

IPv6 Readiness Report

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



Scan to verify

Category: Telco • Generated: 04 Jul 2026, 22:18 MYT • Last Checked: 04 Jul 2026, 04:46 MYT • Verification ID: 4b00fb56-3e3c-4e77-850c-302f3a4fb08e

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

Audit trail: <https://ipv6.my6.my/audit/4b00fb56-3e3c-4e77-850c-302f3a4fb08e>

<p>X</p> <p>Non-Compliant</p> <p>MGv6C-1.0</p>	<p>40%</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: ✓ Ready</p>
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IPv4 ADDRESSES
4.145.177.6
210.48.157.236
20.198.130.29
20.212.154.50

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)	4.144.0.0/12

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	PASS	SMTP port 25 responds over IPv6.
4	STARTTLS over IPv6	PASS	STARTTLS supported 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	4.145.177.6, 210.48.157.236, 20.198.130.29, 20.212.154.50
2	HTTP over IPv4	PASS	HTTP (port 80) responds over IPv4 — 19ms TTFB.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 28ms TTFB.

Audit Trail & Evidence Record

Verification ID	4b00fb56-3e3c-4e77-850c-302f3a4fb08e
Domain	digital-nasional.com.my
Check Mode	Scheduled
Status	Completed
Started	04 Jul 2026, 04:46:07 MYT
Finished	04 Jul 2026, 04:46:11 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/4b00fb56-3e3c-4e77-850c-302f3a4fb08e

Integrity Verification

✓ INTEGRITY VERIFIED	
Algorithm	hmac-sha256-v1
Root Hash	35644e2c93507d81a1d8fbac0029cf35b28f848bb8f227a3ce0a281214ca2b2d
http_headers	ed584f1ec0d81e9f302d0b0e549cea5544c46b0878ea1bdb113067758e40d41e
dns_responses	b85e09dc88bf0fb33eaf9c3211f530a586f8f7c0da7b671328e224ffbb4f33d
tls_handshake	12847b1c2709020e89e3035fc3bf57542ee4bc85e9321168c6106c7df8dd4618
connectivity_log	76d58d40886d1c6059da138ed7970f1275f6a643d781ae3ff4a35fb4b6bfa57
dns_resolution_times	7f379957a23f79cdb3d6f7091b206fd49e6ad2ade6f142ec4199c5b297256a84

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	25.96	34.79	22.07	22.55	-3.9
Google	IPv4	21.41	26.11	28.22	38.2	+6.8
Google	IPv6	30.28	32.61	37.02	45.33	+6.7
Cloudflare	IPv4	15.31	22.29	12.64	21.99	-2.7
Cloudflare	IPv6	23.9	47.5	29.28	47.46	+5.4

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 55420
;; 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. 3600 IN A 20.198.130.29
digital-nasional.com.my. 3600 IN A 4.145.177.6
digital-nasional.com.my. 3600 IN A 20.212.154.50
digital-nasional.com.my. 14440 IN A 210.48.157.236
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 65071
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
com.my. 3597 IN SOA e.nic.my. hostmaster.nic.my. 2026052766 1800 900 604800 3600
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 11683
;; 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. 27720 IN MX 0 digitalnasional-com-my@li.mail.protection.outlook.com.
```

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 50018
;; 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. 81311 IN NS ns185.mschostring.com.
digital-nasional.com.my. 81311 IN NS ns186.mschostring.com.
digital-nasional.com.my. 81311 IN NS ns184.mschostring.com.
```

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 38905
;; 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. 14440 IN TXT "dj9z3lrd50svq3j2qsjbbq1tv3py9yj9"
digital-nasional.com.my. 14440 IN TXT "gn5rqpprkg1zv58yqr60mhyz05k4qzlm"
digital-nasional.com.my. 3600 IN TXT "google-gws-recovery-domain-verification=60186259"
digital-nasional.com.my. 14440 IN TXT "d0870dc2872236065bbd1f35b2654e0b54df824d"
digital-nasional.com.my. 14440 IN TXT "globalsign-domain-verification=3803C4EC605C64B1A96CF1C14845CD9C"
digital-nasional.com.my. 600 IN TXT "globalsign-domain-verification=726DE4DF9266D3AA5A90B21BAE1988A3"
digital-nasional.com.my. 14440 IN TXT "lf88my97mrb0hlwvhvcj1h1ks0s4ckt"
digital-nasional.com.my. 14440 IN TXT "apple-domain-verification=WNYZXLH7qZLJfuVh"
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 "globalsign-domain-verification=6BE3B2EEFACA8A673019D6DFEF2D75A6"
digital-nasional.com.my. 3600 IN TXT "google-site-verification=yc-IMeTA7I94LXmj0xAyW4c3eF5w3pWn7nREEQ2FVNA"
```

AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 37004
;; 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. 3597 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: 61523
;; 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. 3597 IN SOA ns184.mschosting.com. abuse.mschosting.com. 2026041703 3600 1800 1209600 86400
```

DNSSEC_VALIDATION

```
; unsigned answer
digital-nasional.com.my. 81311 IN SOA ns184.mschosting.com. abuse.mschosting.com. 2026041703 3600 1800 1209600 86400
```



```

KwYBBQUHAWEGCCsGAQUFBwMCMBSGA1UdIAQUMBIwBgYEVR0gADAI BgZngQwBAGew
VAYDVR0fBE0wSzBjOeEgRYZDaHR0cDovL2NybC5zZWNOawdvLmNvbS9TZWNOawdv
UHVibGljU2VydmVyQXV0aGVudGljYXRpb255b290UjQ2LmNybDCBhAYIKwYBBQUH
AQEEeDB2ME8GCCsGAQUFBzAChkNodHRwOi8vY3J0LnNlY3RpZ28uY29tL1NlY3Rp
Z290dWJsaWNTZXJ2ZXJlYXN0ZW50aWwvLmNvb3RSNDYucDdjMCMGCCsGAQUF
BzABhhdodHRwOi8vbn2Nzc5zZWNOawdvLmNvbTANBgkqhkiG9w0BAQwFAAOCAGEA
Yt0C9Fy+TqECFw40IospI92kLGGosZGPOSQXMBqmsGWZUQ7rux7cjl1du6d9rD6C8
ze1B2e0jkrGkIL/0F1s7vSmgYVafsRoZd/IHUrkoQvX8FZwUsmPu7amgBfaY3g+d
q1x0jNGKb6I6Bzd16LgMD9qxp+3i7GQ0nd9J8LFSietY6Z4jUBzVo0oz8iAU840F
h2HhAuiPw1ai0VnY38RTI+8kepGwVfGxfBWzW9uIjeoIeaosVFvE8cmYUB4TSH
5dUyD0jHct2+8ceKEtIoFU/FfHq/mDaVnvcDCZxtIgitdMFQdMzaVehmObyhRdDD
4NQCs0gaI9AAgFj4L90tkARzhQLNyRf87Kln+YU0lgCGr9HLg3rG08q+Y4pplSod
unQZ6ZxPNGIf0ApbPVf5hCe58EZwiWdHIMn9LPP6+F404y8NNugbQixBber+x536
WrZhfZLjEkhp7fFXf9r32rNPFb74X/U90Bdy4Lzpz+X1ukh1BuMxA/EEhDoTOS3L
7ABvc7BYSQubQ24900cdkIzUh3ZwDrakMvrbaTxUM2p24N6dB+ns2zptWCva6jzW
r8IWKIMxzxLPv5Kt3ePKcUdvkBU/smqjSczTzzSjIoR5QqQA6lN1ZRsnuHIWcvh
JELtYnTAH41QJ6SAW066GrrUESwN/cgZzL4JLEqz1Y=
-----END CERTIFICATE-----
2 s:C = GB, 0 = Sectigo Limited, CN = Sectigo Public Server Authentication Root R46
i:C = US, ST = New Jersey, L = Jersey City, 0 = The USERTRUST Network, CN = USERTrust RSA Certification Authority
a:PKKEY: rsaEncryption, 4096 (bit); sigalg: RSA-SHA384
v:NotBefore: Mar 22 00:00:00 2021 GMT; NotAfter: Jan 18 23:59:59 2038 GMT
-----BEGIN CERTIFICATE-----
MIIGLTCCBH2gAwIBAgIRANJ/u8HeNZ5SFq1hSVhgmcQwDQYJKoZIhvcNAQEMBQAw
gYgxCzAJBgNVBAYTALVTMRMwEQYDVOQIEwpOZXcgSmVyc2V5MRQwEgYDVOQHEwtK
ZXJzZXkgQ2l0eTEeMBwGA1UEChMVVGHlIFVTRVJUULVTVCB0ZXR3b3JrMS4wLWYD
VQ0EYVU0VSVHJlc3QgU1NBIENlcnRpZmZlYXRpb24gQXV0aG9yaXR5MB4XDTEx

```

HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	404
Connected IP	4.145.177.6
Connect Time	8.6 ms
TTFB	16.7 ms
Total Time	16.75 ms

Response Headers:

```
[
  "HTTP/1.1 404 Not Found",
  "Server: Microsoft-Azure-Application-Gateway/v2",
  "Date: Fri, 03 Jul 2026 20:46:11 GMT",
  "Content-Type: text/html",
  "Content-Length: 179",
  "Connection: keep-alive"
]
```

IPv4 HTTPS (port 443)

HTTP Status	404
Connected IP	4.145.177.6
Connect Time	8.07 ms
TTFB	26.26 ms
Total Time	26.3 ms

Response Headers:

```
[
  "HTTP/1.1 404 Not Found",
  "Server: Microsoft-Azure-Application-Gateway/v2",
  "Date: Fri, 03 Jul 2026 20:46:11 GMT",
  "Content-Type: text/html",
  "Content-Length: 179",
  "Connection: keep-alive"
]
```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	404 0.008262 0.017963
TCP Connect IPv4 → port 443	404 0.007828 0.032012

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
```