IPv6 Readiness Report

mahkotamedical.com — mahkotamedical.com

Scan to verify

Category: Healthcare • Generated: 02 Nov 2026, 03:07 MYT • Last Checked: 08 Aug 2026, 18:27 MYT • Verification ID: eb12e473-4fbb-455d-8978-7c197dca969a
Report generated from National IPv6 Readiness Monitor — https://ipv6.my6.my
Audit trail: https://ipv6.my6.my/audit/eb12e473-4fbb-455d-8978-7c197dca969a

⚠

Partially Compliant

MGv6C-1.0

68%

Partial Support

IPV6-ONLY READINESS

Website: ✗ **Not Ready**

DNS: ✓ **Ready**

Email: ✗ **Not Ready**

IPV6 ADDRESSES

2600:9000:2721:3e00:6:c13e:1e80:93a1
2600:9000:2721:5a00:6:c13e:1e80:93a1
2600:9000:2721:d600:6:c13e:1e80:93a1
2600:9000:2721:ca00:6:c13e:1e80:93a1
2600:9000:2721:3400:6:c13e:1e80:93a1
2600:9000:2721:4600:6:c13e:1e80:93a1
2600:9000:2721:7400:6:c13e:1e80:93a1
2600:9000:2721:f400:6:c13e:1e80:93a1

IPV4 ADDRESSES

199.60.103.105
103.15.235.35
199.60.103.5

Network Information (WHOIS / RDAP)

	IPv6 Network	IPv4 Network
Organization	Amazon.com, Inc.	HubSpot, Inc.
Country	US	US
ASN	AS16509	AS209242
ASN Name	AMAZON-02 - Amazon.com, Inc., US	CLOUDFLARESPECTRUM - Cloudflare London, LLC, US
Network (CIDR)	2600:9000::/28	199.60.103.0/24

Web Services (35%) — 4 / 8

#	CHECK	RESULT	DETAIL
1	**AAAA Record**	PASS	2600:9000:2721:3e00:6:c13e:1e80:93a1, 2600:9000:2721:5a00:6:c13e:1e80:93a1, 2600:9000:2721:d600:6:c13e:1e80:93a1, 2600:9000:2721:ca00:6:c13e:1e80:93a1, 2600:9000:2721:3400:6:c13e:1e80:93a1, 2600:9000:2721:4600:6:c13e:1e80:93a1, 2600:9000:2721:7400:6:c13e:1e80:93a1, 2600:9000:2721:f400:6:c13e:1e80:93a1
2	**Globally Routable IPv6**	PASS	All addresses are globally routable.
3	**HTTP over IPv6**	PASS	HTTP (port 80) responds over IPv6 — 15ms TTFB.
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)**	PASS	Domain has both A and AAAA records.
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.

#	CHECK	RESULT	DETAIL
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 / 4

#	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	No common DKIM selector found.
7	**DMARC Record**	PASS	DMARC record found.

IPv4 Baseline (15%) — 2 / 3

#	CHECK	RESULT	DETAIL
1	**A Record**	PASS	199.60.103.105, 103.15.235.35, 199.60.103.5
2	**HTTP over IPv4**	PASS	HTTP (port 80) responds over IPv4 — 6ms TTFB.
3	**HTTPS over IPv4**	FAIL	HTTPS is not accessible over IPv4.

Audit Trail & Evidence Record

Verification ID	eb12e473-4fbb-455d-8978-7c197dca969a
Domain	mahkotamedical.com
Check Mode	Manual
Status	Completed
Started	08 Aug 2026, 18:27:12 MYT
Finished	08 Aug 2026, 18:27:33 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/eb12e473-4fbb-455d-8978-7c197dca969a

Integrity Verification

✓ **INTEGRITY VERIFIED**

Algorithm	hmac-sha256-v1
Root Hash	f4750d22245aea5bb3e65be7c75cf59b96575347335b9d56ba9d9b5be28bbab0
http_headers	069f79c35cf2dff8c061c8580318f5fa05b5736f98c8226c40beb3f30050b8d4
dns_responses	8280f96e42103365f9cbb1d0d4d724875c19f0ad771de826ef48dc5e3ec480d6
tls_handshake	9eeed0ee2f4705c53332143926ba9e45313b0a2764a377db3dbc90cb24d83ca9
connectivity_log	c97a1dd691641e9e9ae28128811b9d6b8a022a2f96f4dcc48daed42c7a04196b
dns_resolution_times	d9e900f663c68bde3ee3cd116ca4a14f3c924929bb6bc40595f6dad511ba60f7

Test Node Identity

Os	Linux srv1440888 6.8.0-136-generic #136-Ubuntu SMP PREEMPT_DYNAMIC Wed Jul 1 21:53:05 UTC 2026 x86_64
Hostname	srv1440888
Php Version	8.3.33
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	21.69	27.33	22.55	28.49	+0.9
Google	IPv4	82.09	89.46	93.09	100.04	+11
Google	IPv6	89.06	101.76	91.3	98.86	+2.2
Cloudflare	IPv4	24.45	26	24.68	26.31	+0.2
Cloudflare	IPv6	34.54	193.66	33.9	35.41	-0.6

DNS Evidence

A

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 41468
;; flags: qr rd ra; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
mahkotamedical.com.	1799	IN	A	199.60.103.5
mahkotamedical.com.	1799	IN	A	103.15.235.35
mahkotamedical.com.	1799	IN	A	199.60.103.105
```

DS

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 62382
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
com.		875	IN	SOA	a.gtld-servers.net. nstld.verisign-grs.com. 1786184799 1800 900 604800 900
```

MX

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 62778
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
mahkotamedical.com.	3600	IN	MX	9 mahkotamedical-com.mail.protection.outlook.com.
```

NS

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 551
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
mahkotamedical.com.	1800	IN	NS	pdns1.registrar-servers.com.
mahkotamedical.com.	1800	IN	NS	pdns2.registrar-servers.com.
```

TXT

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 17361
;; flags: qr rd ra; QUERY: 1, ANSWER: 8, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
mahkotamedical.com.	1799	IN	TXT	"v=spf1 include:spf.protection.outlook.com -all"
mahkotamedical.com.	1799	IN	TXT	"_ds-domain-verification=fde8ffbdd43757a420c3d4fcbd6ee64a"
mahkotamedical.com.	1799	IN	TXT	"workplace-domain-verification=74a4e6d8-087c-43cf-97f0-73a731b92e4a"
mahkotamedical.com.	1799	IN	TXT	"BPL=8273482"
mahkotamedical.com.	1799	IN	TXT	"MS=ms43168926"
mahkotamedical.com.	1799	IN	TXT	"MS=ms78550548"
mahkotamedical.com.	1799	IN	TXT	"hes=26a937a07463515760928bb52958306b"
mahkotamedical.com.	1799	IN	TXT	"MS=02418CD062EDB969A3656F28572AFC72C67E4F51"
```

AAAA

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 20922
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
mahkotamedical.com.	3582	IN	SOA	pdns1.registrar-servers.com. hostmaster.registrar-servers.com. 1780446223 43200 3600 604800 3601
```

RRSIG

```
pdns1.registrar-servers.com. hostmaster.registrar-servers.com. 1780446223 43200 3600 604800 3601
```

DNSKEY

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 64581
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
mahkotamedical.com.□3581□IN□SOA□pdns1.registrar-servers.com. hostmaster.registrar-servers.com. 1780446223 43200 3600 604800 3601
```

DNSSEC_VALIDATION

```
; unsigned answer
mahkotamedical.com.□3582□IN□SOA□pdns1.registrar-servers.com. hostmaster.registrar-servers.com. 1780446223 43200 3600 604800 3601
```

TLS Handshake Evidence

IPV4 Connection

IP Used	199.60.103.105
IP Version	4

```
4097C0D219750000:error:0A000410:SSL routines:ssl3_read_bytes:sslv3 alert handshake failure:../ssl/record/rec_layer_s3.c:1599:SSL alert number 40
CONNECTED(00000010)
---
no peer certificate available
---
No client certificate CA names sent
---
SSL handshake has read 7 bytes and written 320 bytes
Verification: OK
---
New, (NONE), Cipher is (NONE)
Secure Renegotiation IS NOT supported
Compression: NONE
Expansion: NONE
No ALPN negotiated
Early data was not sent
Verify return code: 0 (ok)
---
```

IPV6 Connection

IP Used	2600:9000:2721:3e00:6:c13e:1e80:93a1
IP Version	6

```
40771528B5780000:error:0A000410:SSL routines:ssl3_read_bytes:sslv3 alert handshake failure:../ssl/record/rec_layer_s3.c:1599:SSL alert number 40
CONNECTED(00000010)
---
no peer certificate available
---
No client certificate CA names sent
---
SSL handshake has read 7 bytes and written 320 bytes
Verification: OK
---
New, (NONE), Cipher is (NONE)
Secure Renegotiation IS NOT supported
Compression: NONE
Expansion: NONE
No ALPN negotiated
Early data was not sent
Verify return code: 0 (ok)
---
```

HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	409
Connected IP	199.60.103.105
Connect Time	1 ms
TTFB	10.31 ms
Total Time	10.35 ms

Response Headers:


```
[
    "HTTP/1.1 409 Conflict",
    "Date: Sat, 08 Aug 2026 10:27:33 GMT",
    "Content-Type: text/plain; charset=UTF-8",
    "Content-Length: 16",
    "Connection: close",
    "X-Frame-Options: SAMEORIGIN",
    "Referrer-Policy: same-origin",
    "Cache-Control: private, max-age=0, no-store, no-cache, must-revalidate, post-check=0, pre-check=0",
    "Expires: Thu, 01 Jan 1970 00:00:01 GMT",
    "Server: cloudflare",
    "CF-RAY: a27dd4489e8b6312-KUL"
]
```


IPv6 HTTP (port 80)

HTTP Status	403
Connected IP	2600:9000:2721:3e00:6:c13e:1e80:93a1
Connect Time	7.31 ms
TTFB	14.52 ms
Total Time	14.57 ms

Response Headers:


```
[
    "HTTP/1.1 403 Forbidden",
    "Server: CloudFront",
    "Date: Sat, 08 Aug 2026 10:27:33 GMT",
    "Content-Type: text/html",
    "Content-Length: 915",
    "Connection: keep-alive",
    "X-Cache: Error from cloudfront",
    "Via: 1.1 58fd67189fcd37aeb89133f7788d34ae.cloudfront.net (CloudFront)",
    "X-Amz-Cf-Pop: SIN2-P6",
    "X-Amz-Cf-Id: 4dFQ_XlNwgb1h4Q9NJKpE3FEFH_dORA2Vj1aW2-4ovdobgFOQxv-sg=="
]
```


IPv4 HTTPS (port 443)

HTTP Status	0
Connected IP	199.60.103.105
Connect Time	0.84 ms
TTFB	0 ms
Total Time	3.12 ms
Error	OpenSSL/3.0.13: error:0A000410:SSL routines::sslv3 alert handshake failure

IPv6 HTTPS (port 443)

HTTP Status	0
Connected IP	2600:9000:2721:3e00:6:c13e:1e80:93a1
Connect Time	7.2 ms
TTFB	0 ms
Total Time	14.96 ms
Error	OpenSSL/3.0.13: error:0A000410:SSL routines::sslv3 alert handshake failure

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	409 0.001132 0.006458
TCP Connect IPv6 → port 80	403 0.006939 0.014000
TCP Connect IPv4 → port 443	000 0.000964 0.000000
TCP Connect IPv6 → port 443	000 0.006999 0.000000

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
fd7a:115c:a1e0::1136:5807 dev tailscale0 proto kernel metric 256 pref medium
fe80::/64 dev eth0 proto kernel metric 256 pref medium
fe80::/64 dev tailscale0 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
```