


IPv6 Readiness Report

agc.gov.my — agc.gov.my

Category: Government • Generated: 21 Apr 2026, 18:54 MYT • Last Checked: 07 Mar 2026, 01:02 MYT • Verification ID: 851f47d2-14b9-4700-8d42-7d07a1f47c4e

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

Audit trail: <https://ipv6.my6.my/audit/851f47d2-14b9-4700-8d42-7d07a1f47c4e>

| | | |
|---|--------------------------------------|---|
|  Non-Compliant <small>MGv6C-1.0</small> | 27% No IPv6 Support | IPv6-ONLY READINESS Website: X Not Ready DNS: X Not Ready Email: X Not Ready |
|---|--------------------------------------|---|

| |
|---------------------------------------|
| IPv4 ADDRESSES 202.75.6.111 |
|---------------------------------------|

Network Information (WHOIS / RDAP)

| IPv4 Network | |
|----------------|-------------------------------------|
| Organization | GITN Sdn. Bhd. |
| Country | MY |
| ASN | AS17564 |
| ASN Name | GITN-PCN-AS-AP GITN M Sdn. Bhd., MY |
| Network (CIDR) | 202.75.4.0/22 |

| 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. |
| 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: default_domainkey |
| 7 | DMARC Record | PASS | DMARC record found. |

IPv4 Baseline (15%) 2 / 3

| # | CHECK | RESULT | DETAIL |
|---|------------------------|-------------|---|
| 1 | A Record | PASS | 202.75.6.111 |
| 2 | HTTP over IPv4 | FAIL | HTTP is not accessible over IPv4. |
| 3 | HTTPS over IPv4 | PASS | HTTPS (port 443) responds over IPv4 — 164ms TTFB. |

Audit Trail & Evidence Record

| | |
|-------------------|--|
| Verification ID | 851f47d2-14b9-4700-8d42-7d07a1f47c4e |
| Domain | agc.gov.my |
| Check Mode | Manual |
| Status | Completed |
| Started | 07 Mar 2026, 01:01:44 MYT |
| Finished | 07 Mar 2026, 01:02:35 MYT |
| Test Node Profile | dual stack |
| Engine Version | 2.0.0 |
| MGv6C Version | 1.0.0 |
| Audit URL | https://ipv6.my6.my/audit/851f47d2-14b9-4700-8d42-7d07a1f47c4e |

Integrity Verification

| | |
|-----------------------------|--|
| ✓ INTEGRITY VERIFIED | |
| Algorithm | hmac-sha256-v1 |
| Root Hash | d6a2f4b28a559b1f72deb8c752afbe912a1595b510bb67274d5c2f085e2c2679 |
| http_headers | d0ad61201a073a3da4b269e500a7a46bff4f0c94649304c2ebee61d9c9af77ef |
| dns_responses | a583405773c4c042cdeb492572b3bfc47d029939c34541239abfb2cc1f7f1a34 |
| tls_handshake | 7ec2588eb014ea232e2a119f05fafc99f21de109414bcb1a4dc7c0f58ae3978d |
| connectivity_log | 99531ad6cef8ddd6e6a066fcbe15e571858e83d93818d1009c7bbd1f89ad1f4a |
| dns_resolution_times | bb51e1bc86e87091324cf0ee94d292a9bc4aaa38a8055aee068bbc392a45a4e5 |

Test Node Identity

| | |
|-------------|---|
| Os | Linux srv1440888 6.8.0-101-generic #101-Ubuntu SMP PREEMPT_DYNAMIC Mon Feb 9 10:15:05 UTC 2026 x86_64 |
| Hostname | srv1440888 |
| Php Version | 8.3.30 |
| 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 | 18.41 | 20.51 | 18.08 | 19 | -0.3 |
| Google | IPv4 | 34.07 | 34.97 | 39.32 | 42.39 | +5.3 |
| Google | IPv6 | 47.7 | 50.76 | 52.06 | 59.22 | +4.4 |
| Cloudflare | IPv4 | 19.96 | 21.9 | 10.03 | 20.94 | -9.9 |
| Cloudflare | IPv6 | 9.97 | 10.03 | 9.74 | 9.98 | -0.2 |

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 4960
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
agc.gov.my. 3600 IN A 202.75.6.111
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 12339
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
gov.my. 1771 IN SOA b.nic.my. hostmaster.nic.my. 2026018480 1800 900 604800 3600
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 12719
;; flags: qr rd ra; QUERY: 1, ANSWER: 5, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
agc.gov.my. 1678 IN MX 5 ALT1.aspmx.l.google.com.
agc.gov.my. 1678 IN MX 1 aspmx.l.google.com.
agc.gov.my. 1678 IN MX 10 ALT3.aspmx.l.google.com.
agc.gov.my. 1678 IN MX 5 ALT2.aspmx.l.google.com.
agc.gov.my. 1678 IN MX 10 ALT4.aspmx.l.google.com.
```

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 19089
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
agc.gov.my. 3600 IN NS ns1.agc.gov.my.
agc.gov.my. 3600 IN NS ns2.agc.gov.my.
```

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 58295
;; flags: qr rd ra; QUERY: 1, ANSWER: 6, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
agc.gov.my. 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 ip4:150.242.183.8/32 ip4:150.242.183.9/32 include:_spf.google.com -all"
agc.gov.my. 3600 IN TXT "tmes=cfd145e0aaf51f35b87b9e09a2ff146"
agc.gov.my. 3600 IN TXT "MS=6510D9DD438BA65004F3159C344187747876B2D5"
agc.gov.my. 3600 IN TXT "google-site-verification=6qapp2UIRz13aUWbsHY1t29dNfiB4Qm7MsnijKow5jE"
agc.gov.my. 3600 IN TXT "ppe-f33f72d7c823e378d40efc19921de8cdb2c133e8"
agc.gov.my. 3600 IN TXT "google-gws-recovery-domain-verification=65255894"
```

AAAA

```
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 50121
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
agc.gov.my. 1800 IN SOA ns1.agc.gov.my. administrator.agc.gov.my. 2026030104 3600 900 3600000 3600
```

RRSIG

```
ns1.agc.gov.my. administrator.agc.gov.my. 2026030104 3600 900 3600000 3600
```

DNSKEY

```
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 63807
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
agc.gov.my. 1800 IN SOA ns1.agc.gov.my. administrator.agc.gov.my. 2026030104 3600 900 3600000 3600
```

DNSSEC_VALIDATION

```
; unsigned answer
agc.gov.my. 3600 IN SOA ns1.agc.gov.my. administrator.agc.gov.my. 2026030104 3600 900 3600000 3600
```



```

NGh0dHA6Ly9jYWNlcnRzLmRpZ2ljZXJ0LmNvbS9EaWdpQ2VydEdsb2JhbFJvb3RHM15jcnQwQgYDR0fBDswOTA3oDWgM4YxaHR0cDovL2NybmMuZGlnaWNLcnQuY29tL0RpZ2ljZXJ0R2xvYmFsUm9vdEcyLmNybDA9BgnVHSAENjA0MAsgCWCsAGG/WwCATAHBgVngQwBATAIBgZngQwBAGewCAYGZ4EMAQICMAgGBmeBDAECAzANBgkqhkiG9w0BAQsFAA0CAQEAkPFwyyiXaZd8dP3A+iZ7U6utzWX9upwGnIrXWk0H7U1MVL+twcW1BSAUwdH/SvWgKtiwLa3JLko716f2b4gp/DA/JIS7w7d7kwcsr4drdjPtAFVsslme5LnQ89/nD/7d+MS5EHKBCQRfz5eelJl1js+aWNLJMX43AYGyZm0pGrFmCW3RbpD0ufovARTFXFZkAd19h6g4U5+LXUZtXMYnhIHUfoym05t558aI7Dd8KvwwVVo4chDYABPPThPbjc1qCmBaZx2vN4Ye5DUys/vZwP9BFohFrH/6j/f3IL16/RZkiMNCqVJUzKoZhm1Lesh3S28W2jmdv51b2EQJ8HmA==
-----END CERTIFICATE-----
2 s:C = US, 0 = DigiCert Inc, OU = www.digicert.com, CN = DigiCert Global Root G2
i:C = US, 0 = DigiCert Inc, OU = www.digicert.com, CN = DigiCert Global Root G2
a:PKKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA256
v:NotBefore: Aug 1 12:00:00 2013 GMT; NotAfter: Jan 15 12:00:00 2038 GMT
-----BEGIN CERTIFICATE-----
MIIDjjCCAnagAwIBAgIQAzrx5qcRqaC7KG5xHQ65TANBgkqhkiG9w0BAQsFADBBMQswCQYDVQQGEwJVUzEVMBMGA1UEChMMRGlnaWNLcnQwQgsw5jMRkwFwYDVoQExB3d3cuZGlnaWNLcnQuY29tMSAwHgYDVoQExdEaWdpQ2VydCBHbG9iYWwUm9vdCBHMjAeFw0xMzA4MDExMjAwMDBaFw0zODAxMTUxMjAwMDBaMGExCzAJBgNVBAYTALVTMRUwEwYDVoQExEaWdpQ2VydCBJbmMxGTAXBgNVBAsTEHd3dy5kaWdpY2VydC5jb20xIDAeBgNVBAMTF0RpZ2ljZXJ0IEEdsb2JhbCBSb290IEcyMIIIBjANBgkqhkiG9w0BAQEFAA0CAQ8AMIIBCgKCAQEAuzfNnN7a8myaJctSnX/RrohCgin9RLUyfuI2/0u8jQjKT65qsGGmvPrC3oXgkRRLpimn7Wo6h+4FR1IAWsuLecYxpsMNzaHxmx1x7e/dfgy5SDN67sH0N03Xss0r0up5/kqbit0tS2pLYL6ZtrAGCSYP9PIUky92eQq2EGnI/yuum06ZiYa7XzV+hdG82MHauVBJVJ8zUtlLuNjbd134/tJS7sVQepj5WztC07TG1F8PapsPlUwtP1MVYwnSlcUfIKdzX0S0xZKBgyMUNGPHgm+F6HmIcr9g+UQ

```


HTTP Response Evidence

IPv4 HTTP (port 80)

| | |
|--------------|--|
| HTTP Status | 0 |
| Connected IP | |
| Connect Time | 0 ms |
| TTFB | 0 ms |
| Total Time | 8001.86 ms |
| Error | Failed to connect to agc.gov.my port 80 after 8001 ms: Timeout was reached |

IPv4 HTTPS (port 443)

| | |
|--------------|--------------|
| HTTP Status | 200 |
| Connected IP | 202.75.6.111 |
| Connect Time | 13.74 ms |
| TTFB | 148.59 ms |
| Total Time | 148.71 ms |

Response Headers:

```
{
  "0": "HTTP/1.1 301 Moved Permanently",
  "1": "Date: Fri, 06 Mar 2026 09:02:30 GMT",
  "2": "Content-Type: text/html",
  "3": "Content-Length: 162",
  "4": "Connection: keep-alive",
  "5": "Location: https://www.agc.gov.my/",
  "6": "Upgrade: HTTP/2.0",
  "7": "Connection: Upgrade",
  "8": "Access-Control-Allow-Methods: GET, POST, OPTIONS, HEAD",
  "9": "Access-Control-Allow-Headers: DNT,User-Agent,X-Requested-With,If-Modified-Since,Cache-Control,Content-Type,Range",
  "10": "Access-Control-Expose-Headers: Content-Length,Content-Range",
  "11": "Access-Control-Max-Age: 31536000",
  "12": "X-Content-Type-Options: nosniff",
  "13": "X-Frame-Options: SAMEORIGIN",
  "14": "X-XSS-Protection: 1; mode=block",
  "15": "Strict-Transport-Security: max-age=31536000; includeSubDomains; preload",
  "16": "X-Permitted-Cross-Domain-Policies: master-only",
  "17": "Content-Security-Policy: default-src 'self'; script-src 'self' 'unsafe-inline' 'unsafe-eval' blob: *; img-src 'self' data: *; style-src 'self' 'unsafe-inline' *; connect-src 'self' *; font-src 'self' data: *; frame-src 'self' *; object-src 'none'; media-src 'self' *;",
  "18": "Permissions-Policy: geolocation=(self 'https://nominatim.openstreetmap.org' 'https://maps.googleapis.com'),midi=(),sync-xhr=(),microphone=(),camera=(),magnetometer=(),gyroscope=(),fullscreen=(self),payment=()",
  "19": "Referrer-Policy: same-origin",
  "20": "Expect-CT: enforce; max-age=3600",
  "21": "Content-Security-Policy: upgrade-insecure-requests",
  "22": "Set-Cookie: Path=/; HttpOnly; Secure",
  "23": "Set-Cookie: TS01ad856e=013dffa9c233a9fc56e30b505c7078ecb13019d08cdbc681bacb0ed72483d56aadb10ebff44f63d4407d15fb4eba20179c124819e0556b05a09219c83dd362829848eb45a; Path=/",
  "25": "HTTP/1.1 200 OK",
  "26": "Date: Fri, 06 Mar 2026 09:02:30 GMT",
  "27": "Content-Type: text/html; charset=UTF-8",
  "28": "Connection: keep-alive",
  "29": "Vary: Accept-Encoding",
  "30": "Set-Cookie: _csrf=b3d8a267862947459d85dd40289988a072328d65a18b535c97f4d27ae94a59caa%3A2%3A%7Bi%3A0%3Bs%3A5%3A%22_csrf%22%3Bi%3A1%3Bs%3A32%3A%22j19udtYiMLM1q0ZW6MtsQ3mSLScVmikw%22%3B%7D; path=/; HttpOnly; SameSite=Lax",
  "31": "Upgrade: HTTP/2.0",
  "32": "Connection: Upgrade",
  "33": "Access-Control-Allow-Methods: GET, POST, OPTIONS, HEAD",
  "34": "Access-Control-Allow-Headers: DNT,User-Agent,X-Requested-With,If-Modified-Since,Cache-Control,Content-Type,Range",
  "35": "Access-Control-Expose-Headers: Content-Length,Content-Range",
  "36": "Access-Control-Max-Age: 31536000",
  "37": "X-Content-Type-Options: nosniff",
  "38": "X-Frame-Options: SAMEORIGIN",
  "39": "X-XSS-Protection: 1; mode=block",
  "40": "Strict-Transport-Security: max-age=31536000; includeSubDomains; preload",
  "41": "X-Permitted-Cross-Domain-Policies: master-only",
  "42": "Content-Security-Policy: default-src 'self'; script-src 'self' 'unsafe-inline' 'unsafe-eval' blob: *; img-src 'self' data: *; style-src 'self' 'unsafe-inline' *; connect-src 'self' *; font-src 'self' data: *; frame-src 'self' *; object-src 'none'; media-src 'self' *;",
  "43": "Permissions-Policy: geolocation=(self 'https://nominatim.openstreetmap.org' 'https://maps.googleapis.com'),midi=(),sync-xhr=(),microphone=(),camera=(),magnetometer=(),gyroscope=(),fullscreen=(self),payment=()",
  "44": "Referrer-Policy: same-origin",
  "45": "Expect-CT: enforce; max-age=3600",
}
```

```

"46": "Content-Security-Policy: upgrade-insecure-requests",
"47": "Set-Cookie: Path=/; HttpOnly; Secure",
"48": "Set-Cookie:
TS01ad856e=013dffacbc8db22934ecb3b04430ab134fd396a3a00ced809b4ba4f6de1ed9fea1b0ad28eb2197e0b942e38cbefae0d65bc66689f2a83eab464915b1823c43136c1136131728f37fd0030a27677f45fa34df7a4
Path=/"
"49": "Transfer-Encoding: chunked"
}

```

Connectivity Test Evidence

| Test | Result |
|-----------------------------|-----------------------|
| TCP Connect IPv4 → port 80 | 000 0.000000 0.000000 |
| TCP Connect IPv4 → port 443 | 301 0.006594 0.048898 |

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

```