IPv6 Readiness Report

mastodon.social — mastodon.social

Scan to verify

Category: Social Media • Generated: 02 Nov 2026, 03:12 MYT • Last Checked: 08 Aug 2026, 18:20 MYT • Verification ID: a5507175-1ca4-406a-8589-5bef2817f4ef
Report generated from National IPv6 Readiness Monitor — https://ipv6.my6.my
Audit trail: https://ipv6.my6.my/audit/a5507175-1ca4-406a-8589-5bef2817f4ef

✓
Compliant
MGv6C-1.0

90%
Fully IPv6 Ready

IPV6-ONLY READINESS
Website: ✓ **Ready**
DNS: ✓ **Ready**
Email: ✗ **Not Ready**

IPV6 ADDRESSES
2a04:4e42:200::311
2a04:4e42:400::311
2a04:4e42:600::311
2a04:4e42::311

IPV4 ADDRESSES
151.101.193.55
151.101.1.55
151.101.65.55
151.101.129.55

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)	2a04:4e42::/32	151.101.0.0/16

Web Services (35%) — 8 / 8

#	CHECK	RESULT	DETAIL
1	**AAAA Record**	PASS	2a04:4e42:200::311, 2a04:4e42:400::311, 2a04:4e42:600::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 — 414ms TTFB.
4	**HTTPS over IPv6**	PASS	HTTPS (port 443) responds over IPv6 — 18ms 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 = YR1, expires Oct 15 15:03:24 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.

#	CHECK	RESULT	DETAIL
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 / 4

#	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	151.101.193.55, 151.101.1.55, 151.101.65.55, 151.101.129.55
2	**HTTP over IPv4**	PASS	HTTP (port 80) responds over IPv4 — 26ms TTFB.
3	**HTTPS over IPv4**	PASS	HTTPS (port 443) responds over IPv4 — 8ms TTFB.

Audit Trail & Evidence Record

Verification ID	a5507175-1ca4-406a-8589-5bef2817f4ef
Domain	mastodon.social
Check Mode	Manual
Status	Completed
Started	08 Aug 2026, 18:20:13 MYT
Finished	08 Aug 2026, 18:20:21 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/a5507175-1ca4-406a-8589-5bef2817f4ef

Integrity Verification

✓ **INTEGRITY VERIFIED**

Algorithm	hmac-sha256-v1
Root Hash	92d30dd831455eae4385802d1fba68200cfe3c124d0058b3e5a0cb4409da1cef
http_headers	25d1535c2e6a552f24081e9e5ed70d80ff7cd6c05eb4344ccfd3eea4ce1dc858
dns_responses	e3670e8a238fcbe63a9d7d402c4bdc41ad144c9186cc4f7ce1d14eb0140d1c7a
tls_handshake	9dcb14367d8a094065b68063dc559b14ff3f110c4b6dc1ce6c80a4d62a3a7842
connectivity_log	b76dab044005d311d594853dac5b5f535bedd4be64fa8221f1e26ff6d91a2578
dns_resolution_times	e2656afa9409d24b3d2027deaef41af59ddf5cebedb4223ed347c33970ff894a

Test Node Identity

Os	Linux srv1440888 6.8.0-136-generic #136-Ubuntu SMP PREEMPT_DYNAMIC Wed Jul 1 21:53:05 UTC 2026 x86_64
Hostname	srv1440888
Php Version	8.3.33
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	10.63	20.59	23.44	26.79	+12.8
Google	IPv4	59.82	302.37	25.8	439.65	-34
Google	IPv6	124.26	311.27	281.88	431.43	+157.6
Cloudflare	IPv4	23.23	24.42	23.15	24.36	-0.1
Cloudflare	IPv6	27.9	29.39	21.59	27.44	-6.3

DNS Evidence

A

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 22750
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
mastodon.social.	600	IN	A	151.101.193.55
mastodon.social.	600	IN	A	151.101.1.55
mastodon.social.	600	IN	A	151.101.65.55
mastodon.social.	600	IN	A	151.101.129.55
```

DS

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 64957
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
social.			3596	IN	SOA	v0n0.nic.social. hostmaster.donuts.email. 1786184032 7200 900 1209600 3600
```

MX

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 17846
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
mastodon.social.	3600	IN	MX	1 smtp.google.com.
```

NS

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 24697
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
mastodon.social.	3600	IN	NS	ns1.exoscale.net.
mastodon.social.	3600	IN	NS	ns1.exoscale.ch.
mastodon.social.	3600	IN	NS	ns1.exoscale.com.
mastodon.social.	3600	IN	NS	ns1.exoscale.io.
```

TXT

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 45647
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
mastodon.social.	3600	IN	TXT	"zoho-verification=zb49784848.zmverify.zoho.eu"
mastodon.social.	3600	IN	TXT	"v=spf1 include:_spf.google.com include:helpscoutemail.com ~all"
```

AAAA

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 57896
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
mastodon.social.	600	IN	AAAA	2a04:4e42:400::311
mastodon.social.	600	IN	AAAA	2a04:4e42:600::311
mastodon.social.	600	IN	AAAA	2a04:4e42::311
mastodon.social.	600	IN	AAAA	2a04:4e42:200::311
```

RRSIG

```
ns1.exoscale.ch. admin.dnsimple.com. 1579114453 86400 7200 604800 300
```

DNSKEY

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 53751
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
mastodon.social.␣296␣IN␣SOA␣ns1.exoscale.ch. admin.dnsimple.com. 1579114453 86400 7200 604800 300
```

DNSSEC_VALIDATION

```
; unsigned answer
mastodon.social.␣3596␣IN␣SOA␣ns1.exoscale.ch. admin.dnsimple.com. 1579114453 86400 7200 604800 300
```

TLS Handshake Evidence

IPV4 Connection

IP Used	151.101.193.55
IP Version	4

```
depth=3 C = US, O = Internet Security Research Group, CN = ISRG Root X1
verify return:1
depth=2 C = US, O = ISRG, CN = Root YR
verify return:1
depth=1 C = US, O = Let's Encrypt, CN = YR1
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 = YR1
   a:PKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA256
   v:NotBefore: Jul 17 15:03:25 2026 GMT; NotAfter: Oct 15 15:03:24 2026 GMT
-----BEGIN CERTIFICATE-----
MIIFJDCCBAygAwIBAgISBbTceRjk+5KyoxAC+Lk52MLJMA0GCSqGSIb3DQEBCwUA
MDMxCzAJBgNVBAYTAlVTMRYwFAYDVQQKEw1MZXQncyBFbmNyeXB0MQwwCgYDVQQD
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Y3Iub3JnLzBGBgNVHREEPzA9ghVmaWxlcy5tYXN0b2Rvbi5zb2NpYWyCD21hc3Rv
ZG9uLnNvY2lhbIITd3d3Lm1hc3RvZG9uLnNvY2lhbDATBgNVHSAEDDAKMAgGBmeB
DAECATAuBgNVHR8EJzAlMCOgIaAfhh1odHRwOi8veXIxLmMubGVuY3Iub3JnLzc0
LmNybDCCAQwGCisGAQQB1nkCBAIEgf0EgfoA+AB1AMs49xWJfIShRF9bwd37yW7y
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XWA9JboifHr0Il/jIhi3syy4VtMRpWHzYI+SMcCXlBmEazTfkgELpRWQik7Lg5mz
QvtOfkTqhArjEuHSgicBE4kjUj/63h2s
-----END CERTIFICATE-----
 1 s:C = US, O = Let's Encrypt, CN = YR1
   i:C = US, O = ISRG, CN = Root YR
   a:PKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA256
   v:NotBefore: Sep  3 00:00:00 2025 GMT; NotAfter: Sep  2 23:59:59 2028 GMT
-----BEGIN CERTIFICATE-----
MIIE2zCCAsOgAwIBAgIRAKICU/FfJpHAXcHOE7m8yk4wDQYJKoZIhvcNAQELBQAw
LjELMAkGA1UEBhMCVVMxDTALBgNVBAoTBElTUkcxEDAOBgNVBAMTB1Jvb3QgWVIw
HhcNMjUwOTAzMDAwMDAwWhcNMjgwOTAyMjM1OTU5WjAzMQswCQYDVQQGEwJVUzEW
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```

```
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cjlYVdWfqOw3DIOX6EDNBgAqHarRVxyF9QZdOaXSyPJ0ueD2BYJEBgaCGQ8rAaU/
Qc123V5LTXDZW4CcsPBDyhy4v+c8hClAyw/IkJlfBqxB9D+/wvIMHgECZ4ptP6o=
-----END CERTIFICATE-----
 2 s:C = US, O = ISRG, CN = Root YR
   i:C = US, O = Internet Security Research Group, CN = ISRG Root X1
   a:PKEY: rsaEncryption, 4096 (bit); sigalg: RSA-SHA256
   v:NotBefore: May 13 00:00:00 2026 GMT; NotAfter: Sep  2 23:59:59 2032 GMT
-----BEGIN CERTIFICATE-----
MIIF9DCCA9ygAwIBAgIRAPJLbRf52a18scn+p4eCaZ8wDQYJKoZIhvcNAQELBQAw
TzELMAkGA1UEBhMCVVMxKTAnBgNVBAoTIEludGVybmV0IFNlY3VyaXR5IFJlc2Vh
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VR0PAQH/BAQDAgEGMBMGA1UdJQQMMAoGCCsGAQUFBwMBMA8GA1UdEwEB/wQFMAMB
Af8wHQYDVR0OBBYEFN7nW2DQIm1AKH0/DQH+pLVStFGUMB8GA1UdIwQYMBaAFHm0
```

IPV6 Connection

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

```
depth=3 C = US, O = Internet Security Research Group, CN = ISRG Root X1
verify return:1
depth=2 C = US, O = ISRG, CN = Root YR
verify return:1
depth=1 C = US, O = Let's Encrypt, CN = YR1
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 = YR1
   a:PKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA256
   v:NotBefore: Jul 17 15:03:25 2026 GMT; NotAfter: Oct 15 15:03:24 2026 GMT
-----BEGIN CERTIFICATE-----
MIIFJDCCBAygAwIBAgISBbTceRjk+5KyoxAC+Lk52MLJMA0GCSqGSIb3DQEBCwUA
MDMxCzAJBgNVBAYTAlVTMRYwFAYDVQQKEw1MZXQncyBFbmNyeXB0MQwwCgYDVQQD
EwNZUjEwHhcNMjYwNzE3MTUwMzI1WhcNMjYxMDE1MTUwMzI0WjAaMRgwFgYDVQQD
Ew9tYXN0b2Rvbi5zb2NpYWwwggEiMA0GCSqGSIb3DQEBAQUAA4IBDwAwggEKAoIB
AQCe+PhOzGM04eyJD5P99xhQ3X56y8PAV+dE4vGO3DNwSos5UewVD5j3NKL3YsIn
wawJI5Jgwmro9/qmNe4TG4/4mpTb+OeWjQhFIp+f/pLhhFlEV1oVgu5DBEw3CZmN
QKnvCuxCzuP5y+k8jh1ZMuo2mm09WMWoFZryFeAX2W9ZpK3CbLzmg9DSvaZL04+t
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or+w7MG6ZTRaIAyo/QN955dcOLqWuR0Q2zR2xQwXR6Wrom+FNqjPwIUDN33jQP+h
G/a/Hmeq3o90nJJQdxQip8wfAgMBAAGjggJJMIICRTAOBgNVHQ8BAf8EBAMCBaAw
EwYDVR0lBAwwCgYIKwYBBQUHAwEwDAYDVR0TAQH/BAIwADAdBgNVHQ4EFgQUiepC
Syj+pR8YlTvWxO/Okq1TfQwwHwYDVR0jBBgwFoAUHy81vkYUgs1Asa55LFV4+vfU
aPswMwYIKwYBBQUHAQEEJzAlMCMGCCsGAQUFBzAChhdodHRwOi8veXIxLmkubGVu
Y3Iub3JnLzBGBgNVHREEPzA9ghVmaWxlcy5tYXN0b2Rvbi5zb2NpYWyCD21hc3Rv
ZG9uLnNvY2lhbIITd3d3Lm1hc3RvZG9uLnNvY2lhbDATBgNVHSAEDDAKMAgGBmeB
DAECATAuBgNVHR8EJzAlMCOgIaAfhh1odHRwOi8veXIxLmMubGVuY3Iub3JnLzc0
LmNybDCCAQwGCisGAQQB1nkCBAIEgf0EgfoA+AB1AMs49xWJfIShRF9bwd37yW7y
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vO3t7856502fQ4rwnqQkoU8CIFbtmqxFgEfuvgbyYQJtKzLk+YbGMSZkCv14Zo6C
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YgIhAJ6cNSw8yyRCTAego9ScRWlHaD7v+PrSO1v80aFLNJGaMA0GCSqGSIb3DQEB
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/ED0QZwxPAZcYXsGKRsbLq6HYzm54PJnmex+UhOQET7UQDCOGZGnajE2kAwvEhev
0b19oZX3jMeNR+ker7HHiPbfRIzymsdmpJlHD3NEAdCMUSWh4+Q/SOJx5h/24Rbg
XWA9JboifHr0Il/jIhi3syy4VtMRpWHzYI+SMcCXlBmEazTfkgELpRWQik7Lg5mz
QvtOfkTqhArjEuHSgicBE4kjUj/63h2s
-----END CERTIFICATE-----
```

```
 1 s:C = US, O = Let's Encrypt, CN = YR1
   i:C = US, O = ISRG, CN = Root YR
   a:PKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA256
   v:NotBefore: Sep  3 00:00:00 2025 GMT; NotAfter: Sep  2 23:59:59 2028 GMT
-----BEGIN CERTIFICATE-----
MIIE2zCCAsOgAwIBAgIRAKICU/FfJpHAXcHOE7m8yk4wDQYJKoZIhvcNAQELBQAw
LjELMAkGA1UEBhMCVVMxDTALBgNVBAoTBElTUkcxEDAOBgNVBAMTB1Jvb3QgWVIw
HhcNMjUwOTAzMDAwMDAwWhcNMjgwOTAyMjM1OTU5WjAzMQswCQYDVQQGEwJVUzEW
MBQGA1UEChMNTGV0J3MgRW5jcnlwdDEMMAoGA1UEAxMDWVIxMIIBIjANBgkqhkiG
9w0BAQEFAAOCAQ8AMIIBCgKCAQEAoVi8X2xCYgMXvJxNPKp/oF13UMgmPABB07VC
LNDtoXmt9luEZNJSBV10VyT1Pz6LD8Zq1d2gc43WNl1AdRrj4sEnazbOiz0nPpmG
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SE3BsjC2a6cAN9L5CgXVIQi5tfNiTPoFZZ3S0OlXqLmmtdV95udWAb5b6e/F49Di
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TmXwY015J5rGelz1nZjJuxc2kioaX29XJBnhMkP531rSdG5uMwIDAQABo4HuMIHr
MA4GA1UdDwEB/wQEAwIBhjATBgNVHSUEDDAKBggrBgEFBQcDATASBgNVHRMBAf8E
CDAGAQH/AgEAMB0GA1UdDgQWBBQfLzW+RhSCzUCxrnksVXj699Ro+zAfBgNVHSME
GDAWgBTe51tg0CJtQCh9Pw0B/qS1UrRRlDAyBggrBgEFBQcBAQQmMCQwIgYIKwYB
BQUHMAKGFmh0dHA6Ly95ci5pLmxlbmNyLm9yZy8wEwYDVR0gBAwwCjAIBgZngQwB
AgEwJwYDVR0fBCAwHjAcoBqgGIYWaHR0cDovL3lyLmMubGVuY3Iub3JnLzANBgkq
hkiG9w0BAQsFAAOCAgEA0+zvMq3kHig1ddTmmm+RibTr9/RpX7k4buanMMRqbV/y
IvP82zAHN3mvaw+cASuVsdpd0ikjhr4hnhJQLQOzOp2ccKrsdGOAgo0vddeISFAq
EWEV4lmUM3vFF796up+bSgmJ1u6RupDCMxDgF8M3eLvGuj6L0lu3zkQ0KuQLnKxL
tB0oQqn1Idg5CuuGpMvQzk29Pa3D/qHurc0EIM9SxukQuJqq63lxsYyRQFU8yMBO
hq1w5LbfaWNRrz1uklOfI/pYkAb2E2MTZrAMQkBIE2S8Jt1F8gRc96o/xOsrgvSk
a84AisX6xq1lz1Z7jGvrnXc4TMcjxZTjiTaihcYI1JIXZiLtEMSCa5l3cu8YWd6z
dLRQlqRdclVjuQfNHawRJ6GWlkK0QJosivTKwdBw3KxEtzGo8yMHERbsy57gP1UX
HOMcmZYQC0gtyR3SxfenIM/MxC3Ia2Ypab/kQ/CTnlIn2KQ5JUC6NYrGCbhFN9bp
5lKJStEwCUnLpntcrXk5XVDCNv/5RyWpRThkGOV7GetKkQ0qAY8hCzWK6oqnAhDZ
cjlYVdWfqOw3DIOX6EDNBgAqHarRVxyF9QZdOaXSyPJ0ueD2BYJEBgaCGQ8rAaU/
Qc123V5LTXDZW4CcsPBDyhy4v+c8hClAyw/IkJlfBqxB9D+/wvIMHgECZ4ptP6o=
-----END CERTIFICATE-----
 2 s:C = US, O = ISRG, CN = Root YR
   i:C = US, O = Internet Security Research Group, CN = ISRG Root X1
   a:PKEY: rsaEncryption, 4096 (bit); sigalg: RSA-SHA256
   v:NotBefore: May 13 00:00:00 2026 GMT; NotAfter: Sep  2 23:59:59 2032 GMT
-----BEGIN CERTIFICATE-----
MIIF9DCCA9ygAwIBAgIRAPJLbRf52a18scn+p4eCaZ8wDQYJKoZIhvcNAQELBQAw
TzELMAkGA1UEBhMCVVMxKTAnBgNVBAoTIEludGVybmV0IFNlY3VyaXR5IFJlc2Vh
cmNoIEdyb3VwMRUwEwYDVQQDEwxJU1JHIFJvb3QgWDEwHhcNMjYwNTEzMDAwMDAw
WhcNMzIwOTAyMjM1OTU5WjAuMQswCQYDVQQGEwJVUzENMAsGA1UEChMESVNSRzEQ
MA4GA1UEAxMHUm9vdCBZUjCCAiIwDQYJKoZIhvcNAQEBBQADggIPADCCAgoCggIB
ANvGJnN78CTJdWL3+eGfsLN5TrNBJs+VH9hRXqRbwxu9sGNiB0BD1fcOxbSUQCJI
M1xE13Db+5Cw1w0s0EBYsvuIP/6joF0w8cuImbgR1OGgYbSQ4OpzI+DG8SGuTlcE
873OCS+kh3srlo6vl43M5OJg4Aeo1sfHp6kTJDoIiFBNJAY+OKfX/FUvYKuhjT+n
o49lmqmupSBI5PkBQiqrEGtWU5uxU/cQWHGu8jSjFBznZqvbNPLMXMLFxCb3WTfr
JBXXjqvWG+v4bjzxjjeAtOlU7qarRDvNOyAuQYLln904M+faKx8hnLCpJ15ZqaEg
cNlY+9MMWcC5yvL2A2j3l9+2buggZX+dOE91zYmIdawTvSZuVvlbRrAlLxIB6pwM
BjneXCjYQ8+3BCCjssbSNpZU3hTcBDdhfAlEDlYr6pEatnMdmDT5BqnKC92bd0Eh
M1fbLHioLccLCuievT8ZkPhZrq7Mii7gNXAcUEAR8+lzYal+9zTg7C5DALyVOeG/
CqfRAMn1KSHCR0NSA6P8tn/mGRlnCct5rtVCLnVySVpU6H1qGg3DgTOuskf8eahT
MiYbI5ezPJmO5ertalskQ1utp74+eDy92PI4ftHKTbq9IWhH4YZKh3WnJEIt+oQv
lYZbY8tpEroKrFB6PFGzrJIDRyts4HqvuH52RFj2zv/BAgMBAAGjgeswgegwDgYD
VR0PAQH/BAQDAgEGMBMGA1UdJQQMMAoGCCsGAQUFBwMBMA8GA1UdEwEB/wQFMAMB
Af8wHQYDVR0OBBYEFN7nW2DQIm1AKH0/DQH+pLVStFGUMB8GA1UdIwQYMBaAFHm0
```

HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	200
Connected IP	151.101.193.55
Connect Time	3.26 ms
TTFB	14.57 ms
Total Time	14.62 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: Sat, 08 Aug 2026 10:20:21 GMT",
    "8": "Via: 1.1 varnish",
    "9": "X-Served-By: cache-kul9827-KUL",
    "10": "X-Cache: HIT",
    "11": "X-Cache-Hits: 0",
    "12": "X-Timer: S1786184421.153547,VS0,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-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-PSjqHSUrYTfqHevw9DLntg=='; script-src 'self' https://mastodon.social 'wasm-unsafe-eval' 'sha256-OgOg5CGI7D4Syg38sNIknJKO+3DCTdpfY1ciC+Bklaw='",
    "18": "x-runtime: 0.098997",
    "19": "x-xss-protection: 0",
    "20": "server: Mastodon",
    "21": "x-request-id: cc33f76e-d3ed-497e-af10-47a1e83d0d7f",
    "22": "etag: W/\"ab3624729dce951a89c9364635754d09\"",
    "23": "cache-control: max-age=15, public, stale-while-revalidate=30, stale-if-error=86400",
    "24": "x-content-type-options: nosniff",
    "25": "x-frame-options: DENY",
    "26": "referrer-policy: strict-origin-when-cross-origin",
    "27": "content-type: text/html; charset=utf-8",
    "28": "via: 1.1 varnish, 1.1 varnish",
    "29": "accept-ranges: bytes",
    "30": "date: Sat, 08 Aug 2026 10:20:21 GMT",
    "31": "age: 8",
    "32": "x-served-by: cache-fra-etou8220077-FRA, cache-fra-etou8220077-FRA, cache-kul9825-KUL",
    "33": "x-cache: MISS, MISS, HIT",
    "34": "x-cache-hits: 0, 0, 1",
    "35": "x-timer: S1786184421.161835,VS0,VE3",
    "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: 55076"
}
```


IPv6 HTTP (port 80)

HTTP Status	200
Connected IP	2a04:4e42:200::311
Connect Time	3.12 ms
TTFB	13.68 ms
Total Time	13.76 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: Sat, 08 Aug 2026 10:20:21 GMT",
    "8": "Via: 1.1 varnish",
    "9": "X-Served-By: cache-kul9829-KUL",
    "10": "X-Cache: HIT",
    "11": "X-Cache-Hits: 0",
    "12": "X-Timer: S1786184421.132634,VS0,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-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-PSjqHSUrYTfqHevw9DLntg=='; script-src 'self' https://mastodon.social 'wasm-unsafe-eval' 'sha256-OgOg5CGI7D4Syg38sNIknJKO+3DCTdpfY1ciC+Bklaw='",
    "18": "x-runtime: 0.098997",
    "19": "x-xss-protection: 0",
    "20": "server: Mastodon",
    "21": "x-request-id: cc33f76e-d3ed-497e-af10-47a1e83d0d7f",
    "22": "etag: W/\"ab3624729dce951a89c9364635754d09\"",
    "23": "cache-control: max-age=15, public, stale-while-revalidate=30, stale-if-error=86400",
    "24": "x-content-type-options: nosniff",
    "25": "x-frame-options: DENY",
    "26": "referrer-policy: strict-origin-when-cross-origin",
    "27": "content-type: text/html; charset=utf-8",
    "28": "via: 1.1 varnish, 1.1 varnish",
    "29": "accept-ranges: bytes",
    "30": "date: Sat, 08 Aug 2026 10:20:21 GMT",
    "31": "age: 8",
    "32": "x-served-by: cache-fra-etou8220077-FRA, cache-fra-etou8220077-FRA, cache-kul9820-KUL",
    "33": "x-cache: MISS, MISS, HIT",
    "34": "x-cache-hits: 0, 0, 1",
    "35": "x-timer: S1786184421.140733,VS0,VE2",
    "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: 55076"
}
```


IPv4 HTTPS (port 443)

HTTP Status	200
Connected IP	151.101.193.55
Connect Time	0.71 ms
TTFB	5.14 ms
Total Time	5.15 ms

Response Headers:


```
[
    "HTTP/2 200",
    "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-PSjqHSUrYTfqHevw9DLntg=='; script-src 'self' https://mastodon.social 'wasm-unsafe-eval' 'sha256-OgOg5CGI7D4Syg38sNIknJKO+3DCTdpfY1ciC+Bklaw='",
    "x-runtime: 0.098997",
    "x-xss-protection: 0",
    "server: Mastodon",
    "x-request-id: cc33f76e-d3ed-497e-af10-47a1e83d0d7f",
    "etag: W/\"ab3624729dce951a89c9364635754d09\"",
    "cache-control: max-age=15, public, stale-while-revalidate=30, stale-if-error=86400",
    "x-content-type-options: nosniff",
    "x-frame-options: DENY",
    "referrer-policy: strict-origin-when-cross-origin",
    "content-type: text/html; charset=utf-8",
    "via: 1.1 varnish, 1.1 varnish",
    "accept-ranges: bytes",
    "date: Sat, 08 Aug 2026 10:20:21 GMT",
    "age: 8",
    "x-served-by: cache-fra-etou8220077-FRA, cache-fra-etou8220077-FRA, cache-kul9825-KUL",
    "x-cache: MISS, MISS, HIT",
    "x-cache-hits: 0, 0, 2",
    "x-timer: S1786184421.170905,VS0,VE0",
    "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: 55076"
]
```


IPv6 HTTPS (port 443)

HTTP Status	200
Connected IP	2a04:4e42:200::311
Connect Time	0.75 ms
TTFB	8.01 ms
Total Time	8.02 ms

Response Headers:


```
[
    "HTTP/2 200",
    "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-PSjqHSUrYTfqHevw9DLntg=='; script-src 'self' https://mastodon.social 'wasm-unsafe-eval' 'sha256-OgOg5CGI7D4Syg38sNIknJKO+3DCTdpfY1ciC+Bklaw='",
    "x-runtime: 0.098997",
    "x-xss-protection: 0",
    "server: Mastodon",
    "x-request-id: cc33f76e-d3ed-497e-af10-47a1e83d0d7f",
    "etag: W/\"ab3624729dce951a89c9364635754d09\"",
    "cache-control: max-age=15, public, stale-while-revalidate=30, stale-if-error=86400",
    "x-content-type-options: nosniff",
    "x-frame-options: DENY",
    "referrer-policy: strict-origin-when-cross-origin",
    "content-type: text/html; charset=utf-8",
    "via: 1.1 varnish, 1.1 varnish",
    "accept-ranges: bytes",
    "date: Sat, 08 Aug 2026 10:20:21 GMT",
    "age: 8",
    "x-served-by: cache-fra-etou8220077-FRA, cache-fra-etou8220077-FRA, cache-kul9822-KUL",
    "x-cache: MISS, MISS, HIT",
    "x-cache-hits: 0, 0, 1",
    "x-timer: S1786184421.148214,VS0,VE3",
    "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: 55076"
]
```


Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	301 0.001039 0.002337
TCP Connect IPv6 → port 80	301 0.000809 0.002092
TCP Connect IPv4 → port 443	200 0.000754 0.022988
TCP Connect IPv6 → port 443	200 0.000803 0.017671

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
fd7a:115c:a1e0::1136:5807 dev tailscale0 proto kernel metric 256 pref medium
fe80::/64 dev eth0 proto kernel metric 256 pref medium
fe80::/64 dev tailscale0 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
```