

IPv6 Readiness Report

mahkotamedical.com — mahkotamedical.com



Scan to verify

Category: Healthcare • Generated: 29 Jul 2026, 04:54 MYT • Last Checked: 04 Jul 2026, 03:39 MYT • Verification ID: da5f9dc4-c8c1-4528-9c21-c4333bba53d0
Report generated from National IPv6 Readiness Monitor — <https://ipv6.my6.my>
Audit trail: <https://ipv6.my6.my/audit/da5f9dc4-c8c1-4528-9c21-c4333bba53d0>

X

Non-Compliant

MGv6C-1.0

59%

No IPv6 Support

IPv6-ONLY READINESS

Website: X Not Ready

DNS: ✓ Ready

Email: X Not Ready

IPv6 ADDRESSES

2600:9000:2721:1c00:6:c13e:1e80:93a1
2600:9000:2721:6a00:6:c13e:1e80:93a1
2600:9000:2721:5600:6:c13e:1e80:93a1
2600:9000:2721:ee00:6:c13e:1e80:93a1
2600:9000:2721:aa00:6:c13e:1e80:93a1
2600:9000:2721:6e00:6:c13e:1e80:93a1
2600:9000:2721:b000:6:c13e:1e80:93a1
2600:9000:2721:800:6:c13e:1e80:93a1

IPv4 ADDRESSES

199.60.103.105
103.15.235.35
199.60.103.5

Network Information (WHOIS / RDAP)

IPv4 Network	
Organization	HubSpot, Inc.
Country	US
ASN	AS209242
ASN Name	CLOUDFLARESPECTRUM - Cloudflare London, LLC, US
Network (CIDR)	199.60.103.0/24

Web Services (35%)				4 / 8
#	CHECK	RESULT	DETAIL	
1	AAAA Record	PASS	2600:9000:2721:1c00:6:c13e:1e80:93a1, 2600:9000:2721:6a00:6:c13e:1e80:93a1, 2600:9000:2721:5600:6:c13e:1e80:93a1, 2600:9000:2721:ee00:6:c13e:1e80:93a1, 2600:9000:2721:aa00:6:c13e:1e80:93a1, 2600:9000:2721:6e00:6:c13e:1e80:93a1, 2600:9000:2721:b000:6:c13e:1e80:93a1, 2600:9000:2721:800:6:c13e:1e80:93a1	
2	Globally Routable IPv6	PASS	All addresses are globally routable.	
3	HTTP over IPv6	PASS	HTTP (port 80) responds over IPv6 — 16ms 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 / 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	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 — 7ms TTFB.
3	HTTPS over IPv4	FAIL	HTTPS is not accessible over IPv4.

Audit Trail & Evidence Record

Verification ID	da5f9dc4-c8c1-4528-9c21-c4333bba53d0
Domain	mahkotamedical.com
Check Mode	Manual
Status	Completed
Started	04 Jul 2026, 03:39:18 MYT
Finished	04 Jul 2026, 03:39:44 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/da5f9dc4-c8c1-4528-9c21-c4333bba53d0

Integrity Verification

✓ INTEGRITY VERIFIED	
Algorithm	hmac-sha256-v1
Root Hash	efc1dacc6258224806517fbcfea16b50907002a193e684911ffae5ea2f386c69
http_headers	cefbab82dd85f03877a2dc50ea85793be33480d13f7a596bade4476dcd357e1f
dns_responses	5cc58cd502e937bce7c945974c192e9a9f3074f53a34009b661e35fbe9ced141
tls_handshake	2f2c2a537f6b638dc4f72290eea18b5d188197da23ec6deb08a365f157928e43
connectivity_log	0cd8eaaab657304ca459fb645e285801c960e0a0832da1b806c5745a6fff8371
dns_resolution_times	a5b777d98c04d44834efeab99b2788f277d61fab61f3096cbc3e734ef7a80e08

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	9.67	30.15	16.43	20.94	+6.8
Google	IPv4	27.6	31.25	24.4	56.27	-3.2
Google	IPv6	21.87	52.8	20.92	37.97	-0.9
Cloudflare	IPv4	19.1	20.27	9.86	10.19	-9.2
Cloudflare	IPv6	20.14	23.53	19.77	36.83	-0.4



DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 40254
;; 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 199.60.103.105
mahkotamedical.com. 1799 IN A 199.60.103.5
mahkotamedical.com. 1799 IN A 103.15.235.35
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 44375
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags;; udp: 1232
;; AUTHORITY SECTION:
com. 876 IN SOA a.gtld-servers.net. nstld.verisign-grs.com. 1783107546 1800 900 604800 900
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 3300
;; 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: 33909
;; 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: 23962
;; 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 "MS=ms43168926"
mahkotamedical.com. 1799 IN TXT "MS=ms78550548"
mahkotamedical.com. 1799 IN TXT "hes=26a937a07463515760928bb52958306b"
mahkotamedical.com. 1799 IN TXT "MS=02418CD062EDB969A3656F28572AFC72C67E4F51"
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"
```

AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 56897
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags;; udp: 1232
;; AUTHORITY SECTION:
mahkotamedical.com. 3576 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: 39759
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
mahkotamedical.com. 3576 IN SOA pdns1.registrar-servers.com. hostmaster.registrar-servers.com. 1780446223 43200 3600 604800 3601
```

DNSSEC_VALIDATION

```
; unsigned answer
mahkotamedical.com. 3577 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

4027B8982A730000:error:0A000410:SSL routines:ssl3_read_bytes:ssl3 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	2600:9000:2721:1c00:6:c13e:1e80:93a1
IP Version	6

403759D472700000:error:0A000410:SSL routines:ssl3_read_bytes:ssl3 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	1.15 ms
TTFB	7.35 ms
Total Time	7.4 ms

Response Headers:

```
[
  "HTTP/1.1 409 Conflict",
  "Date: Fri, 03 Jul 2026 19:39:44 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: a1585ba48adbc0c2-KUL"
]
```

IPv6 HTTP (port 80)

HTTP Status	403
Connected IP	2600:9000:2721:1c00:6:c13e:1e80:93a1
Connect Time	8.18 ms
TTFB	16.39 ms
Total Time	16.45 ms

Response Headers:

```
[
  "HTTP/1.1 403 Forbidden",
  "Server: CloudFront",
  "Date: Fri, 03 Jul 2026 19:39:44 GMT",
  "Content-Type: text/html",
  "Content-Length: 915",
  "Connection: keep-alive",
  "X-Cache: Error from cloudfront",
  "Via: 1.1 df81bacde2a10797afb0c8500cb1ab52.cloudfront.net (CloudFront)",
  "X-Amz-Cf-Pop: SIN2-P6",
  "X-Amz-Cf-Id: _RzyHG9GPLx57iyXK2Pe1ZvS-Ialkwq0sJ2pg-u3z0_tsmWZTcrG6Q=="
]
```

IPv4 HTTPS (port 443)

HTTP Status	0
Connected IP	199.60.103.105
Connect Time	2.3 ms
TTFB	0 ms
Total Time	16.17 ms
Error	OpenSSL/3.0.13: error:0A000410:SSL routines::ssl3 alert handshake failure

IPv6 HTTPS (port 443)

HTTP Status	0
Connected IP	2600:9000:2721:1c00:6:c13e:1e80:93a1
Connect Time	7.31 ms
TTFB	0 ms
Total Time	16.71 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 0.001292 0.006338
TCP Connect IPv6 → port 80	403 0.007821 0.016848
TCP Connect IPv4 → port 443	000 0.001066 0.000000
TCP Connect IPv6 → port 443	000 0.007520 0.000000

Test Node Network Evidence

Node Profile	dual stack
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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