


IPv6 Readiness Report

youtube.com — youtube.com



Scan to verify

Category: Streaming • Generated: 04 Jul 2026, 22:18 MYT • Last Checked: 04 Jul 2026, 03:23 MYT • Verification ID: 9f087efe-a9f3-4420-8425-cf6f9d7d593b
Report generated from National IPv6 Readiness Monitor — <https://ipv6.my6.my>
Audit trail: <https://ipv6.my6.my/audit/9f087efe-a9f3-4420-8425-cf6f9d7d593b>

 Partially Compliant <small>MGv6C-1.0</small>	87% Partial Support	IPV6-ONLY READINESS Website: ✓ Ready DNS: ✓ Ready Email: ✗ Not Ready
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IPV6 ADDRESSES 2404:6800:4001:811::200e	IPV4 ADDRESSES 172.217.25.238
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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	172.217.0.0/16

Web Services (35%)				8 / 8
#	CHECK	RESULT	DETAIL	
1	AAAA Record	PASS	2404:6800:4001:811::200e	
2	Globally Routable IPv6	PASS	All addresses are globally routable.	
3	HTTP over IPv6	PASS	HTTP (port 80) responds over IPv6 — 386ms TTFB.	
4	HTTPS over IPv6	PASS	HTTPS (port 443) responds over IPv6 — 330ms 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 Aug 31 08:36:03 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.	
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: selector1_domainkey
7	DMARC Record	PASS	DMARC record found.

IPv4 Baseline (15%) 3 / 3

#	CHECK	RESULT	DETAIL
1	A Record	PASS	172.217.25.238
2	HTTP over IPv4	PASS	HTTP (port 80) responds over IPv4 — 289ms TTFB.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 284ms TTFB.

Audit Trail & Evidence Record

Verification ID	9f087efe-a9f3-4420-8425-cf6f9d7d593b
Domain	youtube.com
Check Mode	Scheduled
Status	Completed
Started	04 Jul 2026, 03:23:24 MYT
Finished	04 Jul 2026, 03:23:52 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/9f087efe-a9f3-4420-8425-cf6f9d7d593b

Integrity Verification

✓ INTEGRITY VERIFIED	
Algorithm	hmac-sha256-v1
Root Hash	e9382443b15e63c85542448cb40bc638599b03cec2cc666f93db6be0f05b21e8
http_headers	feaed7cef1b64e9a81e67ec6f528dedf50aa1c1084b2250786aecbe83be7bc87
dns_responses	44eb70b366e18b1131df04331dac9734406a46a773138108361089ff4dffcded
tls_handshake	ec638274816e7f7d3e3c9975037a8414992ccf264bc957ed2a5fe38583e4e59d
connectivity_log	8c3e66f3616e8afa4e5caf778b6a833fb2911e23718e2b56906cddf95a7aa905
dns_resolution_times	923923ec04c230edf7c89cd10276d89305d8b221cf4509ba67b67965073dda13

Test Node Identity

Os	Linux srv1440888 6.8.0-124-generic #124-Ubuntu SMP PREEMPT_DYNAMIC Tue May 26 13:00:45 UTC 2026 x86_64
Hostname	srv1440888
Php Version	8.3.32
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	21.86	23.3	24.05	30.75	+2.2
Google	IPv4	36.78	42.51	33.99	37.05	-2.8
Google	IPv6	33.67	40.23	35.44	38.84	+1.8
Cloudflare	IPv4	15.65	18.84	25.52	27.73	+9.9
Cloudflare	IPv6	17.59	27.54	35.18	48.25	+17.6

DNS Evidence

A

```
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 46390
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
youtube.com. 300 IN A 172.217.25.46
```

DS

```
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 22025
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
com. 876 IN SOA a.gtld-servers.net. nstld.verisign-grs.com. 1783106591 1800 900 604800 900
```

MX

```
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 62967
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
youtube.com. 300 IN MX 0 smtp.google.com.
```

NS

```
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 29205
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
youtube.com. 86400 IN NS ns3.google.com.
youtube.com. 86400 IN NS ns2.google.com.
youtube.com. 86400 IN NS ns1.google.com.
youtube.com. 86400 IN NS ns4.google.com.
```

TXT

```
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 26727
;; flags: qr rd ra; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
youtube.com. 3600 IN TXT "v=spf1 include:google.com mx -all"
youtube.com. 3600 IN TXT "facebook-domain-verification=64jdes7le4h7e7lfp122rijygx58j1"
youtube.com. 3600 IN TXT "google-site-verification=QtQWEwHWM8thiJ4s-jJWzEQrD_ff3luPnpzNDH-Nw-w"
```

AAAA

```
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 32477
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
youtube.com. 300 IN AAAA 2404:6800:4001:80d::200e
```

RRSIG

```
ns1.google.com. dns-admin.google.com. 942063489 900 900 1800 60
```

DNSKEY

```
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 43686
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
youtube.com. IN SOA ns1.google.com. dns-admin.google.com. 941597627 900 900 1800 60
```

DNSSEC_VALIDATION

```
; unsigned answer
youtube.com. IN SOA ns1.google.com. dns-admin.google.com. 942063489 900 900 1800 60
```



```
+MGr+XgvSszYhaLYWtW00xj7sFUKDSbutltkdnwUxy96zqhMt/TZCPzfhyM1IKji
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-----END CERTIFICATE-----
2 s:C = US, 0 = Google Trust Services LLC, CN = GTS Root R1
i:C = BE, 0 = GlobalSign nv-sa, OU = Root CA, CN = GlobalSign Root CA
a:PKKEY: rsaEncryption, 4096 (bit); sigalg: RSA-SHA256
v:NotBefore: Jun 19 00:00:42 2020 GMT; NotAfter: Jan 28 00:00:42 2028 GMT
-----BEGIN CERTIFICATE-----
MIIFYjCBEqAwIBAgIQd70NbNs2+RrQIQ/E8fJTDtANBgkqhkiG9w0BAQsFADBX
```

IPv6 Connection

IP Used	2404:6800:4001:811::200e
IP Version	6

```
depth=2 C = US, 0 = Google Trust Services LLC, CN = GTS Root R1
verify return:1
depth=1 C = US, 0 = 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, 0 = Google Trust Services, CN = WR2
a:PKKEY: id-ecPublicKey, 256 (bit); sigalg: RSA-SHA256
v:NotBefore: Jun 8 08:36:04 2026 GMT; NotAfter: Aug 31 08:36:03 2026 GMT
-----BEGIN CERTIFICATE-----
MIICzCCB1ugAwIBAgIQdMwNcEzq9kKdvokUeT77zANBgkqhkiG9w0BAQsFADA7
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```

```

dC5iZYIHKi55dC5iZYIaYw5kcm9pZC5jbGllbnRzLmdvb2dsZS5jb22CFSouYwLz
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Y+e/Ix3HLA=
-----END CERTIFICATE-----
1 s:C = US, 0 = Google Trust Services, CN = WR2
i:C = US, 0 = Google Trust Services LLC, CN = GTS Root R1
a:PKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA256
v:NotBefore: Dec 13 09:00:00 2023 GMT; NotAfter: Feb 20 14:00:00 2029 GMT
-----BEGIN CERTIFICATE-----
MIIFC2CCAvOgAwIBAgIQf/AFoHxM3tEarZ1mpRB7mDANBgkqhkiG9w0BAQsFADBH
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/oTxUFQ0L2stKnn7QGTq8z29W+GgBLXSBxC9epaHM0myFH/FJlniXJfHeytWt0=
-----END CERTIFICATE-----
2 s:C = US, 0 = Google Trust Services LLC, CN = GTS Root R1
i:C = BE, 0 = GlobalSign nv-sa, OU = Root CA, CN = GlobalSign Root CA
a:PKEY: rsaEncryption, 4096 (bit); sigalg: RSA-SHA256
v:NotBefore: Jun 19 00:00:42 2020 GMT; NotAfter: Jan 28 00:00:42 2028 GMT
-----BEGIN CERTIFICATE-----
MIIFYjCCBEqgAwIBAgIQd70NbNs2+RrqIQ/E8fJTDANBgkqhkiG9w0BAQsFADBX

```



```

"51": "set-cookie: YSC=mQ-M-z95Tpw; Domain=.youtube.com; Path=/; Secure; HttpOnly; SameSite=none",
"52": "set-cookie: __Secure-ROLLOUT_TOKEN=C070kbSihMt8EJ609eqdt5UDGJ609eqdt5UD; Domain=youtube.com; Expires=Wed, 30-Dec-2026 19:23:51 GMT; Path=/; Secure; HttpOnly; SameSite=none; Partitioned",
"53": "set-cookie: __Secure-YEC=; Domain=.youtube.com; Expires=Sat, 07-Oct-2023 19:23:51 GMT; Path=/; Secure; HttpOnly; SameSite=lax",
"54": "set-cookie: VISITOR_INFO_LIVE=aBsp6iLia7k; Domain=.youtube.com; Expires=Wed, 30-Dec-2026 19:23:51 GMT; Path=/; Secure; HttpOnly; SameSite=none",
"55": "set-cookie: VISITOR_PRIVACY_METADATA=CgJNWRIEgAgPQ%3D%3D; Domain=.youtube.com; Expires=Wed, 30-Dec-2026 19:23:51 GMT; Path=/; Secure; HttpOnly; SameSite=none",
"56": "alt-svc: h3=\":443\"; ma=2592000,h3-29=\":443\"; ma=2592000"
    }
    
```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	301 0.003869 0.019240
TCP Connect IPv6 → port 80	301 0.002449 0.032428
TCP Connect IPv4 → port 443	301 0.003715 0.058267
TCP Connect IPv6 → port 443	301 0.002095 0.068220

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
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
    
```