

# IPv6 Readiness Report

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Scan to verify

Category: News Portal • Generated: 13 Jun 2026, 19:07 MYT • Last Checked: 13 Jun 2026, 01:08 MYT • Verification ID: 4a4c768c-2080-40f4-9265-7dd80ffbbfb9

Report generated from National IPv6 Readiness Monitor — <https://ipv6.my6.my>

Audit trail: <https://ipv6.my6.my/audit/4a4c768c-2080-40f4-9265-7dd80ffbbfb9>

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

| IPv4 ADDRESSES |
|----------------|
| 58.26.44.10    |

## Network Information (WHOIS / RDAP)

| IPv4 Network   |   |
|----------------|---|
| Organization   | TM TECHNOLOGY SERVICES SDN BHD                  |
| Country        | MY  |
| ASN            | AS4788  |
| ASN Name       | TTSSB-MY - TM TECHNOLOGY SERVICES SDN. BHD., MY |
| Network (CIDR) | 58.26.0.0/16                                    |

| Web Services (35%) <span style="float: right;">0 / 8</span> |                              |        |  |
|---|------------------------------|--------|--|
| #   | 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%) <span style="float: right;">0 / 5</span> |                             |        |   |
|---|-----------------------------|--------|---|
| #   | 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 | <b>Signing Algorithm</b> | <b>INFO</b> | No DNSKEY record found. |

**Email Services** (25%) 4 / 6

| # | CHECK                          | RESULT      | DETAIL                            |
|---|--------------------------------|-------------|-----------------------------------|
| 1 | <b>MX Record Exists</b>        | <b>PASS</b> | MX record found.                  |
| 2 | <b>MX Server Has IPv6</b>      | <b>PASS</b> | MX server has AAAA record.        |
| 3 | <b>SMTP Reachable via IPv6</b> | <b>FAIL</b> | SMTP is not reachable over IPv6.  |
| 4 | <b>STARTTLS over IPv6</b>      | <b>FAIL</b> | STARTTLS not available over IPv6. |
| 5 | <b>SPF Record</b>              | <b>PASS</b> | SPF record found.                 |
| 6 | <b>DKIM Selector</b>           | <b>INFO</b> | No common DKIM selector found.    |
| 7 | <b>DMARC Record</b>            | <b>PASS</b> | DMARC record found.               |

**IPv4 Baseline** (15%) 3 / 3

| # | CHECK                  | RESULT      | DETAIL   |
|---|------------------------|-------------|--|
| 1 | <b>A Record</b>        | <b>PASS</b> | 58.26.44.10  |
| 2 | <b>HTTP over IPv4</b>  | <b>PASS</b> | HTTP (port 80) responds over IPv4 — 6497ms TTFB.   |
| 3 | <b>HTTPS over IPv4</b> | <b>PASS</b> | HTTPS (port 443) responds over IPv4 — 7832ms TTFB. |

### Audit Trail & Evidence Record

|                   |  |
|-------------------|--|
| Verification ID   | 4a4c768c-2080-40f4-9265-7dd80ffbbfb9                           |
| Domain            | bernama.com  |
| Check Mode        | Scheduled  |
| Status            | Completed  |
| Started           | 13 Jun 2026, 01:07:05 MYT                                      |
| Finished          | 13 Jun 2026, 01:08:08 MYT                                      |
| Test Node Profile | dual stack   |
| Engine Version    | 2.0.0  |
| MGv6C Version     | 1.0.0  |
| Audit URL         | https://ipv6.my6.my/audit/4a4c768c-2080-40f4-9265-7dd80ffbbfb9 |

### Integrity Verification

|                                    |  |
|------------------------------------|--|
| <p>✓ <b>INTEGRITY VERIFIED</b></p> |  |
| Algorithm                          | hmac-sha256-v1   |
| Root Hash                          | 10f4950b639f63e7ce84523edfecc557903cf5e761ede69ac8098a0a0ea9947d |
| http_headers                       | c82f3c4cd4e29795bad127f1b7ee138cb3d6cfb13efc9318854792d69f7ccfc0 |
| dns_responses                      | e6b2d839beadb5834cc3fe2ca5e841755befab2fef2e629e4849f4ba9479403  |
| tls_handshake                      | 960efc3153374f5321dc113d6d9b3d38ef0362a377cc748e2aee21ac8e2e30c7 |
| connectivity_log                   | 4b7a3cb71df762802a009f6433809e72e5319a3311692ab10a00f6c249359444 |
| dns_resolution_times               | fb573d0c9156d823527225286f51637463c1b7046fa96b3a6d2df1c30d6af0f  |

### 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   | 6.96       | 17.93      | 10.08         | 20.47         | +3.1       |
| Google     | IPv4      | 15.33      | 28.78      | 20.61         | 28.39         | +5.3       |
| Google     | IPv6      | 31.09      | 33.98      | 28.56         | 33.84         | -2.5       |
| Cloudflare | IPv4      | 21.11      | 22.21      | 19.58         | 20.25         | -1.5       |
| Cloudflare | IPv6      | 19.26      | 20.06      | 20.8          | 28.05         | +1.5       |



## DNS Evidence

### A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 5530
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
bernama.com. 3600 IN A 58.26.44.10
```

### DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 23875
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
com. 875 IN SOA a.gtld-servers.net. nstld.verisign-grs.com. 1781284038 1800 900 604800 900
```

### MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 45555
;; flags: qr rd ra; QUERY: 1, ANSWER: 5, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
bernama.com. 3600 IN MX 1 aspmx.l.google.com.
bernama.com. 3600 IN MX 5 alt2.aspmx.l.google.com.
bernama.com. 3600 IN MX 10 alt3.aspmx.l.google.com.
bernama.com. 3600 IN MX 5 alt1.aspmx.l.google.com.
bernama.com. 3600 IN MX 10 alt4.aspmx.l.google.com.
```

### NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 45303
;; flags: qr rd ra; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 4

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
bernama.com. 3600 IN NS ns4.bernama.com.
bernama.com. 3600 IN NS ns2.bernama.com.
bernama.com. 3600 IN NS ns.bernama.com.
```

### TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 25644
;; flags: qr rd ra; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
bernama.com. 3600 IN TXT "google-site-verification=fimQ2r5493cXQDJNVotjKs80jLDstyMZUWu2T65skzc"
bernama.com. 3600 IN TXT "google-gws-recovery-domain-verification=55964765"
bernama.com. 3600 IN TXT "v=spf1 ip4:103.8.147.12/30 ip4:219.92.54.177/32 ip4:103.156.82.32/29 ip4:103.156.83.32/29 include:_spf.google.com ~all"
```

### AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 59674
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
bernama.com. 3553 IN SOA ns.bernama.com. dnsadmin.bernama.com. 2016071295 3600 900 2419200 86400
```

### RRSIG

```
ns.bernama.com. dnsadmin.bernama.com. 2016071295 3600 900 2419200 86400
```

**DNSKEY**

```
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 47230
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
bernama.com. IN SOA ns.bernama.com. dnsadmin.bernama.com. 2016071295 3600 900 2419200 86400
```

**DNSSEC\_VALIDATION**

```
; unsigned answer
bernama.com. IN SOA ns.bernama.com. dnsadmin.bernama.com. 2016071295 3600 900 2419200 86400
```





```

VAYDVR0fBE0wSzBjOeEgRYZDaHR0cDovL2Nybc5zZWNoawdvLmNvbS9TZWNoawdv
UHVibGljU2VydmVyQXV0aGVudGljYXRpb255b290UjQ2LmNybDcBhAYIKwYBBQUH
AQEEeDB2ME8GCCsGAQUFBzAChkNodHRwOi8vY3J0LnNlY3RpZ28uY29tL1NlY3Rp
Z290dWJsawNTZXJ2ZXJBRoZw50aWNoZGlvbLJvb3RSNDYucDdjMCMGCCsGAQUF
BzABhdodHRwOi8vbnZzc5zZWNoawdvLmNvbTANBgkqhkiG9w0BAQwFAAOCAGEA
Yt0C9Fy+TqECFw40IospI92kLggoSZGPO5QXMBqmsGWZUQ7rux7cj1du6d9rd6C8
ze1B2eQjkrGkIL/0F1s7vSmgYVafsRoZd/IHUrkoQvX8FZwUsmPu7amgBfaY3g+d
q1x0jNGKb6I6Bzdl6LgMD9qxp+3i7GQ0nd9J8LFSietY6Z4jUBzVo0oz8iAU840F
h2HhAuiPw1ai0VnY38RTI+8kepGWVfGxfBWzwh9uIjeooIeaosVFvE8cmYUB4TSH
5dUyD0jHct2+8ceKEtIoFU/FfHq/mDaVnvcDCZxtIgitdMFQdMZAvehmObyhRdDD
4NQCs0gaI9AagFj4L90tkARzhQLNyRf87Kln+YU0lgCG9HLg3rG08q+Y4pplS0d
unQZ6ZxPNGIf0ApbPVf5hCe58EZwiWdHIMn9LPP6+F404y8NNugbQixBber+x536
WrZhFZLjEkhp7fFXf9r32rNPFb74X/U90Bdy4Lzp3+X1ukh1BuMxA/EEhDoTOS3L
7ABvc7BYSQubQ24900cdkIzUh3ZwDrakMVRbaTxUM2p24N6dB+ns2zptWCva6jzW
r8IWKIMxzxLPv5Kt3ePKcUdvkBU/smqjSczTzSjIoR5QQA6lN1ZRSnuHIWCvh
JELtKYNtAH41QJ6SAW066GrrUESwN/cgZzL4JLEqz1Y=
-----END CERTIFICATE-----
---
Server certificate
subject=CN = *.bernama.com
issuer=C = GB, O = Sectigo Limited, CN = Sectigo Public Server Authentication CA DV R36
---
No client certificate CA names sent
Peer signing digest: SHA256
Peer signature type: RSA-PSS
Server Temp Key: X25519, 253 bits
---
```



## HTTP Response Evidence

### IPv4 HTTP (port 80)

|              |             |
|--------------|-------------|
| HTTP Status  | 200         |
| Connected IP | 58.26.44.10 |
| Connect Time | 8.17 ms     |
| TTFB         | 6256.27 ms  |
| Total Time   | 6256.44 ms  |

#### Response Headers:

```
{
  "0": "HTTP/1.1 301 Moved Permanently",
  "1": "Date: Fri, 12 Jun 2026 17:07:55 GMT",
  "2": "Server: Apache",
  "3": "Strict-Transport-Security: max-age=31536000",
  "4": "Location: https://bernama.com/",
  "5": "Cache-Control: max-age=172800",
  "6": "Expires: Sun, 14 Jun 2026 17:07:55 GMT",
  "7": "Content-Type: text/html; charset=iso-8859-1",
  "9": "HTTP/2 302",
  "10": "strict-transport-security: max-age=31536000",
  "11": "x-frame-options: SAMEORIGIN",
  "12": "x-content-type-options: nosniff",
  "13": "referrer-policy: strict-origin",
  "14": "permissions-policy: geolocation=(),midi=(),sync-xhr=(),microphone=(),camera=(),magnetometer=(),gyroscope=(),fullscreen=(self),payment=()",
  "15": "location: https://bernama.com/en/",
  "16": "cache-control: max-age=172800",
  "17": "expires: Sun, 14 Jun 2026 17:08:00 GMT",
  "18": "content-type: text/html; charset=iso-8859-1",
  "19": "date: Fri, 12 Jun 2026 17:08:00 GMT",
  "20": "server: Apache",
  "22": "HTTP/2 200",
  "23": "x-powered-by: PHP/8.2.30",
  "24": "expires: Thu, 19 Nov 1981 08:52:00 GMT",
  "25": "cache-control: no-store, no-cache, must-revalidate",
  "26": "pragma: no-cache",
  "27": "set-cookie: PHPSESSID=eamh0j14p22lsho35atl57ifdd; path=/",
  "28": "strict-transport-security: max-age=31536000",
  "29": "x-frame-options: SAMEORIGIN",
  "30": "x-content-type-options: nosniff",
  "31": "referrer-policy: strict-origin",
  "32": "permissions-policy: geolocation=(),midi=(),sync-xhr=(),microphone=(),camera=(),magnetometer=(),gyroscope=(),fullscreen=(self),payment=()",
  "33": "x-xss-protection: 1; mode=block",
  "34": "vary: User-Agent",
  "35": "content-type: text/html; charset=UTF-8",
  "36": "date: Fri, 12 Jun 2026 17:08:00 GMT",
  "37": "server: Apache"
}
```

### IPv4 HTTPS (port 443)

|              |             |
|--------------|-------------|
| HTTP Status  | 200         |
| Connected IP | 58.26.44.10 |
| Connect Time | 4.35 ms     |
| TTFB         | 4796.91 ms  |
| Total Time   | 4797 ms     |

#### Response Headers:

```
{
  "0": "HTTP/2 302",
  "1": "strict-transport-security: max-age=31536000",
  "2": "x-frame-options: SAMEORIGIN",
  "3": "x-content-type-options: nosniff",
  "4": "referrer-policy: strict-origin",
  "5": "permissions-policy: geolocation=(),midi=(),sync-xhr=(),microphone=(),camera=(),magnetometer=(),gyroscope=(),fullscreen=(self),payment=()",
  "6": "location: https://bernama.com/en/",
  "7": "cache-control: max-age=172800",
  "8": "expires: Sun, 14 Jun 2026 17:08:06 GMT",
  "9": "content-type: text/html; charset=iso-8859-1",
  "10": "date: Fri, 12 Jun 2026 17:08:06 GMT",
  "11": "server: Apache",
}
```

```

"13": "HTTP/2 200",
"14": "x-powered-by: PHP/8.2.30",
"15": "expires: Thu, 19 Nov 1981 08:52:00 GMT",
"16": "cache-control: no-store, no-cache, must-revalidate",
"17": "pragma: no-cache",
"18": "set-cookie: PHPSESSID=2ki3kqo4pvi588nvq67flji6gr; path=/",
"19": "strict-transport-security: max-age=31536000",
"20": "x-frame-options: SAMEORIGIN",
"21": "x-content-type-options: nosniff",
"22": "referrer-policy: strict-origin",
"23": "permissions-policy: geolocation=(),midi=(),sync-xhr=(),microphone=(),camera=(),magnetometer=(),gyroscope=(),fullscreen=(self),payment=()",
"24": "x-xss-protection: 1; mode=block",
"25": "vary: User-Agent",
"26": "content-type: text/html; charset=UTF-8",
"27": "date: Fri, 12 Jun 2026 17:08:06 GMT",
"28": "server: Apache"
}
    
```

### Connectivity Test Evidence

| Test                        | Result                |
|-----------------------------|-----------------------|
| TCP Connect IPv4 → port 80  | 301 0.010225 0.051359 |
| TCP Connect IPv4 → port 443 | 302 0.039772 1.921675 |

### Test Node Network Evidence

|              |            |
|--------------|------------|
| Node Profile | dual stack |
|--------------|------------|

### Egress Connectivity

|             |                      |
|-------------|----------------------|
| IPv4 Egress | 76.13.221.142        |
| 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
    
```