

IPv6 Readiness Report

thestar.com.my — thestar.com.my



Scan to verify

Category: News Portal • Generated: 13 Jun 2026, 18:36 MYT • Last Checked: 13 Jun 2026, 01:06 MYT • Verification ID: 33781ab1-6ca6-4ba1-8377-02a622b8f72e

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

Audit trail: <https://ipv6.my6.my/audit/33781ab1-6ca6-4ba1-8377-02a622b8f72e>

<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>3.33.236.10</p>

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%)				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	3.33.236.10
2	HTTP over IPv4	PASS	HTTP (port 80) responds over IPv4 — 76ms TTFB.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 128ms TTFB.

Audit Trail & Evidence Record

Verification ID	33781ab1-6ca6-4ba1-8377-02a622b8f72e
Domain	thestar.com.my
Check Mode	Scheduled
Status	Completed
Started	13 Jun 2026, 01:05:53 MYT
Finished	13 Jun 2026, 01:06:17 MYT
Test Node Profile	ipv6 only
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/33781ab1-6ca6-4ba1-8377-02a622b8f72e

Integrity Verification

✓ INTEGRITY VERIFIED	
Algorithm	hmac-sha256-v1
Root Hash	1c0ecb3147e336c622528e27da39d31b6379539585c8eed8def128c09853e207
http_headers	f38070a9a0201e23e166e6951fd47a9b4109952b84e38c73ac5362eb8e76438a
dns_responses	3accfd7ff9fd766289bbb0f3b3827f36b1144240713e11ae4fe2ab0516d42220
tls_handshake	2c166682b08f86c7aeb9811a0105659ceaf9626eb694724b12e4d7bfdecbeb50
connectivity_log	4a310d0efe8c718e95b49cdc3a7097c5c20f475466cc3f98896b525840ccb861
dns_resolution_times	1b618f38e950aaa2eab5630e73b66c28d9d21a4eb5d177f71799df6dd20bb223

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	-
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	26.36	30.14	16.58	19.54	-9.8
Google	IPv4	24.12	36.26	16.12	33.48	-8
Google	IPv6	33.19	38.15	38.87	48.27	+5.7
Cloudflare	IPv4	21.61	24.51	9.95	22.78	-11.7
Cloudflare	IPv6	11.4	43.01	21.79	23.73	+10.4

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 19423
;; 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. 33 IN A 3.33.236.10
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 47121
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
com.my. 3353 IN SOA e.nic.my. hostmaster.nic.my. 2026046677 1800 900 604800 3600
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 62520
;; 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: 57470
;; 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-1635.awsdns-12.co.uk.
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.
```

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 6370
;; flags: qr rd ra; QUERY: 1, ANSWER: 5, 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 "reh-verify=qkbdey.rediredge.com"
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: 56732
;; 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. 878 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: 1488
;; 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. 878 IN SOA ns-415.awsdns-51.com. admin.thestar.com.my. 1999051860 3600 600 604800 1800
```

DNSSEC_VALIDATION

```
; unsigned answer
thestar.com.my. 878 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=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 = YE2
verify return:1
depth=0 CN = thestar.com.my
verify return:1
CONNECTED(0000010)
---
Certificate chain
0 s:CN = thestar.com.my
  i:C = US, O = Let's Encrypt, CN = YE2
  a:PKEY: id-ecPublicKey, 384 (bit); sigalg: ecdsa-with-SHA384
  v:NotBefore: Jun  8 23:18:25 2026 GMT; NotAfter: Sep  6 23:18:24 2026 GMT
-----BEGIN CERTIFICATE-----
MIIDpTCCAyugAwIBAgISBtGXn6RRagFDtTWzAjzdS+05MAoGCCqGSM49BAMDMDMx
CzAJBgNVBAYTALVTMRyWFAyDV0QKEwIMXZQncyBFbmlNyeXB0MQwwCgYDVQQDEwNZ
RTIwHhcnMjYwNjA4MjMxODI1WWhcNmJYw0TA2MjMxODI0IjwvZm9kZGZyLmNvbS55
teTB2MBAGBqGSM49AgEGBSuBBAAIA2IABlGaz4MaU2Iotdi
QY9F8JIXdtH3N03w95/draPA//3oMkoZVMhDnLh0obEKfECNdyEY8Cgc1L2KnDnT
v/E9+VIUy1ClV6mTWhSsh9fyQZhdTbcrdLyR50DnLwD6teMKNK0CAhowggIwMA4G
A1UdDwEB/wQEAwIHgDATBgNVHSUEDDAKBgggrBgEFBQcDATAMBGNVHRMBAf8EAjAA
MB0GA1UdDgQWBBQ1nL17XHiuVRwUgo/bVRC7vlt0kTAFbGNVHSMEDAwgBS5WfK0
zyLwhtM3SP92FBI6gthVhZAzBgggrBgEFBQcBAQQnMCUwIwYIKwYBBQUHMAKGF2h0
dHA6Ly95ZTIuaS5S2W5jci5vcmcvMBkGA1UdEQQSMBCDnRoZXN0YXUy29tLm15
MBMGA1UdIAQMMMAowCAYGZ4EMAQIBMC4GA1UdHwQnMCUwI6AhoB+GHWh0dHA6Ly95
ZTIuYy5sZW5jci5vcmcvNTguY3J3SjMIIBCgYKKwYBBABWQIEAgSB+wSB+AD2AHUA
wjF+V0Uzo0XufzjespBB68FCIVoiV3/Vta12mtk0U50AAAAGeqb1KMAAABAMARjBE
A1BKs2v+wPj2hR2Xi90eFmoFtVR1QNUVzwe4395U0e5CbJgERTFTg4EAq/SpVgn
mXf48LcXJX+3y5ZqL4ia2nVzS2kAfQAm42RuWgkH17w0P0ckNz3ks0kwojYfD0T
M/2ZGkTHiAAAZ6pvUmIAAgAAUAGvktLwQDAEYwRAIGz54eJF/8YHKLUP05zDc
aCzMKC8XUtRxxXHLpZYLcLsCIFZCMT8P2GkTf1abqovpnrTb5gQDU73N2+RD48R
5uA7MAoGCCqGSM49BAMDA2gAMGUCMQDnv75KkfkLLXDh6Ugu8PhMfqBUzj/+IyjV
0s2IGGFpbx74v9B9nchInky1uw5FNf4CMGk1dbjYlY00Rg4xQC+7e5v8h/udRvw
EnvX/sVJ0GTrofYsvgl/WW0zvyemm2LTg==
-----END CERTIFICATE-----
1 s:C = US, O = Let's Encrypt, CN = YE2
  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-----
MIICjDCCAhGgAwIBAgIQTf0XdbAeExQfNN7W0bxFTAKBggqhkJOPQDZAuMQsw
CQYDVQQGEwJVUzENMAAsGA1UEChMESVNSRzEQMA4GA1UEAxMHUm9vdCBZRTAeFw0y
NTA5MDMwMDAwMDBaFw0yODA5MDIyMzU5NTU1Lm15MjMxODI1WWhcNmJYw0TA2MjMx
ODI0IjwvZm9kZGZyLmNvbS55teTB2MBAGBqGSM49AgEGBSuBBAAIA2IABlGaz4Ma
U2IotdiQY9F8JIXdtH3N03w95/draPA//3oMkoZVMhDnLh0obEKfECNdyEY8Cgc1L2
KnDnTv/E9+VIUy1ClV6mTWhSsh9fyQZhdTbcrdLyR50DnLwD6teMKNK0CAhowggIw
MA4GA1UdDwEB/wQEAwIHgDATBgNVHSUEDDAKBgggrBgEFBQcDATAMBGNVHRMBAf8EA
jAA MB0GA1UdDgQWBBQ1nL17XHiuVRwUgo/bVRC7vlt0kTAFbGNVHSMEDAwgBS5WfK0
zyLwhtM3SP92FBI6gthVhZAzBgggrBgEFBQcBAQQnMCUwIwYIKwYBBQUHMAKGF2h0
dHA6Ly95ZTIuaS5S2W5jci5vcmcvMBkGA1UdEQQSMBCDnRoZXN0YXUy29tLm15
MBMGA1UdIAQMMMAowCAYGZ4EMAQIBMC4GA1UdHwQnMCUwI6AhoB+GHWh0dHA6Ly95
ZTIuYy5sZW5jci5vcmcvNTguY3J3SjMIIBCgYKKwYBBABWQIEAgSB+wSB+AD2AHUA
wjF+V0Uzo0XufzjespBB68FCIVoiV3/Vta12mtk0U50AAAAGeqb1KMAAABAMARjBE
A1BKs2v+wPj2hR2Xi90eFmoFtVR1QNUVzwe4395U0e5CbJgERTFTg4EAq/SpVgn
mXf48LcXJX+3y5ZqL4ia2nVzS2kAfQAm42RuWgkH17w0P0ckNz3ks0kwojYfD0T
M/2ZGkTHiAAAZ6pvUmIAAgAAUAGvktLwQDAEYwRAIGz54eJF/8YHKLUP05zDc
aCzMKC8XUtRxxXHLpZYLcLsCIFZCMT8P2GkTf1abqovpnrTb5gQDU73N2+RD48R
5uA7MAoGCCqGSM49BAMDA2gAMGUCMQDnv75KkfkLLXDh6Ugu8PhMfqBUzj/+IyjV
0s2IGGFpbx74v9B9nchInky1uw5FNf4CMGk1dbjYlY00Rg4xQC+7e5v8h/udRvw
EnvX/sVJ0GTrofYsvgl/WW0zvyemm2LTg==
-----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-----
MIICpjCCAiugAwIBAgIRAIchZfw0tuX7qK3Vs3BftTowCgYIKoZIzj0EAwMwTzEL
MAKGA1UEBhMCMVVMxKTAnBgNVBAoTIEludGVybmlV0IFNlY3VyaXR5IFJlc2VhcnNo
IEdyb3VwMRUwEwYDVQQDEwZU1JHIFJvb3QgWDIwHhcnMjYwNTEzMDAwMDAwMDA1
MzIwOTYwMjM1OTU5WjAuMQswCQYDVQQGEwJVUzENMAAsGA1UEChMESVNSRzEQMA4G
A1UEAxMHUm9vdCBZRTB2MBAGBqGSM49AgEGBSuBBAAIA2IABDwS/6vhrCvQcbBo
+wgDI3fwn9x7DNJJ0Y/LT0ti0vkwuRN87RhEhTH17E7YfJwSPYhIpt/wz0qxTd2
b+4ZJny9ID04YywF9U5zasDVyGSNERvntz8uSgh5izW87j77Ga0B6zCB6DA0BgnV
H08BAf8EBAMCAQYwEwYDVR0LBAwwCgYIKwYBBQUHAwEwDwYDVR0TAQH/BAUwAwEB
/zAdBgNVHQ4EFgQU08gm06hTNA1Y/ybI8g6rLbZT1YwHwYDVR0jBBgwFoAUFKw
rt5LSdv6kviem9ti6lYn5UwMgYIKwYBBQUHAQEJjAkMCIICCcGAQUBzAChhZo
dHRw0i8veDIuaS5S2W5jci5vcmcvMBMGA1UdIAQMMMAowCAYGZ4EMAQIBMC4GA1Ud
```


HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	403
Connected IP	3.33.236.10
Connect Time	1.11 ms
TTFB	87.5 ms
Total Time	87.56 ms

Response Headers:

```
[
  "HTTP/1.1 403 Forbidden",
  "Edge: edge-hk-909",
  "Date: Fri, 12 Jun 2026 17:06:16 GMT",
  "Content-Length: 19",
  "Content-Type: text/plain; charset=utf-8"
]
```

IPv4 HTTPS (port 443)

HTTP Status	403
Connected IP	3.33.236.10
Connect Time	1.42 ms
TTFB	120.45 ms
Total Time	120.48 ms

Response Headers:

```
[
  "HTTP/2 403",
  "server: openresty",
  "date: Fri, 12 Jun 2026 17:06:16 GMT",
  "content-type: text/plain; charset=utf-8",
  "content-length: 19",
  "edge: edge-hk-909"
]
```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	301 0.000827 0.079018
TCP Connect IPv4 → port 443	301 0.001477 0.125808

Test Node Network Evidence

Node Profile	ipv6 only
--------------	-----------

Egress Connectivity

IPv4 Egress	76.13.221.142
IPv6 Egress	unreachable

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
76.13.221.0/24 dev eth0 proto kernel scope link src 76.13.221.142
```