

# IPv6 Readiness Report

whatsapp.com — whatsapp.com




Scan to verify

Category: Social Media • Generated: 04 Jul 2026, 22:39 MYT • Last Checked: 04 Jul 2026, 03:25 MYT • Verification ID: 4b477c98-d029-42b9-b1ac-bf38b02b1908

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

Audit trail: <https://ipv6.my6.my/audit/4b477c98-d029-42b9-b1ac-bf38b02b1908>

 <b>Partially Compliant</b> <small>MGv6C-1.0</small>	<b>83%</b> <b>Partial Support</b>	<b>IPv6-ONLY READINESS</b> Website: ✓ <b>Ready</b> DNS: ✓ <b>Ready</b> Email: ✗ <b>Not Ready</b>
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<b>IPv6 ADDRESSES</b> 2a03:2880:f34c:120:face:b00c::167	<b>IPv4 ADDRESSES</b> 57.144.79.32
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## Network Information (WHOIS / RDAP)

	IPv6 Network	IPv4 Network
Organization	meta-mnt	meta-mnt
Country	IE	IE
ASN	AS32934	AS32934
ASN Name	FACEBOOK - Facebook, Inc., US	FACEBOOK - Facebook, Inc., US
Network (CIDR)	2a03:2880::/29	57.141.0.0/16

Web Services (35%)				8 / 8
#	CHECK	RESULT	DETAIL	
1	AAAA Record	PASS	2a03:2880:f34c:120:face:b00c::167	
2	Globally Routable IPv6	PASS	All addresses are globally routable.	
3	HTTP over IPv6	PASS	HTTP (port 80) responds over IPv6 — 968ms TTFB.	
4	HTTPS over IPv6	PASS	HTTPS (port 443) responds over IPv6 — 924ms 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 = DigiCert Inc, CN = DigiCert Global G2 TLS RSA SHA256 2020 CA1, expires Jul 11 23:59:59 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	<b>Signing Algorithm</b>	<b>INFO</b>	No DNSKEY record found.

**Email Services** (25%) 3 / 6

#	CHECK	RESULT	DETAIL
1	<b>MX Record Exists</b>	<b>PASS</b>	MX record found.
2	<b>MX Server Has IPv6</b>	<b>FAIL</b>	MX server has no IPv6 address.
3	<b>SMTP Reachable via IPv6</b>	<b>FAIL</b>	SMTP is not reachable over IPv6.
4	<b>STARTTLS over IPv6</b>	<b>FAIL</b>	STARTTLS not available over IPv6.
5	<b>SPF Record</b>	<b>PASS</b>	SPF record found.
6	<b>DKIM Selector</b>	<b>INFO</b>	DKIM selector found: google._domainkey
7	<b>DMARC Record</b>	<b>PASS</b>	DMARC record found.

**IPv4 Baseline** (15%) 3 / 3

#	CHECK	RESULT	DETAIL
1	<b>A Record</b>	<b>PASS</b>	57.144.79.32
2	<b>HTTP over IPv4</b>	<b>PASS</b>	HTTP (port 80) responds over IPv4 — 1759ms TTFB.
3	<b>HTTPS over IPv4</b>	<b>PASS</b>	HTTPS (port 443) responds over IPv4 — 1095ms TTFB.

### Audit Trail & Evidence Record

Verification ID	4b477c98-d029-42b9-b1ac-bf38b02b1908
Domain	whatsapp.com
Check Mode	Scheduled
Status	Completed
Started	04 Jul 2026, 03:25:13 MYT
Finished	04 Jul 2026, 03:25:33 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/4b477c98-d029-42b9-b1ac-bf38b02b1908

### Integrity Verification

**✓ INTEGRITY VERIFIED**

Algorithm	hmac-sha256-v1
Root Hash	44a2e870b8ee35053ae7adda6cae8e69780b0c5c2fc9551915d53687f3f8ab16
http_headers	5f56d30a41f363553b38cf4eeab961d349aef352bb8608f6312362de888eab10
dns_responses	19254c36841d77c067ccac723d14bc31c1f103e81fd94496274e03831e14d906
tls_handshake	72e0ce93dd98afb4a34c779b3700b2310ca6dd2196abc25ec0d4a1bee1e88d0a
connectivity_log	44eb3aaa081fe28f000f51b11aa9155b13db13ab2daf386a2f700b3905420e18
dns_resolution_times	30cc68deb21f04718593f8466223d2af6adcb6746871e04e4cc48ac82fd61562

### 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	24.76	30.16	31.07	39.13	+6.3
Google	IPv4	31.14	43.34	42.05	42.3	+10.9
Google	IPv6	28.72	44.12	39.06	44.34	+10.3
Cloudflare	IPv4	16.89	25.25	31.99	33.3	+15.1
Cloudflare	IPv6	26.1	27.1	27.8	29.57	+1.7



## DNS Evidence

### A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 51176
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
whatsapp.com. 00600IN A 163.70.132.60
```

### DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 61415
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
com. 008900IN SOA a.gtld-servers.net. nstld.verisign-grs.com. 1783106701 1800 900 604800 900
```

### MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 8921
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
whatsapp.com. 007200IN MX 10 mxa-00082601.gslb.pphosted.com.
whatsapp.com. 007200IN MX 10 mxb-00082601.gslb.pphosted.com.
```

### NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 29029
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
whatsapp.com. 0086400IN NS a.ns.whatsapp.net.
whatsapp.com. 0086400IN NS b.ns.whatsapp.net.
whatsapp.com. 0086400IN NS d.ns.whatsapp.net.
whatsapp.com. 0086400IN NS c.ns.whatsapp.net.
```

### TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 61850
;; flags: qr rd ra; QUERY: 1, ANSWER: 9, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
whatsapp.com. 003600IN TXT "adobe-idp-site-verification=a0d9793b-fc40-430b-9ab4-d3c75e4dcfba"
whatsapp.com. 007200IN TXT "v=spf1 include:_spf.fb.com include:facebookmail.com -all"
whatsapp.com. 003600IN TXT "dropbox-domain-verification=l fq0e9x85s8s"
whatsapp.com. 003600IN TXT "bFwLY7J2JzFYHw5qkQFcBD6E0r9JL4VBpYSXSk3p8lA"
whatsapp.com. 003600IN TXT "google-site-verification=MXbDGih8wW-64G5maXGw8iIkFbH7iv_vLobZd-kxdNo"
whatsapp.com. 003600IN TXT "b42e0aa4-9d21-4a73-a111-fba236f1a835"
whatsapp.com. 003600IN TXT "facebook-domain-verification=ziojpt80hl1748lx6agku0kpttifb2"
whatsapp.com. 003600IN TXT "MS=ms22994725"
whatsapp.com. 003600IN TXT "Ghm7XCdpYQeendZSepA800BAhbN9sfITvUxy9FND0GBxeAQICcmLbuXm23hNaysns+wZ6GskJWMtWD1/Ha9Q=="
```

### AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 29217
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
```

```
whatsapp.com.00600INAAAA2a03:2880:f27f:c2:face:b00c:0:167
```

**RRSIG**

```
a.ns.whatsapp.net. dns.whatsapp.net. 4207849484 14400 1800 604800 300
```

**DNSKEY**

```
;; Got answer:  
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 28423  
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1  
  
;; OPT PSEUDOSECTION:  
; EDNS: version: 0, flags:; udp: 1232  
;; AUTHORITY SECTION:  
whatsapp.com.002900INSOAa.ns.whatsapp.net. dns.whatsapp.net. 4207849484 14400 1800 604800 300
```

**DNSSEC\_VALIDATION**

```
; unsigned answer  
whatsapp.com.0035900INSOAa.ns.whatsapp.net. dns.whatsapp.net. 4207849484 14400 1800 604800 300
```



TLS Handshake Evidence

IPV4 Connection

IP Used	57.144.79.32
IP Version	4

```

depth=2 C = US, O = DigiCert Inc, OU = www.digicert.com, CN = DigiCert Global Root G2
verify return:1
depth=1 C = US, O = DigiCert Inc, CN = DigiCert Global G2 TLS RSA SHA256 2020 CA1
verify return:1
depth=0 C = US, ST = California, L = Menlo Park, O = "Meta Platforms, Inc.", CN = *.whatsapp.net
verify return:1
CONNECTED(00000010)
...
Certificate chain
0 s:C = US, ST = California, L = Menlo Park, O = "Meta Platforms, Inc.", CN = *.whatsapp.net
i:C = US, O = DigiCert Inc, CN = DigiCert Global G2 TLS RSA SHA256 2020 CA1
a:PKEY: id-ecPublicKey, 256 (bit); sigalg: RSA-SHA256
v:NotBefore: Apr 12 00:00:00 2026 GMT; NotAfter: Jul 11 23:59:59 2026 GMT
-----BEGIN CERTIFICATE-----
MIIGYjCCBUqgAwIBAgIQAA4F+ahylcshK/NgIl1pljTANBgkqhkiG9w0BAQsFADBD
MQswCQYDVQQGEwJVUzEVMBMGA1UEChMMRGlnaUNlcnQgSW5jMTMwMQYDVQQLZDQyYy
awdpQ2VydCBHbG9iYXVwRzIgeVExTIFJTQSBTSEYNTYGMjA5MjB0QTEwHhcnMjYw
NDEYMDAwMDAwHhcnMjYwNzExMjM0TU5jYVBMQSwCQYDVQQGEwJVUzETMBEGA1UE
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YSBQbGF0Zm9ybXMsIEluYy4xZmFzAVBGNVBMAMDIoud2hhdHNhcHAubmV0MFkwEwYH
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d2hhdHNhcHAubmV0ghIqLnNuci53aGF0c2FwcC5uZXSCDIoud2hhdHNhcHAuY29t
ggV3Y5StZYIMd2hhdHNhcHAuY29tggx3aGF0c2FwcC5uZXQwPgYDVR0BGDcwNTAz
BgZngQwBAgIwKTAnBggRbgEFBQcCARYbaHR0cDovL3d3dy5kaWdpY2VydC5jb20v
Q1BTMA4GA1UdDwEB/wQEAwIDiDATBgNVHSUEDDAKBggRbgEFBQcDATCbnwYDVR0f
BIGXMIIGeUmeRqBEhkJodHRwOi8vY3J5M5kaWdpY2VydC5jb20vRGlnaUNlcnRb
bG9iYXVwHMLRMU1JTV0NIQT1NjIwMjBDQTEtMS5jcmwSKBGoESG0mh0dHA6Ly9j
cmw0LmRpZ2ZlZjZlZj0LmNvbS9EaWdpQ2VydEdsb2JhbEcyVExTUlnBU0hBMjU2MjAy
MENBMS0xLmNybDcBhwYIKwYBBQUHAQEeZB5MC0GCCsGAQUFBzABhhodHRwOi8v
b2NzcC5kaWdpY2VydC5jb20wYUkYIKwYBBQUHMAKGRWh0dHA6Ly9jYWNlcnRzLmRp
Z2ZlZjZlZj0LmNvbS9EaWdpQ2VydEdsb2JhbEcyVExTUlnBU0hBMjU2MjAyMENBMS0x
LmNydDAMBGNVHRMBAf8EAjAAMIIBfAYKkYBBAHwEQIEAgSCAWwEgFoAWYAdQDC
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F8D1xwL3AAABnX9EJfgAAADAEYwRAIu7Lq2TY5LKUojuvplRGkWBKS9aaMbyFt
czVwiMJHSBsCIeZ7AV1LTa0PA94q+u3+kiFfLhxa3Ye3+6CJ2bEoZr/DAHYA1E5D
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KEPGiYhiKwIaT9/A49kiuTp1XZy9UPk1/zN007P54c1lvzjenLR15ka7TtUNjJsk
b9eLXmrH
-----END CERTIFICATE-----
1 s:C = US, O = DigiCert Inc, CN = DigiCert Global G2 TLS RSA SHA256 2020 CA1
i:C = US, O = DigiCert Inc, OU = www.digicert.com, CN = DigiCert Global Root G2
a:PKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA256
v:NotBefore: Mar 30 00:00:00 2021 GMT; NotAfter: Mar 29 23:59:59 2031 GMT
-----BEGIN CERTIFICATE-----
MIIEYDCCA7CgAwIBAgIQDPW9BItWAvR6uFAsI8zwZjANBgkqhkiG9w0BAQsFADBD
MQswCQYDVQQGEwJVUzEVMBMGA1UEChMMRGlnaUNlcnQgSW5jMRkwFwYDVQQLZDExB3
d3cuZGlnaUNlcnQyY29tMSAwHGMwYDQgExdEawdpQ2VydCBHbG9iYXVwUm9vdCBH
MjA5MjB0QTEwHhcnMjYwNDEYMDAwMDAwHhcnMjYwNzExMjM0TU5jYVBMQSwCQYDV
QQGEwJVUzETMBEGA1UEBxMKTWVubG8gUGFyZEdMBsGA1UEChMUTW0wYSBQbGF0Zm
9ybXMsIEluYy4xZmFzAVBGNVBMAMDIoud2hhdHNhcHAubmV0MFkwEwYHKOZlZj0
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BAf8CAQAwHQYDVROBBYEFH5FgMBmx9833s+9KTeqAx2+7c0XMB8G A1UdIwQYMBa
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VcAYLejbYUv+vg5Eu0GF485MA4GA1UdDwEB/wQEAwIBhJAdEwEB/wQIMAYBAf8CAQ
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LmRpZ2ZlZjZlZj0LmNvbS9EaWdpQ2VydEdsb2JhbEcyVExTUlnBU0hBMjU2MjAy
MENBMS0xLmNybDcBhwYIKwYBBQUHAQEeZB5MC0GCCsGAQUFBzABhhodHRwOi8v
b2NzcC5kaWdpY2VydC5jb20wYUkYIKwYBBQUHMAKGRWh0dHA6Ly9jYWNlcnRzLmRp
Z2ZlZjZlZj0LmNvbS9EaWdpQ2VydEdsb2JhbEcyVExTUlnBU0hBMjU2MjAyMENBMS
0xLmNybDcBhwYIKwYBBQUHAQEeZB5MC0GCCsGAQUFBzABhhodHRwOi8vY3J5M5ka
WdpY2VydC5jb20wYUkYIKwYBBQUHMAKGRWh0dHA6Ly9jYWNlcnRzLmRpZ2ZlZjZl
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DcBhwYIKwYBBQUHAQEeZB5MC0GCCsGAQUFBzABhhodHRwOi8vY3J5M5kaWdpY2V
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vbS9EaWdpQ2VydEdsb2JhbEcyVExTUlnBU0hBMjU2MjAyMENBMS0xLmNybDcBhwY
IKwYBBQUHAQEeZB5MC0GCCsGAQUFBzABhhodHRwOi8vY3J5M5kaWdpY2VydC5jb2
0wYUkYIKwYBBQUHMAKGRWh0dHA6Ly9jYWNlcnRzLmRpZ2ZlZjZlZj0LmNvbS9Ea
WdpQ2VydEdsb2JhbEcyVExTUlnBU0hBMjU2MjAyMENBMS0xLmNybDcBhwYIKwYBB
QUHAQEeZB5MC0GCCsGAQUFBzABhhodHRwOi8vY3J5M5kaWdpY2VydC5jb20wYUkY
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GCCsGAQUFBzABhhodHRwOi8vY3J5M5kaWdpY2VydC5jb20wYUkYIKwYBBQUHMAK
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VExTUlnBU0hBMjU2MjAyMENBMS0xLmNybDcBhwYIKwYBBQUHAQEeZB5MC0GCCsGA
QUFBzABhhodHRwOi8vY3J5M5kaWdpY2VydC5jb20wYUkYIKwYBBQUHMAKGRWh0d
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BU0hBMjU2MjAyMENBMS0xLmNybDcBhwYIKwYBBQUHAQEeZB5MC0GCCsGAQUFBzAB
hhodHRwOi8vY3J5M5kaWdpY2VydC5jb20wYUkYIKwYBBQUHMAKGRWh0dHA6Ly9j
YWNlcnRzLmRpZ2ZlZjZlZj0LmNvbS9EaWdpQ2VydEdsb2JhbEcyVExTUlnBU0hBM
jU2MjAyMENBMS0xLmNybDcBhwYIKwYBBQUHAQEeZB5MC0GCCsGAQUFBzABhhodHR
wOi8vY3J5M5kaWdpY2VydC5jb20wYUkYIKwYBBQUHMAKGRWh0dHA6Ly9jYWNlcnR
zLmRpZ2ZlZjZlZj0LmNvbS9EaWdpQ2VydEdsb2JhbEcyVExTUlnBU0hBMjU2MjAy
MENBMS0xLmNybDcBhwYIKwYBBQUHAQEeZB5MC0GCCsGAQUFBzABhhodHRwOi8vY3
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### HTTP Response Evidence

#### IPv4 HTTP (port 80)

HTTP Status	200
Connected IP	57.144.153.32
Connect Time	256.03 ms
TTFB	993.99 ms
Total Time	994.16 ms

#### Response Headers:

```
{
  "0": "HTTP/1.1 301 Moved Permanently",
  "1": "Location: https://whatsapp.com/",
  "2": "Content-Type: text/plain",
  "3": "Server: proxygen-bolt",
  "4": "Date: Fri, 03 Jul 2026 19:25:30 GMT",
  "5": "Connection: keep-alive",
  "6": "Content-Length: 0",
  "8": "HTTP/2 302",
  "9": "location: https://www.whatsapp.com/",
  "10": "strict-transport-security: max-age=31536000; preload; includeSubDomains",
  "11": "content-type: text/plain",
  "12": "content-length: 0",
  "13": "server: proxygen-bolt",
  "14": "date: Fri, 03 Jul 2026 19:25:30 GMT",
  "15": "x-fb-connection-quality: EXCELLENT; q=0.9, rtt=7, rtx=0, c=13, mss=1380, tbw=3510, tp=-1, tpl=-1, uplat=0, ullat=-1",
  "16": "alt-svc: h3=\":443\"; ma=86400",
  "18": "HTTP/2 200",
  "19": "vary: Accept-Encoding",
  "20": "set-cookie: wa_csrf=Pa80w65aIlImkEP4KZ-us; path=/; domain=whatsapp.com; secure; httponly; SameSite=Lax",
  "21": "set-cookie: wa_lang_pref=en; expires=Fri, 10-Jul-2026 19:25:30 GMT; Max-Age=604800; path=/; domain=whatsapp.com; secure; SameSite=Lax",
  "22": "set-cookie: wa_ul=38f3a969-ba66-4d9a-a155-406c5c53e35a; expires=Thu, 01-Oct-2026 19:25:30 GMT; Max-Age=7776000; path=/; domain=www.whatsapp.com; secure; httponly; SameSite=Lax",
  "23": "reporting-endpoints: coop_report=\\\"https://www.facebook.com/browser_reporting/coop/?minimize=0\\\",
  coop_report=\\\"https://www.facebook.com/browser_reporting/coep/?minimize=0\\\",
  default=\\\"https://www.whatsapp.com/browser_error_reports/?device_level=unknown&bsrid=7658385091708693801&cpp=C3&cv=1042616770&st=1783106730899\\\",
  permissions_policy=\\\"https://www.whatsapp.com/whatsapp_browser_error_reports/\\\"",
  "24": "report-to:
  {\\\"max_age\\\":2592000,\\\"endpoints\\\":[{\\\"url\\\":\\\"https://www.facebook.com/browser_reporting/coop/?minimize=0\\\"}],\\\"group\\\":\\\"coop_report\\\",\\\"include_subdomains\\\":true},
  {\\\"max_age\\\":86400,\\\"endpoints\\\":[{\\\"url\\\":\\\"https://www.facebook.com/browser_reporting/coep/?minimize=0\\\"}],\\\"group\\\":\\\"coep_report\\\"},
  {\\\"max_age\\\":259200,\\\"endpoints\\\":[{\\\"url\\\":\\\"https://www.whatsapp.com/whatsapp_browser_error_reports/?device_level=unknown&bsrid=7658385091708693801&cpp=C3&cv=1042616770&st=1783106730899\\\"}],\\\"group\\\":\\\"permissions_policy\\\"},
  {\\\"max_age\\\":21600,\\\"endpoints\\\":[{\\\"url\\\":\\\"https://www.whatsapp.com/whatsapp_browser_error_reports/\\\"}],\\\"group\\\":\\\"permissions_policy\\\"}",
  "25": "x-frame-options: DENY",
  "26": "content-security-policy: default-src 'self' blob;script-src *.whatsapp.com *.whatsapp.net *.facebook.com *.facebook.net 'nonce-NQDIXW73' 'self'
  blob;style-src *.whatsapp.com *.whatsapp.net 'unsafe-inline' *.facebook.com 'self' data: blob;connect-src *.whatsapp.com *.whatsapp.net wss://*.facebook.com:*.
  fbcnd.net 'self' data: blob;font-src *.whatsapp.com *.whatsapp.net *.facebook.com static.xx.fbcdn.net data:img-src *.whatsapp.com *.whatsapp.net *.facebook.com
  *.fbcnd.net *.fbx.com static.xx.fbcdn.net *.cdninstagram.com 'self' data: blob;media-src *.fbcnd.net 'self' data: blob;child-src 'self' data: blob;frame-src
  *.facebook.com *.whatsapp.com 'self' data: blob;manifest-src 'self' data: blob;object-src 'self' data: blob;worker-src *.whatsapp.com *.whatsapp.net
  *.facebook.com *.facebook.net 'nonce-NQDIXW73' 'self' data: blob;block-all-mixed-content;upgrade-insecure-requests;",
  "27": "document-policy: include-js-call-stacks-in-crash-reports",
  "28": "permissions-policy: accelerometer=(), attribution-reporting=(), autoplay=(), bluetooth=(), camera=(), ch-device-memory=(), ch-downlink=(), ch-dpr=(), ch-
  ect=(), ch-rtt=(), ch-save-data=(), ch-ua-arch=(), ch-ua-bitness=(), ch-viewport-height=(), ch-viewport-width=(), ch-width=(), clipboard-read=(), clipboard-write=(),
  compute-pressure=(), display-capture=(), encrypted-media=(), fullscreen=(self), gamepad=(), geolocation=(), gyroscope=(), hid=(), idle-detection=(), interest-
  cohort=(), keyboard-map=(), local-fonts=(), magnetometer=(), microphone=(), midi=(), otp-credentials=(), payment=(), picture-in-picture=(), private-state-token-
  issuance=(), publickey-credentials-get=(), serial=(), shared-storage=(), shared-storage-select-url=(), private-state-token-redemption=(),
  usb=(), unload=(self), window-management=(), xr-spatial-tracking=();report-to=\\\"permissions_policy\\\"",
  "29": "cross-origin-resource-policy: same-origin",
  "30": "cross-origin-embedder-policy-report-only: require-corp;report-to=\\\"coep_report\\\"",
  "31": "cross-origin-opener-policy: same-origin-allow-popups",
  "32": "pragma: no-cache",
  "33": "cache-control: private, no-cache, no-store, must-revalidate",
  "34": "expires: Sat, 01 Jan 2000 00:00:00 GMT",
  "35": "x-content-type-options: nosniff",
  "36": "x-xss-protection: 0",
  "37": "origin-agent-cluster: ?1",
  "38": "strict-transport-security: max-age=31536000; preload; includeSubDomains",
  "39": "content-type: text/html; charset=\\\"utf-8\\\"",
  "40": "x-fb-debug: 05pB//vYNMmpwqyTKEb+ZznhfQ4ANwF9+LRB4NGJHC2R1mtVj0AuIqy1hE5L2x7jK7DsA70pu2NvW3ZKM/L3g==",
  "41": "date: Fri, 03 Jul 2026 19:25:31 GMT",
  "42": "x-fb-connection-quality: EXCELLENT; q=0.9, rtt=8, rtx=0, c=16, mss=1380, tbw=3509, tp=-1, tpl=-1, uplat=463, ullat=0",
  "43": "alt-svc: h3=\":443\"; ma=86400"
}
```

#### IPv6 HTTP (port 80)

HTTP Status	200
-------------	-----

<b>Connected IP</b>	2a03:2880:f31e:120:face:b00c:0:167
<b>Connect Time</b>	256.96 ms
<b>TTFB</b>	1049.04 ms
<b>Total Time</b>	1049.2 ms

**Response Headers:**

```
{
  "0": "HTTP/1.1 301 Moved Permanently",
  "1": "Location: https://whatsapp.com/",
  "2": "Content-Type: text/plain",
  "3": "Server: proxygen-bolt",
  "4": "Date: Fri, 03 Jul 2026 19:25:28 GMT",
  "5": "Connection: keep-alive",
  "6": "Content-Length: 0",
  "8": "HTTP/2 302",
  "9": "location: https://www.whatsapp.com/",
  "10": "strict-transport-security: max-age=31536000; preload; includeSubDomains",
  "11": "content-type: text/plain",
  "12": "content-length: 0",
  "13": "server: proxygen-bolt",
  "14": "date: Fri, 03 Jul 2026 19:25:28 GMT",
  "15": "x-fb-connection-quality: EXCELLENT; q=0.9, rtt=8, rtx=0, c=13, mss=1380, tbw=3510, tp=-1, tpl=-1, uplat=0, ullat=-1",
  "16": "alt-svc: h3=\":443\"; ma=86400",
  "18": "HTTP/2 200",
  "19": "vary: Accept-Encoding",
  "20": "set-cookie: wa_csrf=0P0lpfC4W4rSmrf3-rRc3j; path=/; domain=whatsapp.com; secure; httpOnly; SameSite=Lax",
  "21": "set-cookie: wa_lang_pref=en; expires=Fri, 10-Jul-2026 19:25:28 GMT; Max-Age=604800; path=/; domain=whatsapp.com; secure; SameSite=Lax",
  "22": "set-cookie: wa_ul=c3780c96-4173-4114-a63b-f55b29d1ce4b; expires=Thu, 01-Oct-2026 19:25:28 GMT; Max-Age=7776000; path=/; domain=www.whatsapp.com; secure; httpOnly; SameSite=Lax",
  "23": "reporting-endpoints: coop_report=\"https://www.facebook.com/browser_reporting/coop/?minimize=0\",
  coop_report=\"https://www.facebook.com/browser_reporting/coep/?minimize=0\",
  default=\"https://www.whatsapp.com/whatsapp_browser_error_reports/?device_level=unknown&bsid=7658385084089924865&cpp=C3&cv=1042616770&st=1783106728875\",
  permissions_policy=\"https://www.whatsapp.com/whatsapp_browser_error_reports/\",
  "24": "report-to:
  {\"max_age\":259200,\"endpoints\": [{\"url\": \"https://www.facebook.com/browser_reporting/coop/?minimize=0\"}], \"group\": \"coop_report\", \"include_subdomains\": true},
  {\"max_age\":86400,\"endpoints\": [{\"url\": \"https://www.facebook.com/browser_reporting/coep/?minimize=0\"}], \"group\": \"coep_report\"},
  {\"max_age\":259200,\"endpoints\": [{\"url\": \"https://www.whatsapp.com/whatsapp_browser_error_reports/?device_level=unknown&bsid=7658385084089924865&cpp=C3&cv=1042616770\"}], \"group\": \"permissions_policy\"},
  "25": "x-frame-options: DENY",
  "26": "content-security-policy: default-src 'self' blob;script-src *.whatsapp.com *.whatsapp.net *.facebook.com *.facebook.net 'nonce-waLa3w4N' 'self' blob;style-src *.whatsapp.com *.whatsapp.net 'unsafe-inline' *.facebook.com 'self' data: blob;connect-src *.whatsapp.com *.whatsapp.net wss://*.facebook.com:*.fbcdn.net 'self' data: blob;font-src *.whatsapp.com *.whatsapp.net *.facebook.com static.xx.fbcdn.net data: img-src *.whatsapp.com *.whatsapp.net *.facebook.com *.fbcdn.net *.fbstatic.xx.fbcdn.net *.cdninstagram.com 'self' data: blob;media-src *.fbcdn.net 'self' data: blob;child-src 'self' data: blob;frame-src *.facebook.com *.whatsapp.com 'self' data: blob;manifest-src 'self' data: blob;object-src 'self' data: blob;worker-src *.whatsapp.com *.whatsapp.net *.facebook.com *.facebook.net 'nonce-waLa3w4N' 'self' data: blob;block-all-mixed-content;upgrade-insecure-requests",
  "27": "document-policy: include-js-call-stacks-in-crash-reports",
  "28": "permissions-policy: accelerometer=(), attribution-reporting=(), autoplay=(), bluetooth=(), camera=(), ch-device-memory=(), ch-downlink=(), ch-dpr=(), ch-ect=(), ch-rtt=(), ch-save-data=(), ch-ua-arch=(), ch-ua-bitness=(), ch-viewport-height=(), ch-viewport-width=(), ch-width=(), clipboard-read=(), clipboard-write=(), compute-pressure=(), display-capture=(), encrypted-media=(), fullscreen=(), gamepad=(), geolocation=(), gyroscope=(), hid=(), idle-detection=(), interest-cohort=(), keyboard-map=(), local-fonts=(), magnetometer=(), microphone=(), midi=(), otp-credentials=(), payment=(), picture-in-picture=(), private-state-token-issuance=(), publickey-credentials-get=(), screen-wake-lock=(), serial=(), shared-storage=(), shared-storage-select-url=(), private-state-token-redemption=(), usb=(), unload=(self), window-management=(), xr-spatial-tracking=();report-to=permissions_policy",
  "29": "cross-origin-resource-policy: same-origin",
  "30": "cross-origin-embedder-policy-report-only: require-corp;report-to=coep_report",
  "31": "cross-origin-opener-policy: same-origin-allow-poppers",
  "32": "pragma: no-cache",
  "33": "cache-control: private, no-cache, no-store, must-revalidate",
  "34": "expires: Sat, 01 Jan 2000 00:00:00 GMT",
  "35": "x-content-type-options: nosniff",
  "36": "x-xss-protection: 0",
  "37": "origin-agent-cluster: ?1",
  "38": "strict-transport-security: max-age=31536000; preload; includeSubDomains",
  "39": "content-type: text/html; charset=utf-8",
  "40": "x-fb-debug: A0pUWCOYF8DY0yCsETNF9ckF00FlkiIDj6NAUQzNwAY0EQImfICc0HoVuKXpw7C7KoukMn3h8KmV/5gCurUvA==",
  "41": "date: Fri, 03 Jul 2026 19:25:29 GMT",
  "42": "x-fb-connection-quality: MODERATE; q=0.3, rtt=234, rtx=0, c=16, mss=1380, tbw=3510, tp=-1, tpl=-1, uplat=288, ullat=0",
  "43": "alt-svc: h3=\":443\"; ma=86400"
}
```

**IPv4 HTTPS (port 443)**

<b>HTTP Status</b>	200
<b>Connected IP</b>	57.144.153.32
<b>Connect Time</b>	250.9 ms

<b>TTFB</b>	1117.95 ms
<b>Total Time</b>	1118.06 ms

**Response Headers:**

```
{
  "0": "HTTP/2 302",
  "1": "location: https://www.whatsapp.com/",
  "2": "strict-transport-security: max-age=31536000; preload; includeSubDomains",
  "3": "content-type: text/plain",
  "4": "content-length: 0",
  "5": "server: proxygen-bolt",
  "6": "date: Fri, 03 Jul 2026 19:25:31 GMT",
  "7": "x-fb-connection-quality: MODERATE; q=0.3, rtt=234, rtx=0, c=13, mss=1380, tbw=3510, tp=-1, tpl=-1, uplat=0, ullat=-1",
  "8": "alt-svc: h3=\":443\"; ma=86400",
  "10": "HTTP/2 200",
  "11": "vary: Accept-Encoding",
  "12": "set-cookie: wa_csrf=n-5in0UB0NvsHjpmovDJ; path=/; domain=whatsapp.com; secure; httponly; SameSite=Lax",
  "13": "set-cookie: wa_lang_pref=en; expires=Fri, 10-Jul-2026 19:25:32 GMT; Max-Age=604800; path=/; domain=whatsapp.com; secure; SameSite=Lax",
  "14": "set-cookie: wa_ul=6cc354cc-1127-428e-a9f1-43fdced3571e; expires=Thu, 01-Oct-2026 19:25:32 GMT; Max-Age=7776000; path=/; domain=.www.whatsapp.com; secure; httponly; SameSite=Lax",
  "15": "reporting-endpoints: coop_report=\\\"https://www.facebook.com/browser_reporting/coop/?minimize=0\\\", coep_report=\\\"https://www.facebook.com/browser_reporting/coep/?minimize=0\\\", default=\\\"https://www.whatsapp.com/whatsapp_browser_error_reports/?device_level=unknown&bsid=7658385099882111900&cpp=C3&cv=1042616770&st=1783106732110\\\", permissions_policy=\\\"https://www.whatsapp.com/whatsapp_browser_error_reports/\\\",",
  "16": "report-to:
  {\\\"max_age\\\":2592000,\\\"endpoints\\\":[{\\\"url\\\":\\\"https://www.facebook.com/browser_reporting/coop/?minimize=0\\\"}],\\\"group\\\":\\\"coop_report\\\",\\\"include_subdomains\\\":true},
  {\\\"max_age\\\":86400,\\\"endpoints\\\":[{\\\"url\\\":\\\"https://www.facebook.com/browser_reporting/coep/?minimize=0\\\"}],\\\"group\\\":\\\"coep_report\\\"},
  {\\\"max_age\\\":259200,\\\"endpoints\\\":[{\\\"url\\\":\\\"https://www.whatsapp.com/whatsapp_browser_error_reports/?device_level=unknown&bsid=7658385099882111900&cpp=C3&cv=1042616770\\\"}],\\\"group\\\":\\\"permissions_policy\\\"},
  {\\\"max_age\\\":21600,\\\"endpoints\\\":[{\\\"url\\\":\\\"https://www.whatsapp.com/whatsapp_browser_error_reports/\\\"}],\\\"group\\\":\\\"permissions_policy\\\"}",
  "17": "x-frame-options: DENY",
  "18": "content-security-policy: default-src 'self' blob:;script-src *.whatsapp.com *.whatsapp.net *.facebook.com *.facebook.net 'nonce-L35Bn9tB' 'self' blob:;style-src *.whatsapp.com *.whatsapp.net 'unsafe-inline' *.facebook.com 'self' data: blob;connect-src *.whatsapp.com *.whatsapp.net wss://*.facebook.com *.fbcdn.net 'self' data: blob;font-src *.whatsapp.com *.whatsapp.net *.facebook.com static.xx.fbcdn.net data:;img-src *.whatsapp.com *.whatsapp.net *.facebook.com *.fbcdn.net *.fbstatic.com static.xx.fbcdn.net *.cdninstagram.com 'self' data: blob;media-src *.fbcdn.net 'self' data: blob;child-src 'self' data: blob;frame-src *.facebook.com *.whatsapp.com 'self' data: blob;manifest-src 'self' data: blob;object-src 'self' data: blob;worker-src *.whatsapp.com *.whatsapp.net *.facebook.com *.facebook.net 'nonce-L35Bn9tB' 'self' data: blob;block-all-mixed-content;upgrade-insecure-requests;",
  "19": "document-policy: include-js-call-stacks-in-crash-reports",
  "20": "permissions-policy: accelerometer=(), attribution-reporting=(), autoplay=(), bluetooth=(), camera=(), ch-device-memory=(), ch-downlink=(), ch-dpr=(), ch-ect=(), ch-rtt=(), ch-save-data=(), ch-ua-arch=(), ch-ua-bitness=(), ch-viewport-height=(), ch-viewport-width=(), ch-width=(), clipboard-read=(), clipboard-write=(), compute-pressure=(), display-capture=(), encrypted-media=(), fullscreen=(self), gamepad=(), geolocation=(), gyroscope=(), hid=(), idle-detection=(), interest-cohort=(), keyboard-map=(), local-fonts=(), magnetometer=(), microphone=(), midi=(), otp-credentials=(), payment=(), picture-in-picture=(), private-state-token-issuance=(), publickey-credentials-get=(), screen-wake-lock=(), serial=(), shared-storage=(), shared-storage-select-url=(), private-state-token-redemption=(), usb=(), unload=(self), window-management=(), xr-spatial-tracking=();report-to=\\\"permissions_policy\\\"",
  "21": "cross-origin-resource-policy: same-origin",
  "22": "cross-origin-embedder-policy: require-corp;report-to=\\\"coep_report\\\"",
  "23": "cross-origin-opener-policy: same-origin-allow-popups",
  "24": "pragma: no-cache",
  "25": "cache-control: private, no-cache, no-store, must-revalidate",
  "26": "expires: Sat, 01 Jan 2000 00:00:00 GMT",
  "27": "x-content-type-options: nosniff",
  "28": "x-xss-protection: 0",
  "29": "origin-agent-cluster: ?1",
  "30": "strict-transport-security: max-age=31536000; preload; includeSubDomains",
  "31": "content-type: text/html; charset=utf-8",
  "32": "x-fb-debug: cKZkYtXChmEZV/DFuVRjrj0B0SamqELc4jCUfnjyZ6Z0MEdQb+4HLde1ExVJEgkPf8GWbd5aXbBUXKNsVgCXA==",
  "33": "date: Fri, 03 Jul 2026 19:25:32 GMT",
  "34": "x-fb-connection-quality: EXCELLENT; q=0.9, rtt=12, rtx=0, c=17, mss=1380, tbw=3531, tp=-1, tpl=-1, uplat=370, ullat=0",
  "35": "alt-svc: h3=\":443\"; ma=86400"
}
```

**IPv6 HTTPS (port 443)**

<b>HTTP Status</b>	200
<b>Connected IP</b>	2a03:2880:f31e:120:face:b00c:0:167
<b>Connect Time</b>	253.58 ms
<b>TTFB</b>	1011.29 ms
<b>Total Time</b>	1011.41 ms

**Response Headers:**

```
{
  "0": "HTTP/2 302",
  "1": "location: https://www.whatsapp.com/",
  "2": "strict-transport-security: max-age=31536000; preload; includeSubDomains",
  "3": "content-type: text/plain",
}
```

```

"4": "content-length: 0",
"5": "server: proxygen-bolt",
"6": "date: Fri, 03 Jul 2026 19:25:29 GMT",
"7": "x-fb-connection-quality: EXCELLENT; q=0.9, rtt=8, rtx=0, c=13, mss=1380, tbw=3510, tp=-1, tpl=-1, uplat=0, ullat=-1",
"8": "alt-svc: h3=\":443\"; ma=86400",
"10": "HTTP/2 200",
"11": "vary: Accept-Encoding",
"12": "set-cookie: wa_csrf=klMA413FzKPCDj9pjTr80M; path=/; domain=.whatsapp.com; secure; httponly; SameSite=Lax",
"13": "set-cookie: wa_lang_pref=en; expires=Fri, 10-Jul-2026 19:25:29 GMT; Max-Age=604800; path=/; domain=.whatsapp.com; secure; SameSite=Lax",
"14": "set-cookie: wa_ul=1c749392-4755-49e9-af59-549b57c45cfd; expires=Thu, 01-Oct-2026 19:25:29 GMT; Max-Age=7776000; path=/; domain=.www.whatsapp.com; secure; httponly; SameSite=Lax",
"15": "reporting-endpoints: coop_report=\"https://www.facebook.com/browser_reporting/coop/?minimize=0\",
coop_report=\"https://www.facebook.com/browser_reporting/coep/?minimize=0\",
default=\"https://www.whatsapp.com/whatsapp_browser_error_reports/?device_level=unknown&brsid=7658385088189917554&cpp=C3&cv=1042616770&st=1783106729910\",
permissions_policy=\"https://www.whatsapp.com/whatsapp_browser_error_reports/\"",
"16": "report-to:
{\\max_age\\\":2592000,\\endpoints\\\":[{\\url\\\":\\\"https://www.facebook.com/browser_reporting/coop/?minimize=0\\\"}],\\group\\\":\\\"coop_report\\\",\\include_subdomains\\\":true},
{\\max_age\\\":86400,\\endpoints\\\":[{\\url\\\":\\\"https://www.facebook.com/browser_reporting/coep/?minimize=0\\\"}],\\group\\\":\\\"coop_report\\\"},
{\\max_age\\\":259200,\\endpoints\\\":[{\\url\\\":\\\"https://www.whatsapp.com/whatsapp_browser_error_reports/?device_level=unknown&brsid=7658385088189917554&cpp=C3&cv=1042616770&st=1783106729910\\\"}],\\group\\\":\\\"permissions_policy\\\"},
"17": "x-frame-options: DENY",
"18": "content-security-policy: default-src 'self' blob;script-src *.whatsapp.com *.whatsapp.net *.facebook.com *.facebook.net 'nonce-6fsRD5w7' 'self'
blob;style-src *.whatsapp.com *.whatsapp.net 'unsafe-inline' *.facebook.com 'self' data: blob;;connect-src *.whatsapp.com *.whatsapp.net wss://*.facebook.com:*
*.fbcdn.net 'self' data: blob;font-src *.whatsapp.com *.whatsapp.net *.facebook.com static.xx.fbcdn.net data:img-src *.whatsapp.com *.whatsapp.net *.facebook.com
*.fbcdn.net *.fbstatic.com static.xx.fbcdn.net *.cdninstagram.com 'self' data: blob;media-src *.fbcdn.net 'self' data: blob;child-src 'self' data: blob;frame-src
*.facebook.com *.whatsapp.com 'self' data: blob;manifest-src 'self' data: blob;object-src 'self' data: blob;worker-src *.whatsapp.com *.whatsapp.net
*.facebook.com *.facebook.net 'nonce-6fsRD5w7' 'self' data: blob;block-all-mixed-content;upgrade-insecure-requests;",
"19": "document-policy: include-js-call-stacks-in-crash-reports",
"20": "permissions-policy: accelerometer=(), attribution-reporting=(), autoplay=(), bluetooth=(), camera=(), ch-device-memory=(), ch-downlink=(), ch-dpr=(), ch-
ect=(), ch-rtt=(), ch-save-data=(), ch-ua-arch=(), ch-ua-bitness=(), ch-viewport-height=(), ch-viewport-width=(), ch-width=(), clipboard-read=(), clipboard-write=(),
compute-pressure=(), display-capture=(), encrypted-media=(), fullscreen=(), gamepad=(), geolocation=(), gyroscope=(), hid=(), idle-detection=(), interest-
cohort=(), keyboard-map=(), local-fonts=(), magnetometer=(), microphone=(), midi=(), otp-credentials=(), payment=(), picture-in-picture=(), private-state-token-
issuance=(), publickey-credentials-get=(), screen-wake-lock=(), serial=(), shared-storage=(), shared-storage-select-url=(), private-state-token-redemption=(),
usb=(), unload=(self), window-management=(), xr-spatial-tracking=();report-to=\\\"permissions_policy\\\"",
"21": "cross-origin-resource-policy: same-origin",
"22": "cross-origin-embedder-policy-report-only: require-corp;report-to=\\\"coop_report\\\"",
"23": "cross-origin-opener-policy: same-origin-allow-popups",
"24": "pragma: no-cache",
"25": "cache-control: private, no-cache, no-store, must-revalidate",
"26": "expires: Sat, 01 Jan 2000 00:00:00 GMT",
"27": "x-content-type-options: nosniff",
"28": "x-xss-protection: 0",
"29": "origin-agent-cluster: ?1",
"30": "strict-transport-security: max-age=31536000; preload; includeSubDomains",
"31": "content-type: text/html; charset=\\\"utf-8\\\"",
"32": "x-fb-debug: GbFxtl7LOAH6exyAHWkuOHTccAouXc4cND1tdEf+RmRuMyt58n7forPw3XEL4juyHwq36fQH00NUkiTkivUXZA==",
"33": "date: Fri, 03 Jul 2026 19:25:30 GMT",
"34": "x-fb-connection-quality: MODERATE; q=0.3, rtt=234, rtx=0, c=16, mss=1380, tbw=3509, tp=-1, tpl=-1, uplat=265, ullat=0",
"35": "alt-svc: h3=\":443\"; ma=86400"
}

```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	301 0.235122 0.470142
TCP Connect IPv6 → port 80	301 0.009306 0.018316
TCP Connect IPv4 → port 443	302 0.233516 0.706128
TCP Connect IPv6 → port 443	302 0.008534 0.048915

**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
```