

IPv6 Readiness Report

komunikasi.gov.my — komunikasi.gov.my



Scan to verify

Category: Government • Generated: 13 Jun 2026, 18:45 MYT • Last Checked: 13 Jun 2026, 00:56 MYT • Verification ID: b544aff6-7542-4607-90ce-b5d7445714e2

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

Audit trail: <https://ipv6.my6.my/audit/b544aff6-7542-4607-90ce-b5d7445714e2>

<p>X</p> <p>Non-Compliant</p> <p>MGv6C-1.0</p>	<p>32%</p> <p>No IPv6 Support</p>	<p>IPv6-ONLY READINESS</p> <p>Website: X Not Ready</p> <p>DNS: X Not Ready</p> <p>Email: X Not Ready</p>
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<p>IPv4 ADDRESSES</p> <p>203.217.179.111</p>

Network Information (WHOIS / RDAP)

IPv4 Network	
Organization	KPKK
Country	MY
ASN	AS17564
ASN Name	GITN-PCN-AS-AP - GITN (M) Sdn. Bhd., MY
Network (CIDR)	203.217.179.120/30

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%)				1 / 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	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%) 2 / 3

#	CHECK	RESULT	DETAIL
1	A Record	PASS	203.217.179.111
2	HTTP over IPv4	FAIL	HTTP is not accessible over IPv4.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 43ms TTFB.

Audit Trail & Evidence Record

Verification ID	b544aff6-7542-4607-90ce-b5d7445714e2
Domain	komunikasi.gov.my
Check Mode	Scheduled
Status	Completed
Started	13 Jun 2026, 00:55:33 MYT
Finished	13 Jun 2026, 00:56:17 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/b544aff6-7542-4607-90ce-b5d7445714e2

Integrity Verification

<p>✓ INTEGRITY VERIFIED</p>	
Algorithm	hmac-sha256-v1
Root Hash	d49ce63d5e67542b0e23c574701b0b415c45df984c101d74b119f7a3c151c509
http_headers	64abef41a913faee321ca0b4f8d516c4af5d0da8dc7bfae4623abc5e1d10aa4
dns_responses	c080c01b2f0485175c6656172d81983bed9e8397a7ecabc3f651723226a85b6b
tls_handshake	1c7f2aae9e054efc3634bc99ee44552068e53bd9f49f3ce0d29ed5fb1a93ad27
connectivity_log	8119d1a681a0cfe0455b99602464f7df5cd87a1b2ba377d054c0202eb670481c
dns_resolution_times	224f9e0fcd51d7107ee1c3e36f1b61e9c94590f3323b820da48b1cac5c6ba9ca

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	8.59	10.9	12.32	23.04	+3.7
Google	IPv4	48.2	68	44.42	48.65	-3.8
Google	IPv6	34.56	46.94	39.97	49.13	+5.4
Cloudflare	IPv4	26.59	27.79	22.82	22.86	-3.8
Cloudflare	IPv6	38.63	52.05	46.49	62.19	+7.9

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 7883
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
komunikasi.gov.my. 300 IN A 203.217.179.111
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 12897
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
komunikasi.gov.my. 86368 IN DS 57364 8 2 A68C80771110D67A2557FA23906BBC44956B974E9E361EF48F9D8AD0 4727FA67
komunikasi.gov.my. 86368 IN DS 57364 8 1 E190672E67D9CD9179DC33AE549A1232B2512175
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 36251
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 5, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
komunikasi.gov.my. 300 IN MX 10 ALT3.ASPMX.L.GOOGLE.COM.
komunikasi.gov.my. 300 IN MX 1 ASPMX.L.GOOGLE.COM.
komunikasi.gov.my. 300 IN MX 5 ALT1.ASPMX.L.GOOGLE.COM.
komunikasi.gov.my. 300 IN MX 10 ALT4.ASPMX.L.GOOGLE.COM.
komunikasi.gov.my. 300 IN MX 5 ALT2.ASPMX.L.GOOGLE.COM.
```

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 58857
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 3

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
komunikasi.gov.my. 300 IN NS orion.komunikasi.gov.my.
komunikasi.gov.my. 300 IN NS prime.komunikasi.gov.my.
```

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 19964
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
komunikasi.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 include:_spf.google.com ~all"
komunikasi.gov.my. 3600 IN TXT "MS=ms21610124"
komunikasi.gov.my. 3600 IN TXT "google-site-verification=EGgvvdVsAu-SN6tAt7qhjtqbmYH0RQhKsZISYn2m0v8"
```

AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 3533
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
komunikasi.gov.my. 300 IN SOA prime.komunikasi.gov.my. rangkai.komunikasi.gov.my. 2026061111 1200 7200 1209600 300
```

RRSIG

```
prime.komunikasi.gov.my. rangkai.komunikasi.gov.my. 2026061111 1200 7200 1209600 300
```

```
SOA 8 3 300 20260711053119 20260611053119 50656 komunikasi.gov.my. idzZV9p6kmYfmdmxVmYP76/vr0rCwpuQjba3NGG8ic5hMXWPBa/rIen
FnbrskDUqosc+aWJL0b0CkpnbsSK0HvMqqvbbpXf2rLEU0S2Dgff4ioio W1Y2WsIGrqaTspqb6xoU2CmAvnFPF0hSk9fY0nmEj3suK05hqIi9LVof r50=
```

DNSKEY

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 50963
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
komunikasi.gov.my. 257 3 8 AwEAAbpeWacQukcgUGo1vLnEdd4N72+ZY1Lv91Rx5cTaYaIpPrQQwzsB TkV2leW3EDVvIm6efmJmYuCc1PeuXbbdMgMBZ6eyhIKf77KNkmB0fCHh
pUKdGNisDLwOBSnq573gs0ZY81RNGJOAEVmxod0o60I1QBR0INy+DeS2 vLJUo3Sphi9KYDbbvY1v0sMBZF0RlpyFkg60fvCr6/CDzhluj8MrwTEm
xODYbyiLSNKDG3JKKtpabYTGmZ6vLt8nbU02nyRbvgC3wYBt766YND1s XGUnlua5STauP0CbAjqSzMCLQ5fljB+jvC8lFc4ArZRx0kWhY72h+WJJ 8YU3a0s+jNs=
komunikasi.gov.my. 256 3 8 AwEAAZrIHxbFRs2rJ7gpB07M5R6HNGSj//8N5t60F0i0rr3JqxHczMEI uqxkbjyz1XKBexv0m85k26KDDMyd4iGuDGrWntLdxvN850sRFJcmch1G
h9/CWAw4XFsVpYe1gSSuKasd0C/2150nhkcrZJkkenvD8T99GYxskd6p YoN8LmWX
```

DNSSEC_VALIDATION

```
; fully validated
komunikasi.gov.my. 257 3 8 AwEAAbpeWacQukcgUGo1vLnEdd4N72+ZY1Lv91Rx5cTaYaIpPrQQwzsB TkV2leW3EDVvIm6efmJmYuCc1PeuXbbdMgMBZ6eyhIKf77KNkmB0fCHh
komunikasi.gov.my. 256 3 8 AwEAAZrIHxbFRs2rJ7gpB07M5R6HNGSj//8N5t60F0i0rr3JqxHczMEI uqxkbjyz1XKBexv0m85k26KDDMyd4iGuDGrWntLdxvN850sRFJcmch1G
FnbrskDUqosc+aWJL0b0CkpnbsSK0HvMqqvbbpXf2rLEU0S2Dgff4ioio W1Y2WsIGrqaTspqb6xoU2CmAvnFPF0hSk9fY0nmEj3suK05hqIi9LVof r50=
```



```
Peer signing digest: SHA384
Peer signature type: ECDSA
Server Temp Key: X25519, 253 bits
---
SSL handshake has read 2571 bytes and written 399 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	0
Connected IP	203.217.179.111
Connect Time	7.47 ms
TTFB	0 ms
Total Time	10002.61 ms
Error	Operation timed out after 10002 milliseconds with 0 bytes received

IPv4 HTTPS (port 443)

HTTP Status	400
Connected IP	203.217.179.111
Connect Time	7.16 ms
TTFB	40.59 ms
Total Time	40.63 ms

Response Headers:

```
[
  "HTTP/1.1 400 Bad Request",
  "Date: Fri, 12 Jun 2026 16:48:12 GMT",
  "Connection: close",
  "Content-Length: 1414",
  "Content-Type: text/html; charset=UTF-8"
]
```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	301 0.006104 0.014308
TCP Connect IPv4 → port 443	301 0.006045 0.043101

Test Node Network Evidence

Node Profile	dual stack
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Egress Connectivity

IPv4 Egress	unreachable
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
```