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://10.22.169.100:80/
Scan Type	Full Scan
Start Time	Nov 4, 2025, 3:12:12 PM GMT
Scan Duration	11 minutes
Requests	22570
Average Response Time	1ms
Maximum Response Time	122782ms
Application Build	v24.6.240626115
Authentication Profile	-

Compliance at a Glance

CATEGORY	
4	A01 Broken Access Control
6	A02 Cryptographic Failures
2	A03 Injection
2	A04 Insecure Design
4	A05 Security Misconfiguration
13	A06 Vulnerable and Outdated Components
2	A07 Identification and Authentication Failures
0	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.

[Possible] Internal IP Address Disclosure

One or more strings matching an internal IPv4 address were found. These IPv4 addresses may disclose information about the IP addressing scheme of the internal network. This information can be used to conduct further attacks.

The significance of this finding should be confirmed manually.

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

CVSS4
CVSS:4.0/AV:N/AC:L/AT:N/PR:N/UI:N/VC:L/VI:N/VA:N/SC:N/SI:N/SA:N

Base Score	6.9
Attack Vector	Network
Attack Complexity	Low
Attack Requirements	None
Privileges Required	None
User Interaction	None
Confidentiality Impact to the Vulnerable System	Low
Integrity Impact to the Vulnerable System	None
Availability Impact to the Vulnerable System	None
Confidentiality Impact to the Subsequent System	None
Integrity Impact to the Subsequent System	None
Availability Impact to the Subsequent System	None

Impact

Possible sensitive information disclosure.

http://10.22.169.100/

Pages with internal IPs:

- http://10.22.169.100/cgi-bin/test.cgi
  10.22.169.33

Request

```
GET /cgi-bin/test.cgi HTTP/1.1
Referer: https://www.google.com/search?hl=en&q=testing
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/125.0.0.0 Safari/537.36
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
Host: 10.22.169.100
Connection: Keep-alive
```

Recommendation

Prevent this information from being displayed to the user.

Generic Email Address Disclosure

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

CVSS4
CVSS:4.0/AV:N/AC:L/AT:N/PR:N/UI:N/VC:N/VI:N/VA:N/SC:N/SI:N/SA:N

Base Score	0.0
Attack Vector	Network
Attack Complexity	Low
Attack Requirements	None
Privileges Required	None
User Interaction	None
Confidentiality Impact to the Vulnerable System	None
Integrity Impact to the Vulnerable System	None
Availability Impact to the Vulnerable System	None
Confidentiality Impact to the Subsequent System	None
Integrity Impact to the Subsequent System	None
Availability Impact to the Subsequent System	None

Impact

Email addresses posted on Web sites may attract spam.

http://10.22.169.100/

Emails found:

- http://10.22.169.100/
  ex@abc.xyz
- http://10.22.169.100/index
  ex@abc.xyz
- http://10.22.169.100/index.html
  ex@abc.xyz

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/125.0.0.0 Safari/537.36
Host: 10.22.169.100
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

Apache httpOnly cookie disclosure

Apache HTTP Server 2.2.x through 2.2.21 does not properly restrict header information during construction of Bad Request (aka 400) error documents, which allows remote attackers to obtain the values of HTTPOnly cookies via vectors involving a (1) long or (2) malformed header in conjunction with crafted web script.

Affected Apache versions (up to 2.0.21).

CWE
CWE-264

CVSS2
AV:N/AC:M/Au:N/C:P/I:N/A:N/E:F/RL:OF/RC:C

Access Vector	Network
Access Complexity	Medium
Authentication	None
Confidentiality	Partial
Integrity Impact	None
Availability Impact	None
Exploitability	Functional exploit exists
Remediation Level	Official Fix
Report Confidence	Confirmed

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

CVSS4
CVSS:4.0/AV:N/AC:L/AT:N/PR:N/UI:A/VC:L/VI:N/VA:N/SC:N/SI:

Base Score	5.1
Attack Vector	Network
Attack Complexity	Low
Attack Requirements	None
Privileges Required	None
User Interaction	Active
Confidentiality Impact to the Vulnerable System	Low
Integrity Impact to the Vulnerable System	None
Availability Impact to the Vulnerable System	None
Confidentiality Impact to the Subsequent System	None
Integrity Impact to the Subsequent System	None
Availability Impact to the Subsequent System	None

Impact

Information disclosure.

http://10.22.169.100/

Pattern found:

```
<pre>
Cookie: testingCookie=AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
```

Request

```
GET / HTTP/1.1
Cookie:
testingCookie=AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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AAAA
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/125.0.0.0 Safari/537.36
Host: 10.22.169.100
Connection: Keep-alive
```

Recommendation

Upgrade Apache 2.x to the latest version. Apache 2.2.22 is the first version that fixed this issue.

References

[Fixed in Apache httpd 2.2.22](http://httpd.apache.org/security/vulnerabilities_22.html)
http://httpd.apache.org/security/vulnerabilities_22.html

[Apache HTTP Server 'httpOnly' Cookie Information Disclosure Vulnerability](https://www.securityfocus.com/bid/51706)
https://www.securityfocus.com/bid/51706

Apache mod_negotiation filename bruteforcing

mod_negotiation is an Apache module responsible for selecting the document that best matches the clients capabilities, from one of several available documents. If the client provides an invalid Accept header, the server will respond with a 406 Not Acceptable error containing a pseudo directory listing. This behaviour can help an attacker to learn more about his target, for example, generate a list of base names, generate a list of interesting extensions, look for backup files and so on.

CWE
CWE-538

CVSS2
AV:N/AC:L/Au:N/C:P/I:N/A:N/E:POC/RL:W/RC:UR

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	Partial
Integrity Impact	None
Availability Impact	None
Exploitability	Proof of concept code
Remediation Level	Workaround
Report Confidence	Uncorroborated

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

CVSS4
CVSS:4.0/AV:N/AC:L/AT:N/PR:N/UI:N/VC:L/VI:N/VA:N/SC:N/

Base Score	6.9
Attack Vector	Network
Attack Complexity	Low
Attack Requirements	None
Privileges Required	None
User Interaction	None
Confidentiality Impact to the Vulnerable System	Low
Integrity Impact to the Vulnerable System	None
Availability Impact to the Vulnerable System	None

Confidentiality Impact to the Subsequent System	None
Integrity Impact to the Subsequent System	None
Availability Impact to the Subsequent System	None

Impact

Possible information disclosure: directory listing, filename bruteforcing, backup files.

http://10.22.169.100/

Pattern found:

```
<title>406 Not Acceptable</title>
```

Request

```
GET /index HTTP/1.1
Accept: ofmosdfo/gskc
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/125.0.0.0 Safari/537.36
Host: 10.22.169.100
Connection: Keep-alive
```

Recommendation

Disable the MultiViews directive from Apache's configuration file and restart Apache.
You can disable MultiViews by creating a **.htaccess** file containing the following line:

```
Options -Multiviews
```

References

mod_negotiation: directory listing, filename bruteforcing
http://www.ush.it/2008/07/02/mod_negotiation-directory-listing-filename-bruteforcing/

Multiviews Apache, Accept Requests and free listing
http://www.wisec.it/sectou.php?id=4698ebdc59d15

Apache Module mod_negotiation
http://httpd.apache.org/docs/2.2/mod/mod_negotiation.html

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).

Apache httpOnly cookie disclosure

Apache HTTP Server 2.2.x through 2.2.21 does not properly restrict header information during construction of Bad Request (aka 400) error documents, which allows remote attackers to obtain the values of HTTPOnly cookies via vectors involving a (1) long or (2) malformed header in conjunction with crafted web script.

Affected Apache versions (up to 2.0.21).

CWE
CWE-264

CVSS2
AV:N/AC:M/Au:N/C:P/I:N/A:N/E:F/RL:OF/RC:C

Access Vector	Network
Access Complexity	Medium
Authentication	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

CVSS4
CVSS:4.0/AV:N/AC:L/AT:N/PR:N/UI:A/VC:L/VI:N/VA:N/SC:N/SI:N

Base Score	5.1
Attack Vector	Network
Attack Complexity	Low
Attack Requirements	None

Confidentiality	Partial
Integrity Impact	None
Availability Impact	None
Exploitability	Functional exploit exists
Remediation Level	Official Fix
Report Confidence	Confirmed

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

Privileges Required	None
User Interaction	Active
Confidentiality Impact to the Vulnerable System	Low
Integrity Impact to the Vulnerable System	None
Availability Impact to the Vulnerable System	None
Confidentiality Impact to the Subsequent System	None
Integrity Impact to the Subsequent System	None
Availability Impact to the Subsequent System	None

Impact

Information disclosure.

http://10.22.169.100/

Pattern found:

```
<pre>
Cookie: testingCookie=AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
```

Request

```
GET / HTTP/1.1
Cookie:
testingCookie=AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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AAAA
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/125.0.0.0 Safari/537.36
Host: 10.22.169.100
Connection: Keep-alive
```

Recommendation

Upgrade Apache 2.x to the latest version. Apache 2.2.22 is the first version that fixed this issue.

References

[Fixed in Apache httpd 2.2.22]
http://httpd.apache.org/security/vulnerabilities_22.html

[Apache HTTP Server 'httpOnly' Cookie Information Disclosure Vulnerability]
https://www.securityfocus.com/bid/51706

Test CGI script leaking environment variables

A test CGI (Common Gateway Interface) script was found on this server. The response page returned by this CGI script is leaking a list of server environment variables.

Environment variables are a set of dynamic named values that can affect the way running processes will behave on a computer. For example, an environment variable with a standard name can designate the location that a particular computer system uses to store temporary files but this may vary from one computer system to another.

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

CVSS4
CVSS:4.0/AV:N/AC:L/AT:N/PR:N/UI:N/VC:L/VI:N/VA:N/SC:N/SI:N/SA:N

Base Score	6.9
Attack Vector	Network
Attack Complexity	Low
Attack Requirements	None
Privileges Required	None
User Interaction	None
Confidentiality Impact to the Vulnerable System	Low
Integrity Impact to the Vulnerable System	None
Availability Impact to the Vulnerable System	None
Confidentiality Impact to the Subsequent System	None
Integrity Impact to the Subsequent System	None
Availability Impact to the Subsequent System	None

Impact

Environment variables may leak sensitive information to a potential attacker. An attacker can use this information to conduct further attacks.

http://10.22.169.100/

Filename: **/cgi-bin/test.cgi**

Request

```
GET /cgi-bin/test.cgi 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/125.0.0.0 Safari/537.36
Host: 10.22.169.100
Connection: Keep-alive
```

Recommendation

Restrict access to this CGI file or remove it from your system.

[Possible] Internal IP Address Disclosure

One or more strings matching an internal IPv4 address were found. These IPv4 addresses may disclose information about the IP addressing scheme of the internal network. This information can be used to conduct further attacks.

The significance of this finding should be confirmed manually.

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

CVSS4
CVSS:4.0/AV:N/AC:L/AT:N/PR:N/UI:N/VC:L/VI:N/VA:N/SC:N/SI:N/SA:N

Base Score	6.9
Attack Vector	Network
Attack Complexity	Low
Attack Requirements	None
Privileges Required	None
User Interaction	None
Confidentiality Impact to the Vulnerable System	Low
Integrity Impact to the Vulnerable System	None
Availability Impact to the Vulnerable System	None
Confidentiality Impact to the Subsequent System	None
Integrity Impact to the Subsequent System	None
Availability Impact to the Subsequent System	None

Impact

Possible sensitive information disclosure.

http://10.22.169.100/

Pages with internal IPs:

- http://10.22.169.100/cgi-bin/test.cgi
  10.22.169.33

Request

```
GET /cgi-bin/test.cgi HTTP/1.1
Referer: https://www.google.com/search?hl=en&q=testing
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/125.0.0.0 Safari/537.36
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
Host: 10.22.169.100
Connection: Keep-alive
```

Recommendation

Prevent this information from being displayed to the user.

Apache mod_negotiation filename bruteforcing

mod_negotiation is an Apache module responsible for selecting the document that best matches the clients capabilities, from one of several available documents. If the client provides an invalid Accept header, the server will respond with a 406 Not Acceptable error containing a pseudo directory listing. This behaviour can help an attacker to learn more about his target, for example, generate a list of base names, generate a list of interesting extensions, look for backup files and so on.

CWE

CWE-538

CVSS2

AV:N/AC:L/Au:N/C:P/I:N/A:N/E:POC/RL:W/RC:UR

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	Partial
Integrity Impact	None
Availability Impact	None
Exploitability	Proof of concept code
Remediation Level	Workaround
Report Confidence	Uncorroborated

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

CVSS4

CVSS:4.0/AV:N/AC:L/AT:N/PR:N/UI:N/VC:L/VI:N/VA:N/SC:N/

Base Score	6.9
Attack Vector	Network
Attack Complexity	Low
Attack Requirements	None
Privileges Required	None
User Interaction	None
Confidentiality Impact to the Vulnerable System	Low
Integrity Impact to the Vulnerable System	None
Availability Impact to the Vulnerable System	None
Confidentiality Impact to the Subsequent System	None
Integrity Impact to the Subsequent System	None
Availability Impact to the Subsequent System	None

Impact

Possible information disclosure: directory listing, filename bruteforcing, backup files.

http://10.22.169.100/

Pattern found:

```
<title>406 Not Acceptable</title>
```

Request

```
GET /index HTTP/1.1
Accept: ofmosdfo/gskc
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/125.0.0.0 Safari/537.36
Host: 10.22.169.100
Connection: Keep-alive
```

Recommendation

Disable the MultiViews directive from Apache's configuration file and restart Apache.
You can disable MultiViews by creating a **.htaccess** file containing the following line:

```
Options -Multiviews
```

References

mod_negotiation: directory listing, filename bruteforcing
http://www.ush.it/2008/07/02/mod_negotiation-directory-listing-filename-bruteforcing/

Multiviews Apache, Accept Requests and free listing
http://www.wisec.it/sectou.php?id=4698ebdc59d15

Apache Module mod_negotiation
http://httpd.apache.org/docs/2.2/mod/mod_negotiation.html

Generic Email Address Disclosure

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

CVSS4
CVSS:4.0/AV:N/AC:L/AT:N/PR:N/UI:N/VC:N/VI:N/VA:N/SC:N/SI:N/SA:N

Base Score	0.0
Attack Vector	Network
Attack Complexity	Low
Attack Requirements	None
Privileges Required	None
User Interaction	None
Confidentiality Impact to the Vulnerable System	None
Integrity Impact to the Vulnerable System	None
Availability Impact to the Vulnerable System	None
Confidentiality Impact to the Subsequent System	None
Integrity Impact to the Subsequent System	None
Availability Impact to the Subsequent System	None

Impact

Email addresses posted on Web sites may attract spam.

http://10.22.169.100/

Emails found:

- http://10.22.169.100/
  ex@abc.xyz
- http://10.22.169.100/index
  ex@abc.xyz
- http://10.22.169.100/index.html
  ex@abc.xyz

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/125.0.0.0 Safari/537.36
Host: 10.22.169.100
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

SSL/TLS Not Implemented

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

CVSS4

CVSS:4.0/AV:N/AC:L/AT:N/PR:N/UI:A/VC:L/VI:L/VA:N/SC:N/SI:N/SA:N

Base Score	5.1
Attack Vector	Network
Attack Complexity	Low
Attack Requirements	None
Privileges Required	None
User Interaction	Active
Confidentiality Impact to the Vulnerable System	Low
Integrity Impact to the Vulnerable System	Low
Availability Impact to the Vulnerable System	None
Confidentiality Impact to the Subsequent System	None
Integrity Impact to the Subsequent System	None
Availability Impact to the Subsequent System	None

Impact

Possible information disclosure.

http://10.22.169.100/ Verified

Request

```
GET / HTTP/1.1
Referer: http://10.22.169.100/
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/125.0.0.0 Safari/537.36
Host: 10.22.169.100
Connection: Keep-alive
```

Recommendation

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

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.

Cross-site Scripting

Cross-site Scripting (XSS) refers to client-side code injection attack wherein an attacker can execute malicious scripts into a legitimate website or web application. XSS occurs when a web application makes use of unvalidated or unencoded user input within the output it generates.

CWE

CWE-79

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

CVSS3

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

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

CVSS4

CVSS:4.0/AV:N/AC:L/AT:N/PR:N/UI:A/VC:N/VI:L/VA:N/SC:L/SI:L/SA:N

Base Score	5.1
Attack Vector	Network
Attack Complexity	Low
Attack Requirements	None
Privileges Required	None
User Interaction	Active
Confidentiality Impact to the Vulnerable System	None

Availability Impact	None

Integrity Impact	Low
Availability Impact	None

Integrity Impact to the Vulnerable System	Low
Availability Impact to the Vulnerable System	None
Confidentiality Impact to the Subsequent System	Low
Integrity Impact to the Subsequent System	Low
Availability Impact to the Subsequent System	None

Impact

Malicious JavaScript has access to all the same objects as the rest of the web page, including access to cookies and local storage, which are often used to store session tokens. If an attacker can obtain a user's session cookie, they can then impersonate that user.

Furthermore, JavaScript can read and make arbitrary modifications to the contents of a page being displayed to a user. Therefore, XSS in conjunction with some clever social engineering opens up a lot of possibilities for an attacker.

http://10.22.169.100/cgi-bin/

URI was set to **<isindex type=image src=1 onerror=OwjV(9651)>**
The input is reflected inside a text element.

Request

```
GET /cgi-
bin/test.cgi/%3C%69%73%69%6E%64%65%78%20%74%79%70%65%3D%69%6D%61%67%65%20%73%72%63%3D%31%20%6F%6E%65%72%72%6F%72%3D%4F%77%6A%56%28%39%36%35%31%29%3E
HTTP/1.1
Referer: http://10.22.169.100/
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/125.0.0.0 Safari/537.36
Host: 10.22.169.100
Connection: Keep-alive
```

http://10.22.169.100/cgi-bin/test.cgi

Verified

HTTP Header input **Referer** was set to **https://www.google.com/search?hl=en&q=testing'"()&%<zzz><ScRiPt >u4gs(9293)</ScRiPt>**

Request

```
GET /cgi-bin/test.cgi HTTP/1.1
Referer: https://www.google.com/search?hl=en&q=testing'"()&%<zzz><ScRiPt >u4gs(9293)</ScRiPt>
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/125.0.0.0 Safari/537.36
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate,br
Host: 10.22.169.100
Connection: Keep-alive
```

Recommendation

Apply context-dependent encoding and/or validation to user input rendered on a page

References

Cross-site Scripting (XSS) Attack - Acunetix
https://www.acunetix.com/websitesecurity/cross-site-scripting/

Types of XSS - Acunetix
https://www.acunetix.com/websitesecurity/xss/

XSS Filter Evasion Cheat Sheet
https://www.owasp.org/index.php/XSS_Filter_Evasion_Cheat_Sheet

Excess XSS, a comprehensive tutorial on cross-site scripting
https://excess-xss.com/

Cross site scripting
https://en.wikipedia.org/wiki/Cross-site_scripting

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.

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 the 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

CVSS4
CVSS:4.0/AV:N/AC:L/AT:N/PR:N/UI:A/VC:N/VI:N/VA:N/SC:N/SI:N/SA:N

Base Score	0.0
Attack Vector	Network
Attack Complexity	Low
Attack Requirements	None
Privileges Required	None
User Interaction	Active
Confidentiality Impact to the Vulnerable System	None
Integrity Impact to the Vulnerable System	None
Availability Impact to the Vulnerable System	None
Confidentiality Impact to the Subsequent System	None
Integrity Impact to the Subsequent System	None
Availability Impact to the Subsequent System	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://10.22.169.100/

Paths without CSP header:

- http://10.22.169.100/
- http://10.22.169.100/cgi-bin/test.cgi
- http://10.22.169.100/index
- http://10.22.169.100/index.html

Request

```
GET / HTTP/1.1
Referer: http://10.22.169.100/
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/125.0.0.0 Safari/537.36
Host: 10.22.169.100
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/

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

CVSS4

CVSS:4.0/AV:N/AC:L/AT:N/PR:N/UI:A/VC:N/VI:N/VA:N/SC:N/SI:N/SA:N

Base Score	0.0
Attack Vector	Network
Attack Complexity	Low
Attack Requirements	None
Privileges Required	None
User Interaction	Active
Confidentiality Impact to the Vulnerable System	None
Integrity Impact to the Vulnerable System	None
Availability Impact to the Vulnerable System	None
Confidentiality Impact to the Subsequent System	None
Integrity Impact to the Subsequent System	None
Availability Impact to the Subsequent System	None

Impact

http://10.22.169.100/

Locations without Permissions-Policy header:

- http://10.22.169.100/
- http://10.22.169.100/images/
- http://10.22.169.100/index
- http://10.22.169.100/cgi-bin/test.cgi
- http://10.22.169.100/index.html
- http://10.22.169.100/fonts/font-awesome-4.7.0/fonts/
- http://10.22.169.100/images/icons/
- http://10.22.169.100/js/
- http://10.22.169.100/css/
- http://10.22.169.100/cgi-bin/
- http://10.22.169.100/fonts/Lato/
- http://10.22.169.100/fonts/

- http://10.22.169.100/fonts/Poppins/
- http://10.22.169.100/vendor/
- http://10.22.169.100/fonts/font-awesome-4.7.0/
- http://10.22.169.100/fonts/font-awesome-4.7.0/css/
- http://10.22.169.100/vendor/animate/
- http://10.22.169.100/vendor/countdowntime/
- http://10.22.169.100/vendor/jquery/
- http://10.22.169.100/vendor/tilt/
- http://10.22.169.100/vendor/bootstrap/

Request

```
GET / HTTP/1.1
Referer: http://10.22.169.100/
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/125.0.0.0 Safari/537.36
Host: 10.22.169.100
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 securly configured, but they must be patched and upgraded in a timely fashion.

Apache mod_negotiation filename bruteforcing

mod_negotiation is an Apache module responsible for selecting the document that best matches the clients capabilities, from one of several available documents. If the client provides an invalid Accept header, the server will respond with a 406 Not Acceptable error containing a pseudo directory listing. This behaviour can help an attacker to learn more about his target, for example, generate a list of base names, generate a list of interesting extensions, look for backup files and so on.

CWE

CWE-538

CVSS2

AV:N/AC:L/Au:N/C:P/I:N/A:N/E:POC/RL:W/RC:UR

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	Partial
Integrity Impact	None
Availability Impact	None
Exploitability	Proof of concept code
Remediation Level	Workaround
Report Confidence	Uncorroborated

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

CVSS4

CVSS:4.0/AV:N/AC:L/AT:N/PR:N/UI:N/VC:L/VI:N/VA:N/SC:N/

Base Score	6.9
Attack Vector	Network
Attack Complexity	Low
Attack Requirements	None
Privileges Required	None
User Interaction	None
Confidentiality Impact to the Vulnerable System	Low
Integrity Impact to the Vulnerable System	None
Availability Impact to the Vulnerable System	None
Confidentiality Impact to the Subsequent System	None
Integrity Impact to the Subsequent System	None
Availability Impact to the Subsequent System	None

Impact

Possible information disclosure: directory listing, filename bruteforcing, backup files.

http://10.22.169.100/

Pattern found:

```
<title>406 Not Acceptable</title>
```

Request

```
GET /index HTTP/1.1
Accept: ofmosdfo/gskc
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/125.0.0.0 Safari/537.36
Host: 10.22.169.100
Connection: Keep-alive
```

Recommendation

Disable the MultiViews directive from Apache's configuration file and restart Apache.
You can disable MultiViews by creating a **.htaccess** file containing the following line:

```
Options -Multiviews
```

References

mod_negotiation: directory listing, filename bruteforcing
http://www.ush.it/2008/07/02/mod_negotiation-directory-listing-filename-bruteforcing/

Multiviews Apache, Accept Requests and free listing
http://www.wisec.it/sectou.php?id=4698ebdc59d15

Apache Module mod_negotiation
http://httpd.apache.org/docs/2.2/mod/mod_negotiation.html

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 the 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

CVSS4

CVSS:4.0/AV:N/AC:L/AT:N/PR:N/UI:A/VC:N/VI:N/VA:N/SC:N/SI:N/SA:N

Base Score	0.0
Attack Vector	Network
Attack Complexity	Low
Attack Requirements	None
Privileges Required	None
User Interaction	Active
Confidentiality Impact to the Vulnerable System	None
Integrity Impact to the Vulnerable System	None
Availability Impact to the Vulnerable System	None
Confidentiality Impact to the Subsequent System	None
Integrity Impact to the Subsequent System	None
Availability Impact to the Subsequent System	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://10.22.169.100/

Paths without CSP header:

- http://10.22.169.100/
- http://10.22.169.100/cgi-bin/test.cgi
- http://10.22.169.100/index
- http://10.22.169.100/index.html

Request

```
GET / HTTP/1.1
Referer: http://10.22.169.100/
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/125.0.0.0 Safari/537.36
Host: 10.22.169.100
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/

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

CVSS4

CVSS:4.0/AV:N/AC:L/AT:N/PR:N/UI:A/VC:N/VI:N/VA:N/SC:N/SI:N/SA:N

Base Score	0.0
Attack Vector	Network
Attack Complexity	Low
Attack Requirements	None
Privileges Required	None
User Interaction	Active
Confidentiality Impact to the Vulnerable System	None
Integrity Impact to the Vulnerable System	None
Availability Impact to the Vulnerable System	None
Confidentiality Impact to the Subsequent System	None
Integrity Impact to the Subsequent System	None
Availability Impact to the Subsequent System	None

Impact

http://10.22.169.100/

Locations without Permissions-Policy header:

- http://10.22.169.100/
- http://10.22.169.100/images/
- http://10.22.169.100/index
- http://10.22.169.100/cgi-bin/test.cgi
- http://10.22.169.100/index.html
- http://10.22.169.100/fonts/font-awesome-4.7.0/fonts/
- http://10.22.169.100/images/icons/
- http://10.22.169.100/js/
- http://10.22.169.100/css/
- http://10.22.169.100/cgi-bin/
- http://10.22.169.100/fonts/Lato/
- http://10.22.169.100/fonts/
- http://10.22.169.100/fonts/Poppins/
- http://10.22.169.100/vendor/
- http://10.22.169.100/fonts/font-awesome-4.7.0/
- http://10.22.169.100/fonts/font-awesome-4.7.0/css/
- http://10.22.169.100/vendor/animate/
- http://10.22.169.100/vendor/countdowntime/
- http://10.22.169.100/vendor/jquery/
- http://10.22.169.100/vendor/tilt/
- http://10.22.169.100/vendor/bootstrap/

Request

```
GET / HTTP/1.1
Referer: http://10.22.169.100/
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/125.0.0.0 Safari/537.36
Host: 10.22.169.100
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/

Insecure HTTP Usage

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

CVSS4
CVSS:4.0/AV:N/AC:L/AT:N/PR:N/UI:A/VC:N/VI:N/VA:N/SC:N/SI:N/SA:N

Base Score	0.0
Attack Vector	Network
Attack Complexity	Low
Attack Requirements	None
Privileges Required	None
User Interaction	Active
Confidentiality Impact to the Vulnerable System	None
Integrity Impact to the Vulnerable System	None
Availability Impact to the Vulnerable System	None
Confidentiality Impact to the Subsequent System	None
Integrity Impact to the Subsequent System	None
Availability Impact to the Subsequent System	None

Impact

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

http://10.22.169.100/

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/125.0.0.0 Safari/537.36
Host: 10.22.169.100
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

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.

Apache httpd remote denial of service

A denial of service vulnerability has been found in the way the multiple overlapping ranges are handled by the Apache HTTPD server:

http://seclists.org/fulldisclosure/2011/Aug/175

An attack tool is circulating in the wild. Active use of this tools has been observed. The attack can be done remotely and with a modest number of

requests can cause very significant memory and CPU usage on the server.

This alert was generated using only banner information. It may be a false positive.

Affected Apache versions (1.3.x, 2.0.x through 2.0.64, and 2.2.x through 2.2.19).

CWE
CWE-399

CVSS2
AV:N/AC:L/Au:N/C:N/I:N/A:C/E:F/RL:OF/RC:C

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	None
Integrity Impact	None
Availability Impact	Complete
Exploitability	Functional exploit exists
Remediation Level	Official Fix
Report Confidence	Confirmed

CVSS3
CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:L

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

CVSS4
CVSS:4.0/AV:N/AC:L/AT:N/PR:N/UI:N/VC:N/VI:N/VA:H/SC:N/SI

Base Score	8.7
Attack Vector	Network
Attack Complexity	Low
Attack Requirements	None
Privileges Required	None
User Interaction	None
Confidentiality Impact to the Vulnerable System	None
Integrity Impact to the Vulnerable System	None
Availability Impact to the Vulnerable System	High
Confidentiality Impact to the Subsequent System	None
Integrity Impact to the Subsequent System	None
Availability Impact to the Subsequent System	None

Impact

Remote Denial of Service

http://10.22.169.100/

Version detected: 2.2.17 .

Recommendation

Upgrade to the latest version of Apache HTTP Server (2.2.20 or later), available from the Apache HTTP Server Project Web site.

References

CVE-2011-3192
http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2011-3192

Apache HTTPD Security ADVISORY
http://mail-archives.apache.org/mod_mbox/httpd-announce/201108.mbox/%3C20110824161640.122D387DD@minotaur.apache.org%3E

Apache httpd Remote Denial of Service (memory exhaustion)
https://www.exploit-db.com/exploits/17696

Apache httpOnly cookie disclosure

Apache HTTP Server 2.2.x through 2.2.21 does not properly restrict header information during construction of Bad Request (aka 400) error documents, which allows remote attackers to obtain the values of HTTPOnly cookies via vectors involving a (1) long or (2) malformed header in conjunction with crafted web script.

Affected Apache versions (up to 2.0.21).

CWE
CWE-264

CVSS2
AV:N/AC:M/Au:N/C:P/I:N/A:N/E:F/RL:OF/RC:C

Access Vector	Network
Access Complexity	Medium
Authentication	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

CVSS4
CVSS:4.0/AV:N/AC:L/AT:N/PR:N/UI:A/VC:L/VI:N/VA:N/SC:N/SI:

Base Score	5.1
Attack Vector	Network
Attack Complexity	Low

Confidentiality	Partial
Integrity Impact	None
Availability Impact	None
Exploitability	Functional exploit exists
Remediation Level	Official Fix
Report Confidence	Confirmed

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

Attack Requirements	None
Privileges Required	None
User Interaction	Active
Confidentiality Impact to the Vulnerable System	Low
Integrity Impact to the Vulnerable System	None
Availability Impact to the Vulnerable System	None
Confidentiality Impact to the Subsequent System	None
Integrity Impact to the Subsequent System	None
Availability Impact to the Subsequent System	None

Impact

Information disclosure.

http://10.22.169.100/

Pattern found:

```
<pre>
Cookie: testingCookie=AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
```

Request

```
GET / HTTP/1.1
Cookie:
testingCookie=AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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AAAA
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/125.0.0.0 Safari/537.36
Host: 10.22.169.100
Connection: Keep-alive
```

Recommendation

Upgrade Apache 2.x to the latest version. Apache 2.2.22 is the first version that fixed this issue.

References

Fixed in Apache httpd 2.2.22
http://httpd.apache.org/security/vulnerabilities_22.html

Apache HTTP Server 'httpOnly' Cookie Information Disclosure Vulnerability
https://www.securityfocus.com/bid/51706

Bootstrap Improper Neutralization of Input During Web Page Generation ('Cross-site Scripting') Vulnerability

In Bootstrap before 4.1.2, XSS is possible in the collapse data-parent attribute.

CWE
CWE-707

CVSS3
CVSS:3.0/AV:N/AC:L/PR:N/UI:R/S:C/C:L/I:L/A:N

Base Score	6.1
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	Required
Scope	Changed
Confidentiality	Low
Integrity Impact	Low
Availability Impact	None

CVSS4
CVSS:4.0/AV:N/AC:L/AT:N/PR:N/UI:A/VC:N/VI:N/VA:N/SC:L/SI:L/SA:N

Base Score	5.1
Attack Vector	Network
Attack Complexity	Low
Attack Requirements	None
Privileges Required	None
User Interaction	Active
Confidentiality Impact to the Vulnerable System	None
Integrity Impact to the Vulnerable System	None
Availability Impact to the Vulnerable System	None
Confidentiality Impact to the Subsequent System	Low
Integrity Impact to the Subsequent System	Low
Availability Impact to the Subsequent System	None

Impact

http://10.22.169.100/

bootstrap.js v4.0.0-beta-4.0.0-beta

http://10.22.169.100/

bootstrap.js v4.0.0-beta-4.0.0-beta

http://10.22.169.100/

bootstrap.js v4.0.0-beta-4.0.0-beta

References

CVE-2018-14040
https://nvd.nist.gov/vuln/detail/CVE-2018-14040

jQuery Improper Neutralization of Input During Web Page Generation ('Cross-site Scripting') Vulnerability

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.

CWE
CWE-707

CVSS3
CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:C/C:L/I:L/A:N

Base Score	6.1
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	Required
Scope	Changed
Confidentiality	Low
Integrity Impact	Low
Availability Impact	None

CVSS4
CVSS:4.0/AV:N/AC:L/AT:N/PR:N/UI:A/VC:N/VI:N/VA:N/SC:L/SI:L/SA:N

Base Score	5.1
Attack Vector	Network
Attack Complexity	Low
Attack Requirements	None
Privileges Required	None
User Interaction	Active
Confidentiality Impact to the Vulnerable System	None
Integrity Impact to the Vulnerable System	None
Availability Impact to the Vulnerable System	None
Confidentiality Impact to the Subsequent System	Low
Integrity Impact to the Subsequent System	Low
Availability Impact to the Subsequent System	None

Impact

http://10.22.169.100/

jquery v3.2.1-3.2.1

http://10.22.169.100/

jquery v3.2.1-3.2.1

http://10.22.169.100/

jquery v3.2.1-3.2.1

References

CVE-2020-11023
https://nvd.nist.gov/vuln/detail/CVE-2020-11023

JQuery Prototype Pollution Vulnerability

jQuery before 3.4.0, as used in Drupal, Backdrop CMS, and other products, mishandles jQuery.extend(true, {}, ...) because of Object.prototype pollution. If an unsanitized source object contained an enumerable __proto__ property, it could extend the native Object.prototype.

CVSS3

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

Base Score	6.1
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	Required
Scope	Changed
Confidentiality	Low
Integrity Impact	Low
Availability Impact	None

CVSS4

CVSS:4.0/AV:N/AC:L/AT:N/PR:N/UI:A/VC:N/VI:N/VA:N/SC:L/SI:L/SA:N

Base Score	5.1
Attack Vector	Network
Attack Complexity	Low
Attack Requirements	None
Privileges Required	None
User Interaction	Active
Confidentiality Impact to the Vulnerable System	None
Integrity Impact to the Vulnerable System	None
Availability Impact to the Vulnerable System	None
Confidentiality Impact to the Subsequent System	Low
Integrity Impact to the Subsequent System	Low
Availability Impact to the Subsequent System	None

Impact

http://10.22.169.100/

jquery v3.2.1-3.2.1

References

CVE-2019-11358
https://nvd.nist.gov/vuln/detail/CVE-2019-11358

Select2 Improper Neutralization of Input During Web Page Generation ('Cross-site Scripting') Vulnerability

In Select2 through 4.0.5, as used in Snipe-IT and other products, rich selectlists allow XSS. This affects use cases with Ajax remote data loading when HTML templates are used to display listbox data.

CWE

CWE-707

CVSS3

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

Base Score	6.1
Attack Vector	Network
Attack Complexity	Low
Privileges Required	None
User Interaction	Required
Scope	Changed
Confidentiality	Low
Integrity Impact	Low
Availability Impact	None

CVSS4

CVSS:4.0/AV:N/AC:L/AT:N/PR:N/UI:A/VC:N/VI:N/VA:N/SC:L/SI:L/SA:N

Base Score	5.1
Attack Vector	Network
Attack Complexity	Low
Attack Requirements	None
Privileges Required	None
User Interaction	Active
Confidentiality Impact to the Vulnerable System	None
Integrity Impact to the Vulnerable System	None
Availability Impact to the Vulnerable System	None
Confidentiality Impact to the Subsequent System	Low
Integrity Impact to the Subsequent System	Low
Availability Impact to the Subsequent System	None

Impact

http://10.22.169.100/

select2 v4.0.3-4.0.3

References

CVE-2016-10744
https://nvd.nist.gov/vuln/detail/CVE-2016-10744

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

CVSS4
CVSS:4.0/AV:N/AC:L/AT:N/PR:N/UI:N/VC:L/VI:L/VA:N/SC:N/SI:N/SA:N

Base Score	6.9
Attack Vector	Network
Attack Complexity	Low
Attack Requirements	None
Privileges Required	None
User Interaction	None
Confidentiality Impact to the Vulnerable System	Low
Integrity Impact to the Vulnerable System	Low
Availability Impact to the Vulnerable System	None
Confidentiality Impact to the Subsequent System	None
Integrity Impact to the Subsequent System	None
Availability Impact to the Subsequent System	None

Impact

Consult References for more information.

http://10.22.169.100/ Confidence: 95%

- jQuery 3.2.1
  - URL: http://10.22.169.100/
  - Detection method: The library's name and version were determined based on its dynamic behavior.
  - CVE-ID: CVE-2020-11022, CVE-2020-11023, CVE-2019-11358
  - Description: 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. / jQuery mishandles jQuery.extend(true, {}, ...) because of Object.prototype pollution. If an unsanitized source object contained an enumerable __proto__ property, it could extend the native Object.prototype.
  - References:
    - 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
    - https://github.com/jquery/jquery/pull/4333
    - https://nvd.nist.gov/vuln/detail/CVE-2019-11358
    - https://nvd.nist.gov/vuln/detail/CVE-2019-5428
    - https://blog.jquery.com/2019/04/10/jquery-3-4-0-released/

Request

```
GET / HTTP/1.1
Referer: http://10.22.169.100/
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/125.0.0.0 Safari/537.36
Host: 10.22.169.100
Connection: Keep-alive
```

Recommendation

Upgrade to the latest version.

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

CVSS4
CVSS:4.0/AV:N/AC:H/AT:N/PR:N/UI:A/VC:N/VI:N/VA:N/SC:N/SI:N/SA:N

Base Score	0.0
Attack Vector	Network
Attack Complexity	High
Attack Requirements	None
Privileges Required	None
User Interaction	Active
Confidentiality Impact to the Vulnerable System	None
Integrity Impact to the Vulnerable System	None
Availability Impact to the Vulnerable System	None
Confidentiality Impact to the Subsequent System	None
Integrity Impact to the Subsequent System	None
Availability Impact to the Subsequent System	None

Impact

Consult References for more information.

http://10.22.169.100/ Confidence: 95%

- **bootstrap.js 4.0.0-beta**
  - URL: http://10.22.169.100/vendor/bootstrap/js/bootstrap.min.js
  - Detection method: The library's name and version were determined based on the file's contents.
  - References:
    - https://github.com/twbs/bootstrap/releases

Request

```
GET /vendor/bootstrap/js/bootstrap.min.js 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/125.0.0.0 Safari/537.36
Host: 10.22.169.100
Connection: Keep-alive
```

http://10.22.169.100/ Confidence: 95%

- **Select2 4.0.3**
  - URL: http://10.22.169.100/vendor/select2/select2.min.js
  - Detection method: The library's name and version were determined based on the file's contents.
  - References:

- https://github.com/select2/select2/tags

Request

```
GET /vendor/select2/select2.min.js 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/125.0.0.0 Safari/537.36
Host: 10.22.169.100
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.

SSL/TLS Not Implemented

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

CVSS4
CVSS:4.0/AV:N/AC:L/AT:N/PR:N/UI:A/VC:L/VI:L/VA:N/SC:N/SI:N/SA:N

Base Score	5.1
Attack Vector	Network
Attack Complexity	Low
Attack Requirements	None
Privileges Required	None
User Interaction	Active
Confidentiality Impact to the Vulnerable System	Low
Integrity Impact to the Vulnerable System	Low
Availability Impact to the Vulnerable System	None
Confidentiality Impact to the Subsequent System	None
Integrity Impact to the Subsequent System	None
Availability Impact to the Subsequent System	None

Impact

Possible information disclosure.

http://10.22.169.100/ Verified

Request

```
GET / HTTP/1.1
Referer: http://10.22.169.100/
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/125.0.0.0 Safari/537.36
Host: 10.22.169.100
Connection: Keep-alive
```

Recommendation

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

Apache mod_negotiation filename bruteforcing

mod_negotiation is an Apache module responsible for selecting the document that best matches the clients capabilities, from one of several available documents. If the client provides an invalid Accept header, the server will respond with a 406 Not Acceptable error containing a pseudo directory listing. This behaviour can help an attacker to learn more about his target, for example, generate a list of base names, generate a list of interesting extensions, look for backup files and so on.

CWE
CWE-538

CVSS2
AV:N/AC:L/Au:N/C:P/I:N/A:N/E:POC/RL:W/RC:UR

Access Vector	Network
Access Complexity	Low
Authentication	None
Confidentiality	Partial
Integrity Impact	None
Availability Impact	None
Exploitability	Proof of concept code
Remediation Level	Workaround
Report Confidence	Uncorroborated

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

CVSS4
CVSS:4.0/AV:N/AC:L/AT:N/PR:N/UI:N/VC:L/VI:N/VA:N/SC:N/

Base Score	6.9
Attack Vector	Network
Attack Complexity	Low
Attack Requirements	None
Privileges Required	None
User Interaction	None
Confidentiality Impact to the Vulnerable System	Low
Integrity Impact to the Vulnerable System	None
Availability Impact to the Vulnerable System	None
Confidentiality Impact to the Subsequent System	None
Integrity Impact to the Subsequent System	None
Availability Impact to the Subsequent System	None

Impact

Possible information disclosure: directory listing, filename bruteforcing, backup files.

http://10.22.169.100/

Pattern found:

```
<title>406 Not Acceptable</title>
```

Request

```
GET /index HTTP/1.1
Accept: ofmosdfo/gskc
Accept-Encoding: gzip,deflate,br
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/125.0.0.0 Safari/537.36
Host: 10.22.169.100
Connection: Keep-alive
```

Recommendation

Disable the MultiViews directive from Apache's configuration file and restart Apache.
You can disable MultiViews by creating a **.htaccess** file containing the following line:

```
Options -Multiviews
```

References

mod_negotiation: directory listing, filename bruteforcing
http://www.ush.it/2008/07/02/mod_negotiation-directory-listing-filename-bruteforcing/

Multiviews Apache, Accept Requests and free listing
http://www.wisec.it/sectou.php?id=4698ebdc59d15

Apache Module mod_negotiation
http://httpd.apache.org/docs/2.2/mod/mod_negotiation.html

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.

No alerts in this category

A09 Security Logging and Monitoring Failures

Insufficient logging and monitoring, coupled with missing or ineffective integration with incident response, allows attackers to further attack systesm, 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://10.22.169.100
  - Inputs
    - GET email
  - cgi-bin
    - test.cgi
  - css
    - main.css
    - util.css
  - fonts
    - font-awesome-4.7.0
      - css
        - font-awesome.min.css
      - fonts
    - Lato
    - Poppins
  - images
    - icons
  - js
    - main.js
  - vendor
    - animate
      - animate.css
    - bootstrap
      - css
        - bootstrap.min.css
      - js
        - bootstrap.min.js
        - popper.js
    - countdowntime
      - countdowntime.js
      - moment-timezone-with-data.min.js
      - moment-timezone.min.js
      - moment.min.js
    - jquery
      - jquery-3.2.1.min.js
    - select2
      - select2.min.css
      - select2.min.js
    - tilt
      - tilt.jquery.min.js
  - index
    - Inputs
      - GET email
  - index.html
    - Inputs
      - GET email
  - robots.txt