IPv6 Readiness Report

ccb.com — ccb.com

Scan to verify

Category: Banking • Generated: 02 Nov 2026, 02:47 MYT • Last Checked: 08 Aug 2026, 18:02 MYT • Verification ID: 7acd06cd-f284-4909-b6d4-142ec1438c6c
Report generated from National IPv6 Readiness Monitor — https://ipv6.my6.my
Audit trail: https://ipv6.my6.my/audit/7acd06cd-f284-4909-b6d4-142ec1438c6c

✗
Non-Compliant
MGv6C-1.0

55%
No IPv6 Support

IPV6-ONLY READINESS
Website: ✗ **Not Ready**
DNS: ✓ **Ready**
Email: ✗ **Not Ready**

IPV6 ADDRESSES
2408:864e:c05::149

IPV4 ADDRESSES
111.205.126.206

Network Information (WHOIS / RDAP)

	IPv6 Network	IPv4 Network
Organization	CU-CN	UNICOM-BJ
Country	CN	CN
ASN	AS4837	AS4808
ASN Name	CHINA169-Backbone - CHINA UNICOM China169 Backbone, CN	CHINA169-BJ - China Unicom Beijing Province Network, CN
Network (CIDR)	2408:8000::/20	111.192.0.0/12

Web Services (35%) — 4 / 8

#	CHECK	RESULT	DETAIL
1	**AAAA Record**	PASS	2408:864e:c05::149
2	**Globally Routable IPv6**	PASS	All addresses are globally routable.
3	**HTTP over IPv6**	PASS	HTTP (port 80) responds over IPv6 — 4869ms 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	111.205.126.206
2	**HTTP over IPv4**	PASS	HTTP (port 80) responds over IPv4 — 386ms TTFB.
3	**HTTPS over IPv4**	FAIL	HTTPS is not accessible over IPv4.

Audit Trail & Evidence Record

Verification ID	7acd06cd-f284-4909-b6d4-142ec1438c6c
Domain	ccb.com
Check Mode	Manual
Status	Completed
Started	08 Aug 2026, 18:01:29 MYT
Finished	08 Aug 2026, 18:02:40 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/7acd06cd-f284-4909-b6d4-142ec1438c6c

Integrity Verification

✓ **INTEGRITY VERIFIED**

Algorithm	hmac-sha256-v1
Root Hash	4ba59946237f894976ff65e948f5dda3c9e9b9bbeb8f5150d83fb8aec81fa1cc
http_headers	896328e601340ed5221f02293b00e885598199c25be0b6c9abd9fa1745b1af0c
dns_responses	3c27bbd2178c7f9213ae8c307e08edfe96f00443ae27997d52a17573fda2db52
tls_handshake	c50837011379d37586b239d64f53929bc5d770c0ef40959a35bdd3aa7b8c1f04
connectivity_log	6a22048fbc7ae483e7914594e04b97ef85974b624ef1e527532613b8c2a5d585
dns_resolution_times	def4bd39bd2222965a39748046e0c3e85908a6bb72d505dc0f8be86fec4a1a3f

Test Node Identity

Os	Linux srv1440888 6.8.0-136-generic #136-Ubuntu SMP PREEMPT_DYNAMIC Wed Jul 1 21:53:05 UTC 2026 x86_64
Hostname	srv1440888
Php Version	8.3.33
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	24.11	26.22	31.14	37.48	+7
Google	IPv4	77.19	89.54	233.79	352	+156.6
Google	IPv6	233.33	373.81	97.28	222.58	-136.1
Cloudflare	IPv4	31.47	35.05	34.7	37.2	+3.2
Cloudflare	IPv6	30.93	37.93	25.28	29.76	-5.7

DNS Evidence

A

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 8910
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
ccb.com.□□157□IN□A□111.205.126.206
```

DS

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 20151
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
com.□□□773□IN□SOA□a.gtld-servers.net. nstld.verisign-grs.com. 1786183184 1800 900 604800 900
```

MX

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 56692
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
ccb.com.□□158□IN□MX□5 mail-in2.ccb.com.
ccb.com.□□158□IN□MX□5 mail-in4.ccb.com.
ccb.com.□□158□IN□MX□5 mail-in3.ccb.com.
ccb.com.□□158□IN□MX□5 mail-in1.ccb.com.
```

NS

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 23910
;; flags: qr rd ra; QUERY: 1, ANSWER: 5, AUTHORITY: 0, ADDITIONAL: 19

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
ccb.com.□□1658□IN□NS□ns2.ccb.com.
ccb.com.□□1658□IN□NS□ns5.ccb.com.
ccb.com.□□1658□IN□NS□ns4.ccb.com.
ccb.com.□□1658□IN□NS□ns1.ccb.com.
ccb.com.□□1658□IN□NS□ns3.ccb.com.
```

TXT

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 62595
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
ccb.com.□□158□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: 7962
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
ccb.com.□□157□IN□AAAA□2409:8700:1821:f2::25
```

RRSIG

```
ns2.ccb.com. liuyanan.ccb.com. 2026080653 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.□□3424□IN□SOA□ns2.ccb.com. liuyanan.ccb.com. 2026080653 10800 3600 604800 60
```

TLS Handshake Evidence

IPV4 Connection

IP Used	111.205.126.206
IP Version	4

```
40B70521F77F0000: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: 3F542113A1B85F8C70B633A0AD25B6A8CADB78D160683C3F395C1B51869095EC
    Session-ID-ctx:
    Master-Key:
    PSK identity: None
    PSK identity hint: None
    SRP username: None
    Start Time: 1786183346
    Timeout   : 7200 (sec)
    Verify return code: 0 (ok)
    Extended master secret: no
---
```

IPV6 Connection

IP Used	2408:864e:c05::149
IP Version	6

```
40676FC4A0790000: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: 0DC275E9672E22FFB82A3E2946771DB8A1FE3D0E9B42F17406360E5180CE9251
    Session-ID-ctx:
    Master-Key:
    PSK identity: None
    PSK identity hint: None
    SRP username: None
    Start Time: 1786183344
    Timeout   : 7200 (sec)
    Verify return code: 0 (ok)
    Extended master secret: no
---
```

HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	200
Connected IP	111.205.126.206
Connect Time	198.69 ms
TTFB	1000.3 ms
Total Time	1000.34 ms

Response Headers:


```
[
    "HTTP/1.1 200 OK",
    "Date: Sat, 08 Aug 2026 10:02:33 GMT",
    "Server: Apache",
    "Accept-Ranges: bytes",
    "Vary: Accept-Encoding",
    "Cache-Control: max-age=0",
    "Expires: Sat, 08 Aug 2026 10:02:33 GMT",
    "Content-Length: 439",
    "Content-Type: text/html; charset=UTF-8",
    "Set-Cookie: null=!pEzpFNecxeUebUGfnjGE6MQLd1/Qg4OAK/UKLmYYZSyc4FG3ipZxXuyurtm9BbJLedT0z1apq2XVKA==; path=/"
]
```


IPv6 HTTP (port 80)

HTTP Status	200
Connected IP	2408:864e:c05::149
Connect Time	1257.89 ms
TTFB	5465.94 ms
Total Time	5466.01 ms

Response Headers:


```
[
    "HTTP/1.1 200 OK",
    "Date: Sat, 08 Aug 2026 10:02:31 GMT",
    "Server: Apache",
    "Accept-Ranges: bytes",
    "Vary: Accept-Encoding",
    "Cache-Control: max-age=0",
    "Expires: Sat, 08 Aug 2026 10:02:31 GMT",
    "Content-Length: 439",
    "Content-Type: text/html; charset=UTF-8",
    "Set-Cookie: null=!VUNBuWLxqLhE9lPaTbyfSJe/wI/iow6DHXPBPyI14p772fhQr0Vd97yLpbHOh0nn6N/HJ+QH6h4KvPrghTQSp6JLwDHfED5rxVTjP7Pc; path=/"
]
```


IPv4 HTTPS (port 443)

HTTP Status	0
Connected IP	111.205.126.206
Connect Time	202.2 ms
TTFB	0 ms
Total Time	406.59 ms
Error	OpenSSL/3.0.13: error:0A000152:SSL routines::unsafe legacy renegotiation disabled

IPv6 HTTPS (port 443)

HTTP Status	0
Connected IP	2408:864e:c05::149
Connect Time	178.55 ms
TTFB	0 ms
Total Time	358.57 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 0.205336 0.398718
TCP Connect IPv6 → port 80	200 2.221950 2.923805
TCP Connect IPv4 → port 443	000 0.190497 0.000000
TCP Connect IPv6 → port 443	000 2.271064 0.000000

Test Node Network Evidence

Node Profile	dual stack

Egress Connectivity

IPv4 Egress	unreachable
IPv6 Egress	unreachable

Sysctl IPv6 Flags

net.ipv6.conf.all.disable_ipv6	0

IPv6 Routes

```
2a02:4780:5e::/48 dev eth0 proto kernel metric 256 pref medium
fd7a:115c:a1e0::1136:5807 dev tailscale0 proto kernel metric 256 pref medium
fe80::/64 dev eth0 proto kernel metric 256 pref medium
fe80::/64 dev tailscale0 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
```