

IPv6 Readiness Report

mastodon.social — mastodon.social

Category: Social Media • Generated: 20 Apr 2026, 21:10 MYT • Last Checked: 07 Mar 2026, 01:16 MYT • Verification ID: d137f11a-7dd6-477e-9486-5e3ce3751bb2

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

Audit trail: <https://ipv6.my6.my/audit/d137f11a-7dd6-477e-9486-5e3ce3751bb2>



Partially Compliant

MGv6C-1.0

82%

Partial Support

IPv6-ONLY READINESS

Website: ✓ **Ready**

DNS: ✓ **Ready**

Email: ✗ **Not Ready**

IPv6 ADDRESSES

2a04:4e42:200::311
2a04:4e42:600::311
2a04:4e42:400::311
2a04:4e42::311

IPv4 ADDRESSES

151.101.129.55
151.101.193.55
151.101.65.55
151.101.1.55

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%)

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#	CHECK	RESULT	DETAIL
1	AAAA Record	PASS	2a04:4e42:200::311, 2a04:4e42:600::311, 2a04:4e42:400::311, 2a04:4e42::311
2	Globally Routable IPv6	PASS	All addresses are globally routable.
3	HTTP over IPv6	PASS	HTTP (port 80) responds over IPv6 — 1232ms TTFB.
4	HTTPS over IPv6	PASS	HTTPS (port 443) responds over IPv6 — 482ms TTFB.
5	IPv6-Only Reachability	PASS	Site is fully reachable via IPv6-only.
6	TLS Certificate Valid (IPv6)	PASS	Certificate valid — issued by C = US, O = Let's Encrypt, CN = R13, expires Apr 18 17:48:46 2026 GMT
7	Dual-Stack (IPv4 + IPv6)	PASS	Domain has both A and AAAA records.
8	HTTP/3 (QUIC)	PASS	Alt-Svc: h3 header 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.
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	151.101.129.55, 151.101.193.55, 151.101.65.55, 151.101.1.55
2	HTTP over IPv4	PASS	HTTP (port 80) responds over IPv4 — 506ms TTFB.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 485ms TTFB.

Audit Trail & Evidence Record

Verification ID	d137f11a-7dd6-477e-9486-5e3ce3751bb2
Domain	mastodon.social
Check Mode	Manual
Status	Completed
Started	07 Mar 2026, 01:15:57 MYT
Finished	07 Mar 2026, 01:16:36 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/d137f11a-7dd6-477e-9486-5e3ce3751bb2

Integrity Verification

✓ INTEGRITY VERIFIED	
Algorithm	hmac-sha256-v1
Root Hash	9416cfbf8f365c1ddb42cce3a36688d452bb139889eebb04720677e85bd4c0af
http_headers	51ca558503d5dac47f52c311c1fe56b7f13f1e11352bc19e297d3d608e21e045
dns_responses	03d1285ee4cf0e17b63c886cd39ac9dbab4c2ffe0816af4fe1cb3ceae6d66376
tls_handshake	d0486d74c634e38448c9bf73b43207c088b0c51d759f61b7f2d77befd02188b6
connectivity_log	99c37b717ff8235736c87d116d8ff79be484605c886c92af67f3c56493a5cb8
dns_resolution_times	4fbaf9738011519e48bf2d1a96899291f2b33c48d46c8fa2e84f89e899dacb3a

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	14.99	19.68	20.28	23.03	+5.3
Google	IPv4	23.54	25.67	24.69	32.62	+1.2
Google	IPv6	22.5	188.57	17.59	96.48	-4.9
Cloudflare	IPv4	22.09	27.57	13.99	18.42	-8.1
Cloudflare	IPv6	11.76	28.53	16	19.12	+4.2

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 18861
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
mastodon.social. 196 IN A 151.101.65.55
mastodon.social. 196 IN A 151.101.193.55
mastodon.social. 196 IN A 151.101.1.55
mastodon.social. 196 IN A 151.101.129.55
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 13599
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
social. 1800 IN SOA v0n0.nic.social. hostmaster.donuts.email. 1772788264 7200 900 1209600 3600
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 39894
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
mastodon.social. 3600 IN MX 1 smtp.google.com.
```

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 11100
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
mastodon.social. 3600 IN NS ns1.exoscale.io.
mastodon.social. 3600 IN NS ns1.exoscale.net.
mastodon.social. 3600 IN NS ns1.exoscale.com.
mastodon.social. 3600 IN NS ns1.exoscale.ch.
```

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 43733
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
mastodon.social. 3600 IN TXT "v=spf1 include:_spf.google.com include:helpscoutemail.com ~all"
mastodon.social. 3600 IN TXT "zoho-verification=zb49784848.zmverify.zoho.eu"
```

AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 7380
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
mastodon.social. 389 IN AAAA 2a04:4e42:200::311
mastodon.social. 389 IN AAAA 2a04:4e42:600::311
mastodon.social. 389 IN AAAA 2a04:4e42::311
mastodon.social. 389 IN AAAA 2a04:4e42:400::311
```

RRSIG

```
ns1.exoscale.ch. admin.dnsimple.com. 1579114449 86400 7200 604800 300
```

DNSKEY

```
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 63377
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
mastodon.social. 1800 IN SOA ns1.exoscale.ch. admin.dnsimple.com. 1579114449 86400 7200 604800 300
```

DNSSEC_VALIDATION

```
; unsigned answer
mastodon.social. 3600 IN SOA ns1.exoscale.ch. admin.dnsimple.com. 1579114449 86400 7200 604800 300
```



```

Axu4CaDmRNZpK/pQrXF17yXCkmEWgvS0Ezy6Z9pcbLIVEGckV/iVeq0A0o2pkg9
p4QRIy0tK2diRENLSF2KysFwbY6B26BFeFs3v1sYVRhFW9nLk0rQVporCS0KyZmf
wVD89qSTlnctLcZnIavjKsKuuInAliU0yYmDyepKR7LWbnwhdx3ewok=
-----END CERTIFICATE-----
---
Server certificate
subject=CN = mastodon.social
issuer=C = US, O = Let's Encrypt, CN = R13
---
No client certificate CA names sent
Peer signing digest: SHA256
Peer signature type: RSA-PSS
Server Temp Key: X25519, 253 bits
---
SSL handshake has read 3160 bytes and written 381 bytes
Verification: OK
---
New, TLSv1.3, Cipher is TLS_AES_128_GCM_SHA256
Server public key is 2048 bit
Secure Renegotiation IS NOT supported
Compression: NONE
Expansion: NONE
No ALPN negotiated
Early data was not sent
Verify return code: 0 (ok)
---
DONE
---
```

IPv6 Connection

IP Used	2a04:4e42:200::311
IP Version	6

```

depth=2 C = US, O = Internet Security Research Group, CN = ISRG Root X1
verify return:1
depth=1 C = US, O = Let's Encrypt, CN = R13
verify return:1
depth=0 CN = mastodon.social
verify return:1
CONNECTED(00000010)
---
Certificate chain
0 s:CN = mastodon.social
  i:C = US, O = Let's Encrypt, CN = R13
  a:PKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA256
  v:NotBefore: Jan 18 17:48:47 2026 GMT; NotAfter: Apr 18 17:48:46 2026 GMT
-----BEGIN CERTIFICATE-----
MIIFjJCBA6gAwIBAgISBs9Qb6YYUFzKKGhig535nrzWMA0GCSqGSIb3DQEBQwUA
MDMxCzAJBgNVBAYTALVTRMYwFAYDQ0KwEwIMZXRlc3RlbnNyeXB0M0wwCgYDVQ0D
EWN5MTEwMTE4MTc0ODQ3WmcNMjYwNDE4MTE0ODQ2WjAaMRgwFgYDQ0D
Ew9tYXN0b2Rvbi5zb2NpYywwgEiMA0GCSqGSIb3DQEBQ0UA4IBDwAwggEKAoIB
AQc2n1RZIKGPLu6u5j5AS8NeAUGPFHKJe08AfBobCnzI56Nnbywq0jnLBRBzbfje
sKVRdK0LVZx8CYuFAVft5Rr9Fjbp6Le3M3r7oX0EshCX2n3YXLbj+gr00d5A4Tn
f0sGvFZQgaL2p0+bUKtZ8mVvgjPcP03ARjHF1s+oNhWI/QZRdq0LJ9Iw8LUNcc
k7H416NcJTyu4dxsi11D0MmD/itA7WMy+MTq+Seekz05GjvAZxkx8SwpZSwth4W
loaFVxsAuhTsgKdSoiVu/6GB4FL7s7F0Eppqnnjtu+u8a0n/vCFciLh0dotLveGj
00EovMYo+YykdhgL6cz7YandAgMBAAGjggJLMIIICrZA0BgNVHQ8BAf8EBAMCBAAw
HQYDVR0LBBYwFAYIKwYBBQUHAWEGCCsGAQUFBwMCAwGA1UdEwEB/wQCMAAwHQYD
VR0BBBYEFKqTdXJB1zVFMJG5VqS9r5TVMecPMB8GA1UdIwYBAF0ernw8sM6BT
015PeMiyhA471pIzMDMGCCsGAQUFBwEBBCCwJTAjBgggrBgEFBQcwAoYXaHR0cDov
L3IwMy5pLmxlbmN5Lm9yZy8wRgYDVR0RBDBwPVIWZmLsZXNubWVzdG9kb24uc29j
aWwFsg9tYXN0b2Rvbi5zb2NpYywyCE3d3dy5tYXN0b2Rvbi5zb2NpYywwEwYDVR0g
BAwwCjAIBGZngQwBAGewLgYDVR0fBCCwJTAjocGgH4YdaHR0cDovL3IwMy5jLmxl
bmN5Lm9yZy84Ny5jcmwwggEEBgorBgEEAdZ5AgQCBHIHBIHyAPAAAgBkEcRspBls
p4kcoGiuAlYrTyrH1B41J6vq/tUDyX3N8AAAAZv5btavAAAEAwBHMEUCIBMq10dH
W/UEngEkEv5SgIFZ/Y5X6165kzIPDgZJkAAIEA0aowH7PNIj r2qud05XLJZ0L t
1pLq65SwuJsNEHXgGmzYAdgCWL2S/VVixRfdDh2g3CEJ36fA61fak8zZuRqQ/D8q
xgAAAzVsbtcHAAAEAwBHMEUCIQD1CO+BsoKEo6Aqa9vw2T03rNn/D0LZzvPe2qk6
xGr25gIgo8Nicc9Y0kntW0f1zoMf57jhtCfcHqF5IypYAJBgELIwDQYJKoZIhvcN
AQELBQADggEBAIFtLuoE5Fwtf8CGLePwR+uhFalq4p2tkfMrLAf7vVmgErE2qa6V
u3VzdeLexuxC/yodIkXvP12N+CzKC+pQUw1rJ1qwt0A0h0rN8Rk006R3TH9+0oJj
wM3cYE41XRSABNXhyi3DCekcoBcmxePCCqbISFqgqk1Aq0Qw+jeIwXYI1Dmf5/oj
quZ4xnLL07JdIctNcVqqqFe9QgD0IVRgYbLoY0QsKpGzMG2fuBcwm80IjN8J2wEz
A+va2u8m37HNao6rBkHTtoebHWGRhGN4VvBG8BYqq4fG+WVJUVrmvI0WkCR0+sbxq
ajEI2Q06Qj8M45CGH6KeBrLst4Ng0TTqhrE=
-----END CERTIFICATE-----
1 s:C = US, O = Let's Encrypt, CN = R13
  i:C = US, O = Internet Security Research Group, CN = ISRG Root X1
```

```

a:PKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA256
v:NotBefore: Mar 13 00:00:00 2024 GMT; NotAfter: Mar 12 23:59:59 2027 GMT
-----BEGIN CERTIFICATE-----
MIIFBTCCAu2gAwIBAgIQWgDyEtjUtIDzkKF6imDBTANBgkqhkiG9w0BAQsFADBP
MQswCQYDVQQGEwJVVzEpMCcGA1UEChMgSW50ZXJvZXU2VjJXJpdHkgUmVzZWYy
Y2ggR3JvdXAxFATBgnVBAWMTDElTUkcgUm9vdCBYMTAeFw0yNDAzMTRwMDAwMDBa
Fw0yNzAzMTIyMzU5NTLaMDMxCzAJBgNVBAYTAiLVTRMRUwFAyDQ0KQkw1MzXQncyBF
bmNyeXB0MQwwCgYDVQQDEwNSMTMwggEiMA0GCSqGSIb3DQEBAQUAA4IBDwAwggEK
AoIBAQC1Z3CN0FABZBUXyc25BtStGZCMJLA3mBZjklTb2cyEBZPs0+wIG6BgUUNI
f5vHSJaetC3ancgn01ehn6vw1g7UDjDKb5ux0daknTI+WE41b0VYaHEX/D7YXYKg
L7JRbLAAxbhZzjVlyIuhrxA3/+0cXcJFzT/jCuLjfC8cSyTDB0FLrHzarJXnzR
y0H3nAP2/Apd9Np75tt2Qndr9E0i2gB3b9JXxf92nUupVcM9upctubZpwjPoXTi
dYJ+EJ/B9aLrAek4sQpEzNPCiFVJNYIKNLMc6YjCR06CDgo28EdPivEpBHXazeG
XP9enZiVuppD0EqiFwUBDDTmOPAgMBAAGjfgwgfwUdGjYDVR0PAQH/BAQDAgGG
MB0GA1UdJQ0wMBQGCcsGAQUFBwMCGbgrBgEFBQcDATASBgnVHRMBAf8ECDAGAQH/
AgEAMB0GA1UdDgQWBbTnq58PLD0gU9NeT3jIsoQ009aSMzAfBgNVHSMEGDAWgBR5
tFmne7bL5AFzGaiIyBpY9umbbjAyBggrBgEFBQcBAQQmMCQwIgwYIKwYBBQUHMAKG
Fmh0dHA6Ly94M55pLmXlbnNylm9yZy8wEwYDVR0gBAwwCjAIBgZngQwBAGewJwYD
VR0FBCAwHjAcoBqgGIYwaHR0cDovL3gXLMubGvUy3Iub3JnLnZANBgkqhkiG9w0B
AQsFAAOCAGEAUTdYUqEimzW7Tbr0ypLqCfL7V0wYf/Q790H5cHLCZeggfQhDconl
k7Kgh8b0vi+/XuWu7CN8n/UPeg1vo3G+taXirrytthQinAHGwc/Udb0ygJa9zuBc
VyqoH3CXTXDInT+8a+c3aEVMJ2St+pSn4ed+wkDp8ijsijvEyFwE47huLW0Ltzjg
9f0V5Pmrg/zxwbRuL+k0DBDHEJennCsAen7c35Pmx7jpmJ/HtgRhcnz0yjsBvyIw
6L1LIupkCv2SB0DT/xDD3gfQ0yKv6roV4G2EhfEYAsWpmojxjCUCGiyg97FvDtm/
NK2Lsc9lybKx873I2+P2G3CaWpvpAiHCvu30jW8GcXkdFhsXtnIy2imskQqVZ2m
0Pmxobb28Tucr7xBK7CtwvPrb79os7u2XP305f9b/H66GNYRrgLRXlRyjiIoGYL/
f4IIn/Sgusda6wVA6C190kxjU15Y12mHU4+BxyR9cx2hhGS9fAjmZKJss28qxvz6
Axu4CaDmRNZpk/pQrXF17yXCXkmEWgvS0EZy6Z9pcbLIVEGckV/iVeq0A0o2pk99
p4QRiY0tK2diRENLSF2KysFwbY6B26BFeFs3v1sYVRhFW9nLk0RQVporCS0KyZmf
wVD89qSTLncTLcZnIavjKsKUuInAiU0yYMdYepKR7LWbnwhdx3ewok=
-----END CERTIFICATE-----
---
Server certificate
subject=CN = mastodon.social
issuer=C = US, O = Let's Encrypt, CN = R13
---
No client certificate CA names sent
Peer signing digest: SHA256
Peer signature type: RSA-PSS
Server Temp Key: X25519, 253 bits
---
SSL handshake has read 3160 bytes and written 381 bytes
Verification: OK
---
New, TLSv1.3, Cipher is TLS_AES_128_GCM_SHA256
Server public key is 2048 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	200
Connected IP	151.101.65.55
Connect Time	161.36 ms
TTFB	505.34 ms
Total Time	505.46 ms

Response Headers:

```
{
  "0": "HTTP/1.1 301 Moved Permanently",
  "1": "Connection: close",
  "2": "Content-Length: 0",
  "3": "Server: Varnish",
  "4": "Retry-After: 0",
  "5": "Location: https://mastodon.social/",
  "6": "Accept-Ranges: bytes",
  "7": "Date: Fri, 06 Mar 2026 09:16:33 GMT",
  "8": "Via: 1.1 varnish",
  "9": "X-Served-By: cache-fra-eddf8230042-FRA",
  "10": "X-Cache: HIT",
  "11": "X-Cache-Hits: 0",
  "12": "X-Timer: S1772788593.112510,V50,VE0",
  "13": "Strict-Transport-Security: max-age=31557600",
  "14": "alt-svc: h3=\":443\";ma=86400,h3-29=\":443\";ma=86400,h3-27=\":443\";ma=86400",
  "16": "HTTP/2 200",
  "17": "content-type: text/html; charset=utf-8",
  "18": "x-request-id: b2be29b3-6892-4c9e-a70e-0dab5bb0b99f",
  "19": "x-content-type-options: nosniff",
  "20": "cache-control: max-age=15, public, stale-while-revalidate=30, stale-if-error=86400",
  "21": "referrer-policy: strict-origin-when-cross-origin",
  "22": "x-frame-options: DENY",
  "23": "server: Mastodon",
  "24": "content-security-policy: base-uri 'none'; default-src 'none'; frame-ancestors 'none'; font-src 'self' https://mastodon.social; img-src 'self' data: blob: https://mastodon.social https://files.mastodon.social; media-src 'self' data: https://mastodon.social https://files.mastodon.social; manifest-src 'self' https://mastodon.social; form-action 'none'; child-src 'self' blob: https://mastodon.social; worker-src 'self' blob: https://mastodon.social; connect-src 'self' data: blob: https://mastodon.social https://files.mastodon.social wss://streaming.mastodon.social; frame-src 'self' https://mastodon.social https://mastodon.social 'nonce-Id6Tfa950J20jLHIjiaDyw='; script-src 'self' https://mastodon.social 'wasm-unsafe-eval' 'sha256-Z5KW83D+6/pygIQ53h9XDpF52xw3l3Bhc7JL9tj3uMs='",
  "25": "etag: W/\"65be9b942e269e7ed4274a1fe6ad85f3\"",
  "26": "x-runtime: 0.192752",
  "27": "x-xss-protection: 0",
  "28": "via: 1.1 varnish, 1.1 varnish",
  "29": "accept-ranges: bytes",
  "30": "date: Fri, 06 Mar 2026 09:16:33 GMT",
  "31": "age: 9",
  "32": "x-served-by: cache-fra-etou8220077-FRA, cache-fra-etou8220077-FRA, cache-kul9824-KUL",
  "33": "x-cache: MISS, HIT, MISS",
  "34": "x-cache-hits: 0, 8, 0",
  "35": "x-timer: S1772788593.199480,V50,VE175",
  "36": "vary: Accept, Accept-Language, Cookie, Accept-Encoding",
  "37": "strict-transport-security: max-age=31557600",
  "38": "alt-svc: h3=\":443\";ma=86400,h3-29=\":443\";ma=86400,h3-27=\":443\";ma=86400",
  "39": "content-length: 34854"
}
```

IPv6 HTTP (port 80)

HTTP Status	200
Connected IP	2a04:4e42::311
Connect Time	203.62 ms
TTFB	608.14 ms
Total Time	608.26 ms

Response Headers:

```
{
  "0": "HTTP/1.1 301 Moved Permanently",
  "1": "Connection: close",
  "2": "Content-Length: 0",
  "3": "Server: Varnish",
}
```

```

"4": "Retry-After: 0",
"5": "Location: https://mastodon.social/",
"6": "Accept-Ranges: bytes",
"7": "Date: Fri, 06 Mar 2026 09:16:30 GMT",
"8": "Via: 1.1 varnish",
"9": "X-Served-By: cache-fra-eddf8230084-FRA",
"10": "X-Cache: HIT",
"11": "X-Cache-Hits: 0",
"12": "X-Timer: S1772788591.730855,V50,VE0",
"13": "Strict-Transport-Security: max-age=31557600",
"14": "alt-svc: h3=\":443\";ma=86400,h3-29=\":443\";ma=86400,h3-27=\":443\";ma=86400",
"16": "HTTP/2 200",
"17": "content-type: text/html; charset=utf-8",
"18": "x-request-id: b2be29b3-6892-4c9e-a70e-0dab5bb0b99f",
"19": "x-content-type-options: nosniff",
"20": "cache-control: max-age=15, public, stale-while-revalidate=30, stale-if-error=86400",
"21": "referrer-policy: strict-origin-when-cross-origin",
"22": "x-frame-options: DENY",
"23": "server: Mastodon",
"24": "content-security-policy: base-uri 'none'; default-src 'none'; frame-ancestors 'none'; font-src 'self' https://mastodon.social; img-src 'self' data: blob: https://mastodon.social https://files.mastodon.social; media-src 'self' data: https://mastodon.social https://files.mastodon.social; manifest-src 'self' https://mastodon.social; form-action 'none'; child-src 'self' blob: https://mastodon.social; worker-src 'self' blob: https://mastodon.social; connect-src 'self' data: blob: https://mastodon.social https://files.mastodon.social wss://streaming.mastodon.social; frame-src 'self' https://; style-src 'self' https://mastodon.social 'nonce-Id6Tfa950J20jLHIjiaDyw='; script-src 'self' https://mastodon.social 'wasm-unsafe-eval' 'sha256-Z5KW83D+6/pygIQS3h9XDpF52xw3L3BHc7JL9tj3uMs='",
"25": "etag: W/\"65be9b942e269e7ed4274a1fe6ad85f3\"",
"26": "x-runtime: 0.192752",
"27": "x-xss-protection: 0",
"28": "via: 1.1 varnish, 1.1 varnish",
"29": "accept-ranges: bytes",
"30": "age: 7",
"31": "date: Fri, 06 Mar 2026 09:16:31 GMT",
"32": "x-served-by: cache-fra-etou8220077-FRA, cache-fra-etou8220077-FRA, cache-qap-vomm4700020-QAP",
"33": "x-cache: MISS, HIT, MISS",
"34": "x-cache-hits: 0, 4, 0",
"35": "x-timer: S1772788591.912812,V50,VE157",
"36": "vary: Accept, Accept-Language, Cookie, Accept-Encoding",
"37": "strict-transport-security: max-age=31557600",
"38": "alt-svc: h3=\":443\";ma=86400,h3-29=\":443\";ma=86400,h3-27=\":443\";ma=86400",
"39": "content-length: 34854"
}

```

IPv4 HTTPS (port 443)

HTTP Status	200
Connected IP	151.101.129.55
Connect Time	159.71 ms
TTFB	482.69 ms
Total Time	482.73 ms

Response Headers:

```

[
  "HTTP/2 200",
  "content-type: text/html; charset=utf-8",
  "x-request-id: b2be29b3-6892-4c9e-a70e-0dab5bb0b99f",
  "x-content-type-options: nosniff",
  "cache-control: max-age=15, public, stale-while-revalidate=30, stale-if-error=86400",
  "referrer-policy: strict-origin-when-cross-origin",
  "x-frame-options: DENY",
  "server: Mastodon",
  "content-security-policy: base-uri 'none'; default-src 'none'; frame-ancestors 'none'; font-src 'self' https://mastodon.social; img-src 'self' data: blob: https://mastodon.social https://files.mastodon.social; media-src 'self' data: https://mastodon.social https://files.mastodon.social; manifest-src 'self' https://mastodon.social; form-action 'none'; child-src 'self' blob: https://mastodon.social; worker-src 'self' blob: https://mastodon.social; connect-src 'self' data: blob: https://mastodon.social https://files.mastodon.social wss://streaming.mastodon.social; frame-src 'self' https://; style-src 'self' https://mastodon.social 'nonce-Id6Tfa950J20jLHIjiaDyw='; script-src 'self' https://mastodon.social 'wasm-unsafe-eval' 'sha256-Z5KW83D+6/pygIQS3h9XDpF52xw3L3BHc7JL9tj3uMs='",
  "etag: W/\"65be9b942e269e7ed4274a1fe6ad85f3\"",
  "x-runtime: 0.192752",
  "x-xss-protection: 0",
  "accept-ranges: bytes",
  "date: Fri, 06 Mar 2026 09:16:34 GMT",
  "via: 1.1 varnish",
  "age: 10",
  "x-served-by: cache-fra-etou8220077-FRA, cache-fra-eddf8230179-FRA",
  "x-cache: MISS, HIT",
  "x-cache-hits: 0, 1",
  "x-timer: S1772788594.265304,V50,VE1",
  "vary: Accept, Accept-Language, Cookie, Accept-Encoding",

```

```
"strict-transport-security: max-age=31557600",
"alt-svc: h3=\":443\";ma=86400,h3-29=\":443\";ma=86400,h3-27=\":443\";ma=86400",
"content-length: 34854"
]
```

IPv6 HTTPS (port 443)

HTTP Status	200
Connected IP	2a04:4e42:200::311
Connect Time	159.66 ms
TTFB	484.29 ms
Total Time	484.33 ms

Response Headers:

```
[
"HTTP/2 200",
"content-type: text/html; charset=utf-8",
"x-request-id: b2be29b3-6892-4c9e-a70e-0dab5bb0b99f",
"x-content-type-options: nosniff",
"cache-control: max-age=15, public, stale-while-revalidate=30, stale-if-error=86400",
"referrer-policy: strict-origin-when-cross-origin",
"x-frame-options: DENY",
"server: Mastodon",
"content-security-policy: base-uri 'none'; default-src 'none'; frame-ancestors 'none'; font-src 'self' https://mastodon.social; img-src 'self' data: blob: https://mastodon.social https://files.mastodon.social; media-src 'self' data: https://mastodon.social https://files.mastodon.social; manifest-src 'self' https://mastodon.social; form-action 'none'; child-src 'self' blob: https://mastodon.social; worker-src 'self' blob: https://mastodon.social; connect-src 'self' data: blob: https://mastodon.social https://files.mastodon.social wss://streaming.mastodon.social; frame-src 'self' https://mastodon.social; style-src 'self' https://mastodon.social 'nonce-Id6Tfa950J20jLHIjiaDyw='; script-src 'self' https://mastodon.social 'wasm-unsafe-eval' 'sha256-Z5KW83D+6/pygIQS3h9XDPF52xw3l3BHC7JL9tj3uMs='",
"etag: W/\"65be9b942e269e7ed4274a1fe6ad85f3\"",
"x-runtime: 0.192752",
"x-xss-protection: 0",
"accept-ranges: bytes",
"date: Fri, 06 Mar 2026 09:16:31 GMT",
"via: 1.1 varnish",
"age: 8",
"x-served-by: cache-fra-etou8220077-FRA, cache-fra-eddf8230157-FRA",
"x-cache: MISS, HIT",
"x-cache-hits: 0, 1",
"x-timer: S1772788592.985564,V50,VE1",
"vary: Accept, Accept-Language, Cookie, Accept-Encoding",
"strict-transport-security: max-age=31557600",
"alt-svc: h3=\":443\";ma=86400,h3-29=\":443\";ma=86400,h3-27=\":443\";ma=86400",
"content-length: 34854"
]
```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	301 0.159264 0.320025
TCP Connect IPv6 → port 80	301 0.159963 0.320807
TCP Connect IPv4 → port 443	200 0.161362 0.489629
TCP Connect IPv6 → port 443	200 0.159319 0.483708

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
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
```