

# IPv6 Readiness Report

theedgemalaysia.com — theedgemalaysia.com




Scan to verify

Category: News Portal • Generated: 04 Jul 2026, 22:30 MYT • Last Checked: 04 Jul 2026, 03:28 MYT • Verification ID: 365e8bd8-57ad-49e7-a80c-56b6069576d5

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

Audit trail: <https://ipv6.my6.my/audit/365e8bd8-57ad-49e7-a80c-56b6069576d5>

|   |                                      |   |
|---|--------------------------------------|---|
| <br><b>Partially Compliant</b><br><small>MGv6C-1.0</small> | <b>82%</b><br><b>Partial Support</b> | <b>IPV6-ONLY READINESS</b><br>Website: <span style="color: green;">✓ Ready</span><br>DNS: <span style="color: green;">✓ Ready</span><br>Email: <span style="color: red;">✗ Not Ready</span> |
|---|--------------------------------------|---|

| IPV6 ADDRESSES          |
|-------------------------|
| 2606:4700:10::6814:2c4a |
| 2606:4700:10::ac42:9d21 |

| IPV4 ADDRESSES |
|----------------|
| 172.66.157.33  |
| 104.20.44.74   |

## Network Information (WHOIS / RDAP)

|                | IPv6 Network                         | IPv4 Network                         |
|----------------|--------------------------------------|--------------------------------------|
| Organization   | Cloudflare, Inc.                     | Cloudflare, Inc.                     |
| Country        | US                                   | US                                   |
| ASN            | AS13335                              | AS13335                              |
| ASN Name       | CLOUDFLARENET - Cloudflare, Inc., US | CLOUDFLARENET - Cloudflare, Inc., US |
| Network (CIDR) | 2606:4700::/32                       | 172.64.0.0/13                        |

| Web Services (35%) |                              |        |   | 8 / 8 |
|--------------------|------------------------------|--------|---|-------|
| #                  | CHECK                        | RESULT | DETAIL  |       |
| 1                  | AAAA Record                  | PASS   | 2606:4700:10::6814:2c4a, 2606:4700:10::ac42:9d21  |       |
| 2                  | Globally Routable IPv6       | PASS   | All addresses are globally routable.  |       |
| 3                  | HTTP over IPv6               | PASS   | HTTP (port 80) responds over IPv6 — 83ms TTFB.  |       |
| 4                  | HTTPS over IPv6              | PASS   | HTTPS (port 443) responds over IPv6 — 36ms TTFB.  |       |
| 5                  | IPv6-Only Reachability       | PASS   | Site is fully reachable via IPv6-only.  |       |
| 6                  | TLS Certificate Valid (IPv6) | PASS   | Certificate valid — issued by C = US, O = Google Trust Services, CN = WE1, expires Aug 20 16:28:41 2026 GMT |       |
| 7                  | Dual-Stack (IPv4 + IPv6)     | PASS   | Domain has both A and AAAA records.   |       |
| 8                  | HTTP/3 (QUIC)                | PASS   | Alt-Svc: h3 header detected.  |       |

| DNS & DNSSEC (25%) |                             |        |   | 3 / 5 |
|--------------------|-----------------------------|--------|---|-------|
| #                  | CHECK                       | RESULT | DETAIL  |       |
| 1                  | NS Has AAAA Record          | PASS   | Nameserver has IPv6 address.                  |       |
| 2                  | NS Reachable via IPv6       | PASS   | Nameserver is reachable via IPv6 on port 53.  |       |
| 3                  | NS Answers Queries via IPv6 | PASS   | DNS queries answered 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.                       |       |

| # | CHECK                    | RESULT      | DETAIL                  |
|---|--------------------------|-------------|-------------------------|
| 7 | <b>RRSIG Valid</b>       | <b>FAIL</b> | No valid RRSIG found.   |
| 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> | 172.66.157.33, 104.20.44.74                      |
| 2 | <b>HTTP over IPv4</b>  | <b>PASS</b> | HTTP (port 80) responds over IPv4 — 78ms TTFB.   |
| 3 | <b>HTTPS over IPv4</b> | <b>PASS</b> | HTTPS (port 443) responds over IPv4 — 43ms TTFB. |

### Audit Trail & Evidence Record

|                   |  |
|-------------------|--|
| Verification ID   | 365e8bd8-57ad-49e7-a80c-56b6069576d5                           |
| Domain            | theedgemalaysia.com  |
| Check Mode        | Scheduled  |
| Status            | Completed  |
| Started           | 04 Jul 2026, 03:27:55 MYT                                      |
| Finished          | 04 Jul 2026, 03:28:46 MYT                                      |
| Test Node Profile | dual stack   |
| Engine Version    | 2.0.0  |
| MGv6C Version     | 1.0.0  |
| Audit URL         | https://ipv6.my6.my/audit/365e8bd8-57ad-49e7-a80c-56b6069576d5 |

### Integrity Verification

|                             |  |
|-----------------------------|--|
| ✓ <b>INTEGRITY VERIFIED</b> |  |
| Algorithm                   | hmac-sha256-v1   |
| Root Hash                   | e5c02ad78cc604834445da95d8fec2658a9bea902e96e5cade421fa3eeb639e3 |
| http_headers                | 09c47f1f9828b89ad29300c02ba2a77898766f518a7bf95d9e8c6e59f4fc2901 |
| dns_responses               | b9f66432ee3de86a37d69cd63a67145a86066ffb23f82284770f8c38f5c0e9e  |
| tls_handshake               | c008ce3a391c3a0beef46e5ef6b3da57aad721be16a61acdee11f1b7037fbdb  |
| connectivity_log            | 684a832aca1ab51e67f1176641b1d9f66cf84acdfbd1846af49f685f29fe8406 |
| dns_resolution_times        | ee44b99a0422c4d57932e2209198e8077fееe40f85fec30b7bc111c3c1da13a4 |

### 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 | 8.3.32   |
| 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   | 20.28      | 21.93      | 11.82         | 18.9          | -8.5       |
| Google     | IPv4      | 19.04      | 24.59      | 24.46         | 24.6          | +5.4       |
| Google     | IPv6      | 32.17      | 37.55      | 23.55         | 31.98         | -8.6       |
| Cloudflare | IPv4      | 20.82      | 21.95      | 19.84         | 20.1          | -1         |
| Cloudflare | IPv6      | 20.74      | 30.06      | 10.03         | 28.84         | -10.7      |



## DNS Evidence

### A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 52231
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
theedgemalaysia.com. 300 IN A 104.20.44.74
theedgemalaysia.com. 300 IN A 172.66.157.33
```

### DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 62123
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
com. 896 IN SOA a.gtld-servers.net. nstld.verisign-grs.com. 1783106891 1800 900 604800 900
```

### MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 1225
;; flags: qr rd ra; QUERY: 1, ANSWER: 7, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
theedgemalaysia.com. 300 IN MX 30 aspmx3.googlemail.com.
theedgemalaysia.com. 300 IN MX 30 aspmx4.googlemail.com.
theedgemalaysia.com. 300 IN MX 30 aspmx5.googlemail.com.
theedgemalaysia.com. 300 IN MX 10 aspmx.l.google.com.
theedgemalaysia.com. 300 IN MX 20 alt1.aspmx.l.google.com.
theedgemalaysia.com. 300 IN MX 20 alt2.aspmx.l.google.com.
theedgemalaysia.com. 300 IN MX 30 aspmx2.googlemail.com.
```

### NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 27602
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
theedgemalaysia.com. 86400 IN NS amy.ns.cloudflare.com.
theedgemalaysia.com. 86400 IN NS carl.ns.cloudflare.com.
```

### TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 63537
;; flags: qr rd ra; QUERY: 1, ANSWER: 9, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
theedgemalaysia.com. 120 IN TXT "globalsign-domain-verification=23E6CD9EDB052B8F6D74FA78999942AA"
theedgemalaysia.com. 120 IN TXT "globalsign-domain-verification=6A558947901E19ABF609B116450D183E"
theedgemalaysia.com. 120 IN TXT "google-site-verification=mfE4N51D6JXnh94BRPhHzYRgLnV00g3P_KNuJDhYb-k"
theedgemalaysia.com. 120 IN TXT "tiktok-developers-site-verification=0kM4G5bjZZNWIXVmNsN9E7VRgGyenaGe"
theedgemalaysia.com. 120 IN TXT "tiktok-developers-site-verification=aN6Gr4BCRFKcNjYfd6CDX6fTfqXf5QJW"
theedgemalaysia.com. 120 IN TXT "tiktok-developers-site-verification=li6cZ0SW7xj4UBN4MIoTypBz9VIXZeih"
theedgemalaysia.com. 120 IN TXT "v=spf1 include:enginemailer.net ~all"
theedgemalaysia.com. 120 IN TXT "dailymotion-domain-verification=dmgdk7t368obk7erz"
theedgemalaysia.com. 120 IN TXT "facebook-domain-verification=7mneopqmh14ju99e1t0e4q6632ms43"
```

### AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 55239
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1
```

```
;; OPT PSEUDOSECTION:  
; EDNS: version: 0, flags:; udp: 1232  
;; ANSWER SECTION:  
theedgemalaysia.com. 300 IN AAAA 2606:4700:10::ac42:9d21  
theedgemalaysia.com. 300 IN AAAA 2606:4700:10::6814:2c4a
```

**RRSIG**

```
amy.ns.cloudflare.com. dns.cloudflare.com. 2407497026 10000 2400 604800 1800
```

**DNSKEY**

```
;; Got answer:  
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 39612  
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1  
  
;; OPT PSEUDOSECTION:  
; EDNS: version: 0, flags:; udp: 1232  
;; AUTHORITY SECTION:  
theedgemalaysia.com. 1751 IN SOA amy.ns.cloudflare.com. dns.cloudflare.com. 2407497026 10000 2400 604800 1800
```

**DNSSEC\_VALIDATION**

```
; unsigned answer  
theedgemalaysia.com. 1751 IN SOA amy.ns.cloudflare.com. dns.cloudflare.com. 2407497026 10000 2400 604800 1800
```







```

Y2VzMQwwCgYDVQDEWXRTEWWTATBgqhkhjOPQIBBggqhkjOPQMBBwNCAARvzTr+
Z1dHTCEDhUDCR127WecPQMFcF4XGGTfn1XzthkubgdnXGh0LcgP4mMTG6J7/EFmP
LcA9eYmJbsPAvpWo4H+MIH7MA4GA1UdDwEB/wQEAwIBhjAdBgNVHSUEFjAUBggg
BgEFBQcDAQYIKwYBBQUHAWIwEgYDVR0TAQH/BAgwBgEB/wIBADAdBgNVHQ4EFgQU
kHeSNwfe/6jMqeZ72YB5e8yT+TgwHwYDVR0jBBgwFoAUGzW63T/STaj1dj8tT7F
avCUHYwNAYIKwYBBQUHAQEEDAmMCQGCCsGAQUFBzACHhodHRwOi8vaS5wa2ku
Z29vZy9yZy9nc5jcnQwKwYDVR0fBCQwIjAgoB6gHTYaaHR0cDovL2MucGtPLmdvb2cv
ci9yNC5jcmwwEwYDVR0gBAwwCjAIBgZngQwBAgEwCgYIKoZiZj0EAwMDaAAwZQIX
A0cCq1HW90VznX+0RGU1cxAQXomvtgMBzITPZCUFQ8jSBJSjz5keR0v9aYsAm5V
sQIwJonMaAFi54mrfhf0FNZEfuNMSQ6/bIBiNliyoX46FohQvKeIoJ99cx7sUkFN
7uJW
-----END CERTIFICATE-----
2 s:C = US, 0 = Google Trust Services LLC, CN = GTS Root R4
i:C = BE, 0 = GlobalSign nv-sa, OU = Root CA, CN = GlobalSign Root CA
a:PKKEY: id-ecPublicKey, 384 (bit); sigalg: RSA-SHA256
v:NotBefore: Nov 15 03:43:21 2023 GMT; NotAfter: Jan 28 00:00:42 2028 GMT
-----BEGIN CERTIFICATE-----
MIIDejCCAmKgAwIBAgIQf+UwvzMTQ77dghyQST2KGzANBqgkhiG9w0BAQsFADBX
MQswCQYDVQGEJCRTEZMBcGA1UEChMQR2xvYmFsU2lnbiBudilzYTEQMA4GA1UE
CxMHUm9vdCBDQTEbMBkGA1UEAxMSR2xvYmFsU2lnbiBSb290IENBMB4XDTEzMTEx
NTAzNDMyMVoXDTI4MDEyODAwMDA0MlowRzELMAkGA1UEBhMCMVmxIjAgBgNVBAoT
GUdub2dsZSBUc29vZy9nc5jcnQwKwYDVR0fBCQwIjAgoB6gHTYaaHR0cDovL2MucGtPLmdvb2cv
ci9yNC5jcmwwEwYDVR0gBAwwCjAIBgZngQwBAgEwCgYIKoZiZj0EAwMDaAAwZQIX
A0cCq1HW90VznX+0RGU1cxAQXomvtgMBzITPZCUFQ8jSBJSjz5keR0v9aYsAm5V
sQIwJonMaAFi54mrfhf0FNZEfuNMSQ6/bIBiNliyoX46FohQvKeIoJ99cx7sUkFN
7uJW
-----END CERTIFICATE-----
Server certificate
subject=CN = theedgemalaysia.com
issuer=C = US, 0 = Google Trust Services, CN = WE1
---
No client certificate CA names sent
Peer signing digest: SHA256
Peer signature type: ECDSA
Server Temp Key: X25519, 253 bits
---
SSL handshake has read 2849 bytes and written 401 bytes
Verification: OK
---
New, TLSv1.3, Cipher is TLS_AES_256_GCM_SHA384
Server public key is 256 bit
Secure Renegotiation IS NOT supported
Compression: NONE
Expansion: NONE

```



## HTTP Response Evidence

### IPv4 HTTP (port 80)

|              |               |
|--------------|---------------|
| HTTP Status  | 200           |
| Connected IP | 172.66.157.33 |
| Connect Time | 19.01 ms      |
| TTFB         | 77.6 ms       |
| Total Time   | 77.7 ms       |

#### Response Headers:

```
{
  "0": "HTTP/1.1 301 Moved Permanently",
  "1": "Date: Fri, 03 Jul 2026 19:28:45 GMT",
  "2": "Content-Type: text/html; charset=UTF-8",
  "3": "Connection: keep-alive",
  "4": "Location: https://theedgemalaysia.com/",
  "5": "Server: cloudflare",
  "6": "CF-RAY: a1584b8eae1e9d82-SIN",
  "7": "alt-svc: h3=\":443\"; ma=86400",
  "9": "HTTP/2 200",
  "10": "date: Fri, 03 Jul 2026 19:28:45 GMT",
  "11": "content-type: text/html; charset=utf-8",
  "12": "server: cloudflare",
  "13": "x-powered-by: Next.js",
  "14": "cache-control: private, max-age=30, must-revalidate",
  "15": "vary: Accept-Encoding",
  "16": "age: 6",
  "17": "last-modified: Fri, 03 Jul 2026 19:28:39 GMT",
  "18": "cf-cache-status: HIT",
  "19": "cf-ray: a1584b8eed989ccb-SIN",
  "20": "alt-svc: h3=\":443\"; ma=86400"
}
```

### IPv6 HTTP (port 80)

|              |                         |
|--------------|-------------------------|
| HTTP Status  | 200                     |
| Connected IP | 2606:4700:10::ac42:9d21 |
| Connect Time | 18.81 ms                |
| TTFB         | 62.62 ms                |
| Total Time   | 62.7 ms                 |

#### Response Headers:

```
{
  "0": "HTTP/1.1 301 Moved Permanently",
  "1": "Date: Fri, 03 Jul 2026 19:28:45 GMT",
  "2": "Content-Type: text/html; charset=UTF-8",
  "3": "Connection: keep-alive",
  "4": "Location: https://theedgemalaysia.com/",
  "5": "Server: cloudflare",
  "6": "CF-RAY: a1584b8e0a943fbd-SIN",
  "7": "alt-svc: h3=\":443\"; ma=86400",
  "9": "HTTP/2 200",
  "10": "date: Fri, 03 Jul 2026 19:28:45 GMT",
  "11": "content-type: text/html; charset=utf-8",
  "12": "server: cloudflare",
  "13": "x-powered-by: Next.js",
  "14": "cache-control: private, max-age=30, must-revalidate",
  "15": "vary: Accept-Encoding",
  "16": "age: 6",
  "17": "last-modified: Fri, 03 Jul 2026 19:28:39 GMT",
  "18": "cf-cache-status: HIT",
  "19": "cf-ray: a1584b8e3895712c-SIN",
  "20": "alt-svc: h3=\":443\"; ma=86400"
}
```

### IPv4 HTTPS (port 443)

|              |               |
|--------------|---------------|
| HTTP Status  | 200           |
| Connected IP | 172.66.157.33 |

|                     |          |
|---------------------|----------|
| <b>Connect Time</b> | 8.35 ms  |
| <b>TTFB</b>         | 43.84 ms |
| <b>Total Time</b>   | 43.88 ms |

**Response Headers:**

```
[
  "HTTP/2 200",
  "date: Fri, 03 Jul 2026 19:28:45 GMT",
  "content-type: text/html; charset=utf-8",
  "server: cloudflare",
  "x-powered-by: Next.js",
  "cache-control: private, max-age=30, must-revalidate",
  "vary: Accept-Encoding",
  "age: 6",
  "last-modified: Fri, 03 Jul 2026 19:28:39 GMT",
  "cf-cache-status: HIT",
  "cf-ray: a1584b8f3ca73e36-SIN",
  "alt-svc: h3=\":443\"; ma=86400"
]
```

**IPv6 HTTPS (port 443)**

|                     |                         |
|---------------------|-------------------------|
| <b>HTTP Status</b>  | 200                     |
| <b>Connected IP</b> | 2606:4700:10::6814:2c4a |
| <b>Connect Time</b> | 7.45 ms                 |
| <b>TTFB</b>         | 34.6 ms                 |
| <b>Total Time</b>   | 34.64 ms                |

**Response Headers:**

```
[
  "HTTP/2 200",
  "date: Fri, 03 Jul 2026 19:28:45 GMT",
  "content-type: text/html; charset=utf-8",
  "server: cloudflare",
  "x-powered-by: Next.js",
  "cache-control: private, max-age=30, must-revalidate",
  "vary: Accept-Encoding",
  "age: 6",
  "last-modified: Fri, 03 Jul 2026 19:28:39 GMT",
  "cf-cache-status: HIT",
  "cf-ray: a1584b8e7d0bf87a-SIN",
  "alt-svc: h3=\":443\"; ma=86400"
]
```

**Connectivity Test Evidence**

| Test                        | Result                |
|-----------------------------|-----------------------|
| TCP Connect IPv4 → port 80  | 301 0.007703 0.019632 |
| TCP Connect IPv6 → port 80  | 301 0.007403 0.018341 |
| TCP Connect IPv4 → port 443 | 200 0.008464 0.050322 |
| TCP Connect IPv6 → port 443 | 200 0.008024 0.050187 |

---

### 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
10.6.101.0/24 dev wg0 scope link
10.6.102.0/24 dev wg0 scope link
76.13.221.0/24 dev eth0 proto kernel scope link src 76.13.221.142
172.29.0.0/24 dev wg0 scope link
```