditor4
images
themes
style_light.css
tabs_style_full.css
sql

 src

 templates

 tests

 vendor