


IPv6 Readiness Report

line.me — line.me

Category: Social Media • Generated: 20 Apr 2026, 21:24 MYT • Last Checked: 07 Mar 2026, 01:16 MYT • Verification ID: 59588cae-4e94-4c6d-a22c-6537aee5cc91
Report generated from National IPv6 Readiness Monitor — <https://ipv6.my6.my>
Audit trail: <https://ipv6.my6.my/audit/59588cae-4e94-4c6d-a22c-6537aee5cc91>

 Non-Compliant <small>MGv6C-1.0</small>	45% Partial Support	IPv6-ONLY READINESS Website: X Not Ready DNS: X Not Ready Email: X Not Ready
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IPv6 ADDRESSES

- 2600:9000:2078:ea00:2:dc71:3640:93a1
- 2600:9000:2078:c800:2:dc71:3640:93a1
- 2600:9000:2078:800:2:dc71:3640:93a1
- 2600:9000:2078:a200:2:dc71:3640:93a1
- 2600:9000:2078:ee00:2:dc71:3640:93a1
- 2600:9000:2078:a00:2:dc71:3640:93a1
- 2600:9000:2078:c000:2:dc71:3640:93a1
- 2600:9000:2078:1000:2:dc71:3640:93a1

IPv4 ADDRESSES

- 147.92.243.206

Network Information (WHOIS / RDAP)

	IPv6 Network	IPv4 Network
Organization	Amazon.com, Inc.	LINE
Country	US	JP
ASN	AS16509	AS38631
ASN Name	AMAZON-02 - Amazon.com, Inc., US	LINE LY Corporation, JP
Network (CIDR)	2600:9000::/28	147.92.224.0/19

Web Services (35%) 4 / 8			
#	CHECK	RESULT	DETAIL
1	AAAA Record	PASS	2600:9000:2078:ea00:2:dc71:3640:93a1, 2600:9000:2078:c800:2:dc71:3640:93a1, 2600:9000:2078:800:2:dc71:3640:93a1, 2600:9000:2078:a200:2:dc71:3640:93a1, 2600:9000:2078:ee00:2:dc71:3640:93a1, 2600:9000:2078:a00:2:dc71:3640:93a1, 2600:9000:2078:c000:2:dc71:3640:93a1, 2600:9000:2078:1000:2:dc71:3640:93a1
2	Globally Routable IPv6	PASS	All addresses are globally routable.
3	HTTP over IPv6	PASS	HTTP (port 80) responds over IPv6 — 15ms TTFB.
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)	PASS	Domain has both A and AAAA records.
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.

#	CHECK	RESULT	DETAIL
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.
8	Signing Algorithm	INFO	No DNSKEY record found.

Email Services (25%) 3 / 6

#	CHECK	RESULT	DETAIL
1	MX Record Exists	PASS	MX record found.
2	MX Server Has IPv6	FAIL	MX server has no IPv6 address.
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	No common DKIM selector found.
7	DMARC Record	PASS	DMARC record found.

IPv4 Baseline (15%) 3 / 3

#	CHECK	RESULT	DETAIL
1	A Record	PASS	147.92.243.206
2	HTTP over IPv4	PASS	HTTP (port 80) responds over IPv4 — 217ms TTFB.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 236ms TTFB.

Audit Trail & Evidence Record

Verification ID	59588cae-4e94-4c6d-a22c-6537aee5cc91
Domain	line.me
Check Mode	Manual
Status	Completed
Started	07 Mar 2026, 01:16:21 MYT
Finished	07 Mar 2026, 01:16:29 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/59588cae-4e94-4c6d-a22c-6537aee5cc91

Integrity Verification

✓ INTEGRITY VERIFIED	
Algorithm	hmac-sha256-v1
Root Hash	847e66c726f22766f258cee10cdb092fc52680e1f44a8970a65141037195ca5f
http_headers	e374ab08721db463f274add02d9c5bbf7e5faeb8d91d7cce0037150bce129d72
dns_responses	383ff473c8b5bba0fd8d4d5ede79d00966ab7ddc7e729bc50a5326dc7063ac65
tls_handshake	3362015d55dc4acaf1a4653e17a08812f1111a19ce89765bedc746596eb982e4
connectivity_log	1a140c1810f35134a7e71699821ea8741c19e907523ff539ff943558ecc074ff
dns_resolution_times	a79a0ed8366436b72f42c02df91dd4cb9091e83eb41ea0bb4b3c117f31b2beeb

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	6.72	6.73	16.14	18.18	+9.4
Google	IPv4	17.32	19	20.24	26.88	+2.9
Google	IPv6	17.91	17.93	30.06	31.96	+12.2
Cloudflare	IPv4	25.38	31.54	14.83	21.51	-10.6
Cloudflare	IPv6	8.03	16	27.2	32.95	+19.2

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 49126
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
line.me. 108 IN A 147.92.243.206
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 14548
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
me. 1800 IN SOA a0.nic.me. hostmaster.donuts.email. 1772788340 7200 900 1209600 3600
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 38442
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
line.me. 180 IN MX 10 mx-common.line-apps.com.
line.me. 180 IN MX 100 mx2-common.line-apps.com.
line.me. 180 IN MX 100 mx1-common.line-apps.com.
line.me. 180 IN MX 100 mx3-common.line-apps.com.
```

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 27598
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
line.me. 16389 IN NS ans2.linecorp.com.
line.me. 16389 IN NS ns1.naver.jp.
line.me. 16389 IN NS ns2.naver.jp.
line.me. 16389 IN NS ans1.linecorp.com.
```

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 53159
;; flags: qr rd ra; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
line.me. 60 IN TXT "facebook-domain-verification=35wnsqkbalqtxca6q5xlrxcul4qd"
line.me. 60 IN TXT "google-site-verification=Ri-G6bf49-iTkhhxR6TAWnk0_yfslPvcvsQrPa8Usvc"
line.me. 60 IN TXT "v=spf1 include:naver.com include:spf.naver.jp ip4:203.104.136.0/24 ip4:147.92.128.0/17 include:_spfblock_ext.line.me include:bulk-spf.yahoo.co.jp -all"
```

AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 37389
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
line.me. 506 IN SOA ns2.naver.jp. domain.linecorp.com. 1772595419 3533 600 604800 3600
```

RRSIG

```
ns2.naver.jp. domain.linecorp.com. 1772595419 3533 600 604800 3600
```

DNSKEY

```
;; Got answer:  
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 63556  
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1  
  
;; OPT PSEUDOSECTION:  
; EDNS: version: 0, flags:; udp: 512  
;; AUTHORITY SECTION:  
line.me. 595 IN SOA ns2.naver.jp. domain.linecorp.com. 1772595419 3533 600 604800 3600
```

DNSSEC_VALIDATION

```
; unsigned answer  
line.me. 600 IN SOA ns2.naver.jp. domain.linecorp.com. 1772595419 3533 600 604800 3600
```



```
EdSIh1IoU4r7rd/9c446ZwTbw1MUcBQJfMPg+NccmBqixD7b6QDjynCy8SIwIVbb
0615XoFYC20UgDX1b10d65pHBf9ZjQCxQnQmJYaumxtf4z1s4dfjGRzNpZ5eWL0
6r/4ngGPoJVpjemEuun1Iig423g7mNA2eymw0LIYkN5S0wCuaiFIFJ6GlazhgDEw
fpolu4usBC0mmQDo8dIm7A9+04orkjgTHY+GzYZSR+Y0ffFukAj6KYXwidLNaLFMz
hriSqHKvoflShx8xpfywgVcvzfT03PYkz6fiNJBonf6q8amaEsybwMbDqKwIX7e
SPY=
-----END CERTIFICATE-----
---
Server certificate
subject=C = JP, ST = Tokyo, L = Chiyoda-ku, O = LY Corporation, CN = *.line.me
issuer=C = BE, O = GlobalSign nv-sa, CN = GlobalSign RSA OV SSL CA 2018
---
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 3277 bytes and written 389 bytes
Verification: OK
---
New, TLSv1.3, Cipher is TLS_AES_256_GCM_SHA384
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)
```

IPV6 Connection

IP Used	2600:9000:2078:ea00:2:dc71:3640:93a1
IP Version	6

```
40473D4F1E770000:error:0A000410:SSL routines:ssl3_read_bytes:sslv3 alert handshake failure:../ssl/record/rec_layer_s3.c:1599:SSL alert number 40
CONNECTED(00000010)
---
no peer certificate available
---
No client certificate CA names sent
---
SSL handshake has read 7 bytes and written 309 bytes
Verification: OK
---
New, (NONE), Cipher is (NONE)
Secure Renegotiation IS NOT supported
Compression: NONE
Expansion: NONE
No ALPN negotiated
Early data was not sent
Verify return code: 0 (ok)
---
```


HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	200
Connected IP	18.161.179.43
Connect Time	75.98 ms
TTFB	158.87 ms
Total Time	158.98 ms

Response Headers:

```
{
  "0": "HTTP/1.1 301 Moved Permanently",
  "1": "Server: openresty",
  "2": "Date: Fri, 06 Mar 2026 09:16:28 GMT",
  "3": "Content-Type: text/html",
  "4": "Content-Length: 166",
  "5": "Connection: keep-alive",
  "6": "Location: https://www.line.me/",
  "8": "HTTP/2 302",
  "9": "server: CloudFront",
  "10": "date: Fri, 06 Mar 2026 09:16:28 GMT",
  "11": "content-length: 0",
  "12": "location: https://www.line.me/en/",
  "13": "x-cache: FunctionGeneratedResponse from cloudfront",
  "14": "via: 1.1 28ef9106fe8a06c1c6f001df5001d1ec.cloudfront.net (CloudFront)",
  "15": "x-amz-cf-pop: KUL50-P1",
  "16": "x-amz-cf-id: TP41A1d52vVguzmssdIXKu9GjnuKv4dW1NxDS0_2SrpS9H_T_KtXyQ==",
  "18": "HTTP/2 200",
  "19": "content-type: text/html",
  "20": "content-length: 36224",
  "21": "server: V05",
  "22": "date: Fri, 06 Mar 2026 09:13:03 GMT",
  "23": "x-rps-usage: 2/5454.5454545455",
  "24": "accept-ranges: bytes",
  "25": "last-modified: Tue, 26 Aug 2025 04:39:14 GMT",
  "26": "x-rgw-object-type: Normal",
  "27": "cache-control: public,max-age=300",
  "28": "x-download-bandwidth-usage: 37473/681818181.81818",
  "29": "x-upload-bandwidth-usage: 0/681818181.81818",
  "30": "strict-transport-security: max-age=15768000",
  "31": "etag: \"68a301114dc39dafa7a0d9ababb6ac22\"",
  "32": "vary: Accept-Encoding,Origin",
  "33": "x-cache: Hit from cloudfront",
  "34": "via: 1.1 28ef9106fe8a06c1c6f001df5001d1ec.cloudfront.net (CloudFront)",
  "35": "x-amz-cf-pop: KUL50-P1",
  "36": "x-amz-cf-id: Z8ufaTgQLD_3dIVr8h2IbhZ0jPIp7R2ksQm0eG_JUks6FKWPCqLRoA==",
  "37": "age: 205"
}
```

IPv6 HTTP (port 80)

HTTP Status	403
Connected IP	2600:9000:2078:ea00:2:dc71:3640:93a1
Connect Time	8.75 ms
TTFB	16.68 ms
Total Time	16.73 ms

Response Headers:

```
[
  "HTTP/1.1 403 Forbidden",
  "Server: CloudFront",
  "Date: Fri, 06 Mar 2026 09:16:27 GMT",
  "Content-Type: text/html",
  "Content-Length: 915",
  "Connection: keep-alive",
  "X-Cache: Error from cloudfront",
  "Via: 1.1 988077a6e33a5a323c517695956ab4d6.cloudfront.net (CloudFront)",
  "X-Amz-Cf-Pop: SIN2-P7",
  "X-Amz-Cf-Id: d5Q4LTKTcjK-bJLeinuE8dWUzeLVXtIvu8re3PGVc6P0Fwb9vW31rQ=="
]
```

IPv4 HTTPS (port 443)

HTTP Status	200
Connected IP	18.161.179.100
Connect Time	75.63 ms
TTFB	233.59 ms
Total Time	233.64 ms

Response Headers:

```
{
  "0": "HTTP/1.1 302 Moved Temporarily",
  "1": "Server: openresty",
  "2": "Date: Fri, 06 Mar 2026 09:16:28 GMT",
  "3": "Content-Type: text/html",
  "4": "Content-Length: 142",
  "5": "Connection: keep-alive",
  "6": "Location: https://www.line.me/en/",
  "7": "Strict-Transport-Security: max-age=43200",
  "9": "HTTP/2 200",
  "10": "content-type: text/html",
  "11": "content-length: 36224",
  "12": "server: V05",
  "13": "date: Fri, 06 Mar 2026 09:13:03 GMT",
  "14": "x-rps-usage: 2/5454.5454545455",
  "15": "accept-ranges: bytes",
  "16": "last-modified: Tue, 26 Aug 2025 04:39:14 GMT",
  "17": "x-rgw-object-type: Normal",
  "18": "cache-control: public,max-age=300",
  "19": "x-download-bandwidth-usage: 37473/681818181.81818",
  "20": "x-upload-bandwidth-usage: 0/681818181.81818",
  "21": "strict-transport-security: max-age=15768000",
  "22": "etag: \"68a301114dc39dafa7a0d9ababb6ac22\"",
  "23": "vary: Accept-Encoding,Origin",
  "24": "x-cache: Hit from cloudfront",
  "25": "via: 1.1 e8c637438fdb2c32a9a95fdb1fffc7f8.cloudfront.net (CloudFront)",
  "26": "x-amz-cf-pop: KUL50-P1",
  "27": "x-amz-cf-id: rGfq46FbNSBJpJZLEXfsf2Vg3WE1opi9NUpR7oZWiuRA1ghuyaptF0==",
  "28": "age: 205"
}
```

IPv6 HTTPS (port 443)

HTTP Status	0
Connected IP	2600:9000:2078:ea00:2:dc71:3640:93a1
Connect Time	7.42 ms
TTFB	0 ms
Total Time	15.61 ms
Error	OpenSSL/3.0.13: error:0A000410:SSL routines::sslv3 alert handshake failure

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	301 0.073629 0.147464
TCP Connect IPv6 → port 80	403 0.007131 0.014744
TCP Connect IPv4 → port 443	302 0.074032 0.229718
TCP Connect IPv6 → port 443	000 0.007699 0.000000

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
```