

IPv6 Readiness Report

kpk.gov.my — kpk.gov.my



Scan to verify

Category: Government • Generated: 13 Jun 2026, 18:48 MYT • Last Checked: 13 Jun 2026, 00:52 MYT • Verification ID: dbff2450-caac-4efb-8fbc-32881da179d8

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

Audit trail: <https://ipv6.my6.my/audit/dbff2450-caac-4efb-8fbc-32881da179d8>

<p>X</p> <p>Non-Compliant</p> <p>MGv6C-1.0</p>	<p>47%</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>150.242.183.223</p>

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)	150.242.180.0/22

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%) 2 / 3

#	CHECK	RESULT	DETAIL
1	A Record	PASS	150.242.183.223
2	HTTP over IPv4	FAIL	HTTP is not accessible over IPv4.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 2751ms TTFB.

Audit Trail & Evidence Record

Verification ID	dbff2450-caac-4efb-8fbc-32881da179d8
Domain	kpk.gov.my
Check Mode	Scheduled
Status	Completed
Started	13 Jun 2026, 00:51:06 MYT
Finished	13 Jun 2026, 00:52:52 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/dbff2450-caac-4efb-8fbc-32881da179d8

Integrity Verification

✓ INTEGRITY VERIFIED

Algorithm	hmac-sha256-v1
Root Hash	6ea26a6b17818d14bd4b72108642b3638d5db1d596cbccd17e7c235787d3e225
http_headers	9c4ab29be78423dbfeda4d5b1863175fec46c02b4c7cfe4460ddc6829a28a2d5
dns_responses	21a55c2c7aa6dd9bcf82427eacd3202b342dce980027ae2ba4d30ba028714594
tls_handshake	6aa1ff707725e4d757b053e9e8aa8f7a47d76fc00b4245cd887738fb46de5b19
connectivity_log	1e4efe6424326b605e409c4f4eba10b10e61e4eb386143c2473b30a2883cf7d7
dns_resolution_times	901cb18630ce979581870bd7736b60f1d5c66b772049c4ef83d0c755d0981d2b

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	19.13	21.23	6.9	18.07	-12.2
Google	IPv4	26.37	43.6	43.14	43.34	+16.8
Google	IPv6	29.24	31.77	30.82	40.47	+1.6
Cloudflare	IPv4	16.7	22.5	11.3	22.26	-5.4
Cloudflare	IPv6	18.25	23.53	40.13	43.41	+21.9

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 12214
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
kpk.gov.my. 3600 IN A 150.242.183.223
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 29489
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
kpk.gov.my. 86310 IN DS 46999 8 2 CAF64F789B33565C2786A7DF8D5FC39687A95DC82C508D04009B07FB 844275B7
kpk.gov.my. 86310 IN DS 46999 8 1 4FD5EB3F72F06734A6735816F5D9CA77CE6A78B9
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 39520
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 5, AUTHORITY: 0, ADDITIONAL: 1

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

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 31441
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

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

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 10873
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
kpk.gov.my. 3600 IN TXT "MS=A588D3AE048D0C788852E77E09140AD96B129CDF"
kpk.gov.my. 3600 IN TXT "google-site-verification=MN0b-wERQhrJVWjODRESzIdEPu62NBZqBwj0Cp4tmdE"
kpk.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"
```

AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 40364
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
kpk.gov.my. 3600 IN SOA dns1.gitn.net.my. planning.gitn.com.my. 2025081635 10800 3600 604800 38400
```

RRSIG

```
dns1.gitn.net.my. planning.gitn.com.my. 2025081635 10800 3600 604800 38400
```

```
SOA 8 3 3600 20260711143052 20260611133052 20055 kpk.gov.my. dwL4ziQuDERu4p6IuyGK5v7qzewu2tpnMtZqDlf+Mds5GmvGc8KZdQLL
ut+KiWtsQUdyhLHAgjotfGmGGgFfpj4UrXv0JUOLPNS/1WXj+m3xYyI b1WPZ9YcnarXjji30ID8K4IRTJhiVpHfKpCHe20Ws0qbI+T48u34Wq1F 0rk=
```

DNSKEY

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 6989
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
kpk.gov.my. 3600 IN DNSKEY 256 3 8 AwEAAa13NPSnAH3njY5bc1HeI8a8NTCutEiqxQ1CUEBaY0nw8kAur1Nt LVHtdTbp7fV6+K1jvr+pYMd3l1VFWfcJ1jo7uNXa2LuGZmT5Mdw0Lv
z14TEeHjYLPcYGJdkln5I+KpzNG/C5/B5KE4ag8NSSBQSK0T0tolH6H lX+A0JLL
kpk.gov.my. 3600 IN DNSKEY 257 3 8 AwEAAc2Ti4h1AF+RcZLBw4DGtyCxKzo1zk0fcalqm2YYPczdfz0+nds/ 5bvm57UGionnQWJ292gweR4TnZpgxoCsHSGP0YaA21vsX6Wu/J3PoKnI
bYgRaYhT/kjCd04HdXcE4Vc0RmVIhQScLDVx7ifrvH4g7i9KtTXxwJQy bJdtMAqsxr08u6V9PAiKsU0Uw7ASxnfjya8Y0Rgx+/7ti3W/6kbsdcz
VNLg12lEzn9gS0zEF7mZ7u2ypko9Aw7MbTXvDALU7aDu2qKPE8gdM+uL WZjjowjEZh1KiejJ2Dy7sUWsGCKnRmJmuAjjG/44hx1k5sFP9G3DE+d2l vt6J5YxUC5M=
```

DNSSEC_VALIDATION

```
; fully validated
kpk.gov.my. 3600 IN SOA dns1.gitn.net.my. planning.gitn.com.my. 2025081635 10800 3600 604800 38400
kpk.gov.my. 3600 IN RRSIG SOA 8 3 3600 20260711143052 20260611133052 20055 kpk.gov.my. dwL4ziQuDERu4p6IuyGK5v7qzewu2tpnMtZqDlf+Mds5GmvGc8KZdQLL
ut+KiWtsQUdyhLHAgjotfGmGGgFfpj4UrXv0JUOLPNS/1WXj+m3xYyI b1WPZ9YcnarXjji30ID8K4IRTJhiVpHfKpCHe20Ws0qbI+T48u34Wq1F 0rk=
```


HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	0
Connected IP	
Connect Time	0 ms
TTFB	0 ms
Total Time	8002.16 ms
Error	Failed to connect to kpk.gov.my port 80 after 8002 ms: Timeout was reached

IPv4 HTTPS (port 443)

HTTP Status	200
Connected IP	150.242.183.223
Connect Time	15.48 ms
TTFB	2605.27 ms
Total Time	2605.47 ms

Response Headers:

```
{
  "0": "HTTP/1.1 302 Found",
  "1": "Server: Apache",
  "2": "Date: Fri, 12 Jun 2026 16:39:23 GMT",
  "3": "Content-Type: text/html; charset=UTF-8",
  "4": "Connection: keep-alive",
  "5": "Strict-Transport-Security: max-age=63072000; includeSubdomains; preload",
  "6": "X-Content-Type-Options: nosniff",
  "7": "Location: https://www.kpk.gov.my/kpk/ms",
  "8": "X-XSS-Protection: 1; mode=block",
  "9": "Feature-Policy: *'none'",
  "10": "Referrer-Policy: origin",
  "12": "HTTP/1.1 301 Moved Permanently",
  "13": "Server: Apache",
  "14": "Date: Fri, 12 Jun 2026 16:39:23 GMT",
  "15": "Content-Type: text/html; charset=utf-8",
  "16": "Connection: keep-alive",
  "17": "Strict-Transport-Security: max-age=31536000 ; includeSubDomains",
  "18": "X-Content-Type-Options: nosniff",
  "19": "Content-Security-Policy: default-src 'self' fonts.gstatic.com 'unsafe-inline' 'unsafe-eval' maps.google.com https://www.youtube.com/ https://www.google-analytics.com/ https://splask-analytics.mampu.gov.my https://www.googletagmanager.com http://www.youtube.com/ https://www.google.com/; frame-src www.facebook.com www.kpk.gov.my maps.google.com www.google.com https://www.youtube.com/ https://www.flipbookpdf.net/ https://edirektori.kpk.gov.my https://www.lgm.gov.my https://info.mpb.gov.my/ https://www.koko.gov.my https://www.google-analytics.com https://mpob.gov.my/ https://pdc.kpk.gov.my/ http://www.youtube.com/ https://www.google.com/; img-src maps.google.com 'self' berita.rtm.gov.my www.bharian.com.my www.thestar.com.my www.sinchew.com.my www.theborneopost.com www.kosmo.com.my www.utusan.com.my www.astroawani.com www.utusanborneo.com.my www.themalaysianinsight.com mediapermata.com.bn https://www.bernama.com/ www.sinarharian.com.my malaysiagazette.com themalaysianreserve.com www.bharian.com.my assets.bharian.com.my https://assets.nst.com.my/ https://assets.theedgemarkets.com https://apicms.thestar.com.my/ http://bernama.com/ https://assets.hmetro.com.my/ https://i2.wp.com/ http://pcms.bernama.com/ https://media.malaymail.com/ https://focusmalaysia.my/ https://harakahdaily.net/ http://www.dailyexpress.com.my/ https://img.astroawani.com/ http://www.astroawani.com/ https://edirektori.kpk.gov.my; style-src fonts.gstatic.com 'self' 'unsafe-inline'; frame-ancestors https://www.flipbookpdf.net/ https://edirektori.kpk.gov.my/ https://www.koko.gov.my https://info.mpb.gov.my/ https://www.lgm.gov.my https://splask-analytics.mampu.gov.my https://www.googletagmanager.com https://www.google-analytics.com https://pdc.kpk.gov.my/ http://www.youtube.com/ https://intranet.kpk.gov.my/ https://www.google.com/; upgrade-insecure-requests",
  "20": "P3P: CP=\"NOI ADM DEV PSAi COM NAV OUR OTR STP IND DEM\"",
  "21": "Expires: Wed, 17 Aug 2005 00:00:00 GMT",
  "22": "Last-Modified: Fri, 12 Jun 2026 16:52:45 GMT",
  "23": "Cache-Control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0, no-store, no-cache, must-revalidate, post-check=0, pre-check=0",
  "24": "Pragma: no-cache",
  "25": "Location: https://www.kpk.gov.my/kpk/",
  "26": "Set-Cookie: 1a20fb1d37c34bc02c1b9970c7777a57=238487cf713e325e7c89b6bcddd5003c; path=/; HttpOnly;Secure;SameSite=None",
  "27": "X-XSS-Protection: 1; mode=block",
  "28": "Feature-Policy: *'none'",
  "29": "Referrer-Policy: origin",
  "30": "X-Frame-Options: sameorigin",
  "32": "HTTP/1.1 200 OK",
  "33": "Server: Apache",
  "34": "Date: Fri, 12 Jun 2026 16:39:25 GMT",
  "35": "Content-Type: text/html; charset=utf-8",
  "36": "Connection: keep-alive",
  "37": "Strict-Transport-Security: max-age=31536000 ; includeSubDomains",
  "38": "X-Content-Type-Options: nosniff",
  "39": "Content-Security-Policy: default-src 'self' fonts.gstatic.com 'unsafe-inline' 'unsafe-eval' maps.google.com https://www.youtube.com/ https://www.google-analytics.com/ https://splask-analytics.mampu.gov.my https://www.googletagmanager.com http://www.youtube.com/ https://www.google.com/; frame-src www.facebook.com www.kpk.gov.my maps.google.com www.google.com https://www.youtube.com/ https://www.flipbookpdf.net/ https://edirektori.kpk.gov.my https://www.lgm.gov.my
```

```

https://info.mpb.gov.my/ https://www.koko.gov.my https://www.google-analytics.com https://mpob.gov.my/ https://pdc.kpk.gov.my/ http://www.youtube.com/
https://www.google.com/; img-src maps.google.com 'self' berita.rtm.gov.my www.bharian.com.my www.thestar.com.my www.sinchew.com.my www.theborneopost.com
www.kosmo.com.my www.utusan.com.my www.astroawani.com www.utusanborneo.com.my www.themalaysianinsight.com mediapermata.com.bn https://www.bernama.com/
www.sinarharian.com.my malaysiagazette.com themalaysianreserve.com www.bharian.com.my assets.bharian.com.my https://assets.nst.com.my/
https://assets.theedgemarkets.com https://apicms.thestar.com.my/ http://bernama.com/ https://assets.hmetro.com.my/ https://i2.wp.com/ http://pcms.bernama.com/
https://media.malaymail.com/ https://focusmalaysia.my/ https://harakahdaily.net/ http://www.dailyexpress.com.my/ https://img.astroawani.com/
http://www.astroawani.com/ https://edirektori.kpk.gov.my; style-src fonts.googleapis.com 'self' 'unsafe-inline'; frame-ancestors https://www.flipbookpdf.net/
https://edirektori.kpk.gov.my/ https://www.koko.gov.my https://info.mpb.gov.my/ https://www.lgm.gov.my https://splask-analytics.mampu.gov.my
https://www.googletagmanager.com https://www.google-analytics.com https://pdc.kpk.gov.my/ http://www.youtube.com/ https://intranet.kpk.gov.my/
https://www.google.com/; upgrade-insecure-requests",
"40": "P3P: CP=\"NOI ADM DEV PSAi COM NAV OUR OTRo STP IND DEM\"",
"41": "Expires: Wed, 17 Aug 2005 00:00:00 GMT",
"42": "Last-Modified: Fri, 12 Jun 2026 16:52:47 GMT",
"43": "Cache-Control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0",
"44": "Pragma: no-cache",
"45": "Set-Cookie: 1a20fb1d37c34bc02c1b9970c7777a57=42c1f65d7f60a27e12ac57d64822aab2; path=/; HttpOnly;HttpOnly;Secure;SameSite=None",
"46": "X-XSS-Protection: 1; mode=block",
"47": "Feature-Policy: *'none'",
"48": "Referrer-Policy: origin",
"49": "X-Frame-Options: sameorigin"
}
    
```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	000 0.000000 0.000000
TCP Connect IPv4 → port 443	302 0.006810 0.036398

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
    
```