

IPv6 Readiness Report

ktmb.com.my — ktmb.com.my



Scan to verify

Category: Enterprise • Generated: 04 Jul 2026, 22:14 MYT • Last Checked: 04 Jul 2026, 03:47 MYT • Verification ID: a284b46f-de8c-4905-a235-ce62f1386dd1

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

Audit trail: <https://ipv6.my6.my/audit/a284b46f-de8c-4905-a235-ce62f1386dd1>

<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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IPv4 ADDRESSES
1.9.14.68

Network Information (WHOIS / RDAP)

IPv4 Network	
Organization	gitn-central-brf
Country	MY
ASN	AS4788
ASN Name	TTSSB-MY - TM TECHNOLOGY SERVICES SDN. BHD., MY
Network (CIDR)	1.9.14.64/27

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%)				0 / 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	FAIL	DNSSEC validation failed or zone is unsigned.	
5	Reverse DNS (PTR)	FAIL	No PTR record found.	
6	DS Record at Parent	FAIL	No DS record at parent.	
7	RRSIG Valid	FAIL	No valid RRSIG found.	

#	CHECK	RESULT	DETAIL
8	Signing Algorithm	INFO	No DNSKEY record found.

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	DKIM selector found: mail_domainkey
7	DMARC Record	PASS	DMARC record found.

IPv4 Baseline (15%) 3 / 3

#	CHECK	RESULT	DETAIL
1	A Record	PASS	1.9.14.68
2	HTTP over IPv4	PASS	HTTP (port 80) responds over IPv4 — 48ms TTFB.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 26ms TTFB.

Audit Trail & Evidence Record

Verification ID	a284b46f-de8c-4905-a235-ce62f1386dd1
Domain	ktmb.com.my
Check Mode	Manual
Status	Completed
Started	04 Jul 2026, 03:47:12 MYT
Finished	04 Jul 2026, 03:47:35 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/a284b46f-de8c-4905-a235-ce62f1386dd1

Integrity Verification

<p>✓ INTEGRITY VERIFIED</p>	
Algorithm	hmac-sha256-v1
Root Hash	6e9147f87a7f23879f7daf53cccaa29211fcb083e904813a31cca0fad2b1256
http_headers	ef58983dc9a2a34ab572b1e0a8ad6b29cd6b7c0fb50565dcece01638188cf9b4
dns_responses	032a9bf1e816cc538b008b5efe4623e27b8b872441b149f990d894f78a93b432
tls_handshake	ec965409f872bdc3b50d1e5d97a435cf77bf285cbdba095e239ba288a65c731d
connectivity_log	8ff91af8144144121cd38055e8517d3bc5d286eaf3c97cf442047a4842b44574
dns_resolution_times	9bf8a3d0527778fffab81f4c6d29278f490da2c1f820407d967e34e3ccdcc033

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	21.87	23.95	11	20.3	-10.9
Google	IPv4	32.51	34.65	23.66	23.72	-8.9
Google	IPv6	35.04	43.43	23.55	31.85	-11.5
Cloudflare	IPv4	10.69	20.21	9.82	21.18	-0.9
Cloudflare	IPv6	38.09	39.17	45.9	56.69	+7.8

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 28085
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
ktmb.com.my. 300 IN A 1.9.14.68
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 11114
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
com.my. 2473 IN SOA e.nic.my. hostmaster.nic.my. 2026052755 1800 900 604800 3600
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 43714
;; flags: qr rd ra; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
ktmb.com.my. 300 IN MX 60 d302540.b.ess.in.barracudanetworks.com.
ktmb.com.my. 300 IN MX 60 d302540.a.ess.in.barracudanetworks.com.
ktmb.com.my. 300 IN MX 10 ktmb-com-my.mail.protection.outlook.com.
```

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 48037
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
ktmb.com.my. 3600 IN NS ns-4218.ipxcdn.com.
ktmb.com.my. 3600 IN NS ns-2379.ipxcdn.com.
ktmb.com.my. 3600 IN NS ns-3196.ipxcdn.com.
ktmb.com.my. 3600 IN NS ns-1510.ipxcdn.com.
```

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 40162
;; flags: qr rd ra; QUERY: 1, ANSWER: 6, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
ktmb.com.my. 300 IN TXT "adobe-sign-verification=4dd182d394a998a3fc2028c151e9bfb9"
ktmb.com.my. 300 IN TXT "v=spf1 ip4:1.9.14.69 include:spf.ess.in.barracudanetworks.com include:spf.protection.outlook.com include:sendgrid.net -all"
ktmb.com.my. 300 IN TXT "IGXcScXbY52qe7/CYsjutAlgkPEsEDnsQr90qYvJcFg="
ktmb.com.my. 300 IN TXT "MS=838E8A572CBD49B890D99722F6CC1EB206F3D5D3"
ktmb.com.my. 300 IN TXT "autodesk-domain-verification=zzIdtjQgEA4V7vQGBcqG"
ktmb.com.my. 300 IN TXT "MS=ms38101265"
```

AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 63861
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
ktmb.com.my. 3580 IN SOA ns-1510.ipxcdn.com. support.ipserverone.com. 2026041702 10000 240 604800 3600
```

RRSIG

```
ns-1510.ipxcdn.com. support.ipserverone.com. 2026041702 10000 240 604800 3600
```

DNSKEY

```
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 49471
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
ktmb.com.my. 3579 IN SOA ns-1510.ipxcdn.com. support.ipserverone.com. 2026041702 10000 240 604800 3600
```

DNSSEC_VALIDATION

```
; unsigned answer
ktmb.com.my. 3578 IN SOA ns-1510.ipxcdn.com. support.ipserverone.com. 2026041702 10000 240 604800 3600
```



```

VAYDVR0fBE0wSzBj0EegRYZDaHR0cDovL2Nybc5zZWNoawdvLmNvbS9TZWN0awdv
UHVibGljU2VydmyQXV0aGVudGllYXRpb255b290UjQ2LmNybDcBhAYIKwYBBQUH
AQEEoB2ME8GCCsGAQUFBzAChkNodHRwOi8vY3J0LnNlY3RpZ28uY29tL1NlY3Rp
Z290dWJsaWNTZXJ2ZXJBRoZw50aWVhdGlvbLjB3RSNDYucDdjMCMGCSGAQUF
BzABhdodHRwOi8vbnZzc5zZWNoawdvLmNvbTANBgkqhkiG9w0BAQwFAA0CAgEA
Yt0C9Fy+TqECFw40IospI92klGgoSZGP0S0XMBqmsGWZUQ7rux7cj1du6d9rd6C8
ze1B2eQjkrGkIL/0F1s7vSmgYVafsRoZd/IHUrkoQvX8FZUJsmPu7amgBfaY3g+d
q1x0jNGKb6I6BzdL6LgMD9qxp+3i7GQ0nd9J8LFSietY6Z4jUBzVo0oz8iAU840F
h2HhAuiPw1ai0VnY38RTI+8kepGWfGxfBwzwh9uIjeooIeaosVFvE8cmYUB4TSH
5dUyD0jHct2+8ceKEtIoFU/FfHq/mDaVnvcDCZxtIgitdMFQdMZAvehm0byhrDD
4NQCs0gaI9AagFj4L90tkARzhQLNyRf87Kln+YU0lgCG9HLg3rG08q+Y4pplS0d
unQZ6zxPngIf0ApbPVf5hCe58EZwiWdHIMn9LPP6+F404y8NNugbQixBber+x536
WrZhFZLjEkhp7fFXf9r32rNPFb74X/U90Bdy4Lzpz+X1ukh1BuMxA/EEhDoTOS3L
7ABvc7BYSQubQ24900cdkIzUh3ZwDrakMVRbaTxUM2p24N6dB+ns2zptWCva6jzW
r8IWKIMzxLPv5Kt3ePKcUdvkBU/smqjSczTzzSjIoR5QQA6lN1ZRSnuHIWCvh
JELtYnTAH41QJ6SAW066GrrUESwN/cgZzL4JLEqz1Y=
-----END CERTIFICATE-----
2 s:C = US, ST = New Jersey, L = Jersey City, O = The USERTRUST Network, CN = USERTrust RSA Certification Authority
i:C = US, ST = New Jersey, L = Jersey City, O = The USERTRUST Network, CN = USERTrust RSA Certification Authority
a:PKKEY: rsaEncryption, 4096 (bit); sigalg: RSA-SHA384
v:NotBefore: Feb 1 00:00:00 2010 GMT; NotAfter: Jan 18 23:59:59 2038 GMT
-----BEGIN CERTIFICATE-----
MIIF3jCCA8agAwIBAgIQAF1tMPyjjLGoG7xkdjUDLTANBgkqhkiG9w0BAQwFADCB
iDELMAkGA1UEBhMCVVMxEzARBgNVBAGTCk5ldyBkZXJzZXkxZDASBgNVBACTC0pl
cnNleSB0aXR5MR4wHAYDVQOKEwUaGUvVWVNFUURSVVNUIE5ldHdvcmxLjAsBgNV
BAMTJVVTRVJUcnVzdCBSU0EgQ2VydGlmawNhdGlvbiBBdXRob3JpdHkwHhcNMTEw
MjA0MDAwMDAwWWhcnMzZmMTE4MjM0TU5WjCBiDELMAkGA1UEBhMCVVMxEzARBgNV

```

HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	200
Connected IP	1.9.14.68
Connect Time	12.31 ms
TTFB	41.4 ms
Total Time	41.47 ms

Response Headers:

```
{
  "0": "HTTP/1.1 301 Moved Permanently",
  "1": "Content-Length: 143",
  "2": "Content-Type: text/html; charset=UTF-8",
  "3": "Location: https://ktmb.com.my/",
  "4": "Server:XXXXXXXXXXXXXXXXX",
  "5": "Date: Fri, 03 Jul 2026 19:47:34 GMT",
  "6": "Set-Cookie: cookiesession1=678B286931F64FFDA053C0C0B8026CD3;Expires=Sat, 03 Jul 2027 20:04:15 GMT;Path=/;HttpOnly",
  "7": "X-Frame-Options: SAMEORIGIN",
  "8": "X-Content-Type-Options: nosniff",
  "9": "X-XSS-Protection: 1; mode=block",
  "11": "HTTP/1.1 200 OK",
  "12": "Content-Length: 35878",
  "13": "Content-Type: text/html",
  "14": "Last-Modified: Thu, 02 Jul 2026 00:16:13 GMT",
  "15": "Accept-Ranges: bytes",
  "16": "ETag: \"12dbf3fdb79dd1:0\"",
  "17": "Server:XXXXXXXXXXXXXXXXX",
  "18": "Date: Fri, 03 Jul 2026 19:47:34 GMT",
  "19": "Set-Cookie: cookiesession1=678B2869564F280ED50ED380821D00FA;Expires=Sat, 03 Jul 2027 20:04:15 GMT;Path=/;HttpOnly",
  "20": "X-Frame-Options: SAMEORIGIN",
  "21": "X-Content-Type-Options: nosniff",
  "22": "X-XSS-Protection: 1; mode=block"
}
```

IPv4 HTTPS (port 443)

HTTP Status	200
Connected IP	1.9.14.68
Connect Time	4.37 ms
TTFB	37.92 ms
Total Time	37.95 ms

Response Headers:

```
[
  "HTTP/1.1 200 OK",
  "Content-Length: 35878",
  "Content-Type: text/html",
  "Last-Modified: Thu, 02 Jul 2026 00:16:13 GMT",
  "Accept-Ranges: bytes",
  "ETag: \"12dbf3fdb79dd1:0\"",
  "Server:XXXXXXXXXXXXXXXXX",
  "Date: Fri, 03 Jul 2026 19:47:35 GMT",
  "Set-Cookie: cookiesession1=678B2869065D69FE78E6522F193BA839;Expires=Sat, 03 Jul 2027 20:04:15 GMT;Path=/;HttpOnly",
  "X-Frame-Options: SAMEORIGIN",
  "X-Content-Type-Options: nosniff",
  "X-XSS-Protection: 1; mode=block"
]
```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	301 0.002729 0.009170
TCP Connect IPv4 → port 443	200 0.002635 0.034004

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
```