

IPv6 Readiness Report

x.com — x.com



Scan to verify

Category: Social Media • Generated: 13 Jun 2026, 19:08 MYT • Last Checked: 13 Jun 2026, 01:04 MYT • Verification ID: 30753c97-1b5c-4ea8-9afc-02d7e1f5287c

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

Audit trail: <https://ipv6.my6.my/audit/30753c97-1b5c-4ea8-9afc-02d7e1f5287c>

<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 — 204ms TTFB.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 207ms TTFB.

Audit Trail & Evidence Record

Verification ID	30753c97-1b5c-4ea8-9afc-02d7e1f5287c
Domain	x.com
Check Mode	Scheduled
Status	Completed
Started	13 Jun 2026, 01:04:09 MYT
Finished	13 Jun 2026, 01:04:36 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/30753c97-1b5c-4ea8-9afc-02d7e1f5287c

Integrity Verification

✓ INTEGRITY VERIFIED	
Algorithm	hmac-sha256-v1
Root Hash	c97866116fa84f756e64d622d22872a5b6eac76ad80bcce465ee2963d0ff85b0
http_headers	a687c1191e3f5ca7dac727f650b1929d8ca36af61480bb273a75f7a8ede2a755
dns_responses	140fb71501a7b101467ccfb04e9407e5d64244fe28d42771bdcee2cfa34b8491
tls_handshake	4d85c7cd4b5ed9c9a7bfd5c2fe41c23b00201f20683d394e748ac1ad29fdc23a
connectivity_log	2fc1a554364a1257164a0072e27ade41a77d9506a54ff28c95c8f1f2319c880b
dns_resolution_times	aa4caecfeef17b311c26dc98b2c54328882b7ec9dbd7d67f27555fdf8ffdac6

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	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	19.19	19.95	28.12	32.71	+8.9
Google	IPv4	27.08	29.75	28.75	31.21	+1.7
Google	IPv6	9.91	20.92	20.06	21.99	+10.2
Cloudflare	IPv4	8.91	8.93	7.6	21.36	-1.3
Cloudflare	IPv6	14.27	15.97	14.77	16.87	+0.5

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 21198
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

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

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 23018
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
com. 897 IN SOA a.gtld-servers.net. nstld.verisign-grs.com. 1781283853 1800 900 604800 900
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 30277
;; flags: qr rd ra; QUERY: 1, ANSWER: 5, AUTHORITY: 0, ADDITIONAL: 1

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

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 1333
;; flags: qr rd ra; QUERY: 1, ANSWER: 8, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
x.com. 13999 IN NS d.r10.twtrdns.net.
x.com. 13999 IN NS d.u10.twtrdns.net.
x.com. 13999 IN NS a.r10.twtrdns.net.
x.com. 13999 IN NS a.u10.twtrdns.net.
x.com. 13999 IN NS b.r10.twtrdns.net.
x.com. 13999 IN NS b.u10.twtrdns.net.
x.com. 13999 IN NS c.r10.twtrdns.net.
x.com. 13999 IN NS c.u10.twtrdns.net.
```

TXT

```
;; Truncated, retrying in TCP mode.
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 34917
;; flags: qr rd ra; QUERY: 1, ANSWER: 20, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
x.com. 300 IN TXT "google-site-verification=isX7U92-gLht5aKvjaPvQ9tWaxoqREy8agpA0cqLfIE"
x.com. 300 IN TXT "google-site-verification=LEZNYwieV7-UbdJafAm0u_rvNfb7G6qIYWAP4JmG5qs"
x.com. 300 IN TXT "google-site-verification=rbRGYL0ADDbtUYJTGd8GEDm0PwPZExviDSaSH4JLR8Q"
x.com. 300 IN TXT "google-site-verification=reUF-TgZq93ZGtzImw42sfYgLI2hY0qiGRmfc4jeKbs"
x.com. 300 IN TXT "atlassian-sending-domain-verification=bd424180-8645-4de5-bd6a-285479c7577a"
x.com. 300 IN TXT "stripe-verification=46F7B88485621DC18923B43D12E90E6CDBCE232F2FEBFC084E6EFA91F6BA707D"
x.com. 300 IN TXT "adobe-idp-site-verification=ab4d9ce3473a73e81f46238da34ea4967fd5ac80e5c43fbfa8dff46d06a5321c"
x.com. 300 IN TXT "atlassian-domain-verification=j6u0o1PTkobCXC84uEF/sWpIPtaZURBVYqKzmTvT8wugLcHTlvvrzA63iP1qSLN"
x.com. 300 IN TXT "figma-domain-verification=ee8420edd01965ba297f3438c907cfc6fbbaalee90a07b28f28bcfca8e6017bb-1729630998"
x.com. 300 IN TXT "v=spf1 ip4:199.16.156.0/22 ip4:199.59.148.0/22 include:_spf.google.com include:_spf.salesforce.com include:_oerp.x.com include:phx1.rp.oracleemaildelivery.com include:iad1.rp.oracleemaildelivery.com -all"
```

```
x.com. 000300 IN TXT "3089463"
x.com. 000300 IN TXT "_w548xs1kfxtlqk3jyx19bzwk34c473i"
x.com. 000300 IN TXT "kkd13qb3tcrmdhfsm803p67r0my0svs8"
x.com. 000300 IN TXT "apple-domain-verification=sEij6tJ0W11fVNRg"
x.com. 000300 IN TXT "adobe-sign-verification=c693a744ee2d282a36a43e6e724c5ea"
x.com. 000300 IN TXT "shopify-verification-code=cUZazKrQcWgcshrcGvgfFR1lieuhRF"
x.com. 000300 IN TXT "slack-domain-verification=Csk4bjCPFnJaDLLaKFUwCTFuUpCVvnYLA2Tba0i"
x.com. 000300 IN TXT "google-site-verification=8y0moVhQedzlt36RPeQP41ytrEFk9aHende_xm0626g"
x.com. 000300 IN TXT "google-site-verification=BT51mebIp7CbI7Qy_5Qg6LJLSBrLuCG0_oznVAgfgKA"
x.com. 000300 IN TXT "google-site-verification=F6u9mGL--d2lbljvH3b1UUgXtevQPdcamKr9c8914A"
```

AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 55824
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
x.com. 000300 IN SOA a.u10.twtrdns.net. noc.twitter.com. 2023262760 3600 600 604800 300
```

RRSIG

```
a.u10.twtrdns.net. noc.twitter.com. 2023121201 3600 600 604800 300
```

DNSKEY

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 35075
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
x.com. 000300 IN SOA a.u10.twtrdns.net. noc.twitter.com. 2023262760 3600 600 604800 300
```

DNSSEC_VALIDATION

```
; unsigned answer
x.com. 000277 IN SOA a.u10.twtrdns.net. noc.twitter.com. 2023121201 3600 600 604800 300
```



```
Peer signature type: ECDSA
Server Temp Key: X25519, 253 bits
---
SSL handshake has read 2396 bytes and written 387 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	403
Connected IP	162.159.140.229
Connect Time	2.99 ms
TTFB	210.06 ms
Total Time	210.16 ms

Response Headers:

```
{
  "0": "HTTP/1.1 301 Moved Permanently",
  "1": "Date: Fri, 12 Jun 2026 17:04:34 GMT",
  "2": "Content-Type: text/html; charset=UTF-8",
  "3": "Connection: keep-alive",
  "4": "Location: https://x.com/",
  "5": "set-cookie: __cf_bm=WRq5dJkOPljXums92oVMDcG3c3hg36cNVxaW7nUbYww-1781283874.436531-1.0.1.1-7yzN_q1L6_U.e4cUtTv1gGn54TA0iBYLs6E1uSz8nMQUI5idcMsQQ8PvZPo1g5Vbz.agCqDTiaeRDAYUmqNo.sRQHpvNjTfKuKeA7HW601Ejg3Dp1GsZxCDHb6pf9ixV; HttpOnly; Path=/; Domain=x.com; Expires=Fri, 12 Jun 2026 17:34:34 GMT",
  "6": "Server: cloudflare",
  "7": "CF-RAY: a0aa6f773c1455a9-KUL",
  "9": "HTTP/2 403",
  "10": "date: Fri, 12 Jun 2026 17:04:34 GMT",
  "11": "perf: 7402827104",
  "12": "server: cloudflare envoy",
  "13": "x-powered-by: Express",
  "14": "cache-control: no-cache, no-store, max-age=0",
  "15": "x-transaction-id: 25da169a5178409a",
  "16": "x-response-time: 11",
  "17": "origin-cf-ray: a0aa6f774fc06312-KUL",
  "18": "strict-transport-security: max-age=631138519; includeSubdomains",
  "19": "x-served-by: t4_p",
  "20": "vary: Accept-Encoding",
  "21": "cf-cache-status: DYNAMIC",
  "22": "set-cookie: guest_id_marketing=v1%3A178128387455126871; Max-Age=63072000; Expires=Sun, 11 Jun 2028 17:04:34 GMT; Path=/; Domain=.x.com; Secure; SameSite=None",
  "23": "set-cookie: guest_id_ads=v1%3A178128387455126871; Max-Age=63072000; Expires=Sun, 11 Jun 2028 17:04:34 GMT; Path=/; Domain=.x.com; Secure; SameSite=None",
  "24": "set-cookie: personalization_id=v1_0KfEeK8gbtN+sWnTiEcX4w==; Max-Age=63072000; Expires=Sun, 11 Jun 2028 17:04:34 GMT; Path=/; Domain=.x.com; Secure; SameSite=None",
  "25": "set-cookie: guest_id=v1%3A178128387455126871; Max-Age=63072000; Expires=Sun, 11 Jun 2028 17:04:34 GMT; Path=/; Domain=.x.com; Secure; SameSite=None",
  "26": "set-cookie: __cf_bm=0sXS.64pzIJFKuXVxaAzjKGAaibvrXdu7W7CDTZHXg-1781283874.4491396-1.0.1.1-9DPVf2Lz10c2wdLekYSH8Ypmdbx496MteEK8f4IYWJkblj5sH7yW91_3UDQHJHKJburH247H_pgw7Df_Kx4s5SeZyR6WN8G.00iZAI_4lAhHu93G_b4LbtFgauE6LvS; HttpOnly; Secure; Path=/; Domain=x.com; Expires=Fri, 12 Jun 2026 17:34:34 GMT",
  "27": "cf-ray: a0aa6f774fc06312-KUL"
}
```

IPv4 HTTPS (port 443)

HTTP Status	403
Connected IP	162.159.140.229
Connect Time	0.86 ms
TTFB	188.5 ms
Total Time	188.55 ms

Response Headers:

```
[
  "HTTP/2 403",
  "date: Fri, 12 Jun 2026 17:04:34 GMT",
  "perf: 7402827104",
  "server: cloudflare envoy",
  "x-powered-by: Express",
  "cache-control: no-cache, no-store, max-age=0",
  "x-transaction-id: 5f2b0b10d2fe6ee2",
  "x-response-time: 8",
  "origin-cf-ray: a0aa6f789e85e454-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%3A178128387474768566; Max-Age=63072000; Expires=Sun, 11 Jun 2028 17:04:34 GMT; Path=/; Domain=.x.com; Secure; SameSite=None",
  "set-cookie: guest_id_ads=v1%3A178128387474768566; Max-Age=63072000; Expires=Sun, 11 Jun 2028 17:04:34 GMT; Path=/; Domain=.x.com; Secure; SameSite=None",
]
```

```
"set-cookie: personalization_id=\"v1_Ndf/ZtJyEpeNMuoTHIA0IQ==\"; Max-Age=63072000; Expires=Sun, 11 Jun 2028 17:04:34 GMT; Path=/; Domain=.x.com; Secure; SameSite=None",
"set-cookie: guest_id=v1%3A178128387474768566; Max-Age=63072000; Expires=Sun, 11 Jun 2028 17:04:34 GMT; Path=/; Domain=.x.com; Secure; SameSite=None",
"set-cookie: __cf_bm=80FZVJCxV0s9VhPiVq9zxeyDDIw4Hq594QvQAxfxA-1781283874.650992-1.0.1.1-W_jQzEdBVWIjugv_LSaLoK31Gb79tPJtanvbZVCK1UFnWoM4XH_UvnsZ2mFK_7h5ALW4D529e_5DSDjuTHKX0_ByPJ.6af6pvMTwP5FNWIdpm9LIzmjKv5tCD5Dd4sF0; HttpOnly; Secure; Path=/; Domain=x.com; Expires=Fri, 12 Jun 2026 17:34:34 GMT",
"cf-ray: a0aa6f789e85e454-KUL"
]
```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	301 0.001409 0.007201
TCP Connect IPv4 → port 443	200 0.001130 0.219634

Test Node Network Evidence

Node Profile	dual stack
--------------	------------

Egress Connectivity

IPv4 Egress	unreachable
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
76.13.221.0/24 dev eth0 proto kernel scope link src 76.13.221.142
```