

# IPv6 Readiness Report

umobile.com.my — umobile.com.my



Scan to verify

Category: Telco • Generated: 04 Jul 2026, 22:14 MYT • Last Checked: 04 Jul 2026, 04:57 MYT • Verification ID: 0e23d37c-73e4-45e1-b4f1-390cfa5e4346

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

Audit trail: <https://ipv6.my6.my/audit/0e23d37c-73e4-45e1-b4f1-390cfa5e4346>

|  |   |  |
|--|---|--|
| <p><b>X</b></p> <p><b>Non-Compliant</b></p> <p>MGv6C-1.0</p> | <p><b>10%</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 |
|----------------|
| 192.82.60.245  |

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

| DNS & DNSSEC (25%) <span style="float: right;">0 / 5</span> |                                    |             |   |
|---|------------------------------------|-------------|---|
| #   | CHECK                              | RESULT      | DETAIL  |
| 1   | <b>NS Has AAAA Record</b>          | <b>FAIL</b> | No nameserver has an AAAA record.             |
| 2   | <b>NS Reachable via IPv6</b>       | <b>FAIL</b> | No nameserver is reachable over IPv6.         |
| 3   | <b>NS Answers Queries via IPv6</b> | <b>FAIL</b> | Nameserver does not answer queries over IPv6. |
| 4   | <b>DNSSEC Validated</b>            | <b>FAIL</b> | DNSSEC validation failed or zone is unsigned. |
| 5   | <b>Reverse DNS (PTR)</b>           | <b>FAIL</b> | No PTR record found.                          |
| 6   | <b>DS Record at Parent</b>         | <b>FAIL</b> | No DS record at parent.                       |
| 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%) <span style="float: right;">0 / 6</span> |                                |             |                                   |
|---|--------------------------------|-------------|-----------------------------------|
| #   | CHECK                          | RESULT      | DETAIL                            |
| 1   | <b>MX Record Exists</b>        | <b>FAIL</b> | No MX record found in DNS.        |
| 2   | <b>MX Server Has IPv6</b>      | <b>FAIL</b> | MX server has no IPv6 address.    |
| 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. |

| # | CHECK                | RESULT      | DETAIL                         |
|---|----------------------|-------------|--------------------------------|
| 5 | <b>SPF Record</b>    | <b>FAIL</b> | No SPF record found.           |
| 6 | <b>DKIM Selector</b> | <b>INFO</b> | No common DKIM selector found. |
| 7 | <b>DMARC Record</b>  | <b>FAIL</b> | No DMARC record found.         |

**IPv4 Baseline** (15%)

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| # | CHECK                  | RESULT      | DETAIL                             |
|---|------------------------|-------------|------------------------------------|
| 1 | <b>A Record</b>        | <b>PASS</b> | 192.82.60.245                      |
| 2 | <b>HTTP over IPv4</b>  | <b>PASS</b> | HTTP (port 80) responds over IPv4. |
| 3 | <b>HTTPS over IPv4</b> | <b>FAIL</b> | HTTPS is not accessible over IPv4. |

### Audit Trail & Evidence Record

|                   |  |
|-------------------|--|
| Verification ID   | 0e23d37c-73e4-45e1-b4f1-390cfa5e4346                           |
| Domain            | umobile.com.my   |
| Check Mode        | Manual   |
| Status            | Completed  |
| Started           | 04 Jul 2026, 04:55:08 MYT                                      |
| Finished          | 04 Jul 2026, 04:57:50 MYT                                      |
| Test Node Profile | dual stack   |
| Engine Version    | 2.0.0  |
| MGv6C Version     | 1.0.0  |
| Audit URL         | https://ipv6.my6.my/audit/0e23d37c-73e4-45e1-b4f1-390cfa5e4346 |

### Integrity Verification

|                             |  |
|-----------------------------|--|
| <b>✓ INTEGRITY VERIFIED</b> |  |
| Algorithm                   | hmac-sha256-v1   |
| Root Hash                   | ac1749fb43d2d12fd1852492c60d1e74117f6c0a37c93239f829a39ddab6c491 |
| http_headers                | 04a443663dd6680c32935d4b845ed524956b2020694c865ecc66ab385db18093 |
| dns_responses               | 4888b5f0b025f2b79b077f2c9c81fd964d1e539fac2b920ded8e982c666c006c |
| tls_handshake               | bd480032964c585cc3d1ebe09b5621d5c79f0ac843215c33832327b25a18a7ed |
| connectivity_log            | ac4e99a9f02a7137493bde2f7bf00e7f491db484f43c2bde23d1c34acdc6a6a  |
| dns_resolution_times        | 95facff832934a424286d01dcada3343ca81ec5629e74f71bbcc08ee49db64c  |

### 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   | 26.3       | 27.15      | 15.93         | 25.19         | -10.4      |
| Google     | IPv4      | 68.44      | 218.79     | 57.02         | 58.01         | -11.4      |
| Google     | IPv6      | 31.74      | 67.03      | 28.38         | 204.52        | -3.4       |
| Cloudflare | IPv4      | 20.2       | 20.21      | 9.89          | 20.81         | -10.3      |
| Cloudflare | IPv6      | 22.92      | 226.54     | 23.26         | 171.52        | +0.3       |



## DNS Evidence

### A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 32600
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
umobile.com.my. 1800 IN A 192.82.60.245
```

### DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 54468
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
com.my. 3409 IN SOA e.nic.my. hostmaster.nic.my. 2026052772 1800 900 604800 3600
```

### MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 33594
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
umobile.com.my. 1790 IN SOA ns1.ezydomain.com. technical.webnic.cc. 2025021220 28800 7200 1209600 7200
```

### NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 53717
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
umobile.com.my. 3600 IN NS ns2.ezydomain.com.
umobile.com.my. 3600 IN NS ns1.ezydomain.com.
```

### TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 41786
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
umobile.com.my. 1790 IN SOA ns1.ezydomain.com. technical.webnic.cc. 2025021220 28800 7200 1209600 7200
```

### AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 19213
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
umobile.com.my. 1790 IN SOA ns1.ezydomain.com. technical.webnic.cc. 2025021220 28800 7200 1209600 7200
```

### RRSIG

```
ns1.ezydomain.com. technical.webnic.cc. 2025021220 28800 7200 1209600 7200
```

### DNSKEY

```
;; Got answer:
```

```
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 4712
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
umobile.com.my. 1790 IN SOA ns1.ezydomain.com. technical.webnic.cc. 2025021220 28800 7200 1209600 7200
```

**DNSSEC\_VALIDATION**

```
; unsigned answer
umobile.com.my. 1790 IN SOA ns1.ezydomain.com. technical.webnic.cc. 2025021220 28800 7200 1209600 7200
```

---

## TLS Handshake Evidence

---

### IPv4 Connection

|            |               |
|------------|---------------|
| IP Used    | 192.82.60.245 |
| IP Version | 4             |

```
4047DE3DC27A0000:error:8000006E:system library: BIO_connect: Connection timed out:../crypto/bio/bio_sock2.c:114:calling connect()
4047DE3DC27A0000:error:10000067: BIO routines: BIO_connect: connect error:../crypto/bio/bio_sock2.c:116:
connect:errno=110
```

## HTTP Response Evidence

### IPv4 HTTP (port 80)

|              |                                |
|--------------|--------------------------------|
| HTTP Status  | 302                            |
| Connected IP | 57.155.24.78                   |
| Connect Time | 36.45 ms                       |
| TTFB         | 106.97 ms                      |
| Total Time   | 107.2 ms                       |
| Error        | Maximum (3) redirects followed |

### Response Headers:

```

{
  "0": "HTTP/1.1 301 Moved Permanently",
  "1": "Date: Fri, 03 Jul 2026 20:57:36 GMT",
  "2": "Server: Apache/2.4.58 (Ubuntu)",
  "3": "Location: https://u.com.my",
  "4": "Content-Type: text/html; charset=UTF-8",
  "6": "HTTP/1.1 302 Found",
  "7": "Content-Type: text/html",
  "8": "Content-length: 0",
  "9": "Connection: Close",
  "10": "Location: https://www.u.com.my/",
  "12": "HTTP/1.1 302 Moved Temporarily",
  "13": "Content-Length: 0",
  "14": "Connection: keep-alive",
  "15": "Date: Fri, 03 Jul 2026 04:57:26 GMT",
  "16": "X-Correlation-Id: 1dba35e9dcd74277b2759bb20500d3fa",
  "17": "Location: /en/personal",
  "18": "X-Content-Type-Options: nosniff",
  "19": "X-XSS-Protection: 1; mode=block",
  "20": "X-Frame-Options: SAMEORIGIN",
  "21": "X-Cache: Hit from cloudfront",
  "22": "Via: 1.1 148470925317853b656f5c4aeea32bcc.cloudfront.net (CloudFront)",
  "23": "X-Amz-Cf-Pop: SIN3-P4",
  "24": "X-Amz-Cf-Id: iJKgbenCUXLI0lRaIH04bgdbXidaCod9ZNR3Ci6eDwN1L8AmDVYDg==",
  "25": "Age: 57611",
  "26": "X-FRAME-OPTIONS: SAMEORIGIN",
  "28": "HTTP/1.1 302 Moved Temporarily",
  "29": "Content-Length: 0",
  "30": "Connection: keep-alive",
  "31": "Date: Fri, 03 Jul 2026 04:57:26 GMT",
  "32": "X-Correlation-Id: 46b06a97f43e482db9edf43a12e2d1ff",
  "33": "Location: /en/personal/home",
  "34": "X-Content-Type-Options: nosniff",
  "35": "X-XSS-Protection: 1; mode=block",
  "36": "X-Frame-Options: SAMEORIGIN",
  "37": "X-Cache: Hit from cloudfront",
  "38": "Via: 1.1 148470925317853b656f5c4aeea32bcc.cloudfront.net (CloudFront)",
  "39": "X-Amz-Cf-Pop: SIN3-P4",
  "40": "X-Amz-Cf-Id: h3rRBz23WDjxGGvk_8oBj0icV4itwtUmC21C21xmJrYy5YK03-90FQ==",
  "41": "Age: 57611",
  "42": "X-FRAME-OPTIONS: SAMEORIGIN"
}

```

### IPv4 HTTPS (port 443)

|              |   |
|--------------|---|
| HTTP Status  | 0   |
| Connected IP |   |
| Connect Time | 0 ms  |
| TTFB         | 0 ms  |
| Total Time   | 8002.48 ms  |
| Error        | Failed to connect to umobile.com.my port 443 after 8002 ms: Timeout was reached |

**Connectivity Test Evidence**

| Test                        | Result                |
|-----------------------------|-----------------------|
| TCP Connect IPv4 → port 80  | 301 0.007405 0.016354 |
| TCP Connect IPv4 → port 443 | 000 0.000000 0.000000 |

**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
```