

IPv6 Readiness Report

digital-nasional.com.my — digital-nasional.com.my

Category: Telco • Generated: 21 Apr 2026, 18:57 MYT • Last Checked: 07 Mar 2026, 01:30 MYT • Verification ID: 07a1b4ff-17e1-46d7-93a6-dfd28152c227

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

Audit trail: <https://ipv6.my6.my/audit/07a1b4ff-17e1-46d7-93a6-dfd28152c227>



Non-Compliant

MGv6C-1.0

22%

No IPv6 Support

IPv6-ONLY READINESS

Website: **X Not Ready**

DNS: **X Not Ready**

Email: **X Not Ready**

IPv4 ADDRESSES

20.212.154.50

4.145.177.6

210.48.157.236

20.198.130.29

Network Information (WHOIS / RDAP)

IPv4 Network	
Organization	Microsoft Corporation
Country	US
ASN	AS8075
ASN Name	MICROSOFT-CORP-MSN-AS-BLOCK - Microsoft Corporation, US
Network (CIDR)	20.192.0.0/10

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: selector1_domainkey
7	DMARC Record	PASS	DMARC record found.

IPv4 Baseline (15%) 1 / 3

#	CHECK	RESULT	DETAIL
1	A Record	PASS	20.212.154.50, 4.145.177.6, 210.48.157.236, 20.198.130.29
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	07a1b4ff-17e1-46d7-93a6-dfd28152c227
Domain	digital-nasional.com.my
Check Mode	Manual
Status	Completed
Started	07 Mar 2026, 01:27:12 MYT
Finished	07 Mar 2026, 01:30:47 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/07a1b4ff-17e1-46d7-93a6-dfd28152c227

Integrity Verification

✓ INTEGRITY VERIFIED	
Algorithm	hmac-sha256-v1
Root Hash	15818f38fa13b370905a2a088817d222fd54a1a3b044e3a6c20b4662108fade5
http_headers	6b1796e6947e7305db4462e7e36c83bb8f5d3c7c75bb112bfb25167498ee8456
dns_responses	0c853df3d48d4172b1012070e7e4d9db0e0c4afa0979b5741795e3604aa71c56
tls_handshake	0ab095063e8bfc7f5a57635edb9731e6941458d6bb99ac4e2f132706c6656fc8
connectivity_log	c571529628ae93d3d5180dec20e307692d772428bf4569b1feeb29b40bc18e78
dns_resolution_times	b97261fa1b073909c8634911c3ad139a34c4cea040dc8ac6558760ab9cdfaf90

Test Node Identity

Os	Linux srv1440888 6.8.0-101-generic #101-Ubuntu SMP PREEMPT_DYNAMIC Mon Feb 9 10:15:05 UTC 2026 x86_64
Hostname	srv1440888
Php Version	8.3.30
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	18.16	18.25	8.98	10.42	-9.2
Google	IPv4	23.49	34.55	15.85	19.02	-7.6
Google	IPv6	16.54	17.05	34	39.06	+17.5
Cloudflare	IPv4	26.02	29.92	16.47	27.66	-9.6
Cloudflare	IPv6	26.39	28.13	31.9	41.29	+5.5

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 45806
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
digital-nasional.com.my. 13445 IN A 210.48.157.236
digital-nasional.com.my. 2605 IN A 4.145.177.6
digital-nasional.com.my. 2605 IN A 20.212.154.50
digital-nasional.com.my. 2605 IN A 20.198.130.29
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 43064
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
com.my. IN SOA b.nic.my. hostmaster.nic.my. 2026018485 1800 900 604800 3600
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 62959
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
digital-nasional.com.my. 9203 IN MX 0 digitalnasional-com-my01i.mail.protection.outlook.com.
```

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 2776
;; flags: qr rd ra; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
digital-nasional.com.my. 21600 IN NS ns184.mschoosting.com.
digital-nasional.com.my. 21600 IN NS ns186.mschoosting.com.
digital-nasional.com.my. 21600 IN NS ns185.mschoosting.com.
```

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 59962
;; flags: qr rd ra; QUERY: 1, ANSWER: 11, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
digital-nasional.com.my. 14440 IN TXT "globalsign-domain-verification=6BE3B2EEFACA8A673019D6DFEF2D75A6"
digital-nasional.com.my. 14440 IN TXT "v=spf1 include:_spf-apac.onbmc.com include:spf.protection.outlook.com -all"
digital-nasional.com.my. 14440 IN TXT "d0870dc2872236065bbd1f35b2654e0b54df824d"
digital-nasional.com.my. 14440 IN TXT "apple-domain-verification=WNYZXLH7qZLJfuVh"
digital-nasional.com.my. 6000 IN TXT "globalsign-domain-verification=726DE4DF9266D3AA5A90B21BAE1988A3"
digital-nasional.com.my. 3600 IN TXT "google-site-verification=yc-IMeTA7I94LXmj0xAyW4c3eF5W3pWn7nREEQ2FVNA"
digital-nasional.com.my. 14440 IN TXT "globalsign-domain-verification=3803C4EC605C64B1A96CF1C14845CD9C"
digital-nasional.com.my. 14440 IN TXT "dj9z3lrd50svq3j2qsjbbq1tv3py9y9"
digital-nasional.com.my. 3600 IN TXT "google-gws-recovery-domain-verification=60186259"
digital-nasional.com.my. 14440 IN TXT "lf88my97mxb0h1wnhvcj1h1ks0s4ckt"
digital-nasional.com.my. 14440 IN TXT "gn5rqpprkgLzv58yqr60mhyz05k4qzlm"
```

AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 34048
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1
```

```
;; OPT PSEUDOSECTION:  
; EDNS: version: 0, flags:; udp: 512  
;; AUTHORITY SECTION:  
digital-nasional.com.my. 1522 IN SOA ns184.mschosting.com. abuse.mschosting.com. 2026030600 3600 1800 1209600 86400
```

RRSIG

```
ns184.mschosting.com. abuse.mschosting.com. 2026030600 3600 1800 1209600 86400
```

DNSKEY

```
;; Got answer:  
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 42128  
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1  
  
;; OPT PSEUDOSECTION:  
; EDNS: version: 0, flags:; udp: 512  
;; AUTHORITY SECTION:  
digital-nasional.com.my. 1800 IN SOA ns184.mschosting.com. abuse.mschosting.com. 2026030600 3600 1800 1209600 86400
```

DNSSEC_VALIDATION

```
; unsigned answer  
digital-nasional.com.my. 20802 IN SOA ns184.mschosting.com. abuse.mschosting.com. 2026030600 3600 1800 1209600 86400
```

TLS Handshake Evidence

IPv4 Connection

IP Used	20.212.154.50
IP Version	4

```
404771E7B97D0000:error:8000006E:system library:BI0_connect:Connection timed out:../crypto/bio/bio_sock2.c:114:calling connect()
404771E7B97D0000:error:10000067:BI0 routines:BI0_connect:connect error:../crypto/bio/bio_sock2.c:116:
connect:errno=110
```

HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	0
Connected IP	
Connect Time	0 ms
TTFB	0 ms
Total Time	8002.49 ms
Error	Failed to connect to digital-nasional.com.my port 80 after 8002 ms: Timeout was reached

IPv4 HTTPS (port 443)

HTTP Status	0
Connected IP	
Connect Time	0 ms
TTFB	0 ms
Total Time	8002.1 ms
Error	Failed to connect to digital-nasional.com.my port 443 after 8002 ms: Timeout was reached

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	000 0.000000 0.000000
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
76.13.221.0/24 dev eth0 proto kernel scope link src 76.13.221.142
```