

IPv6 Readiness Report

twitter.com — twitter.com



Scan to verify

Category: Social Media • Generated: 04 Jul 2026, 22:39 MYT • Last Checked: 04 Jul 2026, 03:23 MYT • Verification ID: 93749935-d20d-4829-ba44-1b4501a07e53

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

Audit trail: <https://ipv6.my6.my/audit/93749935-d20d-4829-ba44-1b4501a07e53>

<p>X</p> <p>Non-Compliant</p> <p>MGv6C-1.0</p>	<p>32%</p> <p>No IPv6 Support</p>	<p>IPv6-ONLY READINESS</p> <p>Website: X Not Ready</p> <p>DNS: X Not Ready</p> <p>Email: X Not Ready</p>
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<p>IPv4 ADDRESSES</p> <p>162.159.140.229</p>

Network Information (WHOIS / RDAP)

IPv4 Network	
Organization	Cloudflare, Inc.
Country	US
ASN	AS13335
ASN Name	CLOUDFLARENET - Cloudflare, Inc., US
Network (CIDR)	162.158.0.0/15

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%)				0 / 5
#	CHECK	RESULT	DETAIL	
1	NS Has AAAA Record	FAIL	No nameserver has an AAAA record.	
2	NS Reachable via IPv6	FAIL	No nameserver is reachable over IPv6.	
3	NS Answers Queries via IPv6	FAIL	Nameserver does not answer queries 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	162.159.140.229
2	HTTP over IPv4	PASS	HTTP (port 80) responds over IPv4 — 389ms TTFB.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 192ms TTFB.

Audit Trail & Evidence Record

Verification ID	93749935-d20d-4829-ba44-1b4501a07e53
Domain	twitter.com
Check Mode	Scheduled
Status	Completed
Started	04 Jul 2026, 03:23:08 MYT
Finished	04 Jul 2026, 03:23:51 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/93749935-d20d-4829-ba44-1b4501a07e53

Integrity Verification

✓ INTEGRITY VERIFIED

Algorithm	hmac-sha256-v1
Root Hash	ef0fa6434f343883dde88df2b8272ebd5ee9bd36d6eca37708205ed70f6a175a
http_headers	9a26ac061aeea3fcb36735d679d07c04d5b133dc28b0ac3c22cc57ea1256f3e8
dns_responses	1733cd9120cba518b542f00f81237dbeefbcbec24304f08fcea3e6a4b0d00298
tls_handshake	70f403113de780646f7bc30d98eea6eb8cb4af2d50d2141c9589ec1b67574e4e
connectivity_log	3399f4ef3c138df6cfe340482b12dd9ac05c816f2b899cf118044b112fcc600
dns_resolution_times	59690549ecf54bf24a91c4d17bd637a31703475526c9f6c6f58de7e723a8c016

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	26.58	27.71	29.65	30.9	+3.1
Google	IPv4	20.55	21.08	26.79	27.63	+6.2
Google	IPv6	14.75	35.88	14.71	38.39	-0
Cloudflare	IPv4	31.21	32.83	32.62	40.22	+1.4
Cloudflare	IPv6	36.16	36.79	34.34	38.21	-1.8

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 54683
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
twitter.com. 300 IN A 172.66.0.227
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 37065
;; 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. 1783106591 1800 900 604800 900
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 38954
;; flags: qr rd ra; QUERY: 1, ANSWER: 5, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
twitter.com. 300 IN MX 5 alt1.aspmx.l.google.com.
twitter.com. 300 IN MX 5 alt2.aspmx.l.google.com.
twitter.com. 300 IN MX 1 aspmx.l.google.com.
twitter.com. 300 IN MX 10 alt3.aspmx.l.google.com.
twitter.com. 300 IN MX 10 alt4.aspmx.l.google.com.
```

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 45218
;; flags: qr rd ra; QUERY: 1, ANSWER: 8, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
twitter.com. 13999 IN NS d.u06.twtrdns.net.
twitter.com. 13999 IN NS a.r06.twtrdns.net.
twitter.com. 13999 IN NS a.u06.twtrdns.net.
twitter.com. 13999 IN NS b.r06.twtrdns.net.
twitter.com. 13999 IN NS b.u06.twtrdns.net.
twitter.com. 13999 IN NS c.r06.twtrdns.net.
twitter.com. 13999 IN NS c.u06.twtrdns.net.
twitter.com. 13999 IN NS d.r06.twtrdns.net.
```

TXT

```
;; Truncated, retrying in TCP mode.
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 4088
;; flags: qr rd ra; QUERY: 1, ANSWER: 23, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
twitter.com. 293 IN TXT "v=spf1 ip4:199.16.156.0/22 ip4:199.59.148.0/22 ip4:8.25.194.0/23 ip4:8.25.196.0/23 ip4:204.92.114.203 ip4:204.92.114.204/31
include:_spf.google.com include:_thirdparty.twitter.com -all"
twitter.com. 293 IN TXT "wrike-verification=MjU4MTA5MjoyN2UzNDc1MjU3MDZiZTY4NjBiNzliNDQ2OTUwNWY3NmM5NDgyMTBlyzFkNTcwYTE2YWwZDdkNTY2ZmE4Yzlh"
twitter.com. 293 IN TXT "0a8c0fc6-bfa5-4ea7-b09b-87f2989022d6"
twitter.com. 293 IN TXT "MS=BEE202D20C326867290BDEFA2DDDF4594B5D6860"
twitter.com. 293 IN TXT "adobe-idp-site-verification=a2ff8fc40c434d1d6f02f68b0b1a683e400572ab8c1f2c180c71c3d985b9270a"
twitter.com. 293 IN TXT "apple-domain-verification=zd1iHoE09LILEQIq"
twitter.com. 293 IN TXT "atlassian-domain-verification=j6u0o1PTkobCXC84uEF/sWpIPtaZURBVYqKzmTvT8wugLcHT1vvrzza63iP1qSLN"
twitter.com. 293 IN TXT "bj6sbt5xqs9hw9jrfvz7hplrg0l680sb"
twitter.com. 293 IN TXT "canva-site-verification=lMnZ3wMh7c1uqZqa-cxZTg"
twitter.com. 293 IN TXT "google-site-verification=600d00pZYsH2x0Ft4hYmf5f5NpjCbWE_qk5Y04dErYM"
```

```
twitter.com. [0]293[0]IN[0]TXT[0]"google-site-verification=F2uUiLU5D6kQlpUVQzxUM3PHa0uPo5GBS84SCG8QwXI"
twitter.com. [0]293[0]IN[0]TXT[0]"google-site-verification=P9-NRZ0gaRKRGNDOX0jct5XETPr3P9D-XA8HnLbAy4"
twitter.com. [0]293[0]IN[0]TXT[0]"google-site-verification=TNhAkfLUeIbzzzSgPNx55aEkKmf3aUcpPmCK1_kmIvU"
twitter.com. [0]293[0]IN[0]TXT[0]"google-site-verification=h6dJIv0HXjLokGAotLAWezvoi9SxqP4vjpx98vrCvvQ"
twitter.com. [0]293[0]IN[0]TXT[0]"google-site-verification=q1ghWjGLX9Ba-Gy_B4n_pAgC_mQYzWmQpOD8CMwL_Hw"
twitter.com. [0]293[0]IN[0]TXT[0]"linear-domain-verification=t5iq7e7nbw5w"
twitter.com. [0]293[0]IN[0]TXT[0]"loom-site-verification=638c6bc173b9458997f64d305bf42499"
twitter.com. [0]293[0]IN[0]TXT[0]"micro-verification=6e1ca9ad6d0c2cd2e4186141265f23ed618cfe37"
twitter.com. [0]293[0]IN[0]TXT[0]"mixpanel-domain-verify=164dda91-31f4-41e8-a816-0f59b38fea30"
twitter.com. [0]293[0]IN[0]TXT[0]"slack-domain-verification=9o08P4Glf4252QJD0g4rHG6KLSkBuI5ZVmwR08d"
twitter.com. [0]293[0]IN[0]TXT[0]"stripe-verification=46F7B88485621DC18923B43D12E90E6CDBCE232F2FEBFCF084E6EFA91F6BA707D"
twitter.com. [0]293[0]IN[0]TXT[0]"traction-guest=6882b04e-4188-4ff9-8bb4-bff5a3d358e6"
twitter.com. [0]293[0]IN[0]TXT[0]"traction-guest=a4d0248d-fe01-4222-8fcc-33f68323e667"
```

AAAA

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 40495
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
twitter.com. [0]3559[0]IN[0]SOA[0]a.u06.twtrdns.net. noc.twitter.com. 2024011501 3600 600 604800 7200
```

RRSIG

```
a.u06.twtrdns.net. noc.twitter.com. 2024011501 3600 600 604800 7200
```

DNSKEY

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 28046
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
twitter.com. [0]3559[0]IN[0]SOA[0]a.u06.twtrdns.net. noc.twitter.com. 2024011501 3600 600 604800 7200
```

DNSSEC_VALIDATION

```
; unsigned answer
twitter.com. [0]7159[0]IN[0]SOA[0]a.u06.twtrdns.net. noc.twitter.com. 2024011501 3600 600 604800 7200
```



```
Server Temp Key: X25519, 253 bits
---
SSL handshake has read 2374 bytes and written 393 bytes
Verification: OK
---
New, TLSv1.3, Cipher is TLS_AES_256_GCM_SHA384
Server public key is 256 bit
Secure Renegotiation IS NOT supported
Compression: NONE
Expansion: NONE
No ALPN negotiated
Early data was not sent
Verify return code: 0 (ok)
---
DONE
```

HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	520
Connected IP	162.159.140.229
Connect Time	2.89 ms
TTFB	364.99 ms
Total Time	365.04 ms

Response Headers:

```
[
  "HTTP/1.1 520 <none>",
  "Date: Fri, 03 Jul 2026 19:23:50 GMT",
  "Content-Type: text/plain; charset=UTF-8",
  "Content-Length: 16",
  "Connection: keep-alive",
  "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",
  "Referrer-Policy: same-origin",
  "X-Frame-Options: SAMEORIGIN",
  "Server: cloudflare",
  "CF-RAY: a1584457aa84d964-KUL"
]
```

IPv4 HTTPS (port 443)

HTTP Status	403
Connected IP	162.159.140.229
Connect Time	1.38 ms
TTFB	211.94 ms
Total Time	211.99 ms

Response Headers:

```
[
  "HTTP/2 403",
  "date: Fri, 03 Jul 2026 19:23:50 GMT",
  "perf: 7402827104",
  "server: cloudflare envoy",
  "x-powered-by: Express",
  "cache-control: no-cache, no-store, max-age=0",
  "x-transaction-id: 17d741830e68fb94",
  "x-response-time: 7",
  "origin-cf-ray: a1584459f9e0a319-KUL",
  "strict-transport-security: max-age=631138519; includeSubdomains",
  "x-served-by: t4_p",
  "vary: Accept-Encoding",
  "cf-cache-status: DYNAMIC",
  "set-cookie: guest_id_marketing=v1%3A178310663082904356; Max-Age=63072000; Expires=Sun, 02 Jul 2028 19:23:50 GMT; Path=/; Domain=.twitter.com; Secure; SameSite=None",
  "set-cookie: guest_id_ads=v1%3A178310663082904356; Max-Age=63072000; Expires=Sun, 02 Jul 2028 19:23:50 GMT; Path=/; Domain=.twitter.com; Secure; SameSite=None",
  "set-cookie: personalization_id=v1_kGaAjd8RZ8bEYcJ5u4y7A==; Max-Age=63072000; Expires=Sun, 02 Jul 2028 19:23:50 GMT; Path=/; Domain=.twitter.com; Secure; SameSite=None",
  "set-cookie: guest_id=v1%3A178310663082904356; Max-Age=63072000; Expires=Sun, 02 Jul 2028 19:23:50 GMT; Path=/; Domain=.twitter.com; Secure; SameSite=None",
  "set-cookie: __cf_bm=xqb.FlAp5L0wMgjpX6WKGgnyLMkRRaw5R4njfioI84A-1783106630.7198434-1.0.1.1-orlhotiN2esP5D2MRCV_5dkJUnqCv7084RQAuxUJgBer.488Y65oK6Evs1pqCLR1t7V.MaIs00JV8z.BekYaUsThgeZBhScCE6J4S4syXP_wsmDJJgb3W84vhiLiAVLZ; HttpOnly; Secure; Path=/; Domain=twitter.com; Expires=Fri, 03 Jul 2026 19:53:50 GMT",
  "cf-ray: a1584459f9e0a319-KUL"
]
```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	520 0.001665 0.363122
TCP Connect IPv4 → port 443	301 0.003398 0.244522

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
```