

# IPv6 Readiness Report

bangkokbank.com.my — bangkokbank.com.my




Scan to verify

Category: Banking • Generated: 04 Jul 2026, 22:18 MYT • Last Checked: 04 Jul 2026, 03:03 MYT • Verification ID: f5760957-9a05-45cc-aada-1b9908e6ee05

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

Audit trail: <https://ipv6.my6.my/audit/f5760957-9a05-45cc-aada-1b9908e6ee05>



**Partially Compliant**  
MGv6C-1.0

**61%**  
Partial Support

**IPV6-ONLY READINESS**

Website: ✓ Ready

DNS: ✓ Ready

Email: ✗ Not Ready

IPV6 ADDRESSES	IPV4 ADDRESSES
2606:4700:20::681a:6af 2606:4700:20::ac43:4568 2606:4700:20::681a:7af	104.26.6.175 172.67.69.104 104.26.7.175

## Network Information (WHOIS / RDAP)

	IPv6 Network	IPv4 Network
Organization	Cloudflare, Inc.	Cloudflare, Inc.
Country	US	US
ASN	AS13335	AS13335
ASN Name	CLOUDFLARENET - Cloudflare, Inc., US	CLOUDFLARENET - Cloudflare, Inc., US
Network (CIDR)	2606:4700::/32	104.16.0.0/12

Web Services (35%) <span style="float: right;">7 / 8</span>			
#	CHECK	RESULT	DETAIL
1	<b>AAAA Record</b>	PASS	2606:4700:20::681a:6af, 2606:4700:20::ac43:4568, 2606:4700:20::681a:7af
2	<b>Globally Routable IPv6</b>	PASS	All addresses are globally routable.
3	<b>HTTP over IPv6</b>	PASS	HTTP (port 80) responds over IPv6 — 176ms TTFB.
4	<b>HTTPS over IPv6</b>	PASS	HTTPS (port 443) responds over IPv6 — 101ms TTFB.
5	<b>IPv6-Only Reachability</b>	PASS	Site is fully reachable via IPv6-only.
6	<b>TLS Certificate Valid (IPv6)</b>	PASS	Certificate valid — issued by C = US, O = Google Trust Services, CN = WE1, expires Aug 4 09:29:41 2026 GMT
7	<b>Dual-Stack (IPv4 + IPv6)</b>	PASS	Domain has both A and AAAA records.
8	<b>HTTP/3 (QUIC)</b>	FAIL	No HTTP/3 support detected.

DNS & DNSSEC (25%) <span style="float: right;">3 / 5</span>			
#	CHECK	RESULT	DETAIL
1	<b>NS Has AAAA Record</b>	PASS	Nameserver has IPv6 address.
2	<b>NS Reachable via IPv6</b>	PASS	Nameserver is reachable via IPv6 on port 53.
3	<b>NS Answers Queries via IPv6</b>	PASS	DNS queries answered over IPv6.
4	<b>DNSSEC Validated</b>	FAIL	DNSSEC validation failed or zone is unsigned.
5	<b>Reverse DNS (PTR)</b>	FAIL	No PTR record found.

#	CHECK	RESULT	DETAIL
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%)

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#	CHECK	RESULT	DETAIL
1	<b>MX Record Exists</b>	<b>FAIL</b>	No MX record found in DNS.
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>FAIL</b>	No SPF record found.
6	<b>DKIM Selector</b>	<b>INFO</b>	No common DKIM selector found.
7	<b>DMARC Record</b>	<b>FAIL</b>	No DMARC record found.

**IPv4 Baseline** (15%)

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#	CHECK	RESULT	DETAIL
1	<b>A Record</b>	<b>PASS</b>	104.26.6.175, 172.67.69.104, 104.26.7.175
2	<b>HTTP over IPv4</b>	<b>PASS</b>	HTTP (port 80) responds over IPv4 — 143ms TTFB.
3	<b>HTTPS over IPv4</b>	<b>PASS</b>	HTTPS (port 443) responds over IPv4 — 92ms TTFB.

## Audit Trail & Evidence Record

Verification ID	f5760957-9a05-45cc-aada-1b9908e6ee05
Domain	bangkokbank.com.my
Check Mode	Scheduled
Status	Completed
Started	04 Jul 2026, 03:03:03 MYT
Finished	04 Jul 2026, 03:03:14 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/f5760957-9a05-45cc-aada-1b9908e6ee05

## Integrity Verification

✓ <b>INTEGRITY VERIFIED</b>	
Algorithm	hmac-sha256-v1
Root Hash	8ebb25c06247e857d8b94d17098c61da30f0b3ad638cbe531a071479491185ba
http_headers	7ad073d3f71831cf2bff383d3d8ef1dadfea48bc680d8fcc4961ce717312af0f
dns_responses	829c039f1fe985382b6da2d7bab78a74708599d38384a3ed3b49561d78015faa
tls_handshake	f73e399e198ac36b6d6a3ad1e7cc186f561bdb5ec4f280d6ffb86d40f5b5bfbd
connectivity_log	b7713c79577fea80099ad9b9fde4b3525657b37ca6b30a3181121929b991a928c
dns_resolution_times	42d22d0825474f3a69a288c9e3174bcb1c9b2c05122d9e54eaf8958c68566f76

## 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	—
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	38.84	39.76	19.44	24.97	-19.4
Google	IPv4	40.63	56.56	29.45	42.3	-11.2
Google	IPv6	50.43	59.98	50.14	60.82	-0.3
Cloudflare	IPv4	36.57	38.98	41.91	49	+5.3
Cloudflare	IPv6	42.58	46.25	51.18	56.57	+8.6



## DNS Evidence

### A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 61765
;; flags: qr rd ra; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
bangkokbank.com.my. 300 IN A 172.67.69.104
bangkokbank.com.my. 300 IN A 104.26.7.175
bangkokbank.com.my. 300 IN A 104.26.6.175
```

### DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 36208
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
com.my. 3586 IN SOA e.nic.my. hostmaster.nic.my. 2026052750 1800 900 604800 3600
```

### MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 15409
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
bangkokbank.com.my. 1792 IN SOA ian.ns.cloudflare.com. dns.cloudflare.com. 2406142062 10000 2400 604800 1800
```

### NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 43301
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
bangkokbank.com.my. 86400 IN NS pat.ns.cloudflare.com.
bangkokbank.com.my. 86400 IN NS ian.ns.cloudflare.com.
```

### TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 42156
;; flags: qr rd ra; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
bangkokbank.com.my. 300 IN TXT "_bjprf5pf7v8hn2Imohq890oxqv9jiq5"
bangkokbank.com.my. 300 IN TXT "_globalsign-domain-verification=H3ZNJ_JvYTkFtSgpyF-tWZ9ak-ThiYwyDLJmew_2f"
bangkokbank.com.my. 300 IN TXT "_na9luij5rsp8zaoit4ta982nsfdsw2t"
```

### AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 1418
;; flags: qr rd ra; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
bangkokbank.com.my. 300 IN AAAA 2606:4700:20::681a:6af
bangkokbank.com.my. 300 IN AAAA 2606:4700:20::681a:7af
bangkokbank.com.my. 300 IN AAAA 2606:4700:20::ac43:4568
```

### RRSIG

```
ian.ns.cloudflare.com. dns.cloudflare.com. 2406142062 10000 2400 604800 1800
```

**DNSKEY**

```
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 14649
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
bangkokbank.com.my. 1792 IN SOA ian.ns.cloudflare.com. dns.cloudflare.com. 2406142062 10000 2400 604800 1800
```

**DNSSEC\_VALIDATION**

```
; unsigned answer
bangkokbank.com.my. 1792 IN SOA ian.ns.cloudflare.com. dns.cloudflare.com. 2406142062 10000 2400 604800 1800
```





```
Oi8va55wa2kuZ29vZy9nc3IxLmNydDAtBgnVHR8EJjAKMCKgIKAEhhxodHRwOi8v
Yy5wa2kuZ29vZy9yL2dzcjEuY3JsMBMGAIUdIAQMMaowCAYGZ4EMAQIBMA0GCSqG
S1b3D0EBCwUAA4IBAQAQYQrsPBtYDh5bjP20BDwmk0whIDDkic574y04tfzHpn+cJ
odID24Ssees06bDrarZ7C30ddLibZatoKivs3UL9xnELz4ct92vID24FfVbiI1hY
+S6F0vHkNwIP0GCBaM4C6uVdF5dTuSMVs/ZbzNnIdCp5GxmX5eJvEau8otR/Cs
kGN+hr/W5GvT1tMBjgWKZ114//emhA1JG1BbPzoLJQvyEotc03LXjTaCzv8mEbeb
8RqZ7a2CPsgRbuVTPBwcOMBmufEU88+FSBX6+7iP0i18b4Z00FqIwwMHfs/L6K1
vepuoxtGzi4CZ68zJpiq1UvSqTbFJjtbd4seiMHL
-----END CERTIFICATE-----
```

```
Server certificate
subject=CN = bangkokbank.com.my
issuer=C = US, O = Google Trust Services, CN = WE1
---
No client certificate CA names sent
Peer signing digest: SHA256
Peer signature type: ECDSA
Server Temp Key: X25519, 253 bits
---
SSL handshake has read 2842 bytes and written 400 bytes
Verification: OK
---
New, TLSv1.3, Cipher is TLS_AES_256_GCM_SHA384
Server public key is 256 bit
Secure Renegotiation IS NOT supported
Compression: NONE
Expansion: NONE
No ALPN negotiated
```

IPv6 Connection

IP Used	2606:4700:20::681a:6af
IP Version	6

```
depth=2 C = US, O = Google Trust Services LLC, CN = GTS Root R4
verify return:1
depth=1 C = US, O = Google Trust Services, CN = WE1
verify return:1
depth=0 CN = bangkokbank.com.my
verify return:1
CONNECTED(00000010)
---
Certificate chain
0 s:CN = bangkokbank.com.my
  i:C = US, O = Google Trust Services, CN = WE1
  a:PKEY: id-ecPublicKey, 256 (bit); sigalg: ecdsa-with-SHA256
  v:NotBefore: May 6 08:29:44 2026 GMT; NotAfter: Aug 4 09:29:41 2026 GMT
-----BEGIN CERTIFICATE-----
MIIDtjCCA12gAwIBAgIQLHCNeXWbtTUOK/IlIueCsJAKBggqhkJOPQDAjA7MQsw
CQYDVQQGEwJVUzEeMBwGA1UEChMVR29vZ2x1IFRydXN0IFNlcnZpY2VzMQwwCgYD
VQ0EwNXRTEwHhcNMjYwNTA2MDgyOTQ0WWhcNMjYwODA0MDkyOTQ0xWjAdMRswGQYD
VQ0EExJiYW5na29rYmFuay5jb20ubXkwWTATBgqhkJOPQIBBggqhkJOPQMBBwNC
AARh30bbhdmx204Xw/mcpiZBR/Sk4V2a+JN4szCjQSKHfV5Fi6+p104e+ka0UzM
K883pbc/mGz2wMIYv4y0z9o4ICXzCCA1sDgYDVR0PAQH/BAQDAgeAMBGA1Ud
JQ0MMa0GCSsGAQUFBwMBMAwGA1UdEwEB/wQCMAAwHQYDVR00BBEFG4oh3R22oQA
TsM0H4GV/FblzdxFMB8GA1UdIwQYMBaAFJB3kjVnXp+ozKnm9mAeXvMk/k4MF4G
CCsGAQUFBwEBBFiUdAnBggrBgEFBQcwAYYbaHR0cDovL28ucGtpLmdvb2cv2cvcy93
ZTEvTEhBMUCUGCSGAQUFBzACHhLodHRwOi8va55wa2kuZ29vZy93ZTEuY3J0MDMG
A1UdEQ0sMCQcEmJhbmdrb2tiYW5rLmNvbS55eYIUK15iYW5na29rYmFuay5jb20u
bXkwEwYDVR0gBAwwCjAIBgZnQ0wBAGewNgYDVR0gFBC8wLTAroCmgJ4YLaHR0cDov
L2MucGtpLmdvb2cv2UxL194c0ViBjYTKLFLmNybdCCAIGCisGAQQBInkCBAIE
gFMefAA7gB1AngJVtUt3r/yBYZb5RPhauw+PxeH1UmDxXRLnK7RUsUAAABnfyf
MrMAAAQDAEYwRAIgoSgABvMI6cexai0kadi8CYLzRKf+3t8baqRjRbgn8E8ICGv
+Z4ldyaRBRmRgQ0xGjVc30ACJZbjLnRiKmjSD02rAHUAR2eI0IewT2Pptl+9i6o
64EKx3Fg8CREvDYML+eFhzoAAAGd/J8zYAAABAMARjBEAiBwSrhBRVJAz89rHRY
t5fqueH3c8rKTDiEiMPXV9QrRAIgfK08JzswWZw00LYhVc0Yy5u67zHzXROPVHWN
7JNFW8wCgYIKoZIzj0EAwIDRwAwRAIGJ44RZ+A67vLDi9kgeRuBVGiksU6TApVz
D9ks6n/11YACIBFXLtlrVTNSfZLG3YxiRm1i85BCZNLCAF/x9kw8k5S
-----END CERTIFICATE-----
1 s:C = US, O = Google Trust Services, CN = WE1
  i:C = US, O = Google Trust Services LLC, CN = GTS Root R4
  a:PKEY: id-ecPublicKey, 256 (bit); sigalg: ecdsa-with-SHA384
  v:NotBefore: Dec 13 09:00:00 2023 GMT; NotAfter: Feb 20 14:00:00 2029 GMT
-----BEGIN CERTIFICATE-----
MIICnzCCA1WgAwIBAgIQf/MZd5csIkp2FV0TttaF4zAKBggqhkJOPQDAzBHM0sw
CQYDVQQGEwJVUzEiMCAwGA1UEChMVR29vZ2x1IFRydXN0IFNlcnZpY2VzIEwzMQww
MBIGA1UEAxMLR1RTIFJvb3Q0UjQwHhcNMjYwNTA2MDgyOTQ0WWhcNMjYwODA0MDky
OTQ0xWjAdMRswGQYDVR0gBAwwCjAIBgZnQ0wBAGewNgYDVR0gFBC8wLTAroCmgJ4YLa
HR0cDovL2MucGtpLmdvb2cv2UxL194c0ViBjYTKLFLmNybdCCAIGCisGAQQBInkCBAIE
gFMefAA7gB1AngJVtUt3r/yBYZb5RPhauw+PxeH1UmDxXRLnK7RUsUAAABnfyf
MrMAAAQDAEYwRAIgoSgABvMI6cexai0kadi8CYLzRKf+3t8baqRjRbgn8E8ICGv
+Z4ldyaRBRmRgQ0xGjVc30ACJZbjLnRiKmjSD02rAHUAR2eI0IewT2Pptl+9i6o
64EKx3Fg8CREvDYML+eFhzoAAAGd/J8zYAAABAMARjBEAiBwSrhBRVJAz89rHRY
t5fqueH3c8rKTDiEiMPXV9QrRAIgfK08JzswWZw00LYhVc0Yy5u67zHzXROPVHWN
7JNFW8wCgYIKoZIzj0EAwIDRwAwRAIGJ44RZ+A67vLDi9kgeRuBVGiksU6TApVz
D9ks6n/11YACIBFXLtlrVTNSfZLG3YxiRm1i85BCZNLCAF/x9kw8k5S
-----END CERTIFICATE-----
```







<b>Connect Time</b>	8.12 ms
<b>TTFB</b>	83.21 ms
<b>Total Time</b>	83.24 ms

**Response Headers:**

```
[
  "HTTP/2 200",
  "date: Fri, 03 Jul 2026 19:03:14 GMT",
  "content-type: text/html; charset=UTF-8",
  "server: cloudflare",
  "strict-transport-security: max-age=31536000; includeSubDomains; preload",
  "nel: {\\"report_to\\":\\"cf-nel\\",\\"success_fraction\\":0.0,\\"max_age\\":604800}",
  "cf-cache-status: DYNAMIC",
  "report-to: {\\"group\\":\\"cf-nel\\",\\"max_age\\":604800,\\"endpoints\\":[{\\"url\\":\\"https://a.nel.cloudflare.com/report/v4?s=HNALgNiXvkwN0n91cUHVZanEKLgXgATNoGnSGM3HK207jiajoL3BTK1ywkGvV4pN%2BvXe89JdEYzWkZLir0c",
  "cf-ray: a1582629cdaca069-SIN"
]
```

**IPv6 HTTPS (port 443)**

<b>HTTP Status</b>	200
<b>Connected IP</b>	2606:4700:20::681a:6af
<b>Connect Time</b>	8.72 ms
<b>TTFB</b>	91.39 ms
<b>Total Time</b>	91.42 ms

**Response Headers:**

```
[
  "HTTP/2 200",
  "date: Fri, 03 Jul 2026 19:03:14 GMT",
  "content-type: text/html; charset=UTF-8",
  "server: cloudflare",
  "strict-transport-security: max-age=31536000; includeSubDomains; preload",
  "nel: {\\"report_to\\":\\"cf-nel\\",\\"success_fraction\\":0.0,\\"max_age\\":604800}",
  "cf-cache-status: DYNAMIC",
  "report-to: {\\"group\\":\\"cf-nel\\",\\"max_age\\":604800,\\"endpoints\\":[{\\"url\\":\\"https://a.nel.cloudflare.com/report/v4?s=ynceGw4vaA5AHfa6%2Fpt9ktkDxLhzEd3INnW9iWJ8ZLt1EloVZTnAqbhININknPi8Mf60VR3JW7KyAhv46Kwe",
  "cf-ray: a158262868ce0cea-SIN"
]
```

**Connectivity Test Evidence**

Test	Result
TCP Connect IPv4 → port 80	301 0.007572 0.041929
TCP Connect IPv6 → port 80	301 0.008845 0.033544
TCP Connect IPv4 → port 443	200 0.009323 0.113146
TCP Connect IPv6 → port 443	200 0.009024 0.120359

---

### Test Node Network Evidence

---

Node Profile	dual stack
--------------	------------

### Egress Connectivity

IPv4 Egress	unreachable
IPv6 Egress	2a02:4780:5e:2789::1

### Sysctl IPv6 Flags

net.ipv6.conf.all.disable_ipv6	0
--------------------------------	---

### 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
```