

IPv6 Readiness Report

facebook.com — facebook.com




Scan to verify

Category: Social Media • Generated: 04 Jul 2026, 22:58 MYT • Last Checked: 04 Jul 2026, 03:23 MYT • Verification ID: 9b7f1738-9d16-40fe-bc3e-d7eb58521283

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

Audit trail: <https://ipv6.my6.my/audit/9b7f1738-9d16-40fe-bc3e-d7eb58521283>

 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 2a03:2880:f34c:1:face:b00c::25de	IPv4 ADDRESSES 57.144.78.1
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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:1:face:b00c::25de	
2	Globally Routable IPv6	PASS	All addresses are globally routable.	
3	HTTP over IPv6	PASS	HTTP (port 80) responds over IPv6 — 1303ms TTFB.	
4	HTTPS over IPv6	PASS	HTTPS (port 443) responds over IPv6 — 1278ms 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	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	57.144.78.1
2	HTTP over IPv4	PASS	HTTP (port 80) responds over IPv4 — 1825ms TTFB.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 1980ms TTFB.

Audit Trail & Evidence Record

Verification ID	9b7f1738-9d16-40fe-bc3e-d7eb58521283
Domain	facebook.com
Check Mode	Scheduled
Status	Completed
Started	04 Jul 2026, 03:22:25 MYT
Finished	04 Jul 2026, 03:23:06 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/9b7f1738-9d16-40fe-bc3e-d7eb58521283

Integrity Verification

✓ INTEGRITY VERIFIED	
Algorithm	hmac-sha256-v1
Root Hash	553158469b73e4b5a6a1cbd65e29d0d9566e75199e6b40300f9db35b1b312034
http_headers	8ffa455afb946d85637d9eb2ef7e3f5f2f7d8a30375d750c04b2a10b5d4131ab
dns_responses	bd0d0655839311507d8ebb95bbbc13ee871e4944608588931c927df9b8c4f8eb
tls_handshake	040a6c76099af7c8ee000c90f5e6f5e613713bd9eba62a799b996e5df9cb0a1f
connectivity_log	8db7bb3205e312304667949e85e55f6366063c49f72327e613b100299ecc3a96
dns_resolution_times	2c4fc8f2cb564395ef1660590476a0fe18767dac9f45f4f2b5718f078d9e5033

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	32.1	39.49	27.62	30.61	-4.5
Google	IPv4	37.6	40.15	41.33	41.83	+3.7
Google	IPv6	39.09	43.59	39.96	43.65	+0.9
Cloudflare	IPv4	31.39	34.54	29.46	29.96	-1.9
Cloudflare	IPv6	42.67	43.19	29.05	32.92	-13.6

DNS Evidence

A

```
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 47257
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
facebook.com. 60 IN A 163.70.132.35
```

DS

```
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 47809
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
com. 895 IN SOA a.gtld-servers.net. nstld.verisign-grs.com. 1783106561 1800 900 604800 900
```

MX

```
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 46719
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
facebook.com. 3600 IN MX 10 smtpin.vvv.facebook.com.
```

NS

```
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 21184
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 9

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
facebook.com. 86400 IN NS b.ns.facebook.com.
facebook.com. 86400 IN NS d.ns.facebook.com.
facebook.com. 86400 IN NS a.ns.facebook.com.
facebook.com. 86400 IN NS c.ns.facebook.com.
```

TXT

```
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 11545
;; flags: qr rd ra; QUERY: 1, ANSWER: 6, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
facebook.com. 7200 IN TXT "google-site-verification=A2WZWCNQrGV_TWwKh6KHY90tY0SHZo_RnyMJoDaG0s"
facebook.com. 7200 IN TXT "google-site-verification=sK6uY9x7eaMoEMfn30ILqwTFYgaNp4LlmgUKI-C3_ia"
facebook.com. 7200 IN TXT "google-site-verification=wdH5DTJtc9AYNwVunSVFeK0hyYDGUIE0Gb-RReU6pJLY"
facebook.com. 86400 IN TXT "v=spf1 redirect=_spf.facebook.com"
facebook.com. 3600 IN TXT "zoom-domain-verification=4b2ef4e1-6dee-4483-9869-9bef353fd147"
facebook.com. 3600 IN TXT "facebook-domain-verification=y7isfmi3kzyg1r4wophh9vvyb6pgbda"
```

AAAA

```
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 61372
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
facebook.com. 60 IN AAAA 2a03:2880:f17f:82: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: 59651
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
facebook.com. 273 IN SOA a.ns.facebook.com. dns.facebook.com. 4207849484 14400 1800 604800 300
```

DNSSEC_VALIDATION

```
; unsigned answer
facebook.com. 3572 IN SOA a.ns.facebook.com. dns.facebook.com. 4207849484 14400 1800 604800 300
```



```

LxU77A3sXwx33H4YHvWBj07VdhBmVtFepjzP8eYxnzqh3ocmkJHcDpSldIcpsbFf
BgpCIzXH0n6NX2H4A0I0nQRSxckmnL3/GAqG6U3Ii9xc4mxQb5Lnx2Yc6Q7aAgq
Xl40ga2uxW0DoSHsZQW4mEeZyPxtYgT46bjvKV1xB1FR7z6p85+yJ2u288hP1Uz
ub1e3y1N6ATKNsqT1vzAL+2MY+KyFe0zBN+KiMTQJb0Be4d4p/aKU07sQFAo6JhL
Er0emzyXRNojtlLpLkZovdpgkQxtqusGaww=
-----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-----
MIIEYDCCA7CgAwIBAgIQDPW9BitWAvR6uFAsI8zwZjANBgkqhkiG9w0BAQsFADBh
MQswCQYDVQQGEwJVUzEVMBMGA1UEChMMRGlnaUNlcnQgSW5jMRkwFwYDVQQLEgB3
d3cuZGlnaW5lcnQyMjY2tMSAwHgYDVQOExdEaWdpQ2VydCBHbG9iYWwUmdVdCBH
MjAeFw0yMTAzMzAwMDAwMDBaFw0zMTAzMjkyMzU5NTlaMFkxYzAjbG9uYmVhYXNlVU
MRUwEwYDVQQKEwEaWdpQ2VydCBjbmMzAxBG9uYmVhYXNlVUwZLjZlZDZjOUEEdsb2Jh
bCBHMmIUBTFTMgU1NBIjFNIQTi1NiAymDIwIENBMTCCASiWdQYJKoZIhvcNAQEBBQAD
ggEPADCCAQoCggEBAMz3EGJPrTjB+2QU1bFbSd7ehJWivH0+dbn4Y+91lavyYEEV
cNsSAPonCrVX0fT9sLGTcZU0akGUWzUb+nv6u8W+JDD+Vu/E832X4xT1FE3LpxDy
FuqrIvAxIhFhaZAmunjZlx/jfWardUSvc8is/+9dCopZQ+GssjOP80j812s3WMPc
3kbw20X+fSP9k0hRBx5Ro1/tSUZUfyyIxftQnJcVPAPOoTncaQwywa8W0yUR0J8
osicFebUTVSvQpmowQTCd5zW50T0EeAqJnwQ3DPP3Zr0UxJyRwg2C/Uaoq2Yt
zGJS0nWS+Jr6Xl6ysGHLHx+5fwmY6D36g39HaaECAwEAAaOACAYIwggF+MBIGA1Ud
EwEB/wQIMAYBAf8CAQAwHQYDVIR0BBYEFH5FgMBmx9833s+9KTeqAx2+7c0XMB8G
A1UdIwQYMBaAFE4iVAYlebjuYp+vq5Eu0GF485MA4GA1UdDwEB/wQEAwIBhjAd
BgNVHSUEFjAUBggrrBgEFBQcDAQYIKwYBBQUHAWIwdgYIKwYBBQUHAQEeajBoMCOG
CCsGAQUFBzABhhhdHRwOi8vb2NzcC5kaWdpY2VydC5jb20wQAYIKwYBBQUHMAKG
NgH0dHA6Ly9jYWNlcnRzLmRlZ2ZlZDZjOUEEdsb2JhbnFvY2VydEdsb2JhbFJvb3RH
Mi5jcnQwQgYDVIR0fBDSwOTA3oDwGm4YxaHR0cDovL2NybmDMuZGlnaW5lcnQyMj
L0R0RzZlZDZjOER2xvYmFsUm9vdEcyLmNyYDA9BGNVHSAENjA0MA5GCWCGSAGG/WwC
ATAHBGVngQwBATAIBgZngQwBAGAwEwCAyGZEMAIQICMAgGBmeBDAECAzANBgkqhkiG
9w0BAQsFAA0CAQEAKPFwyyiXaZd8dP3A+iZ7U6utzWX9upwGnIrXWkOH7U1MVL+t
wcW1BSAUwdH/SvWgKtiwLa3JLko716f2b4gp/DA/JIS7w7d7kwcSr4drdjPtAFVS
sLme5LnQ89/nd/7d+MS5EHKBCQRfz5eelJlJjs+aWNLJXMX43AYGyZm0pGrFmCW3R
bpD0ufovARTFXfZkAdL9h6g4U5+LXUZtXMYnhIHUfoym05t558aI7Dd8KvVwVVo4
chDYABPPTHpbqj1qCmBaZx2vN4Ye5DUys/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 3272 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

```



```

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"",
  "37": "cross-origin-resource-policy: same-origin",
  "38": "cross-origin-opener-policy: same-origin-allow-popups;report-to=\"coop_report\"",
  "39": "pragma: no-cache",
  "40": "cache-control: private, no-cache, no-store, must-revalidate",
  "41": "expires: Sat, 01 Jan 2000 00:00:00 GMT",
  "42": "x-content-type-options: nosniff",
  "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: FgnkII109ioV0bpAzD5gARu0Q23onc2Z2maPjn39fH/dwdsIjIjMjIRBgJDUUJ5TerKH/Bd+MS0+VnkaILnEgw==",
  "48": "date: Fri, 03 Jul 2026 19:22:59 GMT",
  "49": "x-fb-connection-quality: MODERATE; q=0.3, rtt=237, rtx=0, c=10, mss=1380, tbw=3953, tp=-1, tpl=-1, uplat=58, ullat=0",
  "50": "alt-svc: h3=\":443\"; ma=86400"
}
    
```

IPv4 HTTPS (port 443)

HTTP Status	200
Connected IP	57.144.78.1
Connect Time	469.73 ms
TTFB	1994.45 ms
Total Time	1994.61 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: owQ6eS0lV582NUUdZ7ZmrEmBGnciyTtCLT+7YkCRUWa6xXSKvCXXb4RjvKgg9tI95+Xd6wGsJ8jb+CIKNYpa0==",
  "5": "content-length: 0",
  "6": "date: Fri, 03 Jul 2026 19:23:03 GMT",
  "7": "x-fb-connection-quality: MODERATE; q=0.3, rtt=233, rtx=0, c=10, mss=1380, tbw=3578, tp=-1, tpl=-1, uplat=66, 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: MV2+nz6owkZ5Gd31K4jnlNHaedH5Vp/Cg45xW7NN62C/u+4HAr8uL4DghbdmGsIdqwx3rt0PzCnxh5zk4nE0A==",
  "15": "content-length: 0",
  "16": "date: Fri, 03 Jul 2026 19:23:04 GMT",
  "17": "x-fb-connection-quality: MODERATE; q=0.3, rtt=233, rtx=0, c=10, mss=1380, tbw=3600, tp=-1, tpl=-1, uplat=57, 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&bsid=7658384464932646882&cpp=C3&cv=1042616770&st=1783106584726",
  permissions_policy="https://www.facebook.com/ajax/browser_error_reports/",
  "23": "report-to:
  {\"max_age\":259200,\"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&bsid=7658384464932646882&cpp=C3&cv=1042616770&st=1783106584726\\"}],\"group\":\\"permissions_policy\"}],
  {\"max_age\":21600,\"endpoints\":[{\\"url\":\\"https://www.facebook.com/ajax/browser_error_reports/\\\"}],\"group\":\\"permissions_policy\"}",
  "24": "content-security-policy: default-src blob: 'self' https://*.fbcdn.net *.facebook.com *.fbcdn.net *.facebook.net *.whatsapp.com *.whatsapp.net;script-src
  *.facebook.com *.fbcdn.net *.fbcdn.net 127.0.0.1:* 'nonce-bUwPZ540' blob: 'self' connect.facebook.net 'unsafe-eval' https://accounts.google.com https://*.google-
  analytics.com *.google.com;style-src *.fbcdn.net data: *.facebook.com 'unsafe-inline' https://accounts.google.com https://fonts.googleapis.com;connect-src
  *.facebook.com facebook.com *.fbcdn.net *.facebook.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 *.fbcdn.net *.fb.com *.instagram.com https://accounts.google.com https://*.google-analytics.com;font-src data: *.facebook.com *.fbcdn.net *.fbcdn.net
  https://fonts.gstatic.com;img-src *.fbcdn.net *.facebook.com data: https://*.fbcdn.net 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://www.googleads.g.doubleclick.net https://*.google-analytics.com;media-src
  *.cdninstagram.com blob: *.fbcdn.net *.fbcdn.net www.facebook.com *.facebook.com data: *.tenor.co *.tenor.com https://*.giphy.com;child-src data: blob: 'self'
  https://*.fbcdn.net *.facebook.com *.fbcdn.net;frame-src *.facebook.com *.fbcdn.net 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://*.fbcdn.net *.facebook.com *.fbcdn.net;object-src data: blob: 'self' https://*.fbcdn.net *.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)
    
```

```

\ "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: pC800UdvYLRQtsRF1efyKZDl64v7MxIGurzrMMYtIo8M4YYNknFH5rZlwBbz0c5qaSilPbjLIV7JQcGepbw==" ,
  "40": "date: Fri, 03 Jul 2026 19:23:04 GMT" ,
  "41": "x-fb-connection-quality: MODERATE; q=0.3, rtt=233, rtx=0, c=10, mss=1380, tbw=3977, tp=-1, tpl=-1, uplat=214, ullat=0" ,
  "42": "alt-svc: h3=\ ":443\ "; ma=86400"
}

```

IPv6 HTTPS (port 443)

HTTP Status	200
Connected IP	2a03:2880:f31e:1:face:b00c:0:25de
Connect Time	246.34 ms
TTFB	1275.28 ms
Total Time	1275.49 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: VXFdmT7wmNJau2qtSUEWPaiNhXw9gs79Pq7UCd0o9eBCJ0FG93EoppXodF2rfXlqHdLCmvEKTn2Wx5Z4Bz0sS0==" ,
  "5": "content-length: 0" ,
  "6": "date: Fri, 03 Jul 2026 19:22:59 GMT" ,
  "7": "x-fb-connection-quality: EXCELLENT; q=0.9, rtt=8, rtx=0, c=10, mss=1380, tbw=3577, tp=-1, tpl=-1, uplat=205, 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: lKym0CQCDWB4oNe1Q3QKAJgk7p0Xq0IkW0I9CJD3BV+DgmRh0tgUgpbD3oty690MgoAaCW1kdWu0TbaExBSUw==" ,
  "15": "content-length: 0" ,
  "16": "date: Fri, 03 Jul 2026 19:23:00 GMT" ,
  "17": "x-fb-connection-quality: MODERATE; q=0.3, rtt=235, rtx=0, c=10, mss=1380, tbw=3578, tp=-1, tpl=-1, uplat=29, 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&bsrid=765838444795855338&cpp=C3&cv=1042616770&st=1783106580501\ " ,
  permissions_policy=\ "https://www.facebook.com/ajax/browser_error_reports/\ " ,
  "23": "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=765838444795855338&cpp=C3&cv=1042616770&st=1783106580501\ "}],\ "group\ ":\ "permissions_policy\ " } ,
  "24": "content-security-policy: default-src blob: 'self' https://*.fbsbx.com *.facebook.com *.fbcdn.net *.facebook.net *.whatsapp.com *.whatsapp.net;script-src
  *.facebook.com *.fbcdn.net *.facebook.net 127.0.0.1:* 'nonce-7B0YK5Gq' blob: 'self' connect.facebook.net 'unsafe-eval' https://accounts.google.com https://*.google-
  analytics.com *.google.com;style-src *.fbcdn.net data: *.facebook.com 'unsafe-inline' https://accounts.google.com https://fonts.googleapis.com;connect-src
  *.facebook.com facebook.com *.fbcdn.net *.facebook.net wss://*.facebook.com * wss://*.whatsapp.com * wss://*.fbcdn.net attachment.fbsbx.com wss://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://accounts.google.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
\"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: 9r+W0RVUSuVvKRI14pbdB8vuRfyxujFiMfkZLadMat91miLcr3nlgAZvh70swBJEwtwPLnpq0SfxQ2RxZ43clNQ==",
"40": "date: Fri, 03 Jul 2026 19:23:00 GMT",
"41": "x-fb-connection-quality: MODERATE; q=0.3, rtt=235, rtx=0, c=10, mss=1380, tbw=3955, tp=-1, tpl=-1, uplat=55, ullat=0",
"42": "alt-svc: h3=\":443\"; ma=86400"
}
    
```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	301 0.234562 0.471730
TCP Connect IPv6 → port 80	301 0.009245 0.018840
TCP Connect IPv4 → port 443	301 0.235469 0.768540
TCP Connect IPv6 → port 443	301 0.010884 0.258783

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
    
```