

# IPv6 Readiness Report

## bankofchina.com.my — bankofchina.com.my

Category: Banking • Generated: 20 Apr 2026, 21:26 MYT • Last Checked: 07 Mar 2026, 01:00 MYT • Verification ID: 966b5066-c2a0-479a-9ea8-8c954de5dd72

Report generated from National IPv6 Readiness Monitor — <https://ipv6.my6.my>Audit trail: <https://ipv6.my6.my/audit/966b5066-c2a0-479a-9ea8-8c954de5dd72>**Non-Compliant**

MGv6C-1.0

**43%****Partial Support****IPv6-ONLY READINESS**Website: **X Not Ready**DNS: **✓ Ready**Email: **X Not Ready****IPv4 ADDRESSES**

202.127.171.151

**Network Information (WHOIS / RDAP)**

IPv4 Network	
Organization	Bank Of China (Hong Kong) Limited
Country	HK
ASN	AS24396
ASN Name	BOC-AS-HK Bank Of ChinaHong Kong Limited, HK
Network (CIDR)	202.127.168.0/21

**Web Services** (35%)

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

**DNS & DNSSEC** (25%)

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#	CHECK	RESULT	DETAIL
1	<b>NS Has AAAA Record</b>	<b>PASS</b>	Nameserver has IPv6 address.
2	<b>NS Reachable via IPv6</b>	<b>PASS</b>	Nameserver is reachable via IPv6 on port 53.
3	<b>NS Answers Queries via IPv6</b>	<b>PASS</b>	DNS queries answered over IPv6.
4	<b>DNSSEC Validated</b>	<b>FAIL</b>	DNSSEC validation failed or zone is unsigned.
5	<b>Reverse DNS (PTR)</b>	<b>FAIL</b>	No PTR record found.
6	<b>DS Record at Parent</b>	<b>FAIL</b>	No DS record at parent.
7	<b>RRSIG Valid</b>	<b>FAIL</b>	No valid RRSIG found.
8	<b>Signing Algorithm</b>	<b>INFO</b>	No DNSKEY record found.

**Email Services** (25%) 3 / 6

#	CHECK	RESULT	DETAIL
1	<b>MX Record Exists</b>	<b>PASS</b>	MX record found.
2	<b>MX Server Has IPv6</b>	<b>FAIL</b>	MX server has no IPv6 address.
3	<b>SMTP Reachable via IPv6</b>	<b>FAIL</b>	SMTP is not reachable over IPv6.
4	<b>STARTTLS over IPv6</b>	<b>FAIL</b>	STARTTLS not available over IPv6.
5	<b>SPF Record</b>	<b>PASS</b>	SPF record found.
6	<b>DKIM Selector</b>	<b>INFO</b>	DKIM selector found: selector2._domainkey
7	<b>DMARC Record</b>	<b>PASS</b>	DMARC record found.

**IPv4 Baseline** (15%) 3 / 3

#	CHECK	RESULT	DETAIL
1	<b>A Record</b>	<b>PASS</b>	202.127.171.151
2	<b>HTTP over IPv4</b>	<b>PASS</b>	HTTP (port 80) responds over IPv4 — 263ms TTFB.
3	<b>HTTPS over IPv4</b>	<b>PASS</b>	HTTPS (port 443) responds over IPv4 — 173ms TTFB.

## Audit Trail & Evidence Record

Verification ID	966b5066-c2a0-479a-9ea8-8c954de5dd72
Domain	bankofchina.com.my
Check Mode	Manual
Status	Completed
Started	07 Mar 2026, 01:00:11 MYT
Finished	07 Mar 2026, 01:00:16 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/966b5066-c2a0-479a-9ea8-8c954de5dd72

## Integrity Verification

✓ <b>INTEGRITY VERIFIED</b>	
Algorithm	hmac-sha256-v1
Root Hash	8be756870c34510608860ccd8df91a800c467120310ecbc99100389aff119db0
http_headers	8667e3e625212896f987df4ec52602785af950100df7724d9a082024ce6cface
dns_responses	84d55b301af0012ef8bec495c3e1fdf67711eb7e36b83e8a998ccb5abca42433
tls_handshake	c25b66c04ffdf33ec137c2e6b8004226270e2319e9e8418153454e7b3868be23
connectivity_log	c1b2a05611b04e37a089804f96c61c9170323d49c391239365b81dc9cdf5d13f
dns_resolution_times	58b32476331f552a6f785d21a3ac748350677a9c5e824c4b4ef7134209f923f1

## Test Node Identity

Os	Linux srv1440888 6.8.0-101-generic #101-Ubuntu SMP PREEMPT_DYNAMIC Mon Feb 9 10:15:05 UTC 2026 x86_64
Hostname	srv1440888
Php Version	8.3.30
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	9.97	11.38	13.29	25.44	+3.3
Google	IPv4	40.96	41.61	43.18	52.43	+2.2
Google	IPv6	43.49	59.68	25.36	31.44	-18.1
Cloudflare	IPv4	16.02	18.87	14.94	23.7	-1.1
Cloudflare	IPv6	41.3	309.86	44.44	50.66	+3.1



## DNS Evidence

### A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 49284
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
bankofchina.com.my. 720 IN A 202.127.171.151
```

### DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 31282
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
com.my. 1800 IN SOA b.nic.my. hostmaster.nic.my. 2026018479 1800 900 604800 3600
```

### MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 16878
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
bankofchina.com.my. 900 IN MX 10 mailmetro.bochk.com.
bankofchina.com.my. 900 IN MX 10 mail.bochk.com.
bankofchina.com.my. 900 IN MX 10 mail3.bochk.com.
bankofchina.com.my. 900 IN MX 10 newmta.bochk.com.
```

### NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 25144
;; flags: qr rd ra; QUERY: 1, ANSWER: 10, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
bankofchina.com.my. 900 IN NS ns4.netvigator.com.
bankofchina.com.my. 900 IN NS a10-65.akam.net.
bankofchina.com.my. 900 IN NS ns16.imsbiz.com.
bankofchina.com.my. 900 IN NS ns5.netvigator.com.
bankofchina.com.my. 900 IN NS a16-67.akam.net.
bankofchina.com.my. 900 IN NS ns15.imsbiz.com.
bankofchina.com.my. 900 IN NS a5-64.akam.net.
bankofchina.com.my. 900 IN NS a1-59.akam.net.
bankofchina.com.my. 900 IN NS a22-67.akam.net.
bankofchina.com.my. 900 IN NS a11-67.akam.net.
```

### TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 44310
;; flags: qr rd ra; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
bankofchina.com.my. 900 IN TXT "globalsign-domain-verification=WdLF1Dxo1Fi_Xt2Jlpu3HT0EyPsTil9Z5tsCboTB59"
bankofchina.com.my. 900 IN TXT "v=spf1 ip4:202.127.168.0/21 -all"
bankofchina.com.my. 900 IN TXT "lrvdtsy5t4qhn33dz5265dytv35lyzqw"
```

### AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 59881
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
```

```
; EDNS: version: 0, flags:; udp: 512  
;; AUTHORITY SECTION:  
bankofchina.com.my. 900 IN SOA ns15.imsbiz.com. dnsadmin.imsbiz.com. 2025121501 10800 3600 604800 900
```

**RRSIG**

```
ns15.imsbiz.com. dnsadmin.imsbiz.com. 2025121501 10800 3600 604800 900
```

**DNSKEY**

```
;; Got answer:  
;; ->HEADER<- opcode: QUERY, status: NOERROR, id: 19317  
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1  
  
;; OPT PSEUDOSECTION:  
; EDNS: version: 0, flags:; udp: 512  
;; AUTHORITY SECTION:  
bankofchina.com.my. 900 IN SOA ns15.imsbiz.com. dnsadmin.imsbiz.com. 2025121501 10800 3600 604800 900
```

**DNSSEC\_VALIDATION**

```
; unsigned answer  
bankofchina.com.my. 900 IN SOA ns15.imsbiz.com. dnsadmin.imsbiz.com. 2025121501 10800 3600 604800 900
```







## HTTP Response Evidence

### IPv4 HTTP (port 80)

HTTP Status	200
Connected IP	202.127.171.151
Connect Time	80.42 ms
TTFB	254.21 ms
Total Time	254.35 ms

#### Response Headers:

```
{
  "0": "HTTP/1.1 302 Found",
  "1": "Date: Fri, 06 Mar 2026 09:00:16 GMT",
  "2": "Location: https://www.bankofchina.com.my/",
  "3": "Cache-Control: max-age=0",
  "4": "Expires: Fri, 06 Mar 2026 09:00:16 GMT",
  "5": "Content-Type: text/html; charset=iso-8859-1",
  "7": "HTTP/1.1 200 OK",
  "8": "Date: Fri, 06 Mar 2026 09:00:16 GMT",
  "9": "Last-Modified: Thu, 17 Nov 2022 02:15:36 GMT",
  "10": "Accept-Ranges: bytes",
  "11": "Content-Length: 7051",
  "12": "Vary: Accept-Encoding",
  "13": "Cache-Control: no-cache",
  "14": "Expires: Fri, 06 Mar 2026 09:00:16 GMT",
  "15": "X-XSS-Protection: 1; mode=block",
  "16": "X-Content-Type-Options: nosniff",
  "17": "X-Frame-Options: SAMEORIGIN",
  "18": "Strict-Transport-Security: max-age=31536000;includeSubDomains;preload",
  "19": "Content-Security-Policy: default-src 'self' *.bochk.com *.bankofchina.com.my *.bocgroup.com *.ftcwifi.com; frame-ancestors 'self'; frame-src *; script-src 'self' 'unsafe-inline' 'unsafe-eval'; style-src * 'unsafe-inline'; img-src * data;; object-src 'self' data: blob:",
  "20": "Content-Type: text/html"
}
```

### IPv4 HTTPS (port 443)

HTTP Status	200
Connected IP	202.127.171.151
Connect Time	39.9 ms
TTFB	171.63 ms
Total Time	171.67 ms

#### Response Headers:

```
[
  "HTTP/1.1 200 OK",
  "Date: Fri, 06 Mar 2026 09:00:16 GMT",
  "Last-Modified: Thu, 17 Nov 2022 02:15:36 GMT",
  "Accept-Ranges: bytes",
  "Content-Length: 7051",
  "Vary: Accept-Encoding",
  "Cache-Control: no-cache",
  "Expires: Fri, 06 Mar 2026 09:00:16 GMT",
  "X-XSS-Protection: 1; mode=block",
  "X-Content-Type-Options: nosniff",
  "X-Frame-Options: SAMEORIGIN",
  "Strict-Transport-Security: max-age=31536000;includeSubDomains;preload",
  "Content-Security-Policy: default-src 'self' *.bochk.com *.bankofchina.com.my *.bocgroup.com *.ftcwifi.com; frame-ancestors 'self'; frame-src *; script-src 'self' 'unsafe-inline' 'unsafe-eval'; style-src * 'unsafe-inline'; img-src * data;; object-src 'self' data: blob:",
  "Content-Type: text/html"
]
```

## Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	302 0.039230 0.081924
TCP Connect IPv4 → port 443	000 0.039474 0.000000

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**Test Node Network Evidence**

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Node Profile	dual stack
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**Egress Connectivity**

IPv4 Egress	unreachable
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
```