


IPv6 Readiness Report

facebook.com — facebook.com

Category: Social Media • Generated: 21 Apr 2026, 19:15 MYT • Last Checked: 07 Mar 2026, 01:15 MYT • Verification ID: 4dd4b21a-73ef-4d4a-a40a-006c7267fa5b

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

Audit trail: <https://ipv6.my6.my/audit/4dd4b21a-73ef-4d4a-a40a-006c7267fa5b>

 Partially Compliant <small>MGv6C-1.0</small>	87% Partial Support	IPv6-ONLY READINESS Website: ✓ Ready DNS: ✓ Ready Email: ✗ Not Ready
---	--------------------------------------	---

IPv6 ADDRESSES
2a03:2880:f17f:181:face:b00c::25de

IPv4 ADDRESSES
163.70.137.35

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	163.70.128.0/17

Web Services (35%)				8 / 8
#	CHECK	RESULT	DETAIL	
1	AAAA Record	PASS	2a03:2880:f17f:181:face:b00c::25de	
2	Globally Routable IPv6	PASS	All addresses are globally routable.	
3	HTTP over IPv6	PASS	HTTP (port 80) responds over IPv6 — 673ms TTFB.	
4	HTTPS over IPv6	PASS	HTTPS (port 443) responds over IPv6 — 672ms 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 Mar 13 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.	
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: default_domainkey
7	DMARC Record	PASS	DMARC record found.

IPv4 Baseline (15%) 3 / 3

#	CHECK	RESULT	DETAIL
1	A Record	PASS	163.70.137.35
2	HTTP over IPv4	PASS	HTTP (port 80) responds over IPv4 — 603ms TTFB.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 601ms TTFB.

Audit Trail & Evidence Record

Verification ID	4dd4b21a-73ef-4d4a-a40a-006c7267fa5b
Domain	facebook.com
Check Mode	Manual
Status	Completed
Started	07 Mar 2026, 01:14:57 MYT
Finished	07 Mar 2026, 01:15:38 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/4dd4b21a-73ef-4d4a-a40a-006c7267fa5b

Integrity Verification

✓ INTEGRITY VERIFIED	
Algorithm	hmac-sha256-v1
Root Hash	c6d74927afac51849fcf34dcc26f2be321d6c17ab736377fe0175730e05ab742
http_headers	46833c868210d1659cabb08dbc066a64cd3bb48d90008296feaf7458af0a2502
dns_responses	abad570724d9cd1c01988f1b71c57b072c1315a1e4410b16a835c9e128989c41
tls_handshake	f6b2f4b6aa3f75bf8988e71baedf17d8eb15101dfaba6d0821a431b9accdfc35
connectivity_log	30fc85f3e7230302981a99101a17c8a975b670de307fd709c46ab1a5222f0f92
dns_resolution_times	285bcab86f0d307c3204e160d8f8caacfb01fe98624c5e3760ba6c2365c67306

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	7.97	8.64	7.83	8.08	-0.1
Google	IPv4	19.96	27.64	28.93	35.26	+9
Google	IPv6	19.99	21.92	17.95	21.04	-2
Cloudflare	IPv4	7.92	18.08	9.26	17.33	+1.3
Cloudflare	IPv6	24.84	28.09	16.97	18.95	-7.9

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 44844
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
facebook.com. 00600IN A 57.144.150.1
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 30086
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
com. 0007590IN SOA a.gtld-servers.net. nstld.verisign-grs.com. 1772788371 1800 900 604800 900
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 64425
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
facebook.com. 0019600IN MX 10 smtpin.vvv.facebook.com.
```

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 46774
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
facebook.com. 0021600IN NS c.ns.facebook.com.
facebook.com. 0021600IN NS d.ns.facebook.com.
facebook.com. 0021600IN NS b.ns.facebook.com.
facebook.com. 0021600IN NS a.ns.facebook.com.
```

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 19011
;; flags: qr rd ra; QUERY: 1, ANSWER: 6, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
facebook.com. 0021600IN TXT "v=spf1 redirect=_spf.facebook.com"
facebook.com. 0072000IN TXT "google-site-verification=sK6uY9x7eaMoEMfn30ILqWTFYgaNp4l1lmgUKI-C3_ia"
facebook.com. 0036000IN TXT "zoom-domain-verification=4b2ef4e1-6dee-4483-9869-9bef353fd147"
facebook.com. 0036000IN TXT "facebook-domain-verification=y7isfmi3kzyglr4woph9vyb6pgbda"
facebook.com. 0072000IN TXT "google-site-verification=wdH5DTJTC9AYNwVunSVFeK0hYDGUIEOGb-RRu6pJLY"
facebook.com. 0072000IN TXT "google-site-verification=A2WZWCNQhrGV_TWwKh6KH90tY0SHZo_RnyMJoDaG0s"
```

AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 35533
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
facebook.com. 00600IN AAAA 2a03:2880:f34b:1:face:b00c:0:25de
```

RRSIG

```
a.ns.facebook.com. dns.facebook.com. 4207849484 14400 1800 604800 300
```

DNSKEY

```
;; Got answer:  
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 63616  
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1  
  
;; OPT PSEUDOSECTION:  
; EDNS: version: 0, flags:; udp: 512  
;; AUTHORITY SECTION:  
facebook.com. IN SOA a.ns.facebook.com. dns.facebook.com. 4207849484 14400 1800 604800 300
```

DNSSEC_VALIDATION

```
; unsigned answer  
facebook.com. IN SOA a.ns.facebook.com. dns.facebook.com. 4207849484 14400 1800 604800 300
```


Y6g452us3R3pI1W3UndBkjESLo7p2iMwfubitLk5m0W9zYb44FhsCKvnXSM3sK57
aECd7rN3oPEKbKLeT7VHcn4o98wo695tMxcddSEY1us0C88P5RMUSNet8rz3XAL
06H+sLj6f/ZB20Mu0h7rQZHN26UPcVNIeqnxbLM8ualjPdMHoIGcFHZTLmTEoMJx
Bc/EpHa2UR7rdhN118yVUbHxGUY6pEsSnX0qqad22Z1V+uFck/i60qoPeYSUC9ss
uEjNCEHrImqYxw3uNKLYEC4L/neIvbiRphw06fqX50qL
-----END CERTIFICATE-----

1 s:C = US, 0 = DigiCert Inc, CN = DigiCert Global G2 TLS RSA SHA256 2020 CA1
i:C = US, 0 = DigiCert Inc, OU = www.digicert.com, CN = DigiCert Global Root G2
a:PKKEY: 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-----

MIIeYDCCA7CgAwIBAgIQDPW9BitwAv6uFAsI8zwZjANBgkqhkiG9w0BAQsFADBh
MQswCQYDVQQGEwJVUzEVMBMGA1UEChMMRGlnaW9wZS5jMRkwFwYDVQQLEgB3
d3cuZGlnaW9wZS5jcnQuY29tMSAwHgYDVQ0EXdEaWdpQ2VydCBHbG9iYWwU9vdCBH
MjAeFw0yMTAzMzAwMDAwMDBaFw0zMTAzMjkyMzU5NTLaMFkxZzA5BjBAYTALVT
MRUwEwYDVQQKEwEaWdpQ2VydCBjbmMzAxBG9NBAMTKkRpZ2LDZj0IEEdsb2Jh
bCBHMmIbUTFMgU1NBIFNIQTl1NiAyMDIwIENBMTCASiIwDQYJKoZIhvcNAQEBBQAD
ggEPADCCAQoCggEBAMz3EGJPrTjB+2QU1bFbSd7ehJWivH0+dbn4Y+91lavyYEEV
cNsSAPonCrVX0Ft9sLGTcZU0akGUWzUb+nv6u8W+JDD+Vu/E832X4xT1FE3LpxDy
FuqrIvAxIhFhaZAmunjZlx/jfWardUSVc8is/+9dCopZQ+Gssj0P80j812s3WMPc
3kbw20X+fSP9k0hRBx5Ro1/tSUZUfyyIxft0TnJcVPAPOoTncaQwywa8WV0YUR0J8
osicFebUTVSpowmowQTCd5zW50T0EeAqgJnwQ3DPP3Zr0UxJyRwq2C/Uaoq2Yt
zGJS0nWS+Jr6Xl6ysGHLHx+5fwmY6D36g39HaaECAwEAAa0CA0YIwggF+MBIGA1Ud
EwEB/wQIMAYBAf8CAQAwHQYDVIR0BBYEFH5FgMBmX9833s+9KTeqAx2+7c0XMB8G
A1UdIwQYMBaAFE4iVAYLebjuYp+vq5Eu0GF485MA4GA1UdDwEB/wQEAwIBhjAd
BgNVHSUEFjAUBgggrBgEFBQcDAQYIKwYBBQUHAWIwdG9iYkYBBQUHAEaajBoMCQG
CCsGAQUFBzABhhhdHRwOi8vb2NzcC5kaWdpY2VydC5jb20wQAYIKwYBBQUHMAKG
Ng0dHA6Ly9jYWNlcnRzLmRpZ2LjZXJ0LmNvb59EaWdpQ2VydEdsb2JhbFJvb3RH
Mi5jcnQwQgYDVIR0fBDSwOTA3oDwGMYxaHR0cDovL2NybmZuZGlnaW9wZS5jcnQuY29t
L0R0P2LDZj0R2xvYmFsUm9vdEcyLmNybDA9BGNVHSAENjA0MASGCWCSAGG/WwC
ATAHBgVngQwBATAIBgZngQwBAGAwEwCAYGZ4EMAQICMAgGBmeBDAECAzANBgkqhkiG
9w0BAQsFAA0CAQEAKPFwyyiXaZd8dP3A+iZ7U6utzWX9upwGnIrXWk0H7U1MVL+t
wcW1BSAUwdH/SvWgKtiwLa3JLko716f2b4gp/DA/JIS7w7d7kwcSr4drdjPtAFVS
sLme5Ln089/nd/7d+MS5EHKBCQRfz5eelJlJjs+aWNLJXMX43AYGyZm0pGrFmCW3R
bpD0ufovARTFXFZkAdL9h6g4U5+LXUZtXMYnhIHufoyMo5t558A17Dd8KvwwVVo4
chDYABPPTHpbqjclqCmBaZx2vN4Ye5DUys/vZP9BFohFrH/6j/f3IL16/RZkiMN
JCqVJUzKoZhm1Lesh3S28W2jmdv51b2EQJ8HmA==
-----END CERTIFICATE-----

Server certificate
subject=C = US, ST = California, L = Menlo Park, O = "Meta Platforms, Inc.", CN = *.facebook.com
issuer=C = US, 0 = DigiCert Inc, CN = DigiCert Global G2 TLS RSA SHA256 2020 CA1

No client certificate CA names sent

Peer signing digest: SHA256
Peer signature type: ECDSA
Server Temp Key: X25519, 253 bits

SSL handshake has read 3279 bytes and written 378 bytes
Verification: OK

New, TLSv1.3, Cipher is TLS_CHACHA20_POLY1305_SHA256
Server public key is 256 bit
Secure Renegotiation IS NOT supported
Compression: NONE


```

"43": "x-xss-protection: 0",
"44": "origin-agent-cluster: ?1",
"45": "strict-transport-security: max-age=15552000; preload",
"46": "content-type: text/html; charset=utf-8",
"47": "x-fb-debug: 9unEuYqrBTvYdkxZwhAIKzJ3ncyXq8ipdYnNvpru640H2jRR67JRKJgSyb4IAy0gUlnIDrquoJLHhyfYm+zYQ==",
"48": "date: Fri, 06 Mar 2026 09:15:36 GMT",
"49": "x-fb-connection-quality: EXCELLENT; q=0.9, rtt=6, rtx=0, c=10, mss=1380, tbw=3966, tp=-1, tpl=-1, uplat=236, ullat=0",
"50": "alt-svc: h3=443; ma=86400"
}
    
```

IPv6 HTTP (port 80)

HTTP Status	200
Connected IP	2a03:2880:f17a:81:face:b00c:0:25de
Connect Time	7.49 ms
TTFB	649.59 ms
Total Time	649.79 ms

Response Headers:

```

{
  "0": "HTTP/1.1 301 Moved Permanently",
  "1": "Location: https://facebook.com/",
  "2": "Content-Type: text/plain",
  "3": "Server: proxygen-bolt",
  "4": "Date: Fri, 06 Mar 2026 09:15:33 GMT",
  "5": "Connection: keep-alive",
  "6": "Content-Length: 0",
  "8": "HTTP/2 301",
  "9": "location: https://www.facebook.com/",
  "10": "strict-transport-security: max-age=15552000; preload",
  "11": "content-type: text/html; charset=utf-8",
  "12": "x-fb-debug: tt4roovLFT2/fHKN5xCE+eg/SUDn7IfB21WsenxCiZpvMldKQ7BVV5pEaz0jQKVGCPeV33c3rC5KZVCqGwgiYg==",
  "13": "content-length: 0",
  "14": "date: Fri, 06 Mar 2026 09:15:33 GMT",
  "15": "x-fb-connection-quality: EXCELLENT; q=0.9, rtt=6, rtx=0, c=10, mss=1380, tbw=3584, tp=-1, tpl=-1, uplat=198, ullat=0",
  "16": "alt-svc: h3=443; ma=86400",
  "18": "HTTP/2 302",
  "19": "location: https://www.facebook.com/unsupportedbrowser",
  "20": "strict-transport-security: max-age=15552000; preload",
  "21": "content-type: text/html; charset=utf-8",
  "22": "x-fb-debug: wNUWM7DjUPEa9JalzuUIHHPBH0zqY/bjW6bBVvdHq10ctWPZADJBteKfCHEfBaCiDwKH1W1Utw0Xp6ISeog==",
  "23": "content-length: 0",
  "24": "date: Fri, 06 Mar 2026 09:15:34 GMT",
  "25": "x-fb-connection-quality: EXCELLENT; q=0.9, rtt=1, rtx=0, c=10, mss=1380, tbw=3585, tp=-1, tpl=-1, uplat=198, ullat=1",
  "26": "alt-svc: h3=443; ma=86400",
  "28": "HTTP/2 200",
  "29": "vary: Accept-Encoding",
  "30": "reporting-endpoints: coop_report=https://www.facebook.com/browser_reporting/coop/?minimize=0",
  default=https://www.facebook.com/ajax/browser_error_reports/?device_level=unknown&bsrid=7614068776969689562&cpp=C3&cv=1034641024&st=1772788534227,
  permissions_policy=https://www.facebook.com/ajax/browser_error_reports/,
  "31": "report-to:
  {\"max_age\":2592000,\"endpoints\":[{\"url\":\"https://www.facebook.com/browser_reporting/coop/?minimize=0\"}],\"group\":\"coop_report\",\"include_subdomains\":true},
  {\"max_age\":259200,\"endpoints\":[{\"url\":\"https://www.facebook.com/ajax/browser_error_reports/?device_level=unknown&bsrid=7614068776969689562&cpp=C3&cv=1034641024&st=1772788534227\"}],\"group\":\"permissions_policy\"},
  \"32\": \"content-security-policy: default-src blob: 'self' https://*.fbcdn.net;script-src *.facebook.com *.fbcdn.net *.facebook.net 127.0.0.1:* 'nonce-7Me0tLQ9' blob: 'self' connect.facebook.net 'unsafe-eval' https://*.google-analytics.com *.google.com;style-src *.fbcdn.net data: *.facebook.com 'unsafe-inline' https://fonts.googleapis.com;connect-src *.facebook.com facebook.com *.fbcdn.net *.facebook.net wss://*.facebook.com:*.wss://*.facebook.com:*.wss://*.fbcdn.net attachment.fbsbx.com ws://localhost:* blob: *.cdninstagram.com 'self' http://localhost:3103 wss://gateway.facebook.com wss://edge-chat.facebook.com wss://snaptu-d.facebook.com wss://kaios-d.facebook.com/ v.whatsapp.net *.fbsbx.com *.fb.com *.instagram.com https://*.google-analytics.com;font-src data: *.facebook.com *.fbcdn.net *.fbsbx.com https://fonts.gstatic.com;img-src *.fbcdn.net *.facebook.com data: https://*.fbsbx.com facebook.com *.cdninstagram.com fbsbx.com fbcdn.net connect.facebook.net blob: android-webview-video-poster: *.whatsapp.net *.fb.com *.oculuscdn.com *.tenor.co *.tenor.com *.giphy.com https://trustly.one/ https://*.trustly.one/ https://paywithmybank.com/ https://*.paywithmybank.com/ https://www.googleadservices.com https://googleads.g.doubleclick.net https://*.google.com https://*.google.com https://td.doubleclick.net *.google.com *.doubleclick.net;manifest-src data: blob: 'self' https://*.fbsbx.com *.facebook.com *.fbcdn.net;frame-src *.facebook.com *.fbsbx.com fbsbx.com data: www.instagram.com *.fbcdn.net accounts.meta.com *.accounts.meta.com https://trustly.one/ https://*.trustly.one/ https://paywithmybank.com/ https://*.paywithmybank.com/ https://www.googleadservices.com https://googleads.g.doubleclick.net https://*.google.com https://td.doubleclick.net *.google.com *.doubleclick.net;manifest-src data: blob: 'self' https://*.fbsbx.com *.facebook.com *.fbcdn.net;object-src data: blob: 'self' https://*.fbsbx.com *.facebook.com *.fbcdn.net;worker-src blob: *.facebook.com data:;block-all-mixed-content;upgrade-insecure-requests;\",
  "33": "x-frame-options: DENY",
  "34": "document-policy: force-load-at-top",
  "35": "document-policy: include-js-call-stacks-in-crash-reports",
  "36": \"permissions-policy: accelerometer=(), attribution-reporting=(self), autoplay=(), bluetooth=(), browsing-topics=(self), camera=(self) \\\"https://www.fbsbx.com\\\", 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=(self), clipboard-write=(self), compute-pressure=(), display-capture=(self), encrypted-media=(self), fullscreen=(self), gamepad=*, geolocation=(self), gyroscope=(), hid=(), idle-detection=(), interest-cohort=(self), keyboard-map=(), local-fonts=(), magnetometer=(), microphone=(self), midi=(), otp-credentials=(), payment=(), picture-in-picture=(self), private-state-token-issuance=(), publickey-credentials-get=(self), screen-
    
```



```

microphone=(self), midi=(), otp-credentials=(), payment=(), picture-in-picture=(self), private-state-token-issuance=(), publickey-credentials-get=(self), screen-
wake-lock=(), serial=(), shared-storage=(), shared-storage-select-url=(), private-state-token-redemption=(), usb=(), unload=(self), window-management=(), xr-spatial-
tracking=(self);report-to="permissions_policy",
  "29": "cross-origin-resource-policy: same-origin",
  "30": "cross-origin-opener-policy: same-origin-allow-poppers",
  "31": "pragma: no-cache",
  "32": "cache-control: private, no-cache, no-store, must-revalidate",
  "33": "expires: Sat, 01 Jan 2000 00:00:00 GMT",
  "34": "x-content-type-options: nosniff",
  "35": "x-xss-protection: 0",
  "36": "origin-agent-cluster: ?1",
  "37": "strict-transport-security: max-age=15552000; preload",
  "38": "content-type: text/html; charset=utf-8",
  "39": "x-fb-debug: SW3jmc9ljpcJkaTrCeUVTGnYsLg060wWUYSGr36IAP50Lq10zYwzc+RNs0id4fNd04ak3AnhLRNm+LyoZPXpw==",
  "40": "date: Fri, 06 Mar 2026 09:15:38 GMT",
  "41": "x-fb-connection-quality: EXCELLENT; q=0.9, rtt=10, rtx=0, c=10, mss=1380, tbw=3962, tp=-1, tpl=-1, uplat=208, ullat=0",
  "42": "alt-svc: h3=443; ma=86400"
}
    
```

IPv6 HTTPS (port 443)

HTTP Status	200
Connected IP	2a03:2880:f17a:81:face:b00c:0:25de
Connect Time	4.02 ms
TTFB	640.1 ms
Total Time	640.27 ms

Response Headers:

```

{
  "0": "HTTP/2 301",
  "1": "location: https://www.facebook.com/",
  "2": "strict-transport-security: max-age=15552000; preload",
  "3": "content-type: text/html; charset=utf-8",
  "4": "x-fb-debug: cKUV6orQY6usNdfcTcYts3Unv051pNR4IfY0pAAyiAozMRCRwh+mE90uW9tu1EzjLyzs9UjVQ8fk9lrV39f0FQ==",
  "5": "content-length: 0",
  "6": "date: Fri, 06 Mar 2026 09:15:35 GMT",
  "7": "x-fb-connection-quality: EXCELLENT; q=0.9, rtt=2, rtx=0, c=10, mss=1380, tbw=3586, tp=-1, tpl=-1, uplat=199, ullat=0",
  "8": "alt-svc: h3=443; ma=86400",
  "10": "HTTP/2 302",
  "11": "location: https://www.facebook.com/unsupportedbrowser",
  "12": "strict-transport-security: max-age=15552000; preload",
  "13": "content-type: text/html; charset=utf-8",
  "14": "x-fb-debug: JP04YHzVged09Mh4rnWbYKhg620Ls9oyVW7rTxY/KdJbLWSNISRqfJq950wbTQivy0eo2LNjb2/Hk9ojISzodQ==",
  "15": "content-length: 0",
  "16": "date: Fri, 06 Mar 2026 09:15:35 GMT",
  "17": "x-fb-connection-quality: EXCELLENT; q=0.9, rtt=1, rtx=0, c=10, mss=1380, tbw=3585, tp=-1, tpl=-1, uplat=198, ullat=0",
  "18": "alt-svc: h3=443; ma=86400",
  "20": "HTTP/2 200",
  "21": "vary: Accept-Encoding",
  "22": "reporting-endpoints: coop_report=https://www.facebook.com/browser_reporting/coop/?minimize=0",
  default=https://www.facebook.com/ajax/browser_error_reports/?device_level=unknown&brsid=7614068782094361266&cpp=C3&cv=1034641024&st=1772788535549,
  permissions_policy=https://www.facebook.com/ajax/browser_error_reports/,
  "23": "report-to:
    {
      \"max_age\":2592000,\"endpoints\":[{\r\n\r\n\"https://www.facebook.com/browser_reporting/coop/?minimize=0\"}],\"group\":\"coop_report\", \"include_subdomains\":true},
      {
        \"max_age\":2592000,\"endpoints\":[{\r\n\r\n\"https://www.facebook.com/ajax/browser_error_reports/?device_level=unknown&brsid=7614068782094361266&cpp=C3&cv=1034641024&st=1772788535549\"}],\"group\":\"permissions_policy\"}
    ]
  "24": "content-security-policy: default-src blob: 'self' https://*.fbcdn.net *.facebook.com *.fbcdn.net;script-src *.facebook.com *.fbcdn.net *.facebook.net
    127.0.0.1.* 'nonce-KPXitIAV' blob: 'self' connect.facebook.net 'unsafe-eval' https://*.google-analytics.com *.google.com;style-src *.fbcdn.net data: *.facebook.com
    'unsafe-inline' https://fonts.googleapis.com;connect-src *.facebook.com *.fbcdn.net *.facebook.com *.fbcdn.net wss://*.facebook.com *.wss://*.whatsapp.com:
    wss://*.fbcdn.net attachment.fbsbx.com ws://localhost:* blob: *.cdninstagram.com 'self' http://localhost:3103 wss://gateway.facebook.com wss://edge-chat.facebook.com
    wss://snaptu-d.facebook.com wss://kaios-d.facebook.com/ v.whatsapp.net *.fbsbx.com *.fb.com *.instagram.com https://*.google-analytics.com;font-src data:
    *.facebook.com *.fbcdn.net *.fbsbx.com https://fonts.gstatic.com;img-src *.fbcdn.net *.facebook.com data: https://*.fbsbx.com facebook.com *.cdninstagram.com
    fbsbx.com fbcdn.net connect.facebook.net blob: android-webview-video-poster: *.whatsapp.net *.fb.com *.oculuscdn.com *.tenor.co *.tenor.com *.giphy.com
    https://trustly.one/ https://*.trustly.one/ https://paywithmybank.com/ https://*.paywithmybank.com/ https://www.googleadservices.com
    https://googleads.g.doubleclick.net https://*.google-analytics.com;media-src *.cdninstagram.com blob: *.fbcdn.net *.fbsbx.com www.facebook.com *.facebook.com data:
    *.tenor.co *.tenor.com https://*.giphy.com;child-src data: blob: 'self' https://*.fbsbx.com *.facebook.com *.fbcdn.net;frame-src *.facebook.com *.fbsbx.com fbsbx.com
    data: www.instagram.com *.fbcdn.net accounts.meta.com *.accounts.meta.com https://trustly.one/ https://*.trustly.one/ https://paywithmybank.com/
    https://*.paywithmybank.com/ https://www.googleadservices.com https://googleads.g.doubleclick.net https://www.google.com https://td.doubleclick.net *.google.com
    *.doubleclick.net;manifest-src data: blob: 'self' https://*.fbsbx.com *.facebook.com *.fbcdn.net;object-src data: blob: 'self' https://*.fbsbx.com *.facebook.com
    *.fbcdn.net;worker-src blob: *.facebook.com data: block-all-mixed-content;upgrade-insecure-requests";
  "25": "x-frame-options: DENY",
  "26": "document-policy: force-load-at-top",
  "27": "document-policy: include-js-call-stacks-in-crash-reports",
  "28": "permissions-policy: accelerometer=(), attribution-reporting=(self), autoplay=(), bluetooth=(), browsing-topics=(self), camera=(self
    \r\n\r\n\"https://www.fbsbx.com/\", 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=(self), clipboard-write=(self), compute-pressure=(), display-capture=(self), encrypted-media=(self),
    
```

```

fullscreen=(self), gamepad=*, geolocation=(self), gyroscope=(), hid=(), idle-detection=(), interest-cohort=(self), keyboard-map=(), local-fonts=(), magnetometer=(),
microphone=(self), midi=(), otp-credentials=(), payment=(), picture-in-picture=(self), private-state-token-issuance=(), publickey-credentials-get=(self), screen-
wake-lock=(), serial=(), shared-storage=(), shared-storage-select-url=(), private-state-token-redemption=(), usb=(), unload=(self), window-management=(), xr-spatial-
tracking=(self);report-to=\permissions_policy\\"",
  "29": "cross-origin-resource-policy: same-origin",
  "30": "cross-origin-opener-policy: same-origin-allow-popups",
  "31": "pragma: no-cache",
  "32": "cache-control: private, no-cache, no-store, must-revalidate",
  "33": "expires: Sat, 01 Jan 2000 00:00:00 GMT",
  "34": "x-content-type-options: nosniff",
  "35": "x-xss-protection: 0",
  "36": "origin-agent-cluster: ?1",
  "37": "strict-transport-security: max-age=15552000; preload",
  "38": "content-type: text/html; charset=\utf-8\"",
  "39": "x-fb-debug: 8wXLRfMEWvtPFi0ZKlp3L3TfwAEo7qv+Lrk97qeCpXQ0m5iNX8DXk76GF5s0LVPhuoya6oAeJYSLBPPoovMKIw==",
  "40": "date: Fri, 06 Mar 2026 09:15:35 GMT",
  "41": "x-fb-connection-quality: EXCELLENT; q=0.9, rtt=6, rtx=0, c=10, mss=1380, tbw=3963, tp=-1, tpl=-1, uplat=221, ullat=0",
  "42": "alt-svc: h3=\:443\"; ma=86400"
}
    
```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	301 0.002822 0.004909
TCP Connect IPv6 → port 80	301 0.001089 0.003146
TCP Connect IPv4 → port 443	301 0.001506 0.203814
TCP Connect IPv6 → port 443	301 0.001389 0.220985

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
76.13.221.0/24 dev eth0 proto kernel scope link src 76.13.221.142
    
```