


IPv6 Readiness Report

youtube.com — youtube.com

Category: Streaming • Generated: 21 Apr 2026, 17:59 MYT • Last Checked: 07 Mar 2026, 01:15 MYT • Verification ID: 4b9d1ecf-4899-4350-9ba7-bbbcf07647e

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

Audit trail: <https://ipv6.my6.my/audit/4b9d1ecf-4899-4350-9ba7-bbbcf07647e>



Partially Compliant
MGv6C-1.0

87%
Partial Support

IPv6-ONLY READINESS

Website: ✓ Ready

DNS: ✓ Ready

Email: ✗ Not Ready

IPv6 ADDRESSES

- 2404:6800:4003:c01::5b
- 2404:6800:4003:c01::88
- 2404:6800:4003:c01::be
- 2404:6800:4003:c01::5d

IPv4 ADDRESSES

- 142.251.223.46

Network Information (WHOIS / RDAP)

	IPv6 Network	IPv4 Network
Organization	Google International, LLC	Google LLC
Country	AU	US
ASN	AS15169	AS15169
ASN Name	GOOGLE - Google LLC, US	GOOGLE - Google LLC, US
Network (CIDR)	2404:6800::/32	142.250.0.0/15

Web Services (35%) 8 / 8

#	CHECK	RESULT	DETAIL
1	AAAA Record	PASS	2404:6800:4003:c01::5b, 2404:6800:4003:c01::88, 2404:6800:4003:c01::be, 2404:6800:4003:c01::5d
2	Globally Routable IPv6	PASS	All addresses are globally routable.
3	HTTP over IPv6	PASS	HTTP (port 80) responds over IPv6 — 614ms TTFB.
4	HTTPS over IPv6	PASS	HTTPS (port 443) responds over IPv6 — 355ms 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 = Google Trust Services, CN = WR2, expires Apr 27 08:36:37 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%) 4 / 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)	PASS	PTR record found in ip6.arpa.
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: selector1_domainkey
7	DMARC Record	PASS	DMARC record found.

IPv4 Baseline (15%) 3 / 3

#	CHECK	RESULT	DETAIL
1	A Record	PASS	142.251.223.46
2	HTTP over IPv4	PASS	HTTP (port 80) responds over IPv4 — 429ms TTFB.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 305ms TTFB.

Audit Trail & Evidence Record

Verification ID	4b9d1ecf-4899-4350-9ba7-bbcbfc07647e
Domain	youtube.com
Check Mode	Manual
Status	Completed
Started	07 Mar 2026, 01:15:18 MYT
Finished	07 Mar 2026, 01:15:46 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/4b9d1ecf-4899-4350-9ba7-bbcbfc07647e

Integrity Verification

✓ INTEGRITY VERIFIED	
Algorithm	hmac-sha256-v1
Root Hash	6e3635a7467bb8833def18ef4746ec54d54ee7d7a549c56c57e123e47581f7aa
http_headers	9d21c969ea81bb8d0971eea96f25d3a9262f189b13e601164fd7708007a1848a
dns_responses	c44481f21021bd23045d8d1d1bd67c9d6fe0acca549b0e3f64f7e4853797028e
tls_handshake	e88d59e8f949d0049fee89a63527e2381603541bff1b76a4d345a35063ee017c
connectivity_log	a05f3653038893cc57527e029d96ef49fc93cbfd5734440c768021bcb0d925b8
dns_resolution_times	6be0076945ed74305cd587ca96df7b09fee72244f02819f7978a39a55abcfa45

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	5.97	16.66	6.82	8.18	+0.9
Google	IPv4	26.03	26.13	17.98	27.16	-8.1
Google	IPv6	25.48	26.94	30.12	33.72	+4.6
Cloudflare	IPv4	8.86	17.34	17.02	20.62	+8.2
Cloudflare	IPv6	19.93	26.23	14	16.01	-5.9

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 55464
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
youtube.com. 300 IN A 172.217.25.142
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 21413
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
com. 312 IN SOA a.gtld-servers.net. nstld.verisign-grs.com. 1772787931 1800 900 604800 900
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 18971
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
youtube.com. 300 IN MX 0 smtp.google.com.
```

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 15484
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
youtube.com. 16392 IN NS ns2.google.com.
youtube.com. 16392 IN NS ns4.google.com.
youtube.com. 16392 IN NS ns3.google.com.
youtube.com. 16392 IN NS ns1.google.com.
```

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 41190
;; flags: qr rd ra; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
youtube.com. 3600 IN TXT "google-site-verification=QtQWEwHWM8tHiJ4s-jJwzEQrD_ff3luPnpzNDH-Nw-w"
youtube.com. 3600 IN TXT "v=spf1 include:google.com mx -all"
youtube.com. 3600 IN TXT "facebook-domain-verification=64jdes7le4h7e7lfp122rjygx58j1"
```

AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 61424
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
youtube.com. 300 IN AAAA 2404:6800:4001:812::200e
```

RRSIG

```
ns1.google.com. dns-admin.google.com. 879012124 900 900 1800 60
```

DNSKEY

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

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
youtube.com. IN SOA ns1.google.com. dns-admin.google.com. 879012124 900 900 1800 60
```

DNSSEC_VALIDATION

```
; unsigned answer
youtube.com. IN SOA ns1.google.com. dns-admin.google.com. 879012124 900 900 1800 60
```


TLS Handshake Evidence

IPV4 Connection

IP Used	142.251.223.46
IP Version	4

```

depth=2 C = US, O = Google Trust Services LLC, CN = GTS Root R1
verify return:1
depth=1 C = US, O = Google Trust Services, CN = WR2
verify return:1
depth=0 CN = *.google.com
verify return:1
CONNECTED(00000010)
...
Certificate chain
0 s:CN = *.google.com
i:C = US, O = Google Trust Services, CN = WR2
a:PKKEY: id-ecPublicKey, 256 (bit); sigalg: RSA-SHA256
v:NotBefore: Feb 2 08:36:38 2026 GMT; NotAfter: Apr 27 08:36:37 2026 GMT
-----BEGIN CERTIFICATE-----
MIIONTCDR2gAwIBAgIRALJP+TqZdfpnCkKwE86zGUWdQYJKoZIhvcNAQELBQAw
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BiouZy5jb0IEZy5jb4IGKi5nLmNvvggZnb28uZ2yCCnd3dy5nb28uZ2yCFGdv2ds
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Z3B0dC5jb0IKKi5nZ3B0dC5jb0IKdXJjaGlLmNvbYIIMKi51cmNoaW4uY29tgggh
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```



```

"38": "HTTP/2 200",
"39": "content-type: text/html; charset=utf-8",
"40": "x-content-type-options: nosniff",
"41": "cache-control: no-cache, no-store, max-age=0, must-revalidate",
"42": "pragma: no-cache",
"43": "expires: Mon, 01 Jan 1990 00:00:00 GMT",
"44": "date: Fri, 06 Mar 2026 09:15:43 GMT",
"45": "content-length: 0",
"46": "x-frame-options: SAMEORIGIN",
"47": "strict-transport-security: max-age=31536000",
"48": "cross-origin-opener-policy: same-origin-allow-popups; report-to=\"youtube_main\"",
"49": "permissions-policy: ch-ua-arch=*, ch-ua-bitness=*, ch-ua-full-version=*, ch-ua-full-version-list=*, ch-ua-model=*, ch-ua-wow64=*, ch-ua-form-factors=*,
ch-ua-platform=*, ch-ua-platform-version=*",
"50": "content-security-policy: require-trusted-types-for 'script'",
"51": "content-security-policy-report-only: report-uri https://csp.withgoogle.com/csp/youtube_main/strict;base-uri 'self';object-src 'none';script-src 'report-
sample' 'nonce-57BhFBC-yfoMh4rf5VzdBw' 'unsafe-inline' 'strict-dynamic' https: http: 'unsafe-eval'",
"52": "accept-ch: Sec-CH-Viewport-Width, Sec-CH-DPR, Device-Memory",
"53": "vary: Sec-CH-Viewport-Width, Sec-CH-DPR, Device-Memory",
"54": "report-to: {\"group\": \"youtube_main\", \"max_age\": 2592000, \"endpoints\": [{\"url\": \"https://csp.withgoogle.com/csp/report-to/youtube_main\"}]}",
"55": "origin-trial:
AmhMBR6zCLzDDxpW+HfpP67BqWIkNwYMOX0Q6fzYswFmJe+fgaI6XZgAzcx0rNtP7hEDs0o1jdJfNvR2IdXQ4AAAB4eyJvcmlnaW4iOiJodHRwczovL3lvdXRlYmUuY29tOj00MyIsImZlYXRlcmUiOiJlZDZpY2VhZC3VjZmVFNlcnNpb250
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"57": "reporting-endpoints: default=\"/web-reports?context=eJwZG1lWccxvH-
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kGyazDHU5huZcQ2C1Yw6e4XCxIaXMM8KLNufCsP2JkPyDk0LlbbTKLrHcKN4E8PXL964V5sqH3ixruYlHBTdX20qth0wReReEtt0V0XBpVUM4uLY8Wl68uaIwI5KxJLIosnhBZGhzcL_ApuP1NI\"",
"58": "document-policy: include-js-call-stacks-in-crash-reports",
"59": "p3p: CP=\"This is not a P3P policy! See http://support.google.com/accounts/answer/151657?hl=ms for more info.\"",
"60": "server: ESF",
"61": "x-xss-protection: 0",
"62": "set-cookie: GPS=1; Domain=.youtube.com; Expires=Fri, 06-Mar-2026 09:45:43 GMT; Path=/; Secure; HttpOnly",
"63": "set-cookie: YSC=cJ36TLbnJfQ; Domain=.youtube.com; Path=/; Secure; HttpOnly; SameSite=none",
"64": "set-cookie: __Secure-ROUOUT_TOKEN=CPn-3qvBr_yjcxDUsp7794qTAXjUsp7794qTAW%3D%3D; Domain=youtube.com; Expires=Wed, 02-Sep-2026 09:15:43 GMT; Path=/;
Secure; HttpOnly; SameSite=none; Partitioned",
"65": "set-cookie: __Secure-YEC=; Domain=.youtube.com; Expires=Sat, 10-Jun-2023 09:15:43 GMT; Path=/; Secure; HttpOnly; SameSite=lax",
"66": "set-cookie: VISITOR_INFO_LIVE=cWzh2BaA8As; Domain=.youtube.com; Expires=Wed, 02-Sep-2026 09:15:43 GMT; Path=/; Secure; HttpOnly; SameSite=none",
"67": "set-cookie: VISITOR_PRIVACY_METADATA=CgJNRWIEGgAgTg%3D%3D; Domain=.youtube.com; Expires=Wed, 02-Sep-2026 09:15:43 GMT; Path=/; Secure; HttpOnly;
SameSite=none",
"68": "alt-svc: h3=\":443\"; ma=2592000,h3-29=\":443\"; ma=2592000"
}

```

IPv4 HTTPS (port 443)

HTTP Status	200
Connected IP	172.217.25.238
Connect Time	2.9 ms
TTFB	395.39 ms
Total Time	396.34 ms

Response Headers:

```

{
"0": "HTTP/2 301",
"1": "content-type: application/binary",
"2": "x-content-type-options: nosniff",
"3": "expires: Fri, 06 Mar 2026 09:15:46 GMT",
"4": "date: Fri, 06 Mar 2026 09:15:46 GMT",
"5": "cache-control: private, max-age=31536000",
"6": "location: https://www.youtube.com/",
"7": "content-length: 0",
"8": "p3p: CP=\"This is not a P3P policy! See g.co/p3phelp for more info.\"",
"9": "strict-transport-security: max-age=31536000; includeSubDomains; preload",
"10": "x-frame-options: SAMEORIGIN",
"11": "permissions-policy: ch-ua-arch=*, ch-ua-bitness=*, ch-ua-full-version=*, ch-ua-full-version-list=*, ch-ua-model=*, ch-ua-wow64=*, ch-ua-form-factors=*,
ch-ua-platform=*, ch-ua-platform-version=*",
"12": "content-security-policy-report-only: report-uri https://csp.withgoogle.com/csp/youtube_main/strict;base-uri 'self';object-src 'none';script-src 'report-
sample' 'nonce-16pKMq_bIZgMcpKYGnAKoQ' 'unsafe-inline' 'strict-dynamic' https: http: 'unsafe-eval'",
"13": "content-security-policy: require-trusted-types-for 'script'",
"14": "origin-trial:
AmhMBR6zCLzDDxpW+HfpP67BqWIkNwYMOX0Q6fzYswFmJe+fgaI6XZgAzcx0rNtP7hEDs0o1jdJfNvR2IdXQ4AAAB4eyJvcmlnaW4iOiJodHRwczovL3lvdXRlYmUuY29tOj00MyIsImZlYXRlcmUiOiJlZDZpY2VhZC3VjZmVFNlcnNpb250
A1DEBptUfVe093q48VdVMe/ubupazdA18AaHP+NBzdnw8quUchDzJUyGSfmrtpKJu7E0vwrP9ug2rEo3XU+WMMAAAB2eyJvcmlnaW4iOiJodHRwczovL3lvdXRlYmUuY29tOj00MyIsImZlYXRlcmUiOiJlZDZpY2VhZC3VjZmVFNlcnNpb250
"15": "origin-trial:

```

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
```