

IPv6 Readiness Report

thestar.com.my — thestar.com.my



Scan to verify

Category: News Portal • Generated: 04 Jul 2026, 22:17 MYT • Last Checked: 04 Jul 2026, 03:27 MYT • Verification ID: 269afe0b-645d-4a1d-802d-8a712739a794

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

Audit trail: <https://ipv6.my6.my/audit/269afe0b-645d-4a1d-802d-8a712739a794>

<p>X</p> <p>Non-Compliant</p> <p>MGv6C-1.0</p>	<p>47%</p> <p>No IPv6 Support</p>	<p>IPv6-ONLY READINESS</p> <p>Website: X Not Ready</p> <p>DNS: ✓ Ready</p> <p>Email: X Not Ready</p>
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<p>IPv4 ADDRESSES</p> <p>89.106.200.1</p>
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Network Information (WHOIS / RDAP)

IPv4 Network	
Organization	lir-nl-enflow-1-MNT
Country	NL
ASN	AS209626
ASN Name	Enflow - Enflow B.V., NL
Network (CIDR)	89.106.200.0/24

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%)				3 / 5
#	CHECK	RESULT	DETAIL	
1	NS Has AAAA Record	PASS	Nameserver has IPv6 address.	
2	NS Reachable via IPv6	PASS	Nameserver is reachable via IPv6 on port 53.	
3	NS Answers Queries via IPv6	PASS	DNS queries answered 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: google._domainkey
7	DMARC Record	PASS	DMARC record found.

IPv4 Baseline (15%) 3 / 3

#	CHECK	RESULT	DETAIL
1	A Record	PASS	89.106.200.1
2	HTTP over IPv4	PASS	HTTP (port 80) responds over IPv4 — 969ms TTFB.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 926ms TTFB.

Audit Trail & Evidence Record

Verification ID	269afe0b-645d-4a1d-802d-8a712739a794
Domain	thestar.com.my
Check Mode	Scheduled
Status	Completed
Started	04 Jul 2026, 03:26:39 MYT
Finished	04 Jul 2026, 03:27:06 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/269afe0b-645d-4a1d-802d-8a712739a794

Integrity Verification

✓ INTEGRITY VERIFIED	
Algorithm	hmac-sha256-v1
Root Hash	bd4aca50b99ecfd3fe9accfc91be54099d4c1184bca6b30453d9006dc565005c
http_headers	5bbf0d296cb4e3ccfad7d3c7d0a838200952bc01587597fd29e6af0625d8aa4
dns_responses	7f1da3eeb1b6fd781790ef5d5f4c81b3acb7082ee2fc18b0ea0fe5cc0f749f8b
tls_handshake	5c4c5dd5d6aed02b526ec02b53ab583729c75c0bd7f8246d4dc534a94cff681e
connectivity_log	5a7021678bb78860ee81d6ef91beeff33e24f9143a8e8d013c1311e4e6047f05
dns_resolution_times	7a12a6374696267df8581a23ce93772a2941f6e01078d80c42684e296f6d4819

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	15.99	18.81	19.97	26.91	+4
Google	IPv4	36.39	40.17	22.14	28.82	-14.3
Google	IPv6	39.41	45.42	33.28	34.67	-6.1
Cloudflare	IPv4	25.2	34.81	19.52	19.53	-5.7
Cloudflare	IPv6	26.79	28.01	21.26	24.72	-5.5

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 60439
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
thestar.com.my. 300 IN A 89.106.200.1
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 32581
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
com.my. 2155 IN SOA e.nic.my. hostmaster.nic.my. 2026052750 1800 900 604800 3600
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 52225
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
thestar.com.my. 300 IN MX 10 smtp.google.com.
```

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 18075
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
thestar.com.my. 86400 IN NS ns-415.awsdns-51.com.
thestar.com.my. 86400 IN NS ns-525.awsdns-01.net.
thestar.com.my. 86400 IN NS ns-1282.awsdns-32.org.
thestar.com.my. 86400 IN NS ns-1635.awsdns-12.co.uk.
```

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 33213
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
thestar.com.my. 300 IN TXT "MS=E8FDBF5385F8B3B29DC273378C47031854BA4F38"
thestar.com.my. 300 IN TXT "google-site-verification=-HcGVJdNjnmfxHLdzl7gHuXdekQYGuraCxPDKueFNm4"
thestar.com.my. 300 IN TXT "google-site-verification=K2l1L_MQC5w-itAoK_iuvvIvo0fxT4Ykd0hexgloBXY"
thestar.com.my. 300 IN TXT "v=spf1 include:eh1kl06qgw.powerspf.com include:mailgun.org ip4:88.99.80.190 ip4:52.15.139.151 ~all"
```

AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 51163
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
thestar.com.my. 877 IN SOA ns-415.awsdns-51.com. admin.thestar.com.my. 1999051860 3600 600 604800 1800
```

RRSIG

```
ns-415.awsdns-51.com. admin.thestar.com.my. 1999051860 3600 600 604800 1800
```

DNSKEY

```
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 18811
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
thestar.com.my. IN SOA ns-415.awsdns-51.com. admin.thestar.com.my. 1999051860 3600 600 604800 1800
```

DNSSEC_VALIDATION

```
; unsigned answer
thestar.com.my. IN SOA ns-415.awsdns-51.com. admin.thestar.com.my. 1999051860 3600 600 604800 1800
```


TLS Handshake Evidence

IPV4 Connection

IP Used	89.106.200.1
IP Version	4

```

depth=3 C = US, O = Internet Security Research Group, CN = ISRG Root X2
verify return:1
depth=2 C = US, O = ISRG, CN = Root YE
verify return:1
depth=1 C = US, O = Let's Encrypt, CN = YE1
verify return:1
depth=0 CN = thestar.com.my
verify return:1
CONNECTED(00000010)
---
Certificate chain
0 s:CN = thestar.com.my
i:C = US, O = Let's Encrypt, CN = YE1
a:PKEY: id-ecPublicKey, 256 (bit); sigalg: ecdsa-with-SHA384
v:NotBefore: Jun 16 02:16:22 2026 GMT; NotAfter: Sep 14 02:16:21 2026 GMT
-----BEGIN CERTIFICATE-----
MIIDijCCAXCgAwIBAgISBmazVl0rFhLhjuA7Zy9BxjupMAoGCCqGSM49BAMDMDMx
CzAJBgNVBAYTALVTMRYwFAYDVQQKEw1MZXQncyBmbmNyeXB0MQwwCgYDVQQDEwNz
RTwEhcnMjYwNjE2MDIwNjIyWWhcNMjYwOTE0MDIxNjIwIjIwIjIwIjIwIjIwIjIw
aGVzdGFyLmNvbS5teTBZMBMGByqGSM49AgEGCCqGSM49AwEHA0IABIAGPTEBYDYF
mQr60tr9LqbsAq8gW7Io6meUBEqBp0nv5LKXa/cAEg9aIsHVUPtW0XUN4aH//FvZ
Iu3v6aP8i5mjggIcMIICGDA0BgNVHQ8BAf8EBAMCB4AwEwYDVR0LBAwwCgYIKwYB
BQHUAWewDAYDVR0TAQH/BAIwADAdBgNVHQ4EFgQUChbHrIxxaWIL+HfknKGYAnwc
GwkHwYDVR0jBBgwFoAUuyDKRwv+1+wc+Y8JKq0MNOwXvNgwMwYIKwYBBQUHAQEE
JzAlMCMGCSGAQUFBzAChhdodHRwOi8veWUxLmkuY291Iub3JnLzAZBgNVHREE
EjA0gg50aGVzdGFyLmNvbS5teTATBgNVHSAEDDAKMAgBmeBDAECATuBgNVHR8E
JzAlMCMGCSGAQUFBzAChhdodHRwOi8veWUxLmkuY291Iub3JnLzE2LmNybDCCAQwG
CisGAQQ01nkCBAIEGf0EgfoA+AB2AJROQ4f67MHvgfMzJCaogGUBx9Nf0AIBP3JnfvU3
LhnyAAABns5su40AAAQDAEccRQIhAJEMhsAw8yPIrakNsErJyvEMjSozWryZnxjd
TtGR77LMAiA+0xiQ0scj1HmyZB2+200d9QR8xe1qN2YXb0WmHhKqAB+AEavhj07
PuWfpXfeqCRdNrDZ7SKiI/Rhd0Ei1FLuLVBFAAABns5su+MACAAABQAJ34AcBAMA
RzBFAiEAjAcqVXTXha1uNzxyhGEyM2iPwz6pz0HIIm2Gz3JKuvUCIDdvruUGzwl7L
8qqH8lXq6Hx/rkJEgUHLhgX3iAYV5QzMAoGCCqGSM49BAMDA2gAMGUCMQDm5ZAX
yUDNpBT30H/SZcWHEXbsVLKsYwv3zh5PIGqdPuSzd/sVGPzptaCu8VdPcCMA0Q
9rdH8Le5uUq94dksyQHa7CrewZme0nbuYEoa0glrLw3w9nmv5BK0X0b+6mpA==
-----END CERTIFICATE-----
1 s:C = US, O = Let's Encrypt, CN = YE1
i:C = US, O = ISRG, CN = Root YE
a:PKEY: id-ecPublicKey, 384 (bit); sigalg: ecdsa-with-SHA384
v:NotBefore: Sep 3 00:00:00 2025 GMT; NotAfter: Sep 2 23:59:59 2028 GMT
-----BEGIN CERTIFICATE-----
MIICizCCAAGgAwIBAgIQXdlw3TH4AChcGGp6BLgK/jAKBggqhkJ0PQQDAzAuMQsw
CQYDVQQGEwJVUzENMAsGA1UEChMESVNSRzEQMA4GA1UEAxMHU9vdcBZRTAeFw0y
NTA5MDM0MDAwMDBaFw0yODA5MDIyMzU0NTU0MDMxMzA0MzA0MzA0MzA0MzA0MzA0
VQ0KEw1MZXQncyBmbmNyeXB0MQwwCgYDVQQDEwNzRTwEhcnMjYwNjE2MDIwNjIy
WWhcNMjYwOTE0MDIxNjIwIjIwIjIwIjIwIjIwIjIwIjIwIjIwIjIwIjIwIjIwIjIw
gQQAIGNiAAQHZVBI/mimLa2hfSurylScjPMZa0JXLz/NnAc2sYlm8WdyhU9Ccp+z
ASQ15vSwGGJjSGkLkd9fPR8GpyDIOIjCEfmbt/v+ZSEPLEGbaM6EccDbN7p9x
teIm2Avf+ryjge4wgeswDgYDVR0PAQH/BAQDAgGMBMGA1UdJQQMMAoGCCqGSM49
BAMDBWMBMBIGAIUdEwEB/wIIMAYBAf8CAQAwHQYDVR0OBBEFLSgykC/L/tflnPMPCsqj
jDdfsbzYMB8GAIUdIwQYMBaAFKPIJlq0oUzQNNP8myPI0q5W809WMDIGCCsGAQUF
BWBEBBYwJDAiBggRbGEBFQcwoAypWahrCdoVl3lLmkuY291Iub3JnLzAZBgNV
HSAEDDAKMAgBmeBDAECATAnBgNVHR8EIDAeMByGgGqAYHhZodHRwOi8veWUyY5S
ZW5jci5vcmcvMAoGCCqGSM49BAMDA2gAMGUCMQDgjjUEahFT/h3DRakqiPzPzLVPgf
Zwkt6K2E0Mmh1nvEzL83eMLYcod4GCL3b0J1Nn0CMBNymEQJb4CEG5Wo0e7aRn/L
VKu6saHmHEynI7ysIPd8zQsK1HdmhLHKLw9Z5GpGvA==
-----END CERTIFICATE-----
2 s:C = US, O = ISRG, CN = Root YE
i:C = US, O = Internet Security Research Group, CN = ISRG Root X2
a:PKEY: id-ecPublicKey, 384 (bit); sigalg: ecdsa-with-SHA384
v:NotBefore: May 13 00:00:00 2026 GMT; NotAfter: Sep 2 23:59:59 2032 GMT
-----BEGIN CERTIFICATE-----
MIICpjCCAiuGwIBAgIRAIchZfwoTuX7qK3V3BftTowCgYIKoZiZj0EAwMwTzEL
MakGA1UEBhMCMVVMXkTANBgNVBAoTIEludG9yYmV0V09F1NlY3VyaXR5IFJlclZhcmlu
IEdyb3VwMRUwEwYDVR0QDEwXJUIJHIFJvb3QgWDIwHhcnMjYwNTEzMDAwMDAwHhcn
MzIwOTYwMjI0U5WjAuMQswCQYDVQQGEwJVUzENMAsGA1UEChMESVNSRzEQMA4G
A1UEAxMHU9vdcBZRTB2MBAGByqGSM49AgEGSBsBBAAIA2IABDwS/6vhrCvqcBbo
+wgI3fwn9x7DNJJOY/LT0ti0vkWuRN87RheHTh1E7XyFjWspYhIPT/wzOqxTd2
b+4ZJny9ID04YyF9U5zasDVyGSNErVntz8uSgH5izw87j77Ga0B6zCB6DA0BgNV
HQ8BAf8EBAMCAQYwEwYDVR0LBAwwCgYIKwYBBQUHAWewDVR0TAQH/BAUwAwEB
/zAdBgNVHQ4EFgQUo8gmWo6hTNA1Y/ybI8g6rLbzT1YHwYDVR0jBBgwFoAUfEKW
r5LSDv6kviejM9ti6lYn5UwMgYIKwYBBQUHAQEEJjAKMCIcCSGAQUFBzAChhZo
dHRwOi8veDIua5S5ZW5jci5vcmcvMGMGA1UdIAQMMAowCAYGZ4EMAQIBMCCGA1Ud
HwQ0MB4HKAoBiGfmh0dHA6L94M15jLmXlbnM9YyZy8wCgYIKoZiZj0EAwMw

```

```
aQAwZgIxAMU19WctmxVND8UHBZRoma49Z7jPs64Dma0eTu10ChVbB/2J7GV3nvYK
Ax54uk1G9QIxA00miLVJu8PLNiXXkiE/gsk3CTRtF/aeo4bMX42Zw40csRU6AC2
6hSW1/IWaas6dg==
-----END CERTIFICATE-----
3 s:C = US, 0 = Internet Security Research Group, CN = ISRG Root X2
i:C = US, 0 = Internet Security Research Group, CN = ISRG Root X1
a:PKKEY: id-ecPublicKey, 384 (bit); sigalg: RSA-SHA256
v:NotBefore: May 13 00:00:00 2026 GMT; NotAfter: Sep 2 23:59:59 2032 GMT
-----BEGIN CERTIFICATE-----
MIIEcDCCAligAwIBAgIQbI8dxyfHEX97r4U6yYD5zTANBqkqhkIG9w0BAQsFADBP
MQswCQYDVQQGEwJVUzEpMCcGA1UEChMgSW50ZXJ1ZXZQdHkgUmVzZWZy
Y2ggR3JvdXAxFTATBgNVBAMTDELTKGUm9vdCBYMTAeFw0yNjA1MTMwMDAwMDBa
Fw0zMjA5MDIyMzU5NTLaME8xCzAJBgNVBAYTALVUMSkwJwYDVQKKEyBjbnRlcm5l
dCBTWn1cm10eSBSZXNlYXJjaCBHcm91cDEVMGMGA1UEAxMMSVNSRyBSb290IFgy
MHYwEAYHKoZIzj0CAQYFK4EEACIDYgAEzZvVn4CDCuwJSvMWSj5cz3es3mcFDR0H
ttwW+1qLFNvicwDEukWVEYm06gbf9yoWHKS5xcUy4APgHoIY0IvXRdgKam7MAHf7
ALF9ItgKbpbpd9/w+kHs0dx1ymgHDB/qo4H1MIHyMA4GA1UdDwEB/wQEAwIBBjAd
BgNVHSUEFjAUBggRBgEgFB0cDAQYIKwYBBQUHAwIwDwYDVR0TAQH/BAUwAwEB/zAd
BgNVHQ4EFgQUfEKwrt5LSDv6kviejM9ti6lyN5UwhwYDVR0jBBgwFoAUebRZ5nu2
5eQ8c4AIiMgaWPbpm24wMgYIKwYBBQUHAQEEJjAKMCIIGCCsGAQUFBzACHhZodHRw
018veDEuaS5sZW5jci5vcmcvMGMGA1UdIAQMMAAowCAYGZ4EMAQIBMCCGA1UdHwQg
MB4wHKAaoBiGFm0dHA6L94MS5jLmxiLmNlM9yZy8wDQYJKoZIhvcNAQELBQAD
ggIBAD2/e9frmMxNpCV03qUHegg+MV2wz9644YoXdtH8RyWycB07xfjjGEXdU1e
/o00kEFiynUCOSIk/vLLo7ttz6CPAeNLwfc0XNkoGeWgK6jjXvozBaGuGH5n0Ufo
shMelTuURqN5G00sSXDTBrpp2+mgvdZQjb8K11TYMA25QA+YHNfbIEL0BniAhKS
2gsnJjSzrdZLI+EZ7SEyqdr2rkjd1KutLDU+n3TFyxjniZVGur4YlhMP3mY/dV95
IruAkkj0Zier6hGBdEgZXvaCz9u9iVEadsIE75pAGL8oHV5vxdARDiotRpu11IN
```



```
the_star_session=eyJpdjI6IjUzSE51TLVmVWUrwWJ4R2ZEQ3FCeXc9PSIsInZhbnVlIjoieVcl250MD1HRTric1p2dkxpNUJaMmLudUEzODRpMGL3T0ZXMkZ0QzRQbG9tdmVxNkxlbWlvXC9vRDBXcmZ4N3hnIiwibWFjIjoieIMGM1O...
expires=Fri, 03-Jul-2026 21:27:06 GMT; Max-Age=7200; path=/; httponly",
  "21": "access-control-allow-headers: Access-Control-Allow-Headers, Access-Control-Allow-Origin, Content-Type",
  "22": "vary: Accept-Encoding",
  "23": "x-cache: Miss from cloudfront",
  "24": "via: 1.1 d6c5e2990d1950053025c4526a1ecbc2.cloudfront.net (CloudFront)",
  "25": "x-amz-cf-pop: SIN3-P5",
  "26": "x-amz-cf-id: GF2hIvkD8LayY6kLiADyU-aue7cGmdqcYYj8B2fW8SEiVT14ACb6dA=="
}
```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	301 0.008319 0.017356
TCP Connect IPv4 → port 443	301 0.008200 0.038473

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
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
```