

IPv6 Readiness Report

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Scan to verify

Category: Banking • Generated: 13 Jun 2026, 19:07 MYT • Last Checked: 13 Jun 2026, 01:08 MYT • Verification ID: b1c99110-e990-4a4f-a1d3-0a5dac908d47

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

Audit trail: <https://ipv6.my6.my/audit/b1c99110-e990-4a4f-a1d3-0a5dac908d47>

<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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IPv6 ADDRESSES

2408:8606:3500::78

IPv4 ADDRESSES

58.49.73.85

Network Information (WHOIS / RDAP)

	IPv6 Network	IPv4 Network
Organization	CU-CN	CHINANET-HB
Country	CN	CN
ASN	AS4808	AS4134
ASN Name	CHINA169-BJ - China Unicom Beijing Province Network, CN	CHINANET-BACKBONE - No.31,Jin-rong Street, CN
Network (CIDR)	2408:8000::/20	58.48.0.0/13

Web Services (35%) 4 / 8

#	CHECK	RESULT	DETAIL
1	AAAA Record	PASS	2408:8606:3500::78
2	Globally Routable IPv6	PASS	All addresses are globally routable.
3	HTTP over IPv6	PASS	HTTP (port 80) responds over IPv6 — 339ms 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	58.49.73.85
2	HTTP over IPv4	PASS	HTTP (port 80) responds over IPv4 — 1617ms TTFB.
3	HTTPS over IPv4	FAIL	HTTPS is not accessible over IPv4.

Audit Trail & Evidence Record

Verification ID	b1c99110-e990-4a4f-a1d3-0a5dac908d47
Domain	ccb.com
Check Mode	Scheduled
Status	Completed
Started	13 Jun 2026, 01:07:11 MYT
Finished	13 Jun 2026, 01:08:23 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/b1c99110-e990-4a4f-a1d3-0a5dac908d47

Integrity Verification

✓ INTEGRITY VERIFIED	
Algorithm	hmac-sha256-v1
Root Hash	eb459b18d509268db5ea910299474b854ed1b7db65172c473f0cf530e7b0759e
http_headers	570d590d54062041ad4b0e9166b427b437219ac8a70f05616a8217c5c4e884fe
dns_responses	15a536b28fc65964032ee8cd3c115a921567876978231fa2c1f3ded441fa7ce5
tls_handshake	adb08f7e9b6ff697830876885ee306827d5efff5ab619a30d30a4c7025b97fb8
connectivity_log	75f9f526e32b663172bdc01d78d588d79bb6c7acb1c08a28dee36e9eebeacdb
dns_resolution_times	6808d63dc4bc53ae3adf0abd1d974742876c637ba81b991c9be6208c98c00560

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	7.52	13.36	11.46	16.55	+3.9
Google	IPv4	20.46	34.19	100.17	262.65	+79.7
Google	IPv6	105.6	255.61	245.1	352.73	+139.5
Cloudflare	IPv4	22.15	23.64	20.9	22.6	-1.3
Cloudflare	IPv6	105.8	113.38	19.03	94.67	-86.8

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 56099
;; 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 A 106.37.193.78
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 16039
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
com. 873 IN SOA a.gtld-servers.net. nstld.verisign-grs.com. 1781284038 1800 900 604800 900
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 19909
;; 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-in2.ccb.com.
ccb.com. 300 IN MX 5 mail-in4.ccb.com.
ccb.com. 300 IN MX 5 mail-in1.ccb.com.
ccb.com. 300 IN MX 5 mail-in3.ccb.com.
```

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 61518
;; flags: qr rd ra; QUERY: 1, ANSWER: 5, AUTHORITY: 0, ADDITIONAL: 19

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
ccb.com. 699 IN NS ns1.ccb.com.
ccb.com. 699 IN NS ns4.ccb.com.
ccb.com. 699 IN NS ns3.ccb.com.
ccb.com. 699 IN NS ns2.ccb.com.
ccb.com. 699 IN NS ns5.ccb.com.
```

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 13702
;; 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: 3106
;; 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 240e:604:106:12::78
```

RRSIG

```
ns2.ccb.com. liuyanan.ccb.com. 2026061224 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. 2026061224 10800 3600 604800 60
```

TLS Handshake Evidence

IPV4 Connection

IP Used	58.49.73.85
IP Version	4

```
406751F3A97C0000: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: 7F5E97FAB7572B7F4CF17318917524C08D54F61773ADC10C53364A9A5894A890
  Session-ID-ctx:
  Master-Key:
  PSK identity: None
  PSK identity hint: None
  SRP username: None
  Start Time: 1781284094
  Timeout : 7200 (sec)
  Verify return code: 0 (ok)
  Extended master secret: no
---
```

IPV6 Connection

IP Used	2408:8606:3500::78
IP Version	6

```
40A7D034F17C0000: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: 2528192C0ACDBAD9DE974E454BC3ED90771E6B75BD767DCC60AD93FBC9AACFF1
  Session-ID-ctx:
  Master-Key:
  PSK identity: None
  PSK identity hint: None
  SRP username: None
  Start Time: 1781284092
  Timeout : 7200 (sec)
  Verify return code: 0 (ok)
  Extended master secret: no
---
```


HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	200
Connected IP	58.49.73.85
Connect Time	316.15 ms
TTFB	1504.75 ms
Total Time	1504.84 ms

Response Headers:

```
[
  "HTTP/1.1 200 OK",
  "Date: Fri, 12 Jun 2026 17:08:17 GMT",
  "Server: Apache",
  "Accept-Ranges: bytes",
  "Vary: Accept-Encoding",
  "Cache-Control: max-age=0",
  "Expires: Fri, 12 Jun 2026 17:08:17 GMT",
  "Content-Length: 439",
  "Content-Type: text/html; charset=UTF-8",
  "Set-Cookie: null=!aWNLfJ6+7C0YWsTaTbyfSJe/wI/io/f4Rs0EqqsHnmRiXwIAE61LGBKm+hi7zSeHvVd00FuuKAvJs80=; path=/"
]
```

IPv6 HTTP (port 80)

HTTP Status	200
Connected IP	2408:8606:3500::78
Connect Time	169.04 ms
TTFB	337.54 ms
Total Time	337.6 ms

Response Headers:

```
[
  "HTTP/1.1 200 OK",
  "Date: Fri, 12 Jun 2026 17:08:15 GMT",
  "Server: Apache",
  "Accept-Ranges: bytes",
  "Vary: Accept-Encoding",
  "Cache-Control: max-age=0",
  "Expires: Fri, 12 Jun 2026 17:08:15 GMT",
  "Content-Length: 439",
  "Content-Type: text/html; charset=UTF-8",
  "Set-Cookie: null=!KiEPHUoGLGHDCf12g0jw9uPD3ugWXYBgtSYu9p1LE4ZVgSesH8eqZ1aEfxDDV5Wws/+RLBkLYVghUPccCm8mPMQRQ/BuCzaU3Dw0XV1z; path=/"
]
```

IPv4 HTTPS (port 443)

HTTP Status	0
Connected IP	58.49.73.85
Connect Time	306.08 ms
TTFB	0 ms
Total Time	614.64 ms
Error	OpenSSL/3.0.13: error:0A000152:SSL routines::unsafe legacy renegotiation disabled

IPv6 HTTPS (port 443)

HTTP Status	0
Connected IP	2408:8606:3500::78
Connect Time	165.44 ms
TTFB	0 ms
Total Time	338.2 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 0.235051 0.462385
TCP Connect IPv6 → port 80	200 2.238627 2.421071
TCP Connect IPv4 → port 443	000 0.318102 0.000000
TCP Connect IPv6 → port 443	000 1.225567 0.000000

Test Node Network Evidence

Node Profile	dual stack
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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
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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
```