

IPv6 Readiness Report

redtone.com — redtone.com



Scan to verify

Category: Telco • Generated: 13 Jun 2026, 19:37 MYT • Last Checked: 13 Jun 2026, 01:03 MYT • Verification ID: d1395de1-61b4-40dd-b990-8c452c29b86b
Report generated from National IPv6 Readiness Monitor — <https://ipv6.my6.my>
Audit trail: <https://ipv6.my6.my/audit/d1395de1-61b4-40dd-b990-8c452c29b86b>

<p>X</p> <p>Non-Compliant</p> <p>MGv6C-1.0</p>	<p>32%</p> <p>No IPv6 Support</p>	<p>IPv6-ONLY READINESS</p> <p>Website: X Not Ready</p> <p>DNS: X Not Ready</p> <p>Email: X Not Ready</p>
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<p>IPv4 ADDRESSES</p> <p>182.54.198.48</p>

Network Information (WHOIS / RDAP)

IPv4 Network	
Organization	Redtone Engineering & Network Services Sdn Bhd
Country	MY
ASN	AS24028
ASN Name	CNXNET-AS-MY - REDtone, MY
Network (CIDR)	182.54.192.0/19

Web Services (35%) 0 / 8			
#	CHECK	RESULT	DETAIL
1	AAAA Record	FAIL	No AAAA record found in DNS.
2	Globally Routable IPv6	FAIL	IPv6 address is not globally routable.
3	HTTP over IPv6	FAIL	HTTP is not accessible over IPv6.
4	HTTPS over IPv6	FAIL	HTTPS is not accessible over IPv6.
5	IPv6-Only Reachability	FAIL	Site is not reachable when limited to IPv6-only.
6	TLS Certificate Valid (IPv6)	FAIL	TLS certificate is invalid, expired, or hostname mismatch over IPv6.
7	Dual-Stack (IPv4 + IPv6)	FAIL	Domain is IPv6-only or IPv4-only.
8	HTTP/3 (QUIC)	FAIL	No HTTP/3 support detected.

DNS & DNSSEC (25%) 0 / 5			
#	CHECK	RESULT	DETAIL
1	NS Has AAAA Record	FAIL	No nameserver has an AAAA record.
2	NS Reachable via IPv6	FAIL	No nameserver is reachable over IPv6.
3	NS Answers Queries via IPv6	FAIL	Nameserver does not answer queries over IPv6.
4	DNSSEC Validated	FAIL	DNSSEC validation failed or zone is unsigned.
5	Reverse DNS (PTR)	FAIL	No PTR record found.
6	DS Record at Parent	FAIL	No DS record at parent.
7	RRSIG Valid	FAIL	No valid RRSIG found.

#	CHECK	RESULT	DETAIL
8	Signing Algorithm	INFO	No DNSKEY record found.

Email Services (25%) 4 / 6

#	CHECK	RESULT	DETAIL
1	MX Record Exists	PASS	MX record found.
2	MX Server Has IPv6	PASS	MX server has AAAA record.
3	SMTP Reachable via IPv6	FAIL	SMTP is not reachable over IPv6.
4	STARTTLS over IPv6	FAIL	STARTTLS not available over IPv6.
5	SPF Record	PASS	SPF record found.
6	DKIM Selector	INFO	DKIM selector found: google._domainkey
7	DMARC Record	PASS	DMARC record found.

IPv4 Baseline (15%) 3 / 3

#	CHECK	RESULT	DETAIL
1	A Record	PASS	182.54.198.48
2	HTTP over IPv4	PASS	HTTP (port 80) responds over IPv4 — 1023ms TTFB.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 1022ms TTFB.

Audit Trail & Evidence Record

Verification ID	d1395de1-61b4-40dd-b990-8c452c29b86b
Domain	redtone.com
Check Mode	Scheduled
Status	Completed
Started	13 Jun 2026, 01:02:41 MYT
Finished	13 Jun 2026, 01:03:14 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/d1395de1-61b4-40dd-b990-8c452c29b86b

Integrity Verification

<p>✓ INTEGRITY VERIFIED</p>	
Algorithm	hmac-sha256-v1
Root Hash	1116e02e66e26291098159ddd0c94c226e79dae53136ae1ca881cd23faf52e52
http_headers	9d11749bb02a2ff8810eba68e9d02dd45b46df67ff93112b24a32bbf6d0e875c
dns_responses	4d05add02da089caf1acee63d60003b874a7ec68a76deccc3b7fde3fee61924
tls_handshake	9808fe74e7704a08e34fec8d0fa85d4da53d2248ca6961e2541d49733e022a21
connectivity_log	a1ab5ba463bb82b5bc05466a432b84db3f1426f46f6a507397baf9a6d3b16a52
dns_resolution_times	6bb929ef734090f4e289686a2a617aed245270f93cac4a68def571daac01423

Test Node Identity

Os	Linux srv1440888 6.8.0-124-generic #124-Ubuntu SMP PREEMPT_DYNAMIC Tue May 26 13:00:45 UTC 2026 x86_64
Hostname	srv1440888
Php Version	8.3.31
Server Ipv4	76.13.221.142
Server Ipv6	2a02:4780:5e:2789::1

DNS Resolution Performance

Comparison of A (IPv4) vs AAAA (IPv6) query times across resolvers and transports. Shows median (p50) and 95th percentile (p95) of 3 samples per tuple.

Resolver	Transport	A p50 (ms)	A p95 (ms)	AAAA p50 (ms)	AAAA p95 (ms)	Delta (ms)
System	Default	12.47	20.59	8.13	19.12	-4.3
Google	IPv4	22.18	249.25	260.71	276.12	+238.5
Google	IPv6	19.48	28.95	33.38	248.47	+13.9
Cloudflare	IPv4	23.93	24.21	12.45	23.34	-11.5
Cloudflare	IPv6	10.77	23.02	454.64	471.62	+443.9

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 32431
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
redtone.com. 3600 IN A 182.54.198.48
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 61659
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
com. 874 IN SOA a.gtld-servers.net. nstld.verisign-grs.com. 1781283728 1800 900 604800 900
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 58254
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
redtone.com. 3600 IN MX 5 redtone-com.mail.protection.outlook.com.
```

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 42988
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
redtone.com. 7200 IN NS ns18.worldnic.com.
redtone.com. 7200 IN NS ns17.worldnic.com.
```

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 52207
;; flags: qr rd ra; QUERY: 1, ANSWER: 5, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
redtone.com. 3600 IN TXT "google-site-verification=Vp3HcHvRJDz1VHCOP436lNt1ZSpMRB5ppg6PLoRrfa0"
redtone.com. 3600 IN TXT "facebook-domain-verification=mcgq045mep84doqcyrg7ejtaan8gy"
redtone.com. 3600 IN TXT "MS=ms86479420"
redtone.com. 3600 IN TXT "8315300A1EE87854A9BDE291EF343697.B3B649A373595210D772C88765057C6E.comodoca.com"
redtone.com. 3600 IN TXT "v=spf1 ip4:218.234.16.162 include:spf.protection.outlook.com -all"
```

AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 63994
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
redtone.com. 3574 IN SOA NS17.WORLDNIC.com. namehost.WORLDNIC.com. 126052422 10800 3600 604800 3600
```

RRSIG

```
NS17.WORLDNIC.com. namehost.WORLDNIC.com. 126052422 10800 3600 604800 3600
```

DNSKEY

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 17788
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
redtone.com. IN SOA NS17.WORLDMIC.com. namehost.WORLDMIC.com. 126052422 10800 3600 604800 3600
```

DNSSEC_VALIDATION

```
; unsigned answer
redtone.com. IN SOA NS17.WORLDMIC.com. namehost.WORLDMIC.com. 126052422 10800 3600 604800 3600
```



```

Hg9j1uLiutZfV57qXMYoCAQ10bg0K6nyTJccBz8NUvXt7y+CDwIDAQABo0IwQDAD
BgNVHQ4EFgQUU3m/WqorSs9UgOHYm8Cd8rIDZsswDgYDVR0PAQH/BAQDAgEGMA8G
A1UdEwEB/wQFMAMBAf8wDQYJKoZIhvcNAQEMBQADggIBAFzUfA3P9wF9QZ1LDHPF
Up/L+M+ZBn8b2kMVn54CVVeWFFPSPCeHLCjthzoBN6J2/FNQwISbxmt0uowhT6K0
VwKR82kV2LyI485qC/3vq0LLVSoGIG1VeCkZ7L8wXEsKEXX/JJpuXior7gtNn3/3
ATiUFJVDBwn7YKnuHKsSjKCaXqeYalLtiz8I+8jRRa8YFWSQEG9zKC7F4iR0/Fjs
8PRF/iKz6y+00tLFYQXBL2+odnKPi4w2r78NBc5xeambx9spnFixdjQg3IM8WcR
iQycE0xyNN+81XHfqnHd4b1sJdW5XWxavVcStkNr/+XeTWYRUc+ZruwXtuhxkYze
Sf7dNXGiFSeUHM9h4ya7b6NnJ5Fd5t0dCy5oGzuCr+yDZ4XUMFF0sbmZgIn/f3gZ
XHLKYC6S5Q5MMyoscdiyA5d9zZbyuALJQG03RoHnHcAP9Dc1ew91Pq7P8yF1m9/
qS3fuQL39ZeatTXaw2ewh0qpKJ4jjv9cJ2vhsE/zB+4ALtRZ8t5QZK9EFX7mRB
VXyNWQKV3WkdwruWih0hKwbt5DHDAff9Yk2dDLWKMgwsAvgnEzDHNb842m1R0aB
L6KcQ9njRHDEjf8tM7qtj3u1cIiuPhnPQCjY/MiQu12ZiV55lJFH4gxQ+6IHdfG
jjxDah2nGN59PRbxYvnKkKj9
-----END CERTIFICATE-----
2 s:C = GB, 0 = Sectigo Limited, CN = Sectigo Public Server Authentication Root R46
i:C = US, ST = New Jersey, L = Jersey City, O = The USERTRUST Network, CN = USERTrust RSA Certification Authority
a:PKKEY: rsaEncryption, 4096 (bit); sigalg: RSA-SHA384
v:NotBefore: Mar 22 00:00:00 2021 GMT; NotAfter: Jan 18 23:59:59 2038 GMT
-----BEGIN CERTIFICATE-----
MIIGLTCCBH2gAwIBAgIRANJ/u8HeNz55Fq1hSVhgmcQwDQYJKoZIhvcNAQEMBQAw
gYgxZzAJBgNVBAYTALVTMRMwEQYDVOQIEwP0ZXcgSmVyc2V5MRQwEgYDVOQHEwtK
ZXJzZXkgQ2l0eTEeMBwGA1UEChMvVGHlIFVTRVJUULVTVCB0ZXR3b3JrMS4wLWY0
VQ0DEyVWU0VSVHJ1c3Q0UUNBIENLcnRpZmljYXRpb24gQXV0aG9yaXR5MB4XDTEy
MDMyMjAwMDAwMFoXDTEyMDE0IzNTk1OVowXzELMAKGA1UEBhMCR0IXGDAWBgNV
BAoTD1NlY3R3Z28gTGltZXN1c2V5MRQwEgYDVOQHEwtKZDE2MDQGA1UEAxMtU2VjdGlnbyBQdWJsawMgU2V5
dmVyIEF1dGh1bnRyY2F0aW9uIFJvb3Q0UjQ2MIIICjANBgkqhkiG9w0BAQEFAAO

```


HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	200
Connected IP	182.54.198.48
Connect Time	6.02 ms
TTFB	1031.77 ms
Total Time	1031.92 ms

Response Headers:

```
{
  "0": "HTTP/1.1 302 Found",
  "1": "Date: Fri, 12 Jun 2026 17:03:12 GMT",
  "2": "Server: Apache",
  "3": "Location: https://redtone.com/",
  "4": "Content-Type: text/html; charset=iso-8859-1",
  "6": "HTTP/1.1 301 Moved Permanently",
  "7": "Date: Fri, 12 Jun 2026 17:03:12 GMT",
  "8": "Server: Apache",
  "9": "X-Redirect-By: WordPress",
  "10": "Strict-Transport-Security: max-age=2592000; includeSubDomains; preload",
  "11": "X-Content-Type-Options: nosniff",
  "12": "X-XSS-Protection: 1; mode=block",
  "13": "Access-Control-Allow-Origin: https://www.redtone.com",
  "14": "Access-Control-Allow-Methods: GET, POST, OPTIONS",
  "15": "Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept",
  "16": "Access-Control-Allow-Credentials: true",
  "17": "Location: https://www.redtone.com/",
  "18": "X-Frame-Options: SAMEORIGIN",
  "19": "Content-Type: text/html; charset=UTF-8",
  "21": "HTTP/1.1 200 OK",
  "22": "Date: Fri, 12 Jun 2026 17:03:13 GMT",
  "23": "Server: Apache",
  "24": "Link: <https://www.redtone.com/wp-json/>; rel=\"https://api.w.org/\", <https://www.redtone.com/wp-json/wp/v2/pages/19069>; rel=\"alternate\"; title=\"JSON\"; type=\"application/json\", <https://www.redtone.com/>; rel=shortlink",
  "25": "Strict-Transport-Security: max-age=2592000; includeSubDomains; preload",
  "26": "X-Content-Type-Options: nosniff",
  "27": "X-XSS-Protection: 1; mode=block",
  "28": "Access-Control-Allow-Origin: https://www.redtone.com",
  "29": "Access-Control-Allow-Methods: GET, POST, OPTIONS",
  "30": "Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept",
  "31": "Access-Control-Allow-Credentials: true",
  "32": "X-Frame-Options: SAMEORIGIN",
  "33": "Content-Type: text/html; charset=UTF-8"
}
```

IPv4 HTTPS (port 443)

HTTP Status	200
Connected IP	182.54.198.48
Connect Time	3.12 ms
TTFB	989.75 ms
Total Time	989.84 ms

Response Headers:

```
{
  "0": "HTTP/1.1 301 Moved Permanently",
  "1": "Date: Fri, 12 Jun 2026 17:03:13 GMT",
  "2": "Server: Apache",
  "3": "X-Redirect-By: WordPress",
  "4": "Strict-Transport-Security: max-age=2592000; includeSubDomains; preload",
  "5": "X-Content-Type-Options: nosniff",
  "6": "X-XSS-Protection: 1; mode=block",
  "7": "Access-Control-Allow-Origin: https://www.redtone.com",
  "8": "Access-Control-Allow-Methods: GET, POST, OPTIONS",
  "9": "Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept",
  "10": "Access-Control-Allow-Credentials: true",
  "11": "Location: https://www.redtone.com/",
  "12": "X-Frame-Options: SAMEORIGIN",
  "13": "Content-Type: text/html; charset=UTF-8",
  "15": "HTTP/1.1 200 OK",
}
```

```

"16": "Date: Fri, 12 Jun 2026 17:03:14 GMT",
"17": "Server: Apache",
"18": "Link: <https://www.redtone.com/wp-json/>; rel=\\"https://api.w.org/\\"", <https://www.redtone.com/wp-json/wp/v2/pages/19069>; rel=\\"alternate\\"",
title=\\"JSON\\"", type=\\"application/json\\"", <https://www.redtone.com/>; rel=shortlink",
"19": "Strict-Transport-Security: max-age=2592000; includeSubDomains; preload",
"20": "X-Content-Type-Options: nosniff",
"21": "X-XSS-Protection: 1; mode=block",
"22": "Access-Control-Allow-Origin: https://www.redtone.com",
"23": "Access-Control-Allow-Methods: GET, POST, OPTIONS",
"24": "Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept",
"25": "Access-Control-Allow-Credentials: true",
"26": "X-Frame-Options: SAMEORIGIN",
"27": "Content-Type: text/html; charset=UTF-8"
}
    
```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	302 0.001465 0.004014
TCP Connect IPv4 → port 443	301 0.001340 0.514132

Test Node Network Evidence

Node Profile	dual stack
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Egress Connectivity

IPv4 Egress	unreachable
IPv6 Egress	2a02:4780:5e:2789::1

Sysctl IPv6 Flags

net.ipv6.conf.all.disable_ipv6	0
--------------------------------	---

IPv6 Routes

```

2a02:4780:5e::/48 dev eth0 proto kernel metric 256 pref medium
fe80::/64 dev eth0 proto kernel metric 256 pref medium
default via 2a02:4780:5e::1 dev eth0 proto static metric 1024 pref medium
    
```

IPv4 Routes

```

default via 76.13.221.254 dev eth0 proto static
76.13.221.0/24 dev eth0 proto kernel scope link src 76.13.221.142
    
```