

IPv6 Readiness Report

astro.com.my — astro.com.my

Category: Telco • Generated: 21 Apr 2026, 18:55 MYT • Last Checked: 07 Mar 2026, 01:14 MYT • Verification ID: 4995e8e1-1c1d-4688-8bc8-438c34741f73

Report generated from National IPv6 Readiness Monitor — <https://ipv6.my6.my>Audit trail: <https://ipv6.my6.my/audit/4995e8e1-1c1d-4688-8bc8-438c34741f73>**Partially Compliant**

MGv6C-1.0

73%**Partial Support****IPv6-ONLY READINESS**Website: ✓ **Ready**DNS: ✓ **Ready**Email: ✗ **Not Ready****IPv6 ADDRESSES**

2606:4700::6810:370e

2606:4700::6810:360e

IPv4 ADDRESSES

13.33.45.99

13.33.45.35

13.33.45.116

13.33.45.71

Network Information (WHOIS / RDAP)

	IPv6 Network	IPv4 Network
Organization	Cloudflare, Inc.	Amazon.com, Inc.
Country	US	US
ASN	AS13335	AS16509
ASN Name	CLOUDFLARENET - Cloudflare, Inc., US	AMAZON-02 - Amazon.com, Inc., US
Network (CIDR)	2606:4700::/32	13.32.0.0/15

Web Services (35%)

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#	CHECK	RESULT	DETAIL
1	AAAA Record	PASS	2606:4700::6810:370e, 2606:4700::6810:360e
2	Globally Routable IPv6	PASS	All addresses are globally routable.
3	HTTP over IPv6	PASS	HTTP (port 80) responds over IPv6.
4	HTTPS over IPv6	PASS	HTTPS (port 443) responds over IPv6.
5	IPv6-Only Reachability	PASS	Site is fully reachable via IPv6-only.
6	TLS Certificate Valid (IPv6)	PASS	Certificate valid — issued by C = US, O = DigiCert Inc, CN = DigiCert Global G2 TLS RSA SHA256 2020 CA1, expires May 22 23:59:59 2026 GMT
7	Dual-Stack (IPv4 + IPv6)	PASS	Domain has both A and AAAA records.
8	HTTP/3 (QUIC)	FAIL	No HTTP/3 support detected.

DNS & DNSSEC (25%)

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#	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.

#	CHECK	RESULT	DETAIL
7	RRSIG Valid	FAIL	No valid RRSIG found.
8	Signing Algorithm	INFO	No DNSKEY record found.

Email Services (25%) 3 / 6

#	CHECK	RESULT	DETAIL
1	MX Record Exists	PASS	MX record found.
2	MX Server Has IPv6	FAIL	MX server has no IPv6 address.
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: k1_domainkey
7	DMARC Record	PASS	DMARC record found.

IPv4 Baseline (15%) 3 / 3

#	CHECK	RESULT	DETAIL
1	A Record	PASS	13.33.45.99, 13.33.45.35, 13.33.45.116, 13.33.45.71
2	HTTP over IPv4	PASS	HTTP (port 80) responds over IPv4 — 79ms TTFB.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 59ms TTFB.

Audit Trail & Evidence Record

Verification ID	4995e8e1-1c1d-4688-8bc8-438c34741f73
Domain	astro.com.my
Check Mode	Manual
Status	Completed
Started	07 Mar 2026, 01:13:52 MYT
Finished	07 Mar 2026, 01:14:00 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/4995e8e1-1c1d-4688-8bc8-438c34741f73

Integrity Verification

✓ INTEGRITY VERIFIED	
Algorithm	hmac-sha256-v1
Root Hash	1119a47d11d40bb1d2c7e9146500b72bd892ed42dc3488961c919b7697763525
http_headers	34a0a0fbfd18fb20d32d4b8d0b02d57162e805806c83187484f015ef677966f3
dns_responses	0d665448348925e9355ca2e5e0b975034d16f0dab5430a3d1f1eef63fe616
tls_handshake	d69c095dc025b0970e429fedd7451aff5c1f4355632dc7f58b7349179fcffde8
connectivity_log	cbb21413818183f9e31d6c995636803618095b9e26de957b2055807d12dad748
dns_resolution_times	63456dc4c733f88cc345f87852140b285e5bdac8e3dd4621297401db6d291913

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	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	8.03	16.94	5.92	6.12	-2.1
Google	IPv4	20.37	29.46	36.51	40.15	+16.1
Google	IPv6	21.91	71.21	40.06	40.14	+18.2
Cloudflare	IPv4	10.29	15.55	7.93	8.03	-2.4
Cloudflare	IPv6	9.08	189.11	17.8	190.49	+8.7

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 8520
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
astro.com.my. 00600IN A 18.161.179.44
astro.com.my. 00600IN A 18.161.179.24
astro.com.my. 00600IN A 18.161.179.89
astro.com.my. 00600IN A 18.161.179.81
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 516
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
com.my. 0018000IN SOA b.nic.my. hostmaster.nic.my. 2026018482 1800 900 604800 3600
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 17134
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
astro.com.my. 002660IN MX 10 astro.in.tmes-sg.trendmicro.com.
```

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 6053
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
astro.com.my. 00211170IN NS ns-1070.awsdns-05.org.
astro.com.my. 00211170IN NS ns-1933.awsdns-49.co.uk.
astro.com.my. 00211170IN NS ns-274.awsdns-34.com.
astro.com.my. 00211170IN NS ns-734.awsdns-27.net.
```

TXT

```
;; Truncated, retrying in TCP mode.
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 7707
;; flags: qr rd ra; QUERY: 1, ANSWER: 20, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
astro.com.my. 002010IN TXT "google-site-verification=di6Bzme02E0MgBvM1Y7YRr71oIrvnGkDGAWaB3bhuM"
astro.com.my. 002010IN TXT "v=spf1 a include:ncapp02.com include:servers.mcsv.net include:amazonses.com include:spf.protection.outlook.com include:spf.tmes.trendmicro.com include:_spf.salesforce.com -all"
astro.com.my. 002010IN TXT "MS=ms97282056"
astro.com.my. 002010IN TXT "_mjh6mnmv9ow2c9qao0xm9s93h0r7531"
astro.com.my. 002010IN TXT "google-site-verification=Xx05V3_pJSSm2XJksZslm0vxlKuNiFg8DQLAS0Dk"
astro.com.my. 002010IN TXT "google-site-verification=Nckx78pD-xellGDRqQ_0gZYKu0Pbnoiz0g5ltAa9oQ"
astro.com.my. 002010IN TXT "ip4:168.63.237.193 ip4:121.123.146.208 ip4:202.185.251.1 ip4:111.221.20.128/25 include:msopr.msft.net include:mailgun.org"
astro.com.my. 002010IN TXT "google-site-verification=M8cmfSGm8qbvr0127wtaxHqmhW00FHh0nLgPLS3D-Y"
astro.com.my. 002010IN TXT "4skpgc8r2f36dxtwj2w56pkypfvh5k"
astro.com.my. 002010IN TXT "facebook-domain-verification=38qfu81qxe8jtgcyfnci8nqackzifu"
astro.com.my. 002010IN TXT "cursor-domain-verification-re2wr5=t7UBV0jJtxoSIXs9zvbPJTSEY"
astro.com.my. 002010IN TXT "wZdiz9LAAI8QFFTHWYXET5AusrPpeLUpMh41Z4IEtbnRQqbdYwvklSYy6YH+vMxYo1Jzhd5WXqhqu4JnLB6sA=="
astro.com.my. 002010IN TXT "google-site-verification=YrRAq9IGdlj9X5H8H5iiK3YC9_avY3o2xkYqbGTGIk"
astro.com.my. 002010IN TXT "google-gws-recovery-domain-verification=51463545"
astro.com.my. 002010IN TXT "apple-domain-verification=x83URLkjfrtVDvN"
```

```
astro.com.my.002010IN0TXT0"tmes=ab243fc04dcbff3bc4c17fc90788e8a7"
astro.com.my.002010IN0TXT0"brevo-code:9bef1019837b56cfe4efd13bef1f3124"
astro.com.my.002010IN0TXT0"amazonses:ywgC3Q0E4Et/pJeG6fSI1I6ACQ69BVDp1WwyeUSgk0o="
astro.com.my.002010IN0TXT0"2xjmq8xjyj468c7c2fk3z7p46p2gmmwgv"
astro.com.my.002010IN0TXT0"k1_domainkey.astro.com.my k=rsa;
p=MIGfMA0GCSqGSIb3DQEBAQUAA4GNADCBiQKBgQDI/gbl+HXwY/oXiK1LWIXQ0UzbL4CIN4F+JpM7n0CbJEo/XodTXCMDN+gSuhf9qRc4J8j+N6CXJ+mLYWME9TmmQSNVIBX7eFYLSokK9vosnM+HGyk/qrLEdLKjW07csH5+kBD0gxrd
```

AAAA

```
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 49058
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
astro.com.my.009000IN0S0A0ns-734.awsdns-27.net. awsdns-hostmaster.amazon.com. 1 7200 900 1209600 86400
```

RRSIG

```
ns-734.awsdns-27.net. awsdns-hostmaster.amazon.com. 1 7200 900 1209600 86400
```

DNSKEY

```
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 26671
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
astro.com.my.009000IN0S0A0ns-734.awsdns-27.net. awsdns-hostmaster.amazon.com. 1 7200 900 1209600 86400
```

DNSSEC_VALIDATION

```
; unsigned answer
astro.com.my.009000IN0S0A0ns-734.awsdns-27.net. awsdns-hostmaster.amazon.com. 1 7200 900 1209600 86400
```


HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	200
Connected IP	104.16.54.14
Connect Time	17.17 ms
TTFB	78.31 ms
Total Time	78.42 ms

Response Headers:

```
{
  "0": "HTTP/1.1 301 Moved Permanently",
  "1": "Server: CloudFront",
  "2": "Date: Fri, 06 Mar 2026 09:14:00 GMT",
  "3": "Content-Type: text/html",
  "4": "Content-Length: 167",
  "5": "Connection: keep-alive",
  "6": "Location: https://astro.com.my/",
  "7": "X-Cache: Redirect from cloudfront",
  "8": "Via: 1.1 475d669d6a669094dfa09def007f90d6.cloudfront.net (CloudFront)",
  "9": "X-Amz-Cf-Pop: SIN2-P1",
  "10": "X-Amz-Cf-Id: isLZf0b9qxoy5mwkgLvddZrjmz92X0nh8JEvSkR6Vnhy63UNp19ofw==",
  "12": "HTTP/2 301",
  "13": "content-length: 0",
  "14": "location: https://www.astro.com.my/",
  "15": "date: Fri, 06 Mar 2026 07:51:17 GMT",
  "16": "server: AmazonS3",
  "17": "x-cache: Hit from cloudfront",
  "18": "via: 1.1 2ec3a59b33dd3ac1e987a568fb8bba88.cloudfront.net (CloudFront)",
  "19": "x-amz-cf-pop: SIN2-P1",
  "20": "x-amz-cf-id: S0CmXHVec9o_4QsEpIqLehEFTjAvBUGq6Gk7ELex3wI0vvtTazL6uA==",
  "21": "age: 4964",
  "23": "HTTP/2 200",
  "24": "date: Fri, 06 Mar 2026 09:14:00 GMT",
  "25": "content-type: text/html",
  "26": "cf-ray: 9d803f697b368066-KUL",
  "27": "last-modified: Thu, 05 Mar 2026 01:40:38 GMT",
  "28": "x-amz-server-side-encryption: AES256",
  "29": "accept-ranges: bytes",
  "30": "x-cache: Hit from cloudfront",
  "31": "via: 1.1 1502587ee82c44074ab8468c1517e044.cloudfront.net (CloudFront)",
  "32": "x-amz-cf-pop: SIN3-P1",
  "33": "x-amz-cf-id: TUsNjFnfMMJvuXHdV0W8R1Pm07MbHFofiYavLHQ9UK54pkmJ4_A0XQ==",
  "34": "age: 4398",
  "35": "x-frame-options: SAMEORIGIN",
  "36": "content-security-policy: frame-ancestors *",
  "37": "x-content-type-options: nosniff",
  "38": "cf-cache-status: DYNAMIC",
  "39": "server: cloudflare"
}
```

IPv6 HTTP (port 80)

HTTP Status	301
Connected IP	2606:4700::6810:370e
Connect Time	8.33 ms
TTFB	241.11 ms
Total Time	241.27 ms
Error	Could not resolve host: astro.com.my

Response Headers:

```
[
  "HTTP/1.1 301 Moved Permanently",
  "Date: Fri, 06 Mar 2026 09:14:00 GMT",
  "Content-Type: text/html",
  "Connection: keep-alive",
  "CF-RAY: 9d803f6609639c6f-SIN",
  "Location: https://astro.com.my/",
  "X-Cache: Redirect from cloudfront",
  "Via: 1.1 2ed8b9e5e9e8dd68644e8565796cf93a.cloudfront.net (CloudFront)",
]
```

```
"X-Amz-Cf-Pop: SIN3-P1",
"X-Amz-Cf-Id: -QECsXXPqu0KSdpuf-N9EcUhcqYt6QCaDLV_nIkmpJ-os2vpk5ahLg==",
"cf-cache-status: DYNAMIC",
"Server: cloudflare"
]
```

IPv4 HTTPS (port 443)

HTTP Status	200
Connected IP	104.16.54.14
Connect Time	10.8 ms
TTFB	74.62 ms
Total Time	74.7 ms

Response Headers:

```
{
  "0": "HTTP/2 301",
  "1": "content-length: 0",
  "2": "location: https://www.astro.com.my/",
  "3": "date: Fri, 06 Mar 2026 07:51:17 GMT",
  "4": "server: AmazonS3",
  "5": "x-cache: Hit from cloudfront",
  "6": "via: 1.1 500f4e37798a0a47047ecfa48f4fd932.cloudfront.net (CloudFront)",
  "7": "x-amz-cf-pop: SIN2-P1",
  "8": "x-amz-cf-id: aW5sC0Tm8FT0654b7prIAnEyTBoJgFnA-WK9iIU1DFNeSAX1CmVIQ==",
  "9": "age: 4964",
  "11": "HTTP/2 200",
  "12": "date: Fri, 06 Mar 2026 09:14:00 GMT",
  "13": "content-type: text/html",
  "14": "cf-ray: 9d803f6a7b6cd4a9-KUL",
  "15": "last-modified: Thu, 05 Mar 2026 01:40:38 GMT",
  "16": "x-amz-server-side-encryption: AES256",
  "17": "accept-ranges: bytes",
  "18": "x-cache: Hit from cloudfront",
  "19": "via: 1.1 a066b4f9366cbc89f3f3c489ff4cc516.cloudfront.net (CloudFront)",
  "20": "x-amz-cf-pop: SIN3-P1",
  "21": "x-amz-cf-id: BqrQWasTZVeZxb4PFURGUfwRUj_xDraeX0SrpWIEmC298xRrLCII-g==",
  "22": "age: 4398",
  "23": "x-frame-options: SAMEORIGIN",
  "24": "content-security-policy: frame-ancestors *",
  "25": "x-content-type-options: nosniff",
  "26": "cf-cache-status: DYNAMIC",
  "27": "server: cloudflare"
}
```

IPv6 HTTPS (port 443)

HTTP Status	301
Connected IP	2606:4700::6810:370e
Connect Time	0.79 ms
TTFB	60.65 ms
Total Time	60.76 ms
Error	Maximum (3) redirects followed

Response Headers:

```
{
  "0": "HTTP/2 301",
  "1": "date: Fri, 06 Mar 2026 09:14:00 GMT",
  "2": "content-type: text/html",
  "3": "location: https://astro.com.my/",
  "4": "cf-ray: 9d803f684d757e7f-KUL",
  "5": "x-cache: Redirect from cloudfront",
  "6": "via: 1.1 3868bd23c98f25d03ceb56d0cde3b53e.cloudfront.net (CloudFront)",
  "7": "x-amz-cf-pop: KUL50-P1",
  "8": "x-amz-cf-id: 18V0FKLoVxr38xHXYF67nudLIIFtzMEcPbc4UYeTvMImpPTElpp8ZQ==",
  "9": "cf-cache-status: DYNAMIC",
  "10": "server: cloudflare",
  "12": "HTTP/2 301",
  "13": "date: Fri, 06 Mar 2026 09:14:00 GMT",
  "14": "content-type: text/html",
  "15": "location: https://astro.com.my/",
}
```

```

"16": "cf-ray: 9d803f686dbb7e7f-KUL",
"17": "x-cache: Redirect from cloudfront",
"18": "via: 1.1 3868bd23c98f25d03ceb56d0cde3b53e.cloudfront.net (CloudFront)",
"19": "x-amz-cf-pop: KUL50-P1",
"20": "x-amz-cf-id: HHispQHcnGBeU_JTxDtMlCSsje5ICGxHjpvputUY4s7pFy0Z1h90-A==",
"21": "cf-cache-status: DYNAMIC",
"22": "server: cloudflare",
"24": "HTTP/2 301",
"25": "date: Fri, 06 Mar 2026 09:14:00 GMT",
"26": "content-type: text/html",
"27": "location: https://astro.com.my/",
"28": "cf-ray: 9d803f687e017e7f-KUL",
"29": "x-cache: Redirect from cloudfront",
"30": "via: 1.1 3868bd23c98f25d03ceb56d0cde3b53e.cloudfront.net (CloudFront)",
"31": "x-amz-cf-pop: KUL50-P1",
"32": "x-amz-cf-id: C673h_yrL0dk5vBSYfkTGTn9WnlFbmmI0uISA_pwdiPW9cCknc5vKg==",
"33": "cf-cache-status: DYNAMIC",
"34": "server: cloudflare",
"36": "HTTP/2 301",
"37": "date: Fri, 06 Mar 2026 09:14:00 GMT",
"38": "content-type: text/html",
"39": "location: https://astro.com.my/",
"40": "cf-ray: 9d803f688e367e7f-KUL",
"41": "x-cache: Redirect from cloudfront",
"42": "via: 1.1 3868bd23c98f25d03ceb56d0cde3b53e.cloudfront.net (CloudFront)",
"43": "x-amz-cf-pop: KUL50-P1",
"44": "x-amz-cf-id: KnCeEFCVd2448R5h5xMoQPD0cexUVQtjWmzg_QEAVImftjmdAj70KQ==",
"45": "cf-cache-status: DYNAMIC",
"46": "server: cloudflare"
}
    
```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	301 0.007646 0.016141
TCP Connect IPv6 → port 80	301 0.000999 0.017412
TCP Connect IPv4 → port 443	301 0.008031 0.042259
TCP Connect IPv6 → port 443	301 0.009346 0.055991

Test Node Network Evidence

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
--------------------------------	---

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
    
```