

# IPv6 Readiness Report

agc.gov.my — agc.gov.my



Scan to verify

Category: Government • Generated: 13 Jun 2026, 20:13 MYT • Last Checked: 13 Jun 2026, 00:50 MYT • Verification ID: b6b28004-dd77-4c96-aada-90c7647280f9

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

Audit trail: <https://ipv6.my6.my/audit/b6b28004-dd77-4c96-aada-90c7647280f9>

<p><b>X</b></p> <p><b>Non-Compliant</b></p> <p>MGv6C-1.0</p>	<p><b>27%</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
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.	

#	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>	DKIM selector found: default_domainkey
7	<b>DMARC Record</b>	<b>PASS</b>	DMARC record found.

**IPv4 Baseline** (15%) 2 / 3

#	CHECK	RESULT	DETAIL
1	<b>A Record</b>	<b>PASS</b>	202.75.6.111
2	<b>HTTP over IPv4</b>	<b>FAIL</b>	HTTP is not accessible over IPv4.
3	<b>HTTPS over IPv4</b>	<b>PASS</b>	HTTPS (port 443) responds over IPv4 — 511ms TTFB.

### Audit Trail & Evidence Record

Verification ID	b6b28004-dd77-4c96-aada-90c7647280f9
Domain	agc.gov.my
Check Mode	Scheduled
Status	Completed
Started	13 Jun 2026, 00:49:58 MYT
Finished	13 Jun 2026, 00:50:43 MYT
Test Node Profile	ipv6 only
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/b6b28004-dd77-4c96-aada-90c7647280f9

### Integrity Verification

<b>✓ INTEGRITY VERIFIED</b>	
Algorithm	hmac-sha256-v1
Root Hash	e8255b0fe2f91cc0df97e35a9ea9039b416dcb0a259a6137ee123e5eb2ee47c9
http_headers	a6b638d7266121cb9ea930118df0b1329c7434ce9ae66178952a3596b6aba283
dns_responses	edd74869d8ad6a600ddea014779fe6749dc870f00601dabe4d4be514fe33e820
tls_handshake	7ec2588eb014ea232e2a119f05fafc99f21de109414bcb1a4dc7c0f58ae3978d
connectivity_log	a2abb1c53f310ba3c5bc481c9ecb33c5fbda018b981f7a829e8dabaaa47b1a20
dns_resolution_times	5357bc839c246467f527ce5a9aad3bf8a55464c2dfb04659687378fe902577bb

### 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	19.01	19.4	12.24	29.69	-6.8
Google	IPv4	35.46	48.19	33.7	48.02	-1.8
Google	IPv6	35.86	38.32	48.92	48.99	+13.1
Cloudflare	IPv4	9.16	22.23	10.75	24.38	+1.6
Cloudflare	IPv6	46.79	65.91	26.95	65.85	-19.8



## DNS Evidence

### A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 22065
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
agc.gov.my. 0000IN A 202.75.6.111
```

### DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 60319
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
gov.my. 00035700IN S0A e.nic.my. hostmaster.nic.my. 2026046673 1800 900 604800 3600
```

### MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 53584
;; flags: qr rd ra; QUERY: 1, ANSWER: 5, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
agc.gov.my. 003600IN MX 10 ALT4.ASPMX.L.GOOGLE.COM.
agc.gov.my. 003600IN MX 10 ALT3.ASPMX.L.GOOGLE.COM.
agc.gov.my. 003600IN MX 1 ASPMX.L.GOOGLE.COM.
agc.gov.my. 003600IN MX 5 ALT2.ASPMX.L.GOOGLE.COM.
agc.gov.my. 003600IN MX 5 ALT1.ASPMX.L.GOOGLE.COM.
```

### NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 52213
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 3

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
agc.gov.my. 0030IN NS ns2.agc.gov.my.
agc.gov.my. 0030IN NS ns1.agc.gov.my.
```

### TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 63876
;; flags: qr rd ra; QUERY: 1, ANSWER: 6, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
agc.gov.my. 0030IN TXT "google-gws-recovery-domain-verification=65255894"
agc.gov.my. 0030IN 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. 0030IN TXT "google-site-verification=6qapp2UIRz13aUWbsHY1t29dNfiB4Qm7MsnijKow5jE"
agc.gov.my. 0030IN TXT "tmes=cfd145e0aaf51f35b87b9e09a2ff146"
agc.gov.my. 0030IN TXT "MS=6510D9DD438BA65004F3159C344187747876B2D5"
agc.gov.my. 0030IN TXT "ppe-f33f72d7c823e378d40efc19921de8cdb2c133e8"
```

### AAAA

```
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 39490
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
agc.gov.my. 3571 IN SOA ns1.agc.gov.my. administrator.agc.gov.my. 2026052603 3600 900 3600000 3600
```

## RRSIG

```
ns1.agc.gov.my. administrator.agc.gov.my. 2026052603 3600 900 3600000 3600
```

## DNSKEY

```
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 26273
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
agc.gov.my. 3570 IN SOA ns1.agc.gov.my. administrator.agc.gov.my. 2026052603 3600 900 3600000 3600
```

## DNSSEC\_VALIDATION

```
; unsigned answer
agc.gov.my. 0 IN SOA ns1.agc.gov.my. administrator.agc.gov.my. 2026052603 3600 900 3600000 3600
```





```

NGh0dHA6Ly9jYWNlcnRzLmRpZ2ljZXJ0LmNvbS9EaWdpQ2VydEdsb2JhbFJvb3RHM15jcnQwQgYDR0fBDswOTA3oDWgM4YxaHR0cDovL2NybmMuZGlnawNlcnQuY29tL0RpZ2lDZXJ0R2xvYmFsUm9vdEcyLmNybDA9BgnVHSAENjA0MAsgCWCsAGG/WwCATAHBgVngQwBATAIBgZngQwBAGewCAYGZ4EMAQICMAgGBmeBDAECAzANBgkqhkiG9w0BAQsFAA0CAQEAKPFwyyiXaZd8dP3A+iZ7U6utzWX9upwGnIrXWk0H7U1MVL+twcW1BSAUwdH/SvWgKtiwLa3JLko716f2b4gp/DA/JIS7w7d7kwcsr4drdjPtAFVsslme5LnQ89/nD/7d+MS5EHKBCQRfz5eelJl1js+aWNIJXMX43AYGyZm0pGrFmCW3RbpD0ufovARTFXFZkAdl9h6g4U5+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-----
MIIDjjCCAnagAwIBAgIQAzrx5qcRqaC7KGSxHQn65TANBgkqhkiG9w0BAQsFADBhMQswCQYDVQQGEwJVUzEVMBMGA1UEChMMRGlnaWVudEcyLmNybDA9BgnVHSAENjA0MAsgCWCsAGG/WwCATAHBgVngQwBATAIBgZngQwBAGewCAYGZ4EMAQICMAgGBmeBDAECAzANBgkqhkiG9w0BAQsFAA0CAQEAQ8AMIIBCAQEAAUzfnNNx7a8myaJctSnX/RrohCgin9RLUyfuI2/0u8jqKt65qsGGmvPrC3oXgkRlPimn7Wo6h+4FR1IAWsuLecYxpsMNzaHxmx1x7e/dfgy5SDN67sH0N03Xss0r0up5/kqbit0tS2pLYL6ZtrAGCSYP9PIUky92eQq2EGnI/yuum06ZiYa7XzV+hdG82MHauVBJVJ8zUtLuNjbd134/tJS7sVQepj5WztC07TG1F8PapsplUwtP1MVYwnSlcuFiKdzX0S0xZKBgyMUNGPHgm+F6HmIcr9g+UQ

```



## HTTP Response Evidence

### IPv4 HTTP (port 80)

HTTP Status	0
Connected IP	
Connect Time	0 ms
TTFB	0 ms
Total Time	8002.59 ms
Error	Failed to connect to agc.gov.my port 80 after 8002 ms: Timeout was reached

### IPv4 HTTPS (port 443)

HTTP Status	200
Connected IP	202.75.6.111
Connect Time	13.43 ms
TTFB	444.84 ms
Total Time	444.97 ms

#### Response Headers:

```
{
  "0": "HTTP/1.1 301 Moved Permanently",
  "1": "Date: Fri, 12 Jun 2026 16:50:37 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=013dffa6bc572661835094be2bf145f574da4046583c072fa5bf46d4bf32b65f01e57e3530a89d958cdeee0692739e1615b101063edee4785bc51226da9d3eda0e519be4d9; Path=/",
  "25": "HTTP/1.1 200 OK",
  "26": "Date: Fri, 12 Jun 2026 16:50:37 GMT",
  "27": "Content-Type: text/html; charset=UTF-8",
  "28": "Connection: keep-alive",
  "29": "Vary: Accept-Encoding",
  "30": "Set-Cookie: _csrf=46cdc26a4627b496a2ee3d4d8cf1e9d6d582afc8bab305e98448b0239ca397c4a%3A2%3A%7Bi%3A0%3Bs%3A5%3A%22_csrf%22%3Bi%3A1%3Bs%3A32%3A%22Fo-
  img9CMoBP_Kzs9zrMr7vk6qyg4CMU%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=013dffacbc610cfa5ff54873770065e5a74f6340e8d1319e0ca05fedb6ab7539fb9a264c74c6653217b07d07438c39382e8903f17196714ed3a32cd3f37ec0af596e9a5bbf13523032c2be6bafb1ee6776318c8
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 0.006171 0.092347

**Test Node Network Evidence**

Node Profile	ipv6 only
--------------	-----------

**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
    
```