IPv6 Readiness Report

cybersecurity.my — cybersecurity.my

Scan to verify

Category: Government • Generated: 02 Nov 2026, 03:12 MYT • Last Checked: 08 Aug 2026, 18:25 MYT • Verification ID: 21c756de-4f14-4e85-ab13-bca4813e7daf
Report generated from National IPv6 Readiness Monitor — https://ipv6.my6.my
Audit trail: https://ipv6.my6.my/audit/21c756de-4f14-4e85-ab13-bca4813e7daf

⚠
Partially Compliant
MGv6C-1.0

63%
Partial Support

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

IPV6 ADDRESSES
2001:f40:29:1681:211:24:25:21

IPV4 ADDRESSES
211.24.25.21

Network Information (WHOIS / RDAP)

	IPv6 Network	IPv4 Network
Organization	TT DOTCOM SDN BHD	TT DOTCOM SDN BHD
Country	MY	MY
ASN	AS9930	AS9930
ASN Name	TTNET-MY - TIME dotCom Berhad No. 14, Jalan Majistret U1/26 Hicom Glenmarie Industrial Park 40150 Shah Alam Selangor, Malaysia, MY	TTNET-MY - TIME dotCom Berhad No. 14, Jalan Majistret U1/26 Hicom Glenmarie Industrial Park 40150 Shah Alam Selangor, Malaysia, MY
Network (CIDR)	2001:f40::/32	211.24.0.0/15

Web Services (35%) — 3 / 8

#	CHECK	RESULT	DETAIL
1	**AAAA Record**	PASS	2001:f40:29:1681:211:24:25:21
2	**Globally Routable IPv6**	PASS	All addresses are 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)**	PASS	Domain has both A and AAAA records.
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.

#	CHECK	RESULT	DETAIL
7	**RRSIG Valid**	PASS	RRSIG signatures are current and valid.
8	**Signing Algorithm**	INFO	ECDSAP256SHA256

Email Services (25%) — 6 / 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**	PASS	SMTP port 25 responds over IPv6.
4	**STARTTLS over IPv6**	PASS	STARTTLS supported over IPv6.
5	**SPF Record**	PASS	SPF record found.
6	**DKIM Selector**	INFO	DKIM selector found: selector1._domainkey
7	**DMARC Record**	PASS	DMARC record found.

IPv4 Baseline (15%) — 1 / 3

#	CHECK	RESULT	DETAIL
1	**A Record**	PASS	211.24.25.21
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	21c756de-4f14-4e85-ab13-bca4813e7daf
Domain	cybersecurity.my
Check Mode	Manual
Status	Completed
Started	08 Aug 2026, 18:24:51 MYT
Finished	08 Aug 2026, 18:25:37 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/21c756de-4f14-4e85-ab13-bca4813e7daf

Integrity Verification

✓ **INTEGRITY VERIFIED**

Algorithm	hmac-sha256-v1
Root Hash	91d5e08a9c8def360303b0770ae01a10e9ad38eb7461e6dce152ae8ced91b21b
http_headers	d2866b94962f232c682942b1ea6dff64766cafe59dda03d312a3120a0c2c281f
dns_responses	ecf8a557f2231d81497f47dcf94391fcc3a549977cab163575d569568d1526da
tls_handshake	3e75e9f30b3109743c30f1abb74cd3b79e0cd316a0f5001ac9cf7e0c0129076d
connectivity_log	da267f371b720637be512ed1ee4220182f86b9a07eaf50c2db19fe2cbb70903b
dns_resolution_times	771ae9ef022c5250523ed229e5036669a3a2a89bb5efdd013fa5921a6f8f771b

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	22.96	23.86	26.7	33.96	+3.7
Google	IPv4	47.7	148.7	86.26	167.5	+38.6
Google	IPv6	165.25	241.94	160.07	163.86	-5.2
Cloudflare	IPv4	22.06	22.72	22.46	23.57	+0.4
Cloudflare	IPv6	25.12	51.54	25.09	52.67	-0

DNS Evidence

A

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 42842
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
cybersecurity.my.	1800	IN	A	211.24.25.21
```

DS

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 26574
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
cybersecurity.my.	59364	IN	DS	42948 13 2 F7358E9A9E3C83EA9A7F203786716608FB1CF82EE1A418819C4A953D 16068662
cybersecurity.my.	59364	IN	DS	42948 13 1 FDE30E165C6A95E194CFD10AF4A0968D36921177
```

MX

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 29081
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
cybersecurity.my.	1800	IN	MX	0 cybersecurity-my.mail.protection.outlook.com.
cybersecurity.my.	1800	IN	MX	5 cybersecurity-my.mail.protection.outlook.com.
```

NS

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 7928
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 5

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
cybersecurity.my.	3600	IN	NS	ns3.cybersecurity.my.
cybersecurity.my.	3600	IN	NS	ns1.cybersecurity.my.
```

TXT

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 18346
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
cybersecurity.my.	3600	IN	TXT	"MS=ms70372336"
cybersecurity.my.	3600	IN	TXT	"v=spf1 ip4:211.24.25.7 ip4:113.23.255.139 ip4:113.23.247.139 ip4:103.100.206.20 ip4:113.23.205.186 ip4:113.23.255.251 ip4:175.139.192.49
ip4:35.187.254.96 ip4:192.82.59.9 ip4:45.64.170.94 include:spf.protection.outlook.com -all"
```

AAAA

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 43282
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
cybersecurity.my.	1800	IN	AAAA	2001:f40:29:1681:211:24:25:21
```

RRSIG

```
ns1.cybersecurity.my. postmaster.cybersecurity.my. 2026080576 10800 1800 604800 3600
SOA 13 2 1800 20260905110021 20260806110021 59818 cybersecurity.my. nZ+aCGrLuspsgzJbVNEBb+CVrv/xT8Go98gqKQX8LuDCy6bWejEn/JIK RiLIvAlPDK6+ELuRe7LQBeF7qSFJxg==
```

DNSKEY

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 56789
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
cybersecurity.my.□3590□IN□DNSKEY□256 3 13 X9ebzdo9/2xaU3iy8++YsXXBSXypHkrj8AhOVaaONApBuwhOJ0k5f31t h2wKAFwuRoyUKINa4uYFdq8oM65h8g==
cybersecurity.my.□3590□IN□DNSKEY□257 3 13 mZksx367IZ9QNogqLKUugCqiLvA5ApKFy+Yykd3bCYFW4yqLhu4xEQu3 EqMXgONhnEj4LArJwl1/xtlAFVfa4A==
cybersecurity.my.□3590□IN□DNSKEY□256 3 13 CdqXX27p3hxelsGz5hW+hroxHjQ1wqI2LdOu6gR1HhcRf84qup4ylH0W oRXA/mCS+b7G+ncVTlmwBMJj21aiTA==
```

DNSSEC_VALIDATION

```
; fully validated
cybersecurity.my.□1790□IN□SOA□ns1.cybersecurity.my. postmaster.cybersecurity.my. 2026080576 10800 1800 604800 3600
cybersecurity.my.□1790□IN□RRSIG□SOA 13 2 1800 20260905110021 20260806110021 59818 cybersecurity.my. nZ+aCGrLuspsgzJbVNEBb+CVrv/xT8Go98gqKQX8LuDCy6bWejEn/JIK
RiLIvAlPDK6+ELuRe7LQBeF7qSFJxg==
```

TLS Handshake Evidence

IPV4 Connection

IP Used	211.24.25.21
IP Version	4

```
write:errno=104
CONNECTED(00000010)
---
no peer certificate available
---
No client certificate CA names sent
---
SSL handshake has read 0 bytes and written 318 bytes
Verification: OK
---
New, (NONE), Cipher is (NONE)
Secure Renegotiation IS NOT supported
Compression: NONE
Expansion: NONE
No ALPN negotiated
Early data was not sent
Verify return code: 0 (ok)
---
```

IPV6 Connection

IP Used	2001:f40:29:1681:211:24:25:21
IP Version	6

```
write:errno=104
CONNECTED(00000010)
---
no peer certificate available
---
No client certificate CA names sent
---
SSL handshake has read 0 bytes and written 318 bytes
Verification: OK
---
New, (NONE), Cipher is (NONE)
Secure Renegotiation IS NOT supported
Compression: NONE
Expansion: NONE
No ALPN negotiated
Early data was not sent
Verify return code: 0 (ok)
---
```

HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	0
Connected IP	
Connect Time	0 ms
TTFB	0 ms
Total Time	8002.7 ms
Error	Failed to connect to cybersecurity.my port 80 after 8002 ms: Timeout was reached

IPv6 HTTP (port 80)

HTTP Status	0
Connected IP	
Connect Time	0 ms
TTFB	0 ms
Total Time	8002.96 ms
Error	Failed to connect to cybersecurity.my port 80 after 8002 ms: Timeout was reached

IPv4 HTTPS (port 443)

HTTP Status	0
Connected IP	211.24.25.21
Connect Time	3.39 ms
TTFB	0 ms
Total Time	7.29 ms
Error	Recv failure: Connection reset by peer

IPv6 HTTPS (port 443)

HTTP Status	0
Connected IP	2001:f40:29:1681:211:24:25:21
Connect Time	4.17 ms
TTFB	0 ms
Total Time	8.9 ms
Error	Recv failure: Connection reset by peer

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	000 0.000000 0.000000
TCP Connect IPv6 → port 80	000 0.000000 0.000000
TCP Connect IPv4 → port 443	000 0.003632 0.000000
TCP Connect IPv6 → port 443	000 0.004128 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
```