

IPv6 Readiness Report

kabinet.gov.my — kabinet.gov.my



Scan to verify

Category: Government • Generated: 04 Jul 2026, 22:39 MYT • Last Checked: 04 Jul 2026, 03:07 MYT • Verification ID: 211855d5-e1c8-403d-b9d8-dab2a3617e5c

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

Audit trail: <https://ipv6.my6.my/audit/211855d5-e1c8-403d-b9d8-dab2a3617e5c>

<p>X</p> <p>Non-Compliant</p> <p>MGv6C-1.0</p>	<p>52%</p> <p>No IPv6 Support</p>	<p>IPv6-ONLY READINESS</p> <p>Website: X Not Ready</p> <p>DNS: ✓ Ready</p> <p>Email: X Not Ready</p>
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<p>IPv4 ADDRESSES</p> <p>202.75.6.115</p>
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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	Signing Algorithm	INFO	RSASHA256

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	No common DKIM selector found.
7	DMARC Record	PASS	DMARC record found.

IPv4 Baseline (15%) 3 / 3

#	CHECK	RESULT	DETAIL
1	A Record	PASS	202.75.6.115
2	HTTP over IPv4	PASS	HTTP (port 80) responds over IPv4 — 13ms TTFB.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 36ms TTFB.

Audit Trail & Evidence Record

Verification ID	211855d5-e1c8-403d-b9d8-dab2a3617e5c
Domain	kabinet.gov.my
Check Mode	Scheduled
Status	Completed
Started	04 Jul 2026, 03:07:04 MYT
Finished	04 Jul 2026, 03:07:38 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/211855d5-e1c8-403d-b9d8-dab2a3617e5c

Integrity Verification

<p>✓ INTEGRITY VERIFIED</p>	
Algorithm	hmac-sha256-v1
Root Hash	d29755efe233f24c9f5818f5e3ce3c8b57dca762f38e15dda4e1700fbf85e144
http_headers	6eefbc1f1d5f05b68698e479ee0bde4749f9e903cabff53cb4041a69de3d2302
dns_responses	44aabdb379d1b926d00a2cb1619cb4f768503ed9fe0a8f7dea74776a360a636d8
tls_handshake	b47a3befb9847bcd30865af01554d43ae2ece065a55fdd9693847389e959e599
connectivity_log	fc660bb01059469b6a9ef8a31253e621bd56b638ab09c56af6309ce3d8f7dec3
dns_resolution_times	e7cff9c0d48fcbdc179d4d843972aaba8f1f421f1ccfe2d25def1a409ca51e49

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	16.6	28.31	32.58	34.11	+16
Google	IPv4	82.03	89.67	105.07	119.51	+23
Google	IPv6	90.79	91.07	109.64	116.41	+18.9
Cloudflare	IPv4	28.45	30.69	26.81	28.66	-1.6
Cloudflare	IPv6	86.83	90.93	69.51	82.73	-17.3

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 31674
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
kabinet.gov.my. 3600 IN A 202.75.6.115
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 44951
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
kabinet.gov.my. 3600 IN DS 16666 8 1 561371BCE6F71623CADDCC5241CC22F73933D24A
kabinet.gov.my. 3600 IN DS 16666 8 2 8184876850590E72BC1AB9A306939E53512E2E96E3BE4C6796148907 42349571
kabinet.gov.my. 3600 IN DS 14387 8 1 F2868F42300F56292FE3F534A6F497DAC97E9C09
kabinet.gov.my. 3600 IN DS 14387 8 2 12EF0DC4F8444E28A016E2ED5BFF9183F0622BE562D86E8DBA3BE87 97759751
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 8769
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 5, AUTHORITY: 0, ADDITIONAL: 1

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

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 43961
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
kabinet.gov.my. 38400 IN NS dns1.gitn.net.my.
kabinet.gov.my. 38400 IN NS dns2.gitn.net.my.
```

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 7130
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 6, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
kabinet.gov.my. 3600 IN TXT "apple-domain-verification=XQND1oxpYBDQ805a"
kabinet.gov.my. 3600 IN TXT "MS=ms77685706"
kabinet.gov.my. 3600 IN TXT "MS=2AC4299F02270DF082B4C37351A735E02F929BF7"
kabinet.gov.my. 3600 IN TXT "google-site-verification=w_EvsIOIGpPPaLEwpN4SY_zEnkJLc0bnk_zt66sTi0g"
kabinet.gov.my. 3600 IN TXT "MS=46EDBF93496F38163FAF4195108DAA338C0CDAD8"
kabinet.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 ip4:203.217.177.176 ip4:202.75.7.11
include:_spf.google.com ~all"
```

AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 57565
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
```

```
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
kabinet.gov.my. 3600 IN SOA dns1.gitn.net.my. root.dns1.gitn.net.my. 2026052564 10800 3600 604800 38400
```

RRSIG

```
dns1.gitn.net.my. root.dns1.gitn.net.my. 2026052564 10800 3600 604800 38400
SOA 8 3 38400 20260802185812 20260703175812 53500 kabinet.gov.my. eyW0JyudXfDuV/RiCuSh+t/SLYKbno9BP5kdLGKz8Ic0u8VCLG2WFI03
d72CZ5ULddAjYkWvdfHZWLJaZeIuqRPkPkdqPPYpsnzf7guroxjdZDg7 LMLoaaSiCGUA07LUZC1v430DwGhuAAYk26+FoHdA86KTKuFhravGuQ 5UI=
```

DNSKEY

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 30584
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
kabinet.gov.my. 38374 IN DNSKEY 256 3 8 AwEAAauR+N4m42z0ynkfsN8VtCnBh/B7C0SGdLfeMyZ1Y5nJk7t7AKDu hdQVJQzp1ZEg0Ys3Mp3Bzj/X9dzPAEuH7jDTxMrhtps7lNvzoaj7AITB
B2mZ0GeUxBpJWeWbNTRm1LdcM5M0ZtPCF3rLpRQRts42Y3rptV2tINzn zB7+3WiX
kabinet.gov.my. 38374 IN DNSKEY 256 3 8 AwEAAccDYEpIDs4MMDRK1arzfwy3ubiw7dq7cctLx+VebxexQeXq7vJ Nz6p6Q9/coiDupLEyr0N2pGcuCDww4Kuj4A7D4/idHwgpouZfVHY2A7L
dWy+6y+uPCGucUDQ1XrKr1lTheJXztJN7bVnNEfaD+n+N3cp1oZNUMem vqtjEa5
kabinet.gov.my. 38374 IN DNSKEY 257 3 8 AwEAAeUzKNa+EFpiwZNi1eqVmbvplyLbuPueQcgzKpSRfUPaXY6VzWy6 iHlp4qA2CnnXuBeRVZ0kLY9pbwHqUI+7aVaRq8l0c5LD6jnd95/b/09
lBxzgBuTzME3aK09fd8cJ093+UzbV/2qAKNrtakt8zb0gSD3R0vg4d1q /LNKLMJcLyWgtbYqmbUQLRZEKcddAbNnRSwPlKREyo/3tmbYj8TRMgRj
fn09U3G5QELaHHQGIKI5suMU2WS7uo0o70/T2fL3F9msi/Nnsf0YmJ/0 zTx7yFH06lowHqCXPly/fPpu+yonPyh8hDP8g8Je0LMK66V0awxGwD IRUCTA+h478=
kabinet.gov.my. 38374 IN DNSKEY 257 3 8 AwEAAfDs2869rBY3DJoEgiiJ3wbv7T0hNA7DjdeGLQ3yng0erMT1lnA SV83zUWNJ/KocCXeKh0mSf60SNoiQdKs83fp1EKdweYf3kLEA4corLAv
802nABhk7H0zajrAutJunudIMYICamSV5hSs1fctJcCgA5w1wKGFakkt yjs/UJq6pWkMi4KLIKDUQGEi9c1xoePZr5sZpdmf1w8fcVwDhu8k54hw
RJD0zp5vqYG01QFB2Toxt3/ZdCNqPeW0HVnNah4Aps0CDNgIqfZkLrFK LMMLOG53vt6nEfeKuvtnWcrM3MkRY7Fy5HrKlXrAJYT2PWJ8seXOAY1n +oTPsK8NI38=
```

DNSSEC_VALIDATION

```
; fully validated
kabinet.gov.my. 38374 IN SOA dns1.gitn.net.my. root.dns1.gitn.net.my. 2026052564 10800 3600 604800 38400
kabinet.gov.my. 38374 IN RRSIG SOA 8 3 38400 20260802185812 20260703175812 53500 kabinet.gov.my. eyW0JyudXfDuV/RiCuSh+t/SLYKbno9BP5kdLGKz8Ic0u8VCLG2WFI03
d72CZ5ULddAjYkWvdfHZWLJaZeIuqRPkPkdqPPYpsnzf7guroxjdZDg7 LMLoaaSiCGUA07LUZC1v430DwGhuAAYk26+FoHdA86KTKuFhravGuQ 5UI=
```



```
PERLEMBAGAAN DAN PERHUBUNGAN ANTARA KERAJAAN", CN = www.kabinet.gov.my
issuer=C = BE, O = GlobalSign nv-sa, CN = GlobalSign ECC EV SSL CA 2018
---
No client certificate CA names sent
Peer signing digest: SHA384
Peer signature type: ECDSA
Server Temp Key: X25519, 253 bits
---
SSL handshake has read 2611 bytes and written 396 bytes
Verification: OK
---
New, TLSv1.3, Cipher is TLS_AES_256_GCM_SHA384
Server public key is 384 bit
Secure Renegotiation IS NOT supported
Compression: NONE
Expansion: NONE
No ALPN negotiated
Early data was not sent
Verify return code: 0 (ok)
---
DONE
```

HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	500
Connected IP	202.75.6.115
Connect Time	4.74 ms
TTFB	11.83 ms
Total Time	11.86 ms

Response Headers:

```
[
  "HTTP/1.1 500 Internal Server Error",
  "Content-Length: 39108",
  "Content-Type: text/html",
  "Alt-Svc: h3=\":443\"; ma=3600"
]
```

IPv4 HTTPS (port 443)

HTTP Status	500
Connected IP	202.75.6.115
Connect Time	7.56 ms
TTFB	34.29 ms
Total Time	34.32 ms

Response Headers:

```
[
  "HTTP/2 500",
  "content-length: 39108",
  "content-type: text/html",
  "alt-svc: h3=\":443\"; ma=3600",
  "strict-transport-security: max-age=15552000"
]
```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	500 0.006430 0.028220
TCP Connect IPv4 → port 443	500 0.005509 0.047642

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
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
```