


IPv6 Readiness Report

reddit.com — reddit.com

Category: Social Media • Generated: 20 Apr 2026, 21:10 MYT • Last Checked: 07 Mar 2026, 01:16 MYT • Verification ID: 371803cd-89d3-4db7-9117-c9195f81b383
Report generated from National IPv6 Readiness Monitor — <https://ipv6.my6.my>
Audit trail: <https://ipv6.my6.my/audit/371803cd-89d3-4db7-9117-c9195f81b383>



Partially Compliant
MGv6C-1.0

73%
Partial Support

IPv6-ONLY READINESS

Website: ✗ Not Ready

DNS: ✓ Ready

Email: ✗ Not Ready

IPv6 ADDRESSES	IPv4 ADDRESSES
2a04:4e42:200::396	151.101.65.140
2a04:4e42:600::396	151.101.193.140
2a04:4e42::396	151.101.1.140
2a04:4e42:400::396	151.101.129.140

Network Information (WHOIS / RDAP)

	IPv6 Network	IPv4 Network
Organization	FASTLY	Fastly, Inc.
Country	US	US
ASN	AS54113	AS54113
ASN Name	FASTLY - Fastly, Inc., US	FASTLY - Fastly, Inc., US
Network (CIDR)	2a04:4e40::/29	151.101.0.0/16

Web Services (35%) 6 / 8			
#	CHECK	RESULT	DETAIL
1	AAAA Record	PASS	2a04:4e42:200::396, 2a04:4e42:600::396, 2a04:4e42::396, 2a04:4e42:400::396
2	Globally Routable IPv6	PASS	All addresses are globally routable.
3	HTTP over IPv6	PASS	HTTP (port 80) responds over IPv6 — 321ms TTFB.
4	HTTPS over IPv6	PASS	HTTPS (port 443) responds over IPv6 — 484ms TTFB.
5	IPv6-Only Reachability	FAIL	Site is not reachable when limited to 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%) 3 / 5			
#	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%) 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	151.101.65.140, 151.101.193.140, 151.101.1.140, 151.101.129.140
2	HTTP over IPv4	PASS	HTTP (port 80) responds over IPv4 — 76ms TTFB.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 8ms TTFB.

Audit Trail & Evidence Record

Verification ID	371803cd-89d3-4db7-9117-c9195f81b383
Domain	reddit.com
Check Mode	Manual
Status	Completed
Started	07 Mar 2026, 01:15:31 MYT
Finished	07 Mar 2026, 01:16:53 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/371803cd-89d3-4db7-9117-c9195f81b383

Integrity Verification

✓ INTEGRITY VERIFIED	
Algorithm	hmac-sha256-v1
Root Hash	c6b2b6fc45c1069c18ac58029d966579c3171df62eff2065d296c407b8b71e02
http_headers	36ec46c2d0b6e0796e91a414601d90b874b1de210ba102de69bef0473aa5d66d
dns_responses	7868772316b9b223fb856f97147d379b69bc0163bc434dd420fa9c1eb57dff8e
tls_handshake	8d4b54c4a12c71e6df79ecd1b51762c1d2c754ac661755e8684bef02513befdd
connectivity_log	b839ad90029c2dbed8958ebcb4c6e850cc1aa6efac82c5a22afb1b76eb6a5ac
dns_resolution_times	50c1b78122c6382074d2670dc15b58883fdbd31ea06a19c4eee2cbea4cd0bda1

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	18.37	22.63	19.45	20.66	+1.1
Google	IPv4	18.89	18.98	16.17	17.21	-2.7
Google	IPv6	32.12	32.64	19.45	28.95	-12.7
Cloudflare	IPv4	19.09	21.02	9.2	10.75	-9.9
Cloudflare	IPv6	16.88	19.06	15.69	20.11	-1.2

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 60299
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
reddit.com. 00560IN[A]151.101.65.140
reddit.com. 00560IN[A]151.101.1.140
reddit.com. 00560IN[A]151.101.129.140
reddit.com. 00560IN[A]151.101.193.140
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 34501
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
com. 006180IN[SOA]a.gtld-servers.net. nstld.verisign-grs.com. 1772788306 1800 900 604800 900
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 17423
;; flags: qr rd ra; QUERY: 1, ANSWER: 5, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
reddit.com. 00300IN[MX]10 aspmx3.googlemail.com.
reddit.com. 00300IN[MX]5 alt1.aspmx.l.google.com.
reddit.com. 00300IN[MX]10 aspmx2.googlemail.com.
reddit.com. 00300IN[MX]5 alt2.aspmx.l.google.com.
reddit.com. 00300IN[MX]1 aspmx.l.google.com.
```

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 63916
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
reddit.com. 0018908IN[NS]ns-378.awsdns-47.com.
reddit.com. 0018908IN[NS]ns-1887.awsdns-43.co.uk.
reddit.com. 0018908IN[NS]ns-1029.awsdns-00.org.
reddit.com. 0018908IN[NS]ns-557.awsdns-05.net.
```

TXT

```
;; Truncated, retrying in TCP mode.
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 58489
;; flags: qr rd ra; QUERY: 1, ANSWER: 22, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
reddit.com. 003600IN[TXT]"twilio-domain-verification=5e37855d7c9445e967b31c5e0371ebb5"
reddit.com. 003600IN[TXT]"a5897185-49e1-4181-9065-51bd24737466"
reddit.com. 003600IN[TXT]"jamf-site-verification=EGK11tNR4hezQg0jZaIdpA"
reddit.com. 003600IN[TXT]"614ac4be-8664-4cea-8e29-f84d08ad875c"
reddit.com. 003600IN[TXT]"google-site-verification=oh_YJE560y0e6FHP1RT7NIjyTLBhACNMVD2EgSss0sc"
reddit.com. 003600IN[TXT]"docusign=6ba0c5a9-5a5e-41f8-a7c8-8b4c6e35c10c"
reddit.com. 003600IN[TXT]"stripe-verification=9bd70dd1884421b47f596fea30e14838c9825cdba5b209990968fd6f8010c7"
reddit.com. 003600IN[TXT]"MS=ms71041902"
reddit.com. 003600IN[TXT]"apple-domain-verification=qC3rS5Krh10DoMI7"
reddit.com. 003600IN[TXT]"protonmail-verification=24cb91442caf54c8b820f4a0347292f143531210"
reddit.com. 003600IN[TXT]"google-site-verification=Q04VY1PRzsG-MxiQn3j0kxd_ZaFjcTk6MWBfKru0_5I"
reddit.com. 003600IN[TXT]"jetbrains-domain-verification=bjn7o9fxbduga0mhaepeewtx"
```

```
reddit.com.[]3600[]IN[]TXT[]"box-domain-verification=95c33f4ee4b11d8827190dbc5371ca7df25b961019116e5565ce4aa36de9be3a"
reddit.com.[]3600[]IN[]TXT[]"cursor-domain-verification-f9fw38=WVB8yAMGTZX07Je9DLuj1DIzB"
reddit.com.[]3600[]IN[]TXT[]"onetrust-domain-verification=6b98ba3dd087405399bbf45b6cbcd37"
reddit.com.[]3600[]IN[]TXT[]"atlassian-domain-verification=aGwDxGvt+oY3p7qTWt5v2uJDVJkoJAeHxwGqKmqQLMEsUXUJJe/Pm/k+GGNPpn6M"
reddit.com.[]3600[]IN[]TXT[]"stripe-verification=80aa7e2c9775fee2653f61b04b46da6fd227b56fec9499e5f63cd0dcf563984"
reddit.com.[]3600[]IN[]TXT[]"atlassian-domain-verification=vBaV6PXyyu40APLiQFbxFCboSTjoR/qxKJ20lpI46ZEpZL/FVTIFMLgoM5Hy9eY"
reddit.com.[]3600[]IN[]TXT[]"google-site-verification=zZHozyBAJmSLOMG40jQFoHiVqkxtdgyvBzsE7wUGFiw"
reddit.com.[]3600[]IN[]TXT[]"google-site-verification=0uv13-wxLHK8FFKaUgpyrVmL1YdNYW6v3PupLdw3JI"
reddit.com.[]3600[]IN[]TXT[]"postman-domain-
verification=ad4c89daaf83d06f70cb6e8737cb323b039aeaae9e0e288c75081b0a715812a2d30e7c31402da867c70287ad8216da42074ffe7b4fcfcfbf86f9316301329308f"
reddit.com.[]3600[]IN[]TXT[]"v=spf1 include:amazonses.com include:_spf.google.com include:19922862.spf01.hubspotemail.net include:reddit.deliver.highspot.com
include:_spf.salesforce.com include:mail.zendesk.com include:sent-via.netsuite.com ip4:52.50.24.208 ip4:35.174.145.124 -all"
```

AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 48827
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
reddit.com.[]265[]IN[]AAAA[]2a04:4e42:600::396
reddit.com.[]265[]IN[]AAAA[]2a04:4e42:200::396
reddit.com.[]265[]IN[]AAAA[]2a04:4e42::396
reddit.com.[]265[]IN[]AAAA[]2a04:4e42:400::396
```

RRSIG

```
ns-557.awsdns-05.net. awsdns-hostmaster.amazon.com. 1 7200 900 1209600 300
```

DNSKEY

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 38233
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
reddit.com.[]900[]IN[]SOA[]ns-557.awsdns-05.net. awsdns-hostmaster.amazon.com. 1 7200 900 1209600 300
```

DNSSEC_VALIDATION

```
; unsigned answer
reddit.com.[]826[]IN[]SOA[]ns-557.awsdns-05.net. awsdns-hostmaster.amazon.com. 1 7200 900 1209600 300
```


HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	403
Connected IP	151.101.65.140
Connect Time	36.66 ms
TTFB	74.2 ms
Total Time	74.24 ms

Response Headers:

```
[
  "HTTP/1.1 403 Blocked",
  "Connection: close",
  "Content-Length: 1486",
  "Retry-After: 0",
  "Content-Type: text/html",
  "Cache-Control: private, no-store",
  "Accept-Ranges: bytes",
  "Date: Fri, 06 Mar 2026 09:16:52 GMT",
  "Via: 1.1 varnish",
  "X-Content-Type-Options: nosniff",
  "X-Frame-Options: SAMEORIGIN",
  "X-XSS-Protection: 1; mode=block",
  "Server: snooperv",
  "Report-To: {\\"group\\": \\"w3-reporting-nel\\", \\"max_age\\": 14400, \\"include_subdomains\\": true, \\"endpoints\\": [{ \\"url\\": \\"https://w3-reporting-nel.reddit.com/reports\\"}]}, {\\"group\\": \\"w3-reporting\\", \\"max_age\\": 14400, \\"include_subdomains\\": true, \\"endpoints\\": [{ \\"url\\": \\"https://w3-reporting.reddit.com/reports\\"}]}, {\\"group\\": \\"w3-reporting-csp\\", \\"max_age\\": 14400, \\"include_subdomains\\": true, \\"endpoints\\": [{ \\"url\\": \\"https://w3-reporting-csp.reddit.com/reports\\"}]}",
  "NEL: {\\"report_to\\": \\"w3-reporting-nel\\", \\"max_age\\": 14400, \\"include_subdomains\\": false, \\"success_fraction\\": 1.0, \\"failure_fraction\\": 1.0}"
]
```

IPv6 HTTP (port 80)

HTTP Status	403
Connected IP	2a04:4e42:200::396
Connect Time	159.21 ms
TTFB	319.67 ms
Total Time	319.71 ms

Response Headers:

```
[
  "HTTP/1.1 403 Blocked",
  "Connection: close",
  "Content-Length: 1486",
  "Retry-After: 0",
  "Content-Type: text/html",
  "Cache-Control: private, no-store",
  "Accept-Ranges: bytes",
  "Date: Fri, 06 Mar 2026 09:16:51 GMT",
  "Via: 1.1 varnish",
  "X-Content-Type-Options: nosniff",
  "X-Frame-Options: SAMEORIGIN",
  "X-XSS-Protection: 1; mode=block",
  "Server: snooperv",
  "Report-To: {\\"group\\": \\"w3-reporting-nel\\", \\"max_age\\": 14400, \\"include_subdomains\\": true, \\"endpoints\\": [{ \\"url\\": \\"https://w3-reporting-nel.reddit.com/reports\\"}]}, {\\"group\\": \\"w3-reporting\\", \\"max_age\\": 14400, \\"include_subdomains\\": true, \\"endpoints\\": [{ \\"url\\": \\"https://w3-reporting.reddit.com/reports\\"}]}, {\\"group\\": \\"w3-reporting-csp\\", \\"max_age\\": 14400, \\"include_subdomains\\": true, \\"endpoints\\": [{ \\"url\\": \\"https://w3-reporting-csp.reddit.com/reports\\"}]}",
  "NEL: {\\"report_to\\": \\"w3-reporting-nel\\", \\"max_age\\": 14400, \\"include_subdomains\\": false, \\"success_fraction\\": 1.0, \\"failure_fraction\\": 1.0}"
]
```

IPv4 HTTPS (port 443)

HTTP Status	403
Connected IP	151.101.65.140
Connect Time	37.26 ms
TTFB	117.37 ms
Total Time	117.41 ms

Response Headers:

```
[
  "HTTP/2 403",
  "retry-after: 0",
  "content-type: text/html",
  "cache-control: private, no-store",
  "accept-ranges: bytes",
  "date: Fri, 06 Mar 2026 09:16:52 GMT",
  "via: 1.1 varnish",
  "strict-transport-security: max-age=31536000; includeSubdomains; preload",
  "x-content-type-options: nosniff",
  "x-frame-options: SAMEORIGIN",
  "x-xss-protection: 1; mode=block",
  "server: snooperv",
  "report-to: {\\"group\\": \\"w3-reporting-nel\\", \\"max_age\\": 14400, \\"include_subdomains\\": true, \\"endpoints\\": [{ \\"url\\": \\"https://w3-reporting-nel.reddit.com/reports\\"}]}, {\\"group\\": \\"w3-reporting\\", \\"max_age\\": 14400, \\"include_subdomains\\": true, \\"endpoints\\": [{ \\"url\\": \\"https://w3-reporting.reddit.com/reports\\"}]}, {\\"group\\": \\"w3-reporting-csp\\", \\"max_age\\": 14400, \\"include_subdomains\\": true, \\"endpoints\\": [{ \\"url\\": \\"https://w3-reporting-csp.reddit.com/reports\\"}]}",
  "nel: {\\"report_to\\": \\"w3-reporting-nel\\", \\"max_age\\": 14400, \\"include_subdomains\\": false, \\"success_fraction\\": 1.0, \\"failure_fraction\\": 1.0}",
  "content-length: 1486"
]
```

IPv6 HTTPS (port 443)

HTTP Status	403
Connected IP	2a04:4e42:200::396
Connect Time	160.57 ms
TTFB	486.22 ms
Total Time	486.26 ms

Response Headers:

```
[
  "HTTP/2 403",
  "retry-after: 0",
  "content-type: text/html",
  "cache-control: private, no-store",
  "accept-ranges: bytes",
  "date: Fri, 06 Mar 2026 09:16:52 GMT",
  "via: 1.1 varnish",
  "strict-transport-security: max-age=31536000; includeSubdomains; preload",
  "x-content-type-options: nosniff",
  "x-frame-options: SAMEORIGIN",
  "x-xss-protection: 1; mode=block",
  "server: snooperv",
  "report-to: {\\"group\\": \\"w3-reporting-nel\\", \\"max_age\\": 14400, \\"include_subdomains\\": true, \\"endpoints\\": [{ \\"url\\": \\"https://w3-reporting-nel.reddit.com/reports\\"}]}, {\\"group\\": \\"w3-reporting\\", \\"max_age\\": 14400, \\"include_subdomains\\": true, \\"endpoints\\": [{ \\"url\\": \\"https://w3-reporting.reddit.com/reports\\"}]}, {\\"group\\": \\"w3-reporting-csp\\", \\"max_age\\": 14400, \\"include_subdomains\\": true, \\"endpoints\\": [{ \\"url\\": \\"https://w3-reporting-csp.reddit.com/reports\\"}]}",
  "nel: {\\"report_to\\": \\"w3-reporting-nel\\", \\"max_age\\": 14400, \\"include_subdomains\\": false, \\"success_fraction\\": 1.0, \\"failure_fraction\\": 1.0}",
  "content-length: 1486"
]
```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	301 0.001234 0.003698
TCP Connect IPv6 → port 80	301 0.160460 0.322861
TCP Connect IPv4 → port 443	301 0.036601 0.115411
TCP Connect IPv6 → port 443	301 0.159968 0.485669

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