

IPv6 Readiness Report

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Scan to verify

Category: Banking • Generated: 04 Jul 2026, 22:40 MYT • Last Checked: 04 Jul 2026, 03:04 MYT • Verification ID: 08bde6f3-c7cc-4887-afea-5813f64b405e

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

Audit trail: <https://ipv6.my6.my/audit/08bde6f3-c7cc-4887-afea-5813f64b405e>

<p>X</p> <p>Non-Compliant</p> <p>MGv6C-1.0</p>	<p>55%</p> <p>No IPv6 Support</p>	<p>IPv6-ONLY READINESS</p> <p>Website: X Not Ready</p> <p>DNS: ✓ Ready</p> <p>Email: X Not Ready</p>
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<p>IPv6 ADDRESSES</p> <p>240e:668:2001::149</p>	<p>IPv4 ADDRESSES</p> <p>203.93.9.25</p>
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Network Information (WHOIS / RDAP)

	IPv6 Network	IPv4 Network
Organization	CT-IPv6-LEASED-LINE-ADDRESS	CEIC-CN
Country	CN	CN
ASN	AS4134	AS4808
ASN Name	CHINANET-BACKBONE - No.31,Jin-rong Street, CN	CHINA169-BJ - China Unicom Beijing Province Network, CN
Network (CIDR)	240e:600::/24	203.93.9.0/24

Web Services (35%) 4 / 8			
#	CHECK	RESULT	DETAIL
1	AAAA Record	PASS	240e:668:2001::149
2	Globally Routable IPv6	PASS	All addresses are globally routable.
3	HTTP over IPv6	PASS	HTTP (port 80) responds over IPv6 — 495ms TTFB.
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)	PASS	Domain has both A and AAAA records.
8	HTTP/3 (QUIC)	FAIL	No HTTP/3 support detected.

DNS & DNSSEC (25%) 3 / 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)	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	DKIM selector found: default_domainkey
7	DMARC Record	PASS	DMARC record found.

IPv4 Baseline (15%) 2 / 3

#	CHECK	RESULT	DETAIL
1	A Record	PASS	203.93.9.25
2	HTTP over IPv4	PASS	HTTP (port 80) responds over IPv4 — 273ms TTFB.
3	HTTPS over IPv4	FAIL	HTTPS is not accessible over IPv4.

Audit Trail & Evidence Record

Verification ID	08bde6f3-c7cc-4887-afea-5813f64b405e
Domain	ccb.com
Check Mode	Scheduled
Status	Completed
Started	04 Jul 2026, 03:03:16 MYT
Finished	04 Jul 2026, 03:04:35 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/08bde6f3-c7cc-4887-afea-5813f64b405e

Integrity Verification

✓ INTEGRITY VERIFIED	
Algorithm	hmac-sha256-v1
Root Hash	8aac6a4d4dd1f0fd7456af315f3e976b0dc85f0d41c249fae6dce05bffd19ced
http_headers	920c90226c65299153416f12aa416341a5c69eb56eed2e01ad2ad44ba128a48e
dns_responses	29ea703356f253f77c2884f0878c175235c8948521dd201a0133dfb8fe83d6d9
tls_handshake	c7f0085b60dc1a842db7826e09d563218886d012daa085baffca5e13fc46da38
connectivity_log	10a02f09ae0fcd06c300344600e249d8384f46a95a89769c3488fd0938b09b28
dns_resolution_times	70a94c0f489dbfe9fcf5b8194a41e86c602ded376c06fd46d58300537d2da2e9

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	26.54	27.18	60.31	2137.09	+33.8
Google	IPv4	58.78	77.66	265.24	344.39	+206.5
Google	IPv6	111.48	273	145.83	302.42	+34.4
Cloudflare	IPv4	47.99	57.85	42.68	50.83	-5.3
Cloudflare	IPv6	36.11	129.87	106.68	126.16	+70.6

DNS Evidence

A

```
;; communications error to 127.0.0.1#5335: timed out
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 41914
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
ccb.com. 299 IN A 111.46.49.89
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 18276
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
com. 898 IN SOA a.gtld-servers.net. nstld.verisign-grs.com. 1783105421 1800 900 604800 900
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 40455
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
ccb.com. 300 IN MX 5 mail-in1.ccb.com.
ccb.com. 300 IN MX 5 mail-in3.ccb.com.
ccb.com. 300 IN MX 5 mail-in4.ccb.com.
ccb.com. 300 IN MX 5 mail-in2.ccb.com.
```

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 23701
;; flags: qr rd ra; QUERY: 1, ANSWER: 5, AUTHORITY: 0, ADDITIONAL: 19

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
ccb.com. 1800 IN NS ns4.ccb.com.
ccb.com. 1800 IN NS ns1.ccb.com.
ccb.com. 1800 IN NS ns3.ccb.com.
ccb.com. 1800 IN NS ns5.ccb.com.
ccb.com. 1800 IN NS ns2.ccb.com.
```

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 6562
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
ccb.com. 300 IN TXT "v=spf1 ip4:223.72.147.0/24 ip4:124.127.253.0/24 -all"
```

AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 27041
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
ccb.com. 300 IN AAAA 2408:864e:c05:1::14a
```

RRSIG

```
ns2.ccb.com. liuyanan.ccb.com. 2026062316 10800 3600 604800 60
```

DNSKEY

```
;; communications error to 127.0.0.1#5335: timed out
;; communications error to 127.0.0.1#5335: timed out
;; communications error to 127.0.0.1#5335: timed out

; <<>> DiG 9.18.39-0ubuntu0.24.04.5-Ubuntu <<>> @127.0.0.1 -p 5335 ccb.com DNSKEY +noall +answer +authority +comments
; (1 server found)
;; global options: +cmd
;; no servers could be reached
```

DNSSEC_VALIDATION

```
; unsigned answer
ccb.com. IN SOA ns2.ccb.com. liuyanan.ccb.com. 2026062316 10800 3600 604800 60
```

TLS Handshake Evidence

IPV4 Connection

IP Used	203.93.9.25
IP Version	4

```

4057CA777A750000:error:0A000152:SSL routines:final_renegotiate:unsafe legacy renegotiation disabled:../ssl/statem/extensions.c:893:
CONNECTED(00000010)
---
no peer certificate available
---
No client certificate CA names sent
---
SSL handshake has read 91 bytes and written 316 bytes
Verification: OK
---
New, (NONE), Cipher is (NONE)
Secure Renegotiation IS NOT supported
Compression: NONE
Expansion: NONE
No ALPN negotiated
SSL-Session:
  Protocol  : TLSv1.2
  Cipher    : 0000
  Session-ID: D389D56AEB942C14E4BC481F68B139931933AC8E02F0F1DDA7E9CA3E0751C638
  Session-ID-ctx:
  Master-Key:
  PSK identity: None
  PSK identity hint: None
  SRP username: None
  Start Time: 1783105462
  Timeout   : 7200 (sec)
  Verify return code: 0 (ok)
  Extended master secret: no
  ---
    
```

IPV6 Connection

IP Used	240e:668:2001::149
IP Version	6

```

40E73C6FF47E0000:error:0A000152:SSL routines:final_renegotiate:unsafe legacy renegotiation disabled:../ssl/statem/extensions.c:893:
CONNECTED(00000010)
---
no peer certificate available
---
No client certificate CA names sent
---
SSL handshake has read 85 bytes and written 316 bytes
Verification: OK
---
New, (NONE), Cipher is (NONE)
Secure Renegotiation IS NOT supported
Compression: NONE
Expansion: NONE
No ALPN negotiated
SSL-Session:
  Protocol  : TLSv1.2
  Cipher    : 0000
  Session-ID: AB0C4DBFD8DA6D9ADE0058772E94F2B7B931EE1BF22C66043BF64F0CA6F03C75
  Session-ID-ctx:
  Master-Key:
  PSK identity: None
  PSK identity hint: None
  SRP username: None
  Start Time: 1783105462
  Timeout   : 7200 (sec)
  Verify return code: 0 (ok)
  Extended master secret: no
  ---
    
```


HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	200
Connected IP	203.93.9.25
Connect Time	141.1 ms
TTFB	282.15 ms
Total Time	282.19 ms

Response Headers:

```
[
  "HTTP/1.1 200 OK",
  "Date: Fri, 03 Jul 2026 19:04:24 GMT",
  "Server: Apache",
  "Accept-Ranges: bytes",
  "Vary: Accept-Encoding",
  "Cache-Control: max-age=0",
  "Expires: Fri, 03 Jul 2026 19:04:24 GMT",
  "Content-Length: 439",
  "Content-Type: text/html; charset=UTF-8",
  "Set-Cookie: null=IDGbQizoELZxgZ7KlluBMMyBfX9ayMu7KWJCAMn2d31rYdY2A5JfHiMpmoonpyCxq+zayb0orNh44xe7I=; path=/"
]
```

IPv6 HTTP (port 80)

HTTP Status	200
Connected IP	240e:668:2001::149
Connect Time	238.55 ms
TTFB	479.37 ms
Total Time	479.42 ms

Response Headers:

```
[
  "HTTP/1.1 200 OK",
  "Date: Fri, 03 Jul 2026 19:04:23 GMT",
  "Server: Apache",
  "Accept-Ranges: bytes",
  "Vary: Accept-Encoding",
  "Cache-Control: max-age=0",
  "Expires: Fri, 03 Jul 2026 19:04:23 GMT",
  "Content-Length: 439",
  "Content-Type: text/html; charset=UTF-8",
  "Set-Cookie: null=!i0+0zXsEFzn08PTaTbyfSJe/wI/io7bzHbMfCfmy0h0dohqKcnQbNdu+ze1TYzmMwr1+1KM0wx7Lp3KY2Y3qEPv30UPex9eWT45Kc0ef; path=/"
]
```

IPv4 HTTPS (port 443)

HTTP Status	0
Connected IP	203.93.9.25
Connect Time	139.29 ms
TTFB	0 ms
Total Time	282.83 ms
Error	OpenSSL/3.0.13: error:0A000152:SSL routines::unsafe legacy renegotiation disabled

IPv6 HTTPS (port 443)

HTTP Status	0
Connected IP	240e:668:2001::149
Connect Time	267.65 ms
TTFB	0 ms
Total Time	554.4 ms
Error	OpenSSL/3.0.13: error:0A000152:SSL routines::unsafe legacy renegotiation disabled

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	200 0.140443 0.282795
TCP Connect IPv6 → port 80	200 0.298436 9.604816
TCP Connect IPv4 → port 443	000 0.139797 0.000000
TCP Connect IPv6 → port 443	000 0.232844 0.000000

Test Node Network Evidence

Node Profile	dual stack
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Egress Connectivity

IPv4 Egress	unreachable
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
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
```