



IPv6 Readiness Report

kabinet.gov.my — kabinet.gov.my

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

Audit trail: <https://ipv6.my6.my/audit/148615fa-b96a-4c68-af2c-32215cfd62fb>

 Non-Compliant <small>MGv6C-1.0</small>	 52% Partial Support	IPV6-ONLY READINESS Website: ✗ Not Ready DNS: ✓ Ready Email: ✗ Not Ready
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IPV4 ADDRESSES 202.75.6.115

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.
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 — 14ms TTFB.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 28ms TTFB.

Audit Trail & Evidence Record

Verification ID	148615fa-b96a-4c68-af2c-32215cfd62fb
Domain	kabinet.gov.my
Check Mode	Manual
Status	Completed
Started	07 Mar 2026, 01:03:47 MYT
Finished	07 Mar 2026, 01:04:22 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/148615fa-b96a-4c68-af2c-32215cfd62fb

Integrity Verification

✓ INTEGRITY VERIFIED	
Algorithm	hmac-sha256-v1
Root Hash	83a0c3acfd7f307566c14dfc161f949304c9725c3730890ad60dde4f4b9a3dfb
http_headers	cc65d66e6edf095fe73e4562bb413e90182ff9ef7e92eed90a9abcde12104ee
dns_responses	58b14093f0a8dbbf57007d5ccdbf66032570635047c4cb3bce86bcc0342b08aa
tls_handshake	bd45498ba2e5b22bafdd2c880ae2acdcc05ad77d1374e95f772a72c4b4b5c589
connectivity_log	9033f5834b13ddf1376083a457a0d651b3cf98cfe3b21127d7fead58576e1717
dns_resolution_times	eff54700e1be975125c61083fe2aebb03a03aa083f9d42b30a23a38eed20fa47

Test Node Identity

Os	Linux srv1440888 6.8.0-101-generic #101-Ubuntu SMP PREEMPT_DYNAMIC Mon Feb 9 10:15:05 UTC 2026 x86_64
Hostname	srv1440888
Php Version	8.3.30
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	7.72	7.94	6	16.14	-1.7
Google	IPv4	60.56	73.98	25.94	96.63	-34.6
Google	IPv6	75.3	101.93	125.33	130.52	+50
Cloudflare	IPv4	27.65	31.08	20.92	24.09	-6.7
Cloudflare	IPv6	53.22	54.36	20	69.66	-33.2

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 22360
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
kabinet.gov.my. 3600 IN A 202.75.6.115
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 50435
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
kabinet.gov.my. 3600 IN DS 16666 8 1 561371BCE6F71623CADDCC5241CC22F73933D24A
kabinet.gov.my. 3600 IN DS 14387 8 1 F2868F42300F56292FE3F534A6F497DAC97E9C09
kabinet.gov.my. 3600 IN DS 14387 8 2 12EF0DC4F8444E28A016E2ED58FF918C3F0622BE562D86E80BA3BE87 97759751
kabinet.gov.my. 3600 IN DS 16666 8 2 8184876850590E72BC1AB9A306939E53512E2E96E3BE4C6796148907 42349571
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 6194
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 5, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
kabinet.gov.my. 3600 IN MX 1 aspmx.l.google.com.
kabinet.gov.my. 3600 IN MX 10 alt4.aspmx.l.google.com.
kabinet.gov.my. 3600 IN MX 5 alt2.aspmx.l.google.com.
kabinet.gov.my. 3600 IN MX 5 alt1.aspmx.l.google.com.
kabinet.gov.my. 3600 IN MX 10 alt3.aspmx.l.google.com.
```

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 63300
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
kabinet.gov.my. 21600 IN NS dns1.gitn.net.my.
kabinet.gov.my. 21600 IN NS dns2.gitn.net.my.
```

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 19621
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 6, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
kabinet.gov.my. 3600 IN TXT "google-site-verification=w_EvsI0IGpPPaLEwpN4SY_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"
kabinet.gov.my. 3600 IN TXT "apple-domain-verification=XQND1oxpYBDQ80Sa"
kabinet.gov.my. 3600 IN TXT "MS=ms77685706"
kabinet.gov.my. 3600 IN TXT "MS=2AC4299F02270DF082B4C37351A735E02F929BF7"
```

AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 30149
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
```

```
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
kabinet.gov.my. 1800 IN SOA dns1.gitn.net.my. root.dns1.gitn.net.my. 2025102302 10800 3600 604800 38400
```

RRSIG

```
dns1.gitn.net.my. root.dns1.gitn.net.my. 2025102302 10800 3600 604800 38400
SOA 8 3 38400 20260405084319 20260306074319 53500 kabinet.gov.my. lvgziy5okqhGiACMJxS4kVH4b+kmC3fA59WdWLLqHuCyRZE8Ce1Mi6uR
ypyXPdsyKYZoyTOZP21/R1G3ADwsDY5k6Z5bdSaQwoLegENuN+XbsoVu BgY25Vg8o0vvreZxdNAGbJiIbkkRrGVQUgIhFkDdDZTJHuKLoq8lzKcYA ehc=
```

DNSKEY

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 54
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
kabinet.gov.my. 1800 IN DNSKEY 257 3 8 AwEAAeUzkNa+EFpiwZni1eqVmbvplyLbuPueQcgzKpSRfUPaXY6VzWy6 iHlp4qA2CnnXuBeRVZ0kLY9pwbHggUI+7aVaRq8l0c5LD6jnd95/b/09
lBxzgBuTzME3ak09fd8cJ093+UzBV/2qAKNrtakt8zb0gSD3R0vg4d1q /LNKLMJcLyWgtbYqmBUQLRZEKcddAbNnRSwPLKREyo/3tmbYj8TRMgRj
fn09U3G5QELaHHQg1KI5suMU2W57uo0o70/T2fL3F9msi/Nnsf0YmJ/0 zTx7yFH06lowqHpCxPly/fPpu+yonPyh8hDP8g8Je0LMK66VkoawxGwD IRUCTA+h478=
kabinet.gov.my. 1800 IN DNSKEY 256 3 8 AwEAAccDYEpIDs4MMDRKlarzfwy3ubiw7dq7cctLx+VebxeoXqeXq7vJ Nz6p6Q9/coiDupLEyrON2pGcuCDww4Kuj4A7D4/iDhwg pouZfVHy2A7L
dwy+6y+uPCGucUDQ1XrKr11TheJXztJN7bVnNEfaD+n+N3cpIoZNumem vqtjEa5
kabinet.gov.my. 1800 IN DNSKEY 257 3 8 AwEAAfDs2869rBY3DJoEgiiJ3wbv7TQhNA7DjdeGLQ3yngy0erMT1nA SV83zUWNJ/KocCXeKh0mSr60SNoiQdKs83fp1EKdweYf3kLEA4corlAv
802nABhk7H0zajrAutJunudIMYICamSV5hSs1fctJcCgA5WlwKGFakkt yjs/UJq6pWkMi4KLlKDUQGEi9c1xoePZr5sZpdmf1w8fcVvDhu8k54hw
RJD0zp5vqYG01QFB2ToXt3/ZdCNqPeW0HVnNah4Aps0CDNgIqfZKkLrFK LMMLOG53vt6nEfEkuvtNwcrM3MkRY7Fy5HrKlXrAJYT2PWJ8seXOAYIn +oTPsK8NI38=
kabinet.gov.my. 1800 IN DNSKEY 256 3 8 AwEAAaUrN4m42z0ynkfsN8VtCnBh/B7C0SGdLfeMyZlY5nJk7t7AkDu hdQVJQzp1ZEg0Ys3Mp3Bzj/X9dzPAEuH7jDTxMrhtps7lNvzoaj7AITB
B2mZ0GeUxBpJWeWbNTRm1LdcM5M0ZtPCF3rLpRQRts42Y3rptV2tINzn zB7+3WiX
```

DNSSEC_VALIDATION

```
; fully validated
kabinet.gov.my. 1800 IN SOA dns1.gitn.net.my. root.dns1.gitn.net.my. 2025102302 10800 3600 604800 38400
kabinet.gov.my. 1800 IN RRSIG SOA 8 3 38400 20260405084319 20260306074319 53500 kabinet.gov.my. lvgziy5okqhGiACMJxS4kVH4b+kmC3fA59WdWLLqHuCyRZE8Ce1Mi6uR
ypyXPdsyKYZoyTOZP21/R1G3ADwsDY5k6Z5bdSaQwoLegENuN+XbsoVu BgY25Vg8o0vvreZxdNAGbJiIbkkRrGVQUgIhFkDdDZTJHuKLoq8lzKcYA ehc=
```



```
3Ru8MHsGCCsGAQUFBwEBBG8wbTAuBggrBgEFBQcwAYYiaHR0cDovL29jc3AyLmds
b2JhbHNoZ24uY29tL3Jvb3RyMzA7BggrBgEFBQcwAoYvaHR0cDovL3NlY3VyZS5n
bG9iYXZaWduLmNvbS9jYWlnLnQvc9vdCl1yMy5jcnQwNgYDVR0fBC8wLTAr0Cmg
J4YlaHR0cDovL2Nybc5nbG9iYXZaWduLmNvbS9yb290LXIzLmNybDAtBgNVHSAE
JjAKMAcGBWwEADAEBMAwGCSsGAQQBoDIAKAEwCwYJKwYBBAGgMgEBMA0GCsGSIb3
DQEBChUAA4IBAQCtTjIgw+tiW7E+sCTJ36nrC0I0xMpwE+nTaUG1xQJb+QE18vF
cPvEiqv80onEBkQJFQ1N5YdDu9kydDYXBmIheYD9Z//TLUBnLL7HBje1ugplB0xE
jplU52q0XLxe6nHfeEKnsLZ/Q/eDEsjZKxwF51SLG06ap+09hfdbfMXDkTsfa+yXg
dIxZRCud0QEBTZAow0iCs3rf5wVALh2ePEwqxEm1LkUhvkJMLSCobYcJ+vXprK
JijbPM602H1kqxNcD/nE7aCnm7g5GTaT04SCGy1QJ32r9mX34peuYz05pY+AA3
aVB22PDvfoNyGZyCLRtnt4KKg8dGJLYehc3D
-----END CERTIFICATE-----
---
Server certificate
subject=businessCategory = Government Entity, serialNumber = Government Entity, jurisdictionC = MY, C = MY, ST = Putrajaya, L = Putrajaya, street = "Jabatan Perdana
Menteri, Aras 4, Blok Timur, Bangunan Perdana Putra", O = "Bahagian Kabinet, Perlembagaan dan Perhubungan Antara Kerajaan", CN = www.kabinet.gov.my
issuer=C = BE, O = GlobalSign nv-sa, CN = GlobalSign GCC R3 EV TLS CA 2025
---
No client certificate CA names sent
Peer signing digest: SHA384
Peer signature type: ECDSA
Server Temp Key: X25519, 253 bits
---
SSL handshake has read 3343 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
```

HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	500
Connected IP	202.75.6.115
Connect Time	5.83 ms
TTFB	11.74 ms
Total Time	11.79 ms

Response Headers:

```
[
  "HTTP/1.1 500 Internal Server Error",
  "Content-Length: 39108",
  "Content-Type: text/html"
]
```

IPv4 HTTPS (port 443)

HTTP Status	500
Connected IP	202.75.6.115
Connect Time	5.64 ms
TTFB	28.36 ms
Total Time	28.38 ms

Response Headers:

```
[
  "HTTP/2 500",
  "content-length: 39108",
  "content-type: text/html",
  "strict-transport-security: max-age=15552000"
]
```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	500 0.005092 0.058262
TCP Connect IPv4 → port 443	500 0.006436 0.034713

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
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
```