

IPv6 Readiness Report

citigroup.com — citigroup.com



Scan to verify

Category: Banking • Generated: 13 Jun 2026, 18:46 MYT • Last Checked: 13 Jun 2026, 00:48 MYT • Verification ID: b32aa1dc-afac-4576-be99-11c8b81ba5ce
Report generated from National IPv6 Readiness Monitor — <https://ipv6.my6.my>
Audit trail: <https://ipv6.my6.my/audit/b32aa1dc-afac-4576-be99-11c8b81ba5ce>

<p>X</p> <p>Non-Compliant</p> <p>MGv6C-1.0</p>	<p>28%</p> <p>No IPv6 Support</p>	<p>IPv6-ONLY READINESS</p> <p>Website: X Not Ready</p> <p>DNS: X Not Ready</p> <p>Email: X Not Ready</p>
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IPv4 ADDRESSES
104.96.178.165
104.94.222.171

Network Information (WHOIS / RDAP)

IPv4 Network	
Organization	Akamai Technologies, Inc.
Country	US
ASN	AS33905
ASN Name	AKAMAI-AMS - Akamai International B.V., NL
Network (CIDR)	104.64.0.0/10

Web Services (35%)				0 / 8
#	CHECK	RESULT	DETAIL	
1	AAAA Record	FAIL	No AAAA record found in DNS.	
2	Globally Routable IPv6	FAIL	IPv6 address is not globally routable.	
3	HTTP over IPv6	FAIL	HTTP is not accessible over IPv6.	
4	HTTPS over IPv6	FAIL	HTTPS is not accessible over IPv6.	
5	IPv6-Only Reachability	FAIL	Site is not reachable when limited to IPv6-only.	
6	TLS Certificate Valid (IPv6)	FAIL	TLS certificate is invalid, expired, or hostname mismatch over IPv6.	
7	Dual-Stack (IPv4 + IPv6)	FAIL	Domain is IPv6-only or IPv4-only.	
8	HTTP/3 (QUIC)	FAIL	No HTTP/3 support detected.	

DNS & DNSSEC (25%)				0 / 5
#	CHECK	RESULT	DETAIL	
1	NS Has AAAA Record	FAIL	No nameserver has an AAAA record.	
2	NS Reachable via IPv6	FAIL	No nameserver is reachable over IPv6.	
3	NS Answers Queries via IPv6	FAIL	Nameserver does not answer queries over IPv6.	
4	DNSSEC Validated	FAIL	DNSSEC validation failed or zone is unsigned.	
5	Reverse DNS (PTR)	FAIL	No PTR record found.	
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%) 3 / 6

#	CHECK	RESULT	DETAIL
1	MX Record Exists	PASS	MX record found.
2	MX Server Has IPv6	FAIL	MX server has no IPv6 address.
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	No common DKIM selector found.
7	DMARC Record	PASS	DMARC record found.

IPv4 Baseline (15%) 3 / 3

#	CHECK	RESULT	DETAIL
1	A Record	PASS	104.96.178.165, 104.94.222.171
2	HTTP over IPv4	PASS	HTTP (port 80) responds over IPv4 — 323ms TTFB.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 238ms TTFB.

Audit Trail & Evidence Record

Verification ID	b32aa1dc-afac-4576-be99-11c8b81ba5ce
Domain	citigroup.com
Check Mode	Scheduled
Status	Completed
Started	13 Jun 2026, 00:48:40 MYT
Finished	13 Jun 2026, 00:48:46 MYT
Test Node Profile	ipv6 only
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/b32aa1dc-afac-4576-be99-11c8b81ba5ce

Integrity Verification

✓ INTEGRITY VERIFIED	
Algorithm	hmac-sha256-v1
Root Hash	b147e743d7906d458c33968233a0ac204776814d6f08a5c1909d93cb149fba73
http_headers	aae00c31027bc28a9e75b75089b81fd6d415c19b55e03c1af50646b2a27282eb
dns_responses	ed9d283b693087bd738d5cbd6312f5c91b10593af179f6aeec7faf8d5762aa91
tls_handshake	eadbe1ca93dea5def5ba0ac5c80fa0d37619c5ee1efcd85021d98cca7204f9af
connectivity_log	bf5944abdcaae683723e81684dad3f56ce06c3e42a840ba467ad3c3776d15e7d
dns_resolution_times	69ddb4a78074d301dec059811560c4b9ceba4f735e4084a19fedc259fd9cde6

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	8.3.31
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	6.9	19.83	6.04	17.39	-0.9
Google	IPv4	20.88	23.33	22.32	26.08	+1.4
Google	IPv6	32.89	35.97	32.89	33.59	0
Cloudflare	IPv4	24	25.01	24.19	29.76	+0.2
Cloudflare	IPv6	29.8	32.73	38.88	42.35	+9.1

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 55838
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
citigroup.com. 3600 IN A 104.96.178.165
citigroup.com. 3600 IN A 104.94.222.171
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 64713
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
com. 884 IN SOA a.gtld-servers.net. nstld.verisign-grs.com. 1781282893 1800 900 604800 900
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 43598
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
citigroup.com. 1800 IN MX 5 mx-b.mail.citi.com.
citigroup.com. 1800 IN MX 5 mx-a.mail.citi.com.
```

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 54578
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
citigroup.com. 3600 IN NS ns2.nsroot2.com.
citigroup.com. 3600 IN NS ns1.nsroot1.com.
```

TXT

```
;; Truncated, retrying in TCP mode.
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 62076
;; flags: qr rd ra; QUERY: 1, ANSWER: 16, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
citigroup.com. 3600 IN TXT "google-site-verification=a5KdIF5qvy8oEnlloMupZkvHZiN39w_Sc_wqWtJZDI"
citigroup.com. 3600 IN TXT "google-site-verification=aFfLeCV8R5d0_bwkfnkyLB-RaRNaZ_vYRC_yM_z6rSM"
citigroup.com. 3600 IN TXT "google-site-verification=fFBk708T6VrNiFf8tgKZCw8vLZRvagtVZL-EnvQcOzY"
citigroup.com. 3600 IN TXT "google-site-verification=jyExexyBISL-RPnkFRcw-mDH_ar3jJH71dDGXCNvAUQ"
citigroup.com. 3600 IN TXT "cisco-ci-domain-verification=4ff6832706517f60b04d042675c64a5525964fb03e1eb52365349b8b765063df"
citigroup.com. 3600 IN TXT "paloaltonetworks-site-verification=3882d978b07397802d48b9068f445c4de7b6e8fc234da8251d8d77cc0e055342"
citigroup.com. 3600 IN TXT "v=spf1 a:1._spf.citigroup.com include:_spf.citigroup.com ip4:00123c01.pphosted.com redirec=ext1._spf.citigroup.com"
citigroup.com. 3600 IN TXT "postman-domain-verification=b0973f7c46e67edf55bb3d7f0de30d91ae3c1329d2512ad912375d873557ec111f5e579af0d3e0903d8ff7cf1ebfb3c9e219bbdbf12203912f850ab59087acee"
citigroup.com. 3600 IN TXT "MS=ms92288257"
citigroup.com. 3600 IN TXT "MS=617A9E7598377F278D9D3B8CEBB893E897E4391D"
citigroup.com. 3600 IN TXT "facebook-domain-verification=2amqbctg7cv6hq0dxq4tf107b3y0zn"
citigroup.com. 3600 IN TXT "globalsign-domain-verification=5333822B44304398DE567C2747872C29"
citigroup.com. 3600 IN TXT "webexdomainverification.9L49J=8ea68d0a-1e43-4ae8-9f61-f0dc3a1ba394"
citigroup.com. 3600 IN TXT "google-site-verification=B2RTefeDQDD6q_dj0f22I7ncFCBM1hs00uR29V5rbbo"
citigroup.com. 3600 IN TXT "google-site-verification=Lu5SecxuGzVLD5x0gdMcF244K0FnquxxCegkBP8DUuBY"
citigroup.com. 3600 IN TXT "google-site-verification=W1oZvZ4pAy7ASU5vtQdbeLvsM-BLaTKqQUKHkEfKkWB"
```

AAAA

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 41126
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
citigroup.com. IN SOA ns1.nsroot1.com. hostmaster.citi.com. 2021103026 3600 300 2419200 3600
```

RRSIG

```
ns1.nsroot1.com. hostmaster.citi.com. 2021103026 3600 300 2419200 3600
```

DNSKEY

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 59989
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
citigroup.com. IN SOA ns1.nsroot1.com. hostmaster.citi.com. 2021103026 3600 300 2419200 3600
```

DNSSEC_VALIDATION

```
; unsigned answer
citigroup.com. IN SOA ns1.nsroot1.com. hostmaster.citi.com. 2021103026 3600 300 2419200 3600
```


HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	403
Connected IP	104.96.178.165
Connect Time	55.78 ms
TTFB	121.75 ms
Total Time	121.79 ms

Response Headers:

```
[
  "HTTP/1.1 403 Forbidden",
  "Server: AkamaiGHost",
  "Mime-Version: 1.0",
  "Content-Type: text/html",
  "Content-Length: 363",
  "Expires: Fri, 12 Jun 2026 16:48:45 GMT",
  "Cache-Control: max-age=0, no-cache, no-store",
  "Pragma: no-cache",
  "Date: Fri, 12 Jun 2026 16:48:45 GMT",
  "Connection: close"
]
```

IPv4 HTTPS (port 443)

HTTP Status	403
Connected IP	104.96.178.165
Connect Time	53.42 ms
TTFB	225.8 ms
Total Time	225.84 ms

Response Headers:

```
[
  "HTTP/1.1 403 Forbidden",
  "Server: AkamaiGHost",
  "Mime-Version: 1.0",
  "Content-Type: text/html",
  "Content-Length: 363",
  "Expires: Fri, 12 Jun 2026 16:48:45 GMT",
  "Cache-Control: max-age=0, no-cache, no-store",
  "Pragma: no-cache",
  "Date: Fri, 12 Jun 2026 16:48:45 GMT",
  "Connection: close"
]
```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	301 0.054762 0.121844
TCP Connect IPv4 → port 443	301 0.053027 0.234596

Test Node Network Evidence

Node Profile	ipv6 only
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Egress Connectivity

IPv4 Egress	76.13.221.142
IPv6 Egress	unreachable

Sysctl IPv6 Flags

net.ipv6.conf.all.disable_ipv6	0
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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
```