

# IPv6 Readiness Report

audit.gov.my — audit.gov.my



Scan to verify

Category: Government • Generated: 13 Jun 2026, 18:43 MYT • Last Checked: 13 Jun 2026, 00:51 MYT • Verification ID: dff8c3ba-b729-418f-844b-cb62149f973e

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

Audit trail: <https://ipv6.my6.my/audit/dff8c3ba-b729-418f-844b-cb62149f973e>

<p><b>X</b></p> <p><b>Non-Compliant</b></p> <p>MGv6C-1.0</p>	<p><b>42%</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>✓ Ready</b></p> <p>Email: <b>X Not Ready</b></p>
--------------------------------------------------------------	-------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------

IPv4 ADDRESSES
202.75.6.8

## 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%)				4 / 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	PASS	DNSSEC fully validated.	
5	Reverse DNS (PTR)	FAIL	No PTR record found.	
6	DS Record at Parent	PASS	DS record found at parent zone.	
7	RRSIG Valid	PASS	RRSIG signatures are current and valid.	

#	CHECK	RESULT	DETAIL
8	<b>Signing Algorithm</b>	<b>INFO</b>	RSASHA256

**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%) 1 / 3

#	CHECK	RESULT	DETAIL
1	<b>A Record</b>	<b>PASS</b>	202.75.6.8
2	<b>HTTP over IPv4</b>	<b>FAIL</b>	HTTP is not accessible over IPv4.
3	<b>HTTPS over IPv4</b>	<b>FAIL</b>	HTTPS is not accessible over IPv4.

### Audit Trail & Evidence Record

Verification ID	dff8c3ba-b729-418f-844b-cb62149f973e
Domain	audit.gov.my
Check Mode	Scheduled
Status	Completed
Started	13 Jun 2026, 00:50:15 MYT
Finished	13 Jun 2026, 00:51:03 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/dff8c3ba-b729-418f-844b-cb62149f973e

### Integrity Verification

<b>✓ INTEGRITY VERIFIED</b>	
Algorithm	hmac-sha256-v1
Root Hash	1d30519f6966654308ec009d2eeb72e4c28271383716c891bd2c0b9a89775323
http_headers	0a730817d0442f03817458b0854a0b0bf3daeddc8494d9c069ae6a7fc9f66e3
dns_responses	7ca6fced3c798e9fb9c92283dea2dfcbb9e8075d5cfc7c62a0af3f3a14e31
tls_handshake	c89b0cf57102e4af67dfd2ccec45da96986cb870cb486f42e08ae653e7b57540
connectivity_log	f11400ae1a63625b2e854dce7abd4803d63fe6f29182a68eeb6ca5679bd058bc
dns_resolution_times	96a0a9bcef9e9ee8d447a1ba358972e5efe568b7e2c90a0d44291d35f2d6f08

### 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	27.43	31.97	24.38	25.52	-3.1
Google	IPv4	48.26	52.12	35.08	47.65	-13.2
Google	IPv6	44.84	53.57	49.35	49.77	+4.5
Cloudflare	IPv4	16.56	30.22	25.59	28.29	+9
Cloudflare	IPv6	23.42	58.53	56.33	64.03	+32.9



**DNS Evidence**

**A**

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 40025
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
audit.gov.my. 3600 IN A 202.75.6.8
```

**DS**

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 11094
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
audit.gov.my. 3600 IN DS 7405 8 2 B298F407658BB33C18E9C2F19F074FD2FA22885C2477598E43B5B24C B67F96CF
audit.gov.my. 3600 IN DS 7405 8 1 7E5DD0D05B26D96ABE9E2426F857A48361D309C0
```

**MX**

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 4458
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 5, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
audit.gov.my. 300 IN MX 5 alt2.aspmx.l.google.com.
audit.gov.my. 300 IN MX 5 alt1.aspmx.l.google.com.
audit.gov.my. 300 IN MX 1 aspmx.l.google.com.
audit.gov.my. 300 IN MX 10 alt4.aspmx.l.google.com.
audit.gov.my. 300 IN MX 10 alt3.aspmx.l.google.com.
```

**NS**

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 35540
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
audit.gov.my. 3600 IN NS dns2.gitn.net.my.
audit.gov.my. 3600 IN NS dns1.gitn.net.my.
```

**TXT**

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 37720
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 5, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
audit.gov.my. 300 IN TXT "_globalsign-domain-verification=ww641CJ9ZvXSjx0xdaxeMjoNYVMAznXaudPTBC2SUN"
audit.gov.my. 300 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"
audit.gov.my. 300 IN TXT "MS=ms35589190"
audit.gov.my. 300 IN TXT "8NQWwfESbj8v1kBIhnaJkk6m0FhZjAgqKshDxZr43U="
audit.gov.my. 300 IN TXT "google-site-verification=ebMkMNCV-LmoLx0Dt_JFfm8eRAPH00emu40ejGe0Ujg"
```

**AAAA**

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 25489
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
audit.gov.my. 3600 IN SOA dns1.gitn.net.my. root.dns1.gitn.net.my. 2026052867 3600 900 3600000 3600
```

RRSIG

```
dns1.gitn.net.my. root.dns1.gitn.net.my. 2026052867 3600 900 3600000 3600
SOA 8 3 3600 20260712021900 20260612011900 8454 audit.gov.my. jW3XCAo8X6cs07Z7sPuLFhb6i1+ZVa0+lksAVo6aFEzjSiSQowj9kif3
Rgh6iiHLcXQIXlN2FM2sbomkGITwvRkEhQK2VdvPjHlVwVYyB+feoWp+ YUad9Ci8zxyqEchMqWLxEDkNstn2JkoYRnuZwoUrSW7M+8G6cRHYH+Pc gjI=
```

DNSKEY

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 18806
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
;; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
audit.gov.my. 3566 IN DNSKEY 256 3 8 AwEAAcBhbzRzGyvS1R0gzuH3ZJdWRI4VgkMwUsClnXMYgpPmrVudzEal LxKW/f3oXZJAUG16LL04mpJIViCba6bchEK2yF9b0csDYiZHZ51re03F
VZ+1P358FXtGmv9RKh2p87B6uJtU0BZCSgqCt/1V23AGsg0mat8iFZXr p4JNXEHb
audit.gov.my. 3566 IN DNSKEY 257 3 8 AwEAAbUepkZ30Uey1WSSJywwMeBbUHBpXQU+6+VUqW8cuBv7gMLfK1tV EnpAuIXsdH2uMEnAeptbYABRvsRk9XlKS5H4ui1RL4NhZDHG5BALoEy5
lt104mdxuInL/zhaebTviQqynBtF7NDDKfZTe4I/qcXFbiDpDd4YEMHK V0yFznpZ/7XHjW/mBw9yFtbNkwu3cuh+EVr1yyxoUK8Kdy7hwDnuYa6
cQB0XdmZi39x7E5tRh+G/Z0jHqNDQ12QWa92dSkeVQYTVud12PNbarD eEuL4K/VA4M2WtraRPIOHKY+EeZJ4DgScEJe24QJXmaFhj5gI5dgkPCN /YGTZoaPnNk=
```

DNSSEC\_VALIDATION

```
; fully validated
audit.gov.my. 3566 IN SOA dns1.gitn.net.my. root.dns1.gitn.net.my. 2026052867 3600 900 3600000 3600
audit.gov.my. 3566 IN RRSIG SOA 8 3 3600 20260712021900 20260612011900 8454 audit.gov.my. jW3XCAo8X6cs07Z7sPuLFhb6i1+ZVa0+lksAVo6aFEzjSiSQowj9kif3
Rgh6iiHLcXQIXlN2FM2sbomkGITwvRkEhQK2VdvPjHlVwVYyB+feoWp+ YUad9Ci8zxyqEchMqWLxEDkNstn2JkoYRnuZwoUrSW7M+8G6cRHYH+Pc gjI=
```





```
bg9iYwXTawduMRMwEQYDVQDEwPHB9iYwXTawduMB4XDTEyMTEwMzAwMDAwMFoX
DTM4MDExOTAzMTQwN1owUDEkMCIGA1UECXMhR2xvYmFsU2lnbiBF00MgUm9vdCBD
QSAtIFI1MRMwEQYDVQDEwPHB9iYwXTawduMRMwEQYDVQDEwPHB9iYwXTawdu
MHYwEAYHkoZiZj0CAQYFK4EEACIDYgAER0U01vt9Xb/p0dEh+J8LttV7HpI6SFkc
8GIxLcB6KP4ap1yztSyX50XUWPrRd21DosCHZTQKH3rd6zwoCwDtarvQZU4f8ke
h0vRnkmSh5SHDDqFsmafnVmTTZdhBoZkoIwQDA0BgNVHQ8BAf8EBAMCAQYwDwYD
VR0TAQH/BAUwAwEB/zAdBgNVHQ4EFgQUPEyP5JvqB8ohREom3m7e0oPQn1kwCgYI
KoZiZj0EAwMDAAAwZQ1xA0VpEsLu28YxuglB4Zf4+/2a4n0Sye18ZNPLBSWLVtmg
515dTguDnFt2KaAJjiFqYgIwcdK1j1zq0+F4CYWodZI7yFz9S08NdCKoC0JuxUn0
xwy8p2Fp8fc745rL+SvzZpA3
-----END CERTIFICATE-----
---
Server certificate
subject=C = MY, ST = Putrajaya, L = Putrajaya, O = Jabatan Audit Negara, CN = *.audit.gov.my
issuer=C = BE, O = GlobalSign nv-sa, CN = GlobalSign ECC OV SSL CA 2018
---
No client certificate CA names sent
Peer signing digest: SHA256
Peer signature type: ECDSA
Server Temp Key: X25519, 253 bits
---
SSL handshake has read 3015 bytes and written 378 bytes
Verification: OK
---
New, TLSv1.3, Cipher is TLS_AES_128_GCM_SHA256
Server public key is 256 bit
Secure Renegotiation IS NOT supported
```

## HTTP Response Evidence

### IPv4 HTTP (port 80)

HTTP Status	0
Connected IP	
Connect Time	0 ms
TTFB	0 ms
Total Time	8001.58 ms
Error	Failed to connect to audit.gov.my port 80 after 8001 ms: Timeout was reached

### IPv4 HTTPS (port 443)

HTTP Status	0
Connected IP	202.75.6.8
Connect Time	6.33 ms
TTFB	0 ms
Total Time	21.18 ms
Error	Recv failure: Connection reset by peer

## Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	000 0.000000 0.000000
TCP Connect IPv4 → port 443	000 0.006611 0.000000

## Test Node Network Evidence

Node Profile	dual stack
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### 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
```