

IPv6 Readiness Report

inti.edu.my — inti.edu.my



Scan to verify

Category: Education • Generated: 04 Jul 2026, 22:13 MYT • Last Checked: 04 Jul 2026, 04:56 MYT • Verification ID: 4e426209-e5cf-4ea5-b511-8b456d16bc14

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

Audit trail: <https://ipv6.my6.my/audit/4e426209-e5cf-4ea5-b511-8b456d16bc14>

<p>X</p> <p>Non-Compliant</p> <p>MGv6C-1.0</p>	<p>14%</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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<p>IPv4 ADDRESSES</p> <p>43.252.46.109</p>

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 — 776ms TTFB.
3	HTTPS over IPv4	FAIL	HTTPS is not accessible over IPv4.

Audit Trail & Evidence Record

Verification ID	4e426209-e5cf-4ea5-b511-8b456d16bc14
Domain	inti.edu.my
Check Mode	Manual
Status	Completed
Started	04 Jul 2026, 04:53:58 MYT
Finished	04 Jul 2026, 04:56:37 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/4e426209-e5cf-4ea5-b511-8b456d16bc14

Integrity Verification

✓ INTEGRITY VERIFIED	
Algorithm	hmac-sha256-v1
Root Hash	44df632332b2844e763cb8912464aa62084f128968f818355149dea44ff95630
http_headers	36a200b2514332e1094e7e53aeceb6260592d834c75f2fcb471e82d8d430814e
dns_responses	c1869d3e9713c17e785ad1b56e9ce8b9008f6cdfd4a9ed302e69156217e772d9
tls_handshake	0ab97ecd1937827f5f9e2d7663a0216568a9a09a2745ada220682809a90b8759
connectivity_log	709b5a2658af3405147b270e8283eb726a3b6160d60e68797ff0d990602604ef
dns_resolution_times	0ff9210e31c670d6abe948d15b8e11bc05ff4f8b141de098ba280ddc9e0eece0

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	10.1	22.57	12.57	12.74	+2.5
Google	IPv4	45.36	48.29	33.56	36.77	-11.8
Google	IPv6	30.57	32.01	27.8	29.78	-2.8
Cloudflare	IPv4	10.11	12.45	10.35	11.46	+0.2
Cloudflare	IPv6	46.65	52.79	43.65	44.14	-3

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 24035
;; 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: 15030
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
edu.my. 1785 IN SOA e.nic.my. hostmaster.nic.my. 2026052762 1800 900 604800 3600
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 10799
;; 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. 3591 IN SOA intisecdns.inti.edu.my. admin.inti.edu.my. 487 21600 1800 1209600 3600
```

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 40665
;; 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 intisecdns.inti.edu.my.
inti.edu.my. 3600 IN NS intisecdns2.inti.edu.my.
inti.edu.my. 3600 IN NS intisecdns3.inti.edu.my.
inti.edu.my. 3600 IN NS intisecdns4.inti.edu.my.
```

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 55645
;; 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: 24071
;; 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. 3591 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: 33135
;; 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. 3591 IN SOA intisecdns.inti.edu.my. admin.inti.edu.my. 487 21600 1800 1209600 3600
```

DNSSEC_VALIDATION

```
; unsigned answer
inti.edu.my. 3591 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

```
40B7FA3CD5750000:error:8000006E:system library: BIO_connect: Connection timed out:../crypto/bio/bio_sock2.c:114:calling connect()
40B7FA3CD5750000:error:10000067: BIO routines: BIO_connect: connect error:../crypto/bio/bio_sock2.c:116:
connect:errno=110
```


HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	200
Connected IP	52.139.209.31
Connect Time	37.58 ms
TTFB	816.57 ms
Total Time	816.83 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: Fri, 03 Jul 2026 20:56:24 GMT",
  "8": "HTTP/1.1 301 Moved Permanently",
  "9": "Server: nginx",
  "10": "Date: Fri, 03 Jul 2026 20:56:23 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: Fri, 03 Jul 2026 20:56:23 GMT",
  "21": "HTTP/1.1 301 Moved Permanently",
  "22": "Server: nginx",
  "23": "Date: Fri, 03 Jul 2026 20:56:24 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=e54d884d57d3d21b8ddb0cac2d20691; 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: Fri, 03 Jul 2026 20:56:24 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: Fri, 03 Jul 2026 14:22:11 GMT",
  "52": "Cache-Control: max-age=0",
  "53": "Expires: Fri, 03 Jul 2026 20:56:24 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	8002.6 ms

Error	Failed to connect to inti.edu.my port 443 after 8002 ms: Timeout was reached
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Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	302 0.004228 0.010006
TCP Connect IPv4 → port 443	000 0.000000 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
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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
```