IPv6 Readiness Report

inti.edu.my — inti.edu.my

Scan to verify

Category: Education • Generated: 02 Nov 2026, 03:08 MYT • Last Checked: 08 Aug 2026, 18:32 MYT • Verification ID: cf4dc30b-1dbc-49d3-9cfc-9fc3e5d998d0
Report generated from National IPv6 Readiness Monitor — https://ipv6.my6.my
Audit trail: https://ipv6.my6.my/audit/cf4dc30b-1dbc-49d3-9cfc-9fc3e5d998d0

✗
Non-Compliant
MGv6C-1.0

14%
No IPv6 Support

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

IPV4 ADDRESSES
43.252.46.109

Network Information (WHOIS / RDAP)

	IPv4 Network
Organization	Enterprise Managed Services Sdn. Bhd.
Country	MY
ASN	AS23678
ASN Name	MYKRIS-AS-MY - Enterprise Managed Services Sdn. Bhd., MY
Network (CIDR)	43.252.44.0/22

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%) — 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%) — 1 / 6

#	CHECK	RESULT	DETAIL
1	**MX Record Exists**	FAIL	No MX record found in DNS.
2	**MX Server Has IPv6**	FAIL	MX server has no IPv6 address.
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**	FAIL	No DMARC record found.

IPv4 Baseline (15%) — 2 / 3

#	CHECK	RESULT	DETAIL
1	**A Record**	PASS	43.252.46.109
2	**HTTP over IPv4**	PASS	HTTP (port 80) responds over IPv4 — 1297ms TTFB.
3	**HTTPS over IPv4**	FAIL	HTTPS is not accessible over IPv4.

Audit Trail & Evidence Record

Verification ID	cf4dc30b-1dbc-49d3-9cfc-9fc3e5d998d0
Domain	inti.edu.my
Check Mode	Manual
Status	Completed
Started	08 Aug 2026, 18:32:07 MYT
Finished	08 Aug 2026, 18:32:48 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/cf4dc30b-1dbc-49d3-9cfc-9fc3e5d998d0

Integrity Verification

✓ **INTEGRITY VERIFIED**

Algorithm	hmac-sha256-v1
Root Hash	d1d302b11866c4f929aabe346cc8b72d0bb4ad687f8fd327e4f850125bea2315
http_headers	73947023a9e23a71a3a236bda57687ecaa744ad3a95f3c3f08dcbd86c67895c7
dns_responses	fa6aced98ec5c97b04e7339fd3618ca77de31b50fc9941aa703a7c66cf5e36e0
tls_handshake	b035e1103343e089f6364e5fc3ea3509b3d3b45e3d6e366b437f4970d26e8bf7
connectivity_log	002cb53405d2109c15a318c98fa7e679b2a9afcc0526fde786c3f1093864d766
dns_resolution_times	bd1c16d27efd0fd7c9b706be987ba76e28afef151d2c1c36d595d7ac6f93330e

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	22.64	22.93	22.41	23.12	-0.2
Google	IPv4	146.14	158.3	170.8	172.98	+24.7
Google	IPv6	242.03	299.06	63.92	217.41	-178.1
Cloudflare	IPv4	23.28	25.02	23.13	23.39	-0.2
Cloudflare	IPv6	59.21	66.03	44.41	63.27	-14.8

DNS Evidence

A

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 32051
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
inti.edu.my.□□3600□IN□A□43.252.46.109
```

DS

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 13913
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
edu.my.□□□3593□IN□SOA□e.nic.my. hostmaster.nic.my. 2026062863 1800 900 604800 3600
```

MX

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 15019
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
inti.edu.my.□□3590□IN□SOA□intisecdns.inti.edu.my. admin.inti.edu.my. 487 21600 1800 1209600 3600
```

NS

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 18322
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 5

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
inti.edu.my.□□3600□IN□NS□intisecdns3.inti.edu.my.
inti.edu.my.□□3600□IN□NS□intisecdns4.inti.edu.my.
inti.edu.my.□□3600□IN□NS□intisecdns.inti.edu.my.
inti.edu.my.□□3600□IN□NS□intisecdns2.inti.edu.my.
```

TXT

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 42202
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
inti.edu.my.□□3600□IN□TXT□"v=spf1 ip4:43.252.46.2 ip4:43.252.46.5 ip4:43.252.46.6 ip4:202.133.102.178 -all"
```

AAAA

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 5919
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
inti.edu.my.□□3590□IN□SOA□intisecdns.inti.edu.my. admin.inti.edu.my. 487 21600 1800 1209600 3600
```

RRSIG

```
intisecdns.inti.edu.my. admin.inti.edu.my. 487 21600 1800 1209600 3600
```

DNSKEY

```
;; Got answer:
```

```
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 63264
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
inti.edu.my.□□3590□IN□SOA□intisecdns.inti.edu.my. admin.inti.edu.my. 487 21600 1800 1209600 3600
```

DNSSEC_VALIDATION

```
; unsigned answer
inti.edu.my.□□3590□IN□SOA□intisecdns.inti.edu.my. admin.inti.edu.my. 487 21600 1800 1209600 3600
```

TLS Handshake Evidence

IPV4 Connection

IP Used	43.252.46.109
IP Version	4

HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	200
Connected IP	52.139.209.31
Connect Time	31.96 ms
TTFB	807.11 ms
Total Time	807.31 ms

Response Headers:


```
{
    "0": "HTTP/1.1 302 Redirect",
    "1": "Content-Length: 148",
    "2": "Content-Type: text/html",
    "3": "Location: http://www.newinti.edu.my",
    "4": "Server: Microsoft-IIS/6.0",
    "5": "X-Powered-By: ASP.NET",
    "6": "Date: Sat, 08 Aug 2026 10:32:34 GMT",
    "8": "HTTP/1.1 301 Moved Permanently",
    "9": "Server: nginx",
    "10": "Date: Sat, 08 Aug 2026 10:32:35 GMT",
    "11": "Content-Type: text/html; charset=iso-8859-1",
    "12": "Content-Length: 275",
    "13": "Connection: keep-alive",
    "14": "X-Content-Type-Options: nosniff",
    "15": "X-XSS-Protection: 1; mode=block",
    "16": "Strict-Transport-Security: max-age=31536000; includeSubDomains; preload",
    "17": "Location: https://www.newinti.edu.my/",
    "18": "Cache-Control: max-age=0",
    "19": "Expires: Sat, 08 Aug 2026 10:32:35 GMT",
    "21": "HTTP/1.1 301 Moved Permanently",
    "22": "Server: nginx",
    "23": "Date: Sat, 08 Aug 2026 10:32:35 GMT",
    "24": "Content-Type: text/html; charset=UTF-8",
    "25": "Content-Length: 0",
    "26": "Connection: keep-alive",
    "27": "Expires: Thu, 19 Nov 1981 08:52:00 GMT",
    "28": "Cache-Control: no-store, no-cache, must-revalidate",
    "29": "Pragma: no-cache",
    "30": "X-UA-Compatible: IE=edge",
    "31": "X-WP-SPC-Disk-Cache: DISABLED",
    "32": "X-Redirect-By: WordPress",
    "33": "Set-Cookie: PHPSESSID=473e244c72f25fa81c17ca9636feb5db; path=/",
    "34": "X-Content-Type-Options: nosniff",
    "35": "X-XSS-Protection: 1; mode=block",
    "36": "Strict-Transport-Security: max-age=31536000; includeSubDomains; preload",
    "37": "Location: https://newinti.edu.my/",
    "38": "Vary: User-Agent,Accept-Encoding",
    "39": "Referrer-Policy: no-referrer-when-downgrade",
    "41": "HTTP/1.1 200 OK",
    "42": "Server: nginx",
    "43": "Date: Sat, 08 Aug 2026 10:32:35 GMT",
    "44": "Content-Type: text/html; charset=UTF-8",
    "45": "Connection: keep-alive",
    "46": "Cache-Control: no-cache",
    "47": "WPO-Cache-Status: cached",
    "48": "X-Content-Type-Options: nosniff",
    "49": "X-XSS-Protection: 1; mode=block",
    "50": "Strict-Transport-Security: max-age=31536000; includeSubDomains; preload",
    "51": "Last-Modified: Sat, 08 Aug 2026 08:14:31 GMT",
    "52": "Cache-Control: max-age=0",
    "53": "Expires: Sat, 08 Aug 2026 10:32:35 GMT",
    "54": "Vary: Accept-Encoding,User-Agent",
    "55": "Referrer-Policy: no-referrer-when-downgrade"
}
```


IPv4 HTTPS (port 443)

HTTP Status	0
Connected IP	
Connect Time	0 ms
TTFB	0 ms
Total Time	8001.61 ms

Error	Failed to connect to inti.edu.my port 443 after 8001 ms: Timeout was reached

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	302 0.003366 0.007892
TCP Connect IPv4 → port 443	000 0.000000 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
```