


# IPv6 Readiness Report

thestar.com.my — thestar.com.my

Category: News Portal • Generated: 20 Apr 2026, 21:07 MYT • Last Checked: 07 Mar 2026, 01:17 MYT • Verification ID: d75306b7-5638-40f7-90d0-2f209948468a

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

Audit trail: <https://ipv6.my6.my/audit/d75306b7-5638-40f7-90d0-2f209948468a>

 <b>Non-Compliant</b> <small>MGv6C-1.0</small>	<b>47%</b> <b>Partial Support</b>	<b>IPV6-ONLY READINESS</b> Website: <span style="color: red;">✗ Not Ready</span> DNS: <span style="color: green;">✓ Ready</span> Email: <span style="color: red;">✗ Not Ready</span>
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<b>IPV4 ADDRESSES</b> 3.33.236.10
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## Network Information (WHOIS / RDAP)

IPv4 Network	
Organization	Amazon Technologies Inc.
Country	US
ASN	AS16509
ASN Name	AMAZON-02 - Amazon.com, Inc., US
Network (CIDR)	3.0.0.0/9

Web Services (35%) <span style="float: right;">0 / 8</span>			
#	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%) <span style="float: right;">3 / 5</span>			
#	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.
8	Signing Algorithm	INFO	No DNSKEY record found.

**Email Services** (25%) 4 / 6

#	CHECK	RESULT	DETAIL
1	<b>MX Record Exists</b>	<b>PASS</b>	MX record found.
2	<b>MX Server Has IPv6</b>	<b>PASS</b>	MX server has AAAA record.
3	<b>SMTP Reachable via IPv6</b>	<b>FAIL</b>	SMTP is not reachable over IPv6.
4	<b>STARTTLS over IPv6</b>	<b>FAIL</b>	STARTTLS not available over IPv6.
5	<b>SPF Record</b>	<b>PASS</b>	SPF record found.
6	<b>DKIM Selector</b>	<b>INFO</b>	DKIM selector found: google._domainkey
7	<b>DMARC Record</b>	<b>PASS</b>	DMARC record found.

**IPv4 Baseline** (15%) 3 / 3

#	CHECK	RESULT	DETAIL
1	<b>A Record</b>	<b>PASS</b>	3.33.236.10
2	<b>HTTP over IPv4</b>	<b>PASS</b>	HTTP (port 80) responds over IPv4 — 893ms TTFB.
3	<b>HTTPS over IPv4</b>	<b>PASS</b>	HTTPS (port 443) responds over IPv4 — 130ms TTFB.

### Audit Trail & Evidence Record

Verification ID	d75306b7-5638-40f7-90d0-2f209948468a
Domain	thestar.com.my
Check Mode	Manual
Status	Completed
Started	07 Mar 2026, 01:16:58 MYT
Finished	07 Mar 2026, 01:17:24 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/d75306b7-5638-40f7-90d0-2f209948468a

### Integrity Verification

<b>✓ INTEGRITY VERIFIED</b>	
Algorithm	hmac-sha256-v1
Root Hash	f90653616eab463fddec4904286c5f0d918ce705571608a5d826b5ea12b6592e
http_headers	d9a611f2abf6c2d6a18524094e90c8223ed1fae768e63091a3da7c7a53797fc3
dns_responses	4828c257a6731fb842b604209504b8c7ba9bfc4e20496161979a16b40fa0e769
tls_handshake	be9f9438a7d94cb921d21af49a2576847614dd1bc9bff83e61b82e383f3057ff
connectivity_log	d559f588397ae6ca45c09ae7d141dcf52117a5f295e49c2c28ef4162db0954a0
dns_resolution_times	56eef7fbd856557457beef5a736ee5265c15d9783df23d6333b48a228840c1ec

### 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	-
Server Ipv6	-

### 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	9.9	18.74	12.58	20.69	+2.7
Google	IPv4	17.16	28.49	29.35	30.66	+12.2
Google	IPv6	16.92	27.3	18.83	22.02	+1.9
Cloudflare	IPv4	13.88	14.87	16.95	19.16	+3.1
Cloudflare	IPv6	19.23	49.12	7.99	15.7	-11.2



## DNS Evidence

### A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 45377
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
thestar.com.my. 004100IN A 3.33.236.10
```

### DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 59022
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
com.my. 00018000IN SOA b.nic.my. hostmaster.nic.my. 2026018483 1800 900 604800 3600
```

### MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 26769
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
thestar.com.my. 0021500IN MX 10 smtp.google.com.
```

### NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 43892
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
thestar.com.my. 00216000IN NS ns-1635.awsdns-12.co.uk.
thestar.com.my. 00216000IN NS ns-1282.awsdns-32.org.
thestar.com.my. 00216000IN NS ns-525.awsdns-01.net.
thestar.com.my. 00216000IN NS ns-415.awsdns-51.com.
```

### TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 45700
;; flags: qr rd ra; QUERY: 1, ANSWER: 5, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
thestar.com.my. 003000IN TXT "MS=E8FDBF5385F8B3B29DC273378C47031854BA4F38"
thestar.com.my. 003000IN TXT "v=spf1 include:eh1kl06qgw.powerspf.com include:mailgun.org ip4:88.99.80.190 ip4:52.15.139.151 -all"
thestar.com.my. 003000IN TXT "google-site-verification=-HcGVJdNjnmfxHLdzl7gHuXdekQYGUraCxPDKueFnm4"
thestar.com.my. 003000IN TXT "google-site-verification=K21LL_MQC5w-itAoK_iuvvIVo0fxT4Ykd0hexgloBXY"
thestar.com.my. 003000IN TXT "reh-verify=qkbdey.rediredge.com"
```

### AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 720
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
thestar.com.my. 0016800IN 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: 42029
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
thestar.com.my. 9000 IN SOA ns-415.awsdns-51.com. admin.thestar.com.my. 1999051860 3600 600 604800 1800
```

**DNSSEC\_VALIDATION**

```
; unsigned answer
thestar.com.my. 9000 IN SOA ns-415.awsdns-51.com. admin.thestar.com.my. 1999051860 3600 600 604800 1800
```



TLS Handshake Evidence

IPV4 Connection

IP Used	3.33.236.10
IP Version	4

```
depth=2 C = US, O = Internet Security Research Group, CN = ISRG Root X1
verify return:1
depth=1 C = US, O = Let's Encrypt, CN = E7
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 = E7
  a:PKKEY: id-ecPublicKey, 384 (bit); sigalg: ecdsa-with-SHA384
  v:NotBefore: Feb 10 00:35:59 2026 GMT; NotAfter: May 11 00:35:58 2026 GMT
-----BEGIN CERTIFICATE-----
MIIDpTCCAYygAwIBAgISBrS/C6t/2jSv6SgDDpRVxPreMAoGCCqGSM49BAMDMDIX
CzAJBgNVBAYTALVTMRyWfAYDVOQKEwIMZQncYBfmNyeXB0MQswCQYDVQQDEwJF
NzAeFw0yNjAyMTAwMDM1NTLaFw0yNjA1MTEwMDM1NTHaMBKxKzAVBgNVBAMTDnRo
ZXN0YXUyY29tLm15MHYwEAYHKoZIzj0CAQYFK4EEACIDYgAERVgtC2WCJErM8aFh
sM82c1/JsX3kcLc1c5JHoW3w8KNG78WuNFRyrgRNDbxDXHKdPf/IpCvRAnvt8nGc
T1BQ1Ym5hp20wRWY8YrLqWIg80nA9N6ncGG13ebN6agpyu1fo4ICHDCCAhgwDgYD
VR0PAQH/BAQDAgeAMB0GA1UdJQQWMBQGCcsGAOUFBwMBBggrrBgEFBQcDAjAMBGNV
HRMBAf8EAjAAMB0GA1UdDgQWBTVfQiqTGmsBwFOZbuXnEyyfh2ExzAFBgNVHSMG
DAWgBSUsJ7chx1EoG/aouVgdAR4wpwAgDAyBggrrBgEFBQcBAQOMCQwIgyIKwYB
BOUHMAGFmhdHA6Ly9lNy5pLmXlbnM9yZy8wGQYDVR0RBBIwEII0dGhlc3Rh
ci5jb20ubXkwEwYDVR0gBAwwCjAIBGZngQwBAGELQYDVR0FBCYwJDAioCCGhoYc
aHR0cDovL2U3LmMubGVuY3Iub3JnLzklLmNybDCCAQQGcisGAQBkCBAIEgFUE
gRtIAB2AMs49xwJfIShRF9bwd37yW7ymLnNRwppBYWyxTDFJnAAABnEuvjSoA
AAQDAEcuRQIgbIimXS/iH3vD4VPSiE5TUpisvCyu2DT/wa3fKKrde4CIQCdvGAU
H9dY2gEjV8F0vS9q2VH08pZHN0nto8dmXzqhAB2AJaXZL9VWJet900HaDCIQnFp
8DrV9qTzNm5GpD8PypnGAAABnEuvjXIAAAQDAEcuRQIgcBmEudA1l+v9S0BFtxGc
ssia2j+tJ74V2hsqPQY/b2oCIQD/L7nd5Wb4PvhAwXk5A1drrSDVqFumN0INsgiq
oLGFmTAKBggqhkJOPQDQAwNnADBKAjBR8wz3bzXhykd6r1bWvPqPNE3jx0Z8/H
o27NpxPCMxotijFSBoBN3VIEpR8otaECMGtn0ZljCwQiX04uNpLbcFd7TgnXq8Ze
ugW1MIHIjAgOd/hzndPnh4LP1WxfK0WlTA==
-----END CERTIFICATE-----
1 s:C = US, O = Let's Encrypt, CN = E7
  i:C = US, O = Internet Security Research Group, CN = ISRG Root X1
  a:PKKEY: id-ecPublicKey, 384 (bit); sigalg: RSA-SHA256
  v:NotBefore: Mar 13 00:00:00 2024 GMT; NotAfter: Mar 12 23:59:59 2027 GMT
-----BEGIN CERTIFICATE-----
MIIIEVzCCAjj+AwIBAgIRAKp18eYrjwoiCwbTi7/UuqEwDQYJKoZIhvcNAQELBQAw
TzELMAKGA1UEBhMCMVVMxKTAnBgNVBAoTIEludGVybmV0IFNlY3VyaXR5IFJlc2Vh
cmNoIEYdyb3VwMRUwEwYDVOQDEwJUIJHIFJvb3QwDQEwHhcNMjQwMzEzMDAwMDAw
WhcNMjcwMzEyMjM1OTU5WjAQM0swCQYDVOQDEwJUUzEWMBQGA1UEChMNTG0J3Mg
RW5jcnldwDELMAKGA1UEAxMCRTRwdjAQBgcqhkJOPQIBBQURgQQAIGNiAARB6AST
CFh/vjcwDMCgQer+VtqEkz7JANurZxLP+U9TCEioL6sp5Z8VRvRbYk4P1INBmbef
QHJFHCxcSjKmwvTGbWpL/9ra8HW0QDsUaJW2qQJqceJ0ZVFT3hbUHiFBM/2jgfgw
gFUWdgyDVR0PAQH/BAQDAgGMB0GA1UdJQQWMBQGCcsGAOUFBwMCCBggrrBgEFBQcD
ATASBgNVHRMBAf8ECDAGAQH/AgEAMBAf8EAjAAMB0GA1UdDgQWBBSUsJ7chx1EoG/aouVgdAR4
wpwAgDAfBgNVHSMGDAWgBR5tFmne7b15AFzgaAiIyBpY9umbbjAyBggrrBgEFBQcB
AQOMCQwIgyIKwYBBQUHMAGFmhdHA6Ly94M5pLmXlbnM9yZy8wEwYDVR0g
BAwwCjAIBGZngQwBAGELQYDVR0FBCAwHjAcoBggGIIYwHR0cDovL3gxLmMubGVu
Y3Iub3JnLzklLmNybDCCAQQGcisGAQBkCBAIEgFUEgRtIAB2AMs49xwJfIShRF9bwd37yW7ymLnNRwppBYWyxTDFJnAAABnEuvjSoA
AAQDAEcuRQIgbIimXS/iH3vD4VPSiE5TUpisvCyu2DT/wa3fKKrde4CIQCdvGAU
H9dY2gEjV8F0vS9q2VH08pZHN0nto8dmXzqhAB2AJaXZL9VWJet900HaDCIQnFp
8DrV9qTzNm5GpD8PypnGAAABnEuvjXIAAAQDAEcuRQIgcBmEudA1l+v9S0BFtxGc
ssia2j+tJ74V2hsqPQY/b2oCIQD/L7nd5Wb4PvhAwXk5A1drrSDVqFumN0INsgiq
oLGFmTAKBggqhkJOPQDQAwNnADBKAjBR8wz3bzXhykd6r1bWvPqPNE3jx0Z8/H
o27NpxPCMxotijFSBoBN3VIEpR8otaECMGtn0ZljCwQiX04uNpLbcFd7TgnXq8Ze
ugW1MIHIjAgOd/hzndPnh4LP1WxfK0WlTA==
-----END CERTIFICATE-----
...
Server certificate
subject=CN = thestar.com.my
issuer=C = US, O = Let's Encrypt, CN = E7
...
No client certificate CA names sent
Peer signing digest: SHA384
Peer signature type: ECDSA
```

```
Server Temp Key: X25519, 253 bits
---
SSL handshake has read 2465 bytes and written 396 bytes
Verification: OK
---
New, TLSv1.3, Cipher is TLS_AES_256_GCM_SHA384
Server public key is 384 bit
Secure Renegotiation IS NOT supported
Compression: NONE
Expansion: NONE
No ALPN negotiated
Early data was not sent
Verify return code: 0 (ok)
---
DONE
```



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### Test Node Network Evidence

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Node Profile	dual stack
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### Egress Connectivity

IPv4 Egress	unreachable
IPv6 Egress	unreachable

### 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
```