

IPv6 Readiness Report

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



Scan to verify

Category: Telco • Generated: 13 Jun 2026, 19:30 MYT • Last Checked: 13 Jun 2026, 01:29 MYT • Verification ID: 02db4119-2068-415d-b14d-ca90d91b62d4

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

Audit trail: <https://ipv6.my6.my/audit/02db4119-2068-415d-b14d-ca90d91b62d4>

<p>X</p> <p>Non-Compliant</p> <p>MGv6C-1.0</p>	<p>22%</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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IPv4 ADDRESSES
20.212.154.50
20.198.130.29
210.48.157.236
4.145.177.6

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.	

#	CHECK	RESULT	DETAIL
6	DS Record at Parent	FAIL	No DS record at parent.
7	RRSIG Valid	FAIL	No valid RRSIG found.
8	Signing Algorithm	INFO	No DNSKEY record found.

Email Services (25%)

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#	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%)

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#	CHECK	RESULT	DETAIL
1	A Record	PASS	20.212.154.50, 20.198.130.29, 210.48.157.236, 4.145.177.6
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	02db4119-2068-415d-b14d-ca90d91b62d4
Domain	digital-nasional.com.my
Check Mode	Scheduled
Status	Completed
Started	13 Jun 2026, 01:26:04 MYT
Finished	13 Jun 2026, 01:29:23 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/02db4119-2068-415d-b14d-ca90d91b62d4

Integrity Verification

✓ INTEGRITY VERIFIED	
Algorithm	hmac-sha256-v1
Root Hash	8a3422a06dd9d3c9864406a0120cbe22cacc90f8cd5548d2143c064dd08f1c
http_headers	9fea7cdb9884b3848d906ed3051aa74d2f0a7b3c35e89369db5a552903d73770
dns_responses	fcd087a3b98c738e9d443825e04eed09c8523f06bc6d336dd880fd24d3fee104
tls_handshake	116b8fe579e3fa29bd81a6996e241ff29e484f90170204596d5290daac3c15c1
connectivity_log	c571529628ae93d3d5180dec20e307692d772428bf4569b1feeb29b40bc18e78
dns_resolution_times	aff6427c42427fb277cdf4d705aff770b9f3cbb52197a5055284d3e2ddaa798

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	8.3.31
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	18.38	18.9	18.12	27.86	-0.3
Google	IPv4	21.19	27.01	32.28	33.39	+11.1
Google	IPv6	18.39	30.53	18.76	29.38	+0.4
Cloudflare	IPv4	21.37	21.4	9.54	10	-11.8
Cloudflare	IPv6	16.48	26.51	23.51	39.67	+7

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 27462
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
digital-nasional.com.my. 2226 IN A 20.212.154.50
digital-nasional.com.my. 13066 IN A 210.48.157.236
digital-nasional.com.my. 2226 IN A 4.145.177.6
digital-nasional.com.my. 2226 IN A 20.198.130.29
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 18421
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
com.my. 2126 IN SOA e.nic.my. hostmaster.nic.my. 2026046677 1800 900 604800 3600
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 42089
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
digital-nasional.com.my. 31393 IN MX 0 digitalnasional-com-my@li.mail.protection.outlook.com.
```

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 43828
;; flags: qr rd ra; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
digital-nasional.com.my. 84987 IN NS ns185.mschosting.com.
digital-nasional.com.my. 84987 IN NS ns184.mschosting.com.
digital-nasional.com.my. 84987 IN NS ns186.mschosting.com.
```

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 2306
;; flags: qr rd ra; QUERY: 1, ANSWER: 11, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
digital-nasional.com.my. 13844 IN TXT "d0870dc2872236065bbd1f35b2654e0b54df824d"
digital-nasional.com.my. 3004 IN TXT "google-gws-recovery-domain-verification=60186259"
digital-nasional.com.my. 13844 IN TXT "lf88my97mrb0hlwhvcj1h1ks0s4ckt"
digital-nasional.com.my. 3004 IN TXT "google-site-verification=yc-IMeTA7I94LXmj0xAyW4c3eF5W3pWn7nREEQ2FVNA"
digital-nasional.com.my. 13844 IN TXT "dj9z3lrd50svq3j2qsjbbq1tv3py9y9"
digital-nasional.com.my. 13844 IN TXT "gn5rqpprkg1zv58yqr60mhyz05k4qzlm"
digital-nasional.com.my. 13844 IN TXT "apple-domain-verification=WNYZXLH7qZLJfuVh"
digital-nasional.com.my. 13844 IN TXT "globalsign-domain-verification=6BE3B2EEFACA8A673019D6DFEF2D75A6"
digital-nasional.com.my. 13844 IN TXT "globalsign-domain-verification=3803C4EC605C6481A96CF1C14845CD9C"
digital-nasional.com.my. 4 IN TXT "globalsign-domain-verification=726DE4DF9266D3AA5A90B21BAE1988A3"
digital-nasional.com.my. 13844 IN TXT "v=spf1 include:_spf-apac.onbmc.com include:spf.protection.outlook.com -all"
```

AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 53826
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1
```

```
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
digital-nasional.com.my. 2187 IN SOA ns184.mschosting.com. abuse.mschosting.com. 2026041703 3600 1800 1209600 86400
```

RRSIG

```
ns184.mschosting.com. abuse.mschosting.com. 2026041703 3600 1800 1209600 86400
```

DNSKEY

```
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 46564
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
digital-nasional.com.my. 2187 IN SOA ns184.mschosting.com. abuse.mschosting.com. 2026041703 3600 1800 1209600 86400
```

DNSSEC_VALIDATION

```
; unsigned answer
digital-nasional.com.my. 84987 IN SOA ns184.mschosting.com. abuse.mschosting.com. 2026041703 3600 1800 1209600 86400
```

TLS Handshake Evidence

IPv4 Connection

IP Used	20.212.154.50
IP Version	4

```
400722BFB47F0000:error:8000006E:system library: BIO_connect: Connection timed out:../crypto/bio/bio_sock2.c:114:calling connect()
400722BFB47F0000: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	0
Connected IP	
Connect Time	0 ms
TTFB	0 ms
Total Time	8002.68 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	8002.61 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
```