IPv6 Readiness Report

kehakiman.gov.my — kehakiman.gov.my

Scan to verify

Category: Government • Generated: 02 Nov 2026, 03:11 MYT • Last Checked: 08 Aug 2026, 18:25 MYT • Verification ID: 06b2e9f5-d3c1-402e-9eed-fafd0a368c6a
Report generated from National IPv6 Readiness Monitor — https://ipv6.my6.my
Audit trail: https://ipv6.my6.my/audit/06b2e9f5-d3c1-402e-9eed-fafd0a368c6a

✗
Non-Compliant
MGv6C-1.0

33%
No IPv6 Support

IPV6-ONLY READINESS
Website: ✗ **Not Ready**
DNS: ✓ **Ready**
Email: ✗ **Not Ready**

IPV4 ADDRESSES
203.217.178.246

Network Information (WHOIS / RDAP)

	IPv4 Network
Organization	POJ
Country	MY
ASN	AS17564
ASN Name	GITN-PCN-AS-AP - GITN (M) Sdn. Bhd., MY
Network (CIDR)	203.217.178.245/32

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%) 2 / 6

#	CHECK	RESULT	DETAIL
1	**MX Record Exists**	PASS	MX record found.
2	**MX Server Has IPv6**	FAIL	MX server has no IPv6 address.
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**	FAIL	No DMARC record found.

IPv4 Baseline (15%) 1 / 3

#	CHECK	RESULT	DETAIL
1	**A Record**	PASS	203.217.178.246
2	**HTTP over IPv4**	FAIL	HTTP is not accessible over IPv4.
3	**HTTPS over IPv4**	FAIL	HTTPS is not accessible over IPv4.

Audit Trail & Evidence Record

Verification ID	06b2e9f5-d3c1-402e-9eed-fafd0a368c6a
Domain	kehakiman.gov.my
Check Mode	Manual
Status	Completed
Started	08 Aug 2026, 18:24:50 MYT
Finished	08 Aug 2026, 18:25:55 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/06b2e9f5-d3c1-402e-9eed-fafd0a368c6a

Integrity Verification

✓ **INTEGRITY VERIFIED**

Algorithm	hmac-sha256-v1
Root Hash	6d9580ffc9fbcfa7371fd5ad96f38a4b714066606782915beceb951343461d41
http_headers	50fe9b885dfd275789d89c646d7c3cd578546027baad44fdea0315ef379f9db8
dns_responses	7eaba043f56998921288c71b7d764b286d934d67b10656146193125cabb2e12b
tls_handshake	b4a8f274fbbe1b9ac5c5de3aebae68da45d6c106a012b2e6665406fece3a3468
connectivity_log	c571529628ae93d3d5180dec20e307692d772428bf4569b1feeb29b40bc18e78
dns_resolution_times	95cdbd5132362a6ba0bc7d0fea453c1e048503955093dca8d7969cbd6625f6cf

Test Node Identity

Os	Linux srv1440888 6.8.0-136-generic #136-Ubuntu SMP PREEMPT_DYNAMIC Wed Jul 1 21:53:05 UTC 2026 x86_64
Hostname	srv1440888
Php Version	8.3.33
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	22.91	23.2	23.07	23.45	+0.2
Google	IPv4	57.21	236.71	147.67	155.06	+90.5
Google	IPv6	42.63	43.24	223.83	238.23	+181.2
Cloudflare	IPv4	23.05	23.76	23.01	25.22	-0
Cloudflare	IPv6	47.22	48.82	25	51.06	-22.2

DNS Evidence

A

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 24770
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
kehakiman.gov.my.	300	IN	A	203.217.178.246
```

DS

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 10169
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
kehakiman.gov.my.	52308	IN	DS	60106 8 1 08CC665D62E8AE61972FDEC08C2B76748B281E37
kehakiman.gov.my.	52308	IN	DS	60106 8 2 4B22DF17EBF80F23C804405D3175300F10F717887DE06177477390CE 4825F9E3
```

MX

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 22967
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
kehakiman.gov.my.	300	IN	MX	10 smtp.kehakiman.gov.my.
kehakiman.gov.my.	300	IN	MX	10 smtp2.kehakiman.gov.my.
```

NS

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 35529
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
kehakiman.gov.my.	300	IN	NS	dns1.gitn.net.my.
kehakiman.gov.my.	300	IN	NS	dns2.gitn.net.my.
```

TXT

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 26704
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
kehakiman.gov.my.	300	IN	TXT	"MS=ms87989179"
kehakiman.gov.my.	300	IN	TXT	"v=spf1 ip4:150.242.181.229 ip4:163.53.152.215 ip4:103.42.207.220 ip4:110.159.225.227 ~all"
```

AAAA

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 64458
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
kehakiman.gov.my.	300	IN	SOA	dns1.gitn.net.my. root.dns1.gitn.net.my. 2026052811 10800 3600 604800 38400
```

RRSIG

```
dns1.gitn.net.my. root.dns1.gitn.net.my. 2026052811 10800 3600 604800 38400
SOA 8 3 300 20260906193628 20260807183628 18885 kehakiman.gov.my. tXGyiaxfIPnWKe8P1Ai2bikUNFlc4BP/ZddKqBNf/FGhHiPyj1ccEAYG
iIKSTolhZvoIebgxe8bNflkJ7GVueuySMV2rQ9Tu3Q0yhS9bEYoNglAF 3AMwTNSEWAt+Z68vMoZrSPRmnGHLc5ggX8pUwfIr8WhW7cHw7su9an7o uY4=
```

DNSKEY

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 58288
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
kehakiman.gov.my.□283□IN□DNSKEY□256 3 8 AwEAAfDjZ8y9ypqzvZOQqTEH4OGwYl9b28NEgAuCkHeIOW6bSUTwUPBb hfRU935j+5yeBGB8igbIqxkmFxoBRyyPyWHq1qmwcpZ2kzHqavi0Qmwl
p7prWa2dYejXVK1v+6bJnEoSWuWRCSDHB2yDsw5ekCrOGq+hOJS/ZkvF cPJO1s23
kehakiman.gov.my.□283□IN□DNSKEY□257 3 8 AwEAAdufVbQ5nSOLXX+8m0CAWHbZXoYnmbu6OzPPOdoliT+5yRQxmUnz /Vpm1kf8vsWOZzVqCGHpgKY/WPj5nczC9D8158pwUE6xnr+EIAfAdVFV
wH5UTiOe1kU8oDkZ0gIeiDwqd1AMahUGaNR7U4be5U/YY1xqw0SzcMYV eqQhIc330O/L3EKVTUo54+MlYjh0fdmtVdjw+cKyGB7zgUCh/MzGvJQ0
fPxWbqMsZql2dsxZcjpgn13TwEq95RgvmhDet4JSm4H+Ey+wkML5+frD tEALxRmUPwuorWe0I1lwoooKpnbSrjEKBtyo9pcMrACHR4+Fyc0rtH/g EJgaOVCdzyU=
```

DNSSEC_VALIDATION

```
; fully validated
kehakiman.gov.my.□283□IN□SOA□dns1.gitn.net.my. root.dns1.gitn.net.my. 2026052811 10800 3600 604800 38400
kehakiman.gov.my.□283□IN□RRSIG□SOA 8 3 300 20260906193628 20260807183628 18885 kehakiman.gov.my. tXGyiaxfIPnWKe8P1Ai2bikUNFlc4BP/ZddKqBNf/FGhHiPyj1ccEAYG
iIKSTolhZvoIebgxe8bNflkJ7GVueuySMV2rQ9Tu3Q0yhS9bEYoNglAF 3AMwTNSEWAt+Z68vMoZrSPRmnGHLc5ggX8pUwfIr8WhW7cHw7su9an7o uY4=
```

TLS Handshake Evidence

IPV4 Connection

IP Used	203.217.178.246
IP Version	4

HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	0
Connected IP	
Connect Time	0 ms
TTFB	0 ms
Total Time	8002.68 ms
Error	Failed to connect to kehakiman.gov.my port 80 after 8002 ms: Timeout was reached

IPv4 HTTPS (port 443)

HTTP Status	0
Connected IP	
Connect Time	0 ms
TTFB	0 ms
Total Time	8001.38 ms
Error	Failed to connect to kehakiman.gov.my port 443 after 8001 ms: Timeout was reached

Connectivity Test Evidence

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

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
fd7a:115c:a1e0::1136:5807 dev tailscale0 proto kernel metric 256 pref medium
fe80::/64 dev eth0 proto kernel metric 256 pref medium
fe80::/64 dev tailscale0 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
```