

IPv6 Readiness Report

cybersecurity.my — cybersecurity.my



Scan to verify

Category: Government • Generated: 29 Jul 2026, 05:46 MYT • Last Checked: 04 Jul 2026, 03:35 MYT • Verification ID: 128652f8-0b79-4e30-acc1-59fa43f13f26
Report generated from National IPv6 Readiness Monitor — <https://ipv6.my6.my>
Audit trail: <https://ipv6.my6.my/audit/128652f8-0b79-4e30-acc1-59fa43f13f26>

X

Non-Compliant

MGv6C-1.0

55%

No IPv6 Support

IPv6-ONLY READINESS

Website: X Not Ready

DNS: ✓ Ready

Email: X Not Ready

IPv6 ADDRESSES

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

IPv4 ADDRESSES

211.24.25.21

Network Information (WHOIS / RDAP)

IPv6 Network	
Organization	TT DOTCOM SDN BHD
Country	MY
ASN	AS9930
ASN Name	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

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.	
7	RRSIG Valid	PASS	RRSIG signatures are current and valid.	

#	CHECK	RESULT	DETAIL
8	Signing Algorithm	INFO	ECDSAP256SHA256

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: 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	128652f8-0b79-4e30-acc1-59fa43f13f26
Domain	cybersecurity.my
Check Mode	Manual
Status	Completed
Started	04 Jul 2026, 03:34:32 MYT
Finished	04 Jul 2026, 03:35:37 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/128652f8-0b79-4e30-acc1-59fa43f13f26

Integrity Verification

✓ INTEGRITY VERIFIED	
Algorithm	hmac-sha256-v1
Root Hash	a78118e9d534be2d9716203fcf7e1dbc30c13b70db8f9f13bceb194339f616c2
http_headers	6d47428b75bf8329b705889ba1a010391a946d4e713862ceece11845614f5c0e
dns_responses	70617455503764dc6361fce6cbfbe7367aeb54329f48a7883975e004f97f1665
tls_handshake	99efb518fdab8373a34a8dbfffd254cb1ef272bf199d4e2b2913d5e1e38278c6
connectivity_log	196ee0a21ed7fe65c2e951214dd9aa550e7793a789db791a532cead1299f46fd
dns_resolution_times	597598bcd13ba7b4f51b2377ed5aa60ce871e80e5c2329a7f81d47520103ba88

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	14.07	23.7	22.45	30.33	+8.4
Google	IPv4	30.67	31.35	34	44.69	+3.3
Google	IPv6	32.17	41.68	43.17	43.77	+11
Cloudflare	IPv4	11.51	13.33	21.47	21.55	+10
Cloudflare	IPv6	23.16	36.5	42.39	46.83	+19.2



DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 48205
;; 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: 3271
;; 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. 86371 IN DS 38085 13 1 1561E8C81C9FC1C7A25B8DF0D1667DF8FC1E69E5
cybersecurity.my. 86371 IN DS 38085 13 2 E85D734A2EFCF46F534D7321AF83E287E7564B1C483FDC73AB470470 5473705C
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 51629
;; 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: 58829
;; 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 ns1.cybersecurity.my.
cybersecurity.my. 3600 IN NS ns3.cybersecurity.my.
```

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 19760
;; 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 "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"
cybersecurity.my. 3600 IN TXT "MS=ms70372336"
```

AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 17242
;; 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.	root.cybersecurity.my.	2024093901	10800	1800	604800	3600	
SOA	13	2	1800	20260802153004	20260703143004	41602	cybersecurity.my. uyhvFs2tDGvAvXpeYUSSXLj4ALfuul5qj/86gMhbKPYiVVE53qV1MF8o hh5qBa8cFzw0C4/B3iCU47gYg1ePLQ==

DNSKEY

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 17924
;; 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. 3571 IN DNSKEY 257 3 13 OzKCU2yh+Ynfs0RxYhnXJMR2XnC6gaKQZTTrvukW4UV4fu1tvxDuLVZ+ 4dAbkVt25gNcZBPylp960D0wYdsLBA==
cybersecurity.my. 3571 IN DNSKEY 256 3 13 nMKIOERg+pCXu4V+/KrWIH8dhnEHSKtCbRPYTYNCeD+mIKjRG38pySW 1ENxfp44B2x/JwhzDsmcUMAE0K77fA==
cybersecurity.my. 3571 IN DNSKEY 256 3 13 ovPJMfL0/HjNm3rNBtU7Im0m6/miAdK7umHa5rS6o9ocY+WPu2tFckL8 nafVQ5Pn2Z9aSE4RfbbZqGJ6UH70jA==
```

DNSSEC_VALIDATION

```
; fully validated
cybersecurity.my. 1771 IN SOA ns1.cybersecurity.my. root.cybersecurity.my. 2024093901 10800 1800 604800 3600
cybersecurity.my. 1771 IN RRSIG SOA 13 2 1800 20260802153004 20260703143004 41602 cybersecurity.my. uyhvFs2tDGvAvXpeYUSSXLj4ALfuul5qj/86gMhbKPYiVVE53qV1MF8o hh5qBa8cFzw0C4/B3iCU47gYg1ePLQ==
```

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	8002.38 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	8002.64 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	4.91 ms
TTFB	0 ms
Total Time	10.72 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	4.12 ms
TTFB	0 ms
Total Time	8.41 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 0.003901 0.000000
TCP Connect IPv6 → port 443	000 0.003448 0.000000

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