


# IPv6 Readiness Report

cimb.com.my — cimb.com.my

Category: Banking • Generated: 21 Apr 2026, 17:58 MYT • Last Checked: 07 Mar 2026, 01:00 MYT • Verification ID: ff6abd1f-2369-467d-a988-99edd59a7015

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

Audit trail: <https://ipv6.my6.my/audit/ff6abd1f-2369-467d-a988-99edd59a7015>

 <b>Non-Compliant</b> <small>MGv6C-1.0</small>	<b>37%</b> <b>Partial Support</b>	<b>IPv6-ONLY READINESS</b> Website: <b>X Not Ready</b> DNS: <b>X Not Ready</b> Email: <b>X Not Ready</b>
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IPv6 ADDRESSES
2600:9000:213e:f000:11:dff8:ffc0:93a1
2600:9000:213e:f600:11:dff8:ffc0:93a1
2600:9000:213e:3c00:11:dff8:ffc0:93a1
2600:9000:213e:fc00:11:dff8:ffc0:93a1
2600:9000:213e:6400:11:dff8:ffc0:93a1
2600:9000:213e:a600:11:dff8:ffc0:93a1
2600:9000:213e:f800:11:dff8:ffc0:93a1
2600:9000:213e:e400:11:dff8:ffc0:93a1

IPv4 ADDRESSES
210.19.116.31
210.19.115.31

## Network Information (WHOIS / RDAP)

	IPv6 Network	IPv4 Network
Organization	Amazon.com, Inc.	TT DOTCOM SDN BHD
Country	US	MY
ASN	AS16509	AS9930
ASN Name	AMAZON-02 - Amazon.com, Inc., US	TTNET-MY TIME dotCom Berhad No. 14, Jalan Majistret U126 Hicom Glenmarie Industrial Park 40150 Shah Alam Selangor, Malaysia, MY
Network (CIDR)	2600:9000::/28	210.19.0.0/16

Web Services (35%)				4 / 8
#	CHECK	RESULT	DETAIL	
1	AAAA Record	PASS	2600:9000:213e:f000:11:dff8:ffc0:93a1, 2600:9000:213e:f600:11:dff8:ffc0:93a1, 2600:9000:213e:3c00:11:dff8:ffc0:93a1, 2600:9000:213e:fc00:11:dff8:ffc0:93a1, 2600:9000:213e:6400:11:dff8:ffc0:93a1, 2600:9000:213e:a600:11:dff8:ffc0:93a1, 2600:9000:213e:f800:11:dff8:ffc0:93a1, 2600:9000:213e:e400:11:dff8:ffc0:93a1	
2	Globally Routable IPv6	PASS	All addresses are globally routable.	
3	HTTP over IPv6	PASS	HTTP (port 80) responds over IPv6 — 16ms 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%)				0 / 5
#	CHECK	RESULT	DETAIL	
1	NS Has AAAA Record	FAIL	No nameserver has an AAAA record.	

#	CHECK	RESULT	DETAIL
2	<b>NS Reachable via IPv6</b>	<b>FAIL</b>	No nameserver is reachable over IPv6.
3	<b>NS Answers Queries via IPv6</b>	<b>FAIL</b>	Nameserver does not answer queries 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%) 1 / 6

#	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>PASS</b>	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%) 3 / 3

#	CHECK	RESULT	DETAIL
1	<b>A Record</b>	<b>PASS</b>	210.19.116.31, 210.19.115.31
2	<b>HTTP over IPv4</b>	<b>PASS</b>	HTTP (port 80) responds over IPv4 — 90ms TTFB.
3	<b>HTTPS over IPv4</b>	<b>PASS</b>	HTTPS (port 443) responds over IPv4 — 125ms TTFB.

### Audit Trail & Evidence Record

Verification ID	ff6abd1f-2369-467d-a988-99edd59a7015
Domain	cimb.com.my
Check Mode	Manual
Status	Completed
Started	07 Mar 2026, 01:00:17 MYT
Finished	07 Mar 2026, 01:00:22 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/ff6abd1f-2369-467d-a988-99edd59a7015

### Integrity Verification

<b>✓ INTEGRITY VERIFIED</b>	
Algorithm	hmac-sha256-v1
Root Hash	ebdd49cf94e5832fa36950a5406697a5aebb39c9afd51a716f2c9af203fb75eb
http_headers	3a3bf0136fd9b889d0ffa386b3d9cb4d935022e185e657537f74031d2f1174ee
dns_responses	029d2d5a84c7e58454adbfc21fc7282fa364d4a8de490f6635c7c9383930e924
tls_handshake	e90fd2b7606a1a809ade276b841764e827db2a8f1a7f1fa26c41ebb22b903f88
connectivity_log	92f34755e03887f31e0396137d1471d497ad01426e2824ff793d8cd0f7f6d8cc
dns_resolution_times	fd24b6edfe4a4dc9ea4eef6cc7b17602174781adb2366fc11577ca408705a618

### 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	-
Server Ipv6	-

### 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	7.99	16.82	12.72	20.21	+4.7
Google	IPv4	18.82	28.67	29.1	30.7	+10.3
Google	IPv6	24.95	25.98	30.98	34.22	+6
Cloudflare	IPv4	10.88	18.98	9.66	19.44	-1.2
Cloudflare	IPv6	31.16	32.43	21.79	27.28	-9.4



## DNS Evidence

### A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 43581
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
cimb.com.my. 00000000000000000000000000000000 210.19.116.31
cimb.com.my. 00000000000000000000000000000000 210.19.115.31
```

### DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 52054
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
com.my. 00001701000000000000000000000000 2026018479 1800 900 604800 3600
```

### MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 2788
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
cimb.com.my. 00000000000000000000000000000000 647 10800 3600 2592000 300
```

### NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 35620
;; flags: qr rd ra; QUERY: 1, ANSWER: 6, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
cimb.com.my. 00011500000000000000000000000000 7.cimb.com.
cimb.com.my. 00011500000000000000000000000000 6.cimb.com.
cimb.com.my. 00011500000000000000000000000000 3.cimb.com.my.
cimb.com.my. 00011500000000000000000000000000 2.cimb.com.my.
cimb.com.my. 00011500000000000000000000000000 4.cimb.com.my.
cimb.com.my. 00011500000000000000000000000000 5.cimb.com.
```

### TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 34700
;; flags: qr rd ra; QUERY: 1, ANSWER: 8, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
cimb.com.my. 00030000000000000000000000000000 "v=spf1 include:spf.messagelabs.com -all"
cimb.com.my. 00030000000000000000000000000000 "N8h/mwcqzSnZ9Plijyb8xwVnhZ03zdVH8hBXTZ7YJU="
cimb.com.my. 00030000000000000000000000000000 "_globalsign-domain-verification=DgS8G3Rc2nxh4q9IRKIzBkb5D0r2mf5nrNwZGRk_Ag"
cimb.com.my. 00030000000000000000000000000000 "google-site-verification=yuc80kdXyjXT8lq2kFQVYmQZpdyLAX7Ae86Byz1pE0E"
cimb.com.my. 00030000000000000000000000000000 "google-site-verification=iRW9_JaQtN-FULtKWbu2-1WLCwnW8DoefYvFkuIYQs"
cimb.com.my. 00030000000000000000000000000000 "ZFieXqLrGit9fuqVFL8cdRm+dZQ6CedtiaZDJ0ZrJaI="
cimb.com.my. 00030000000000000000000000000000 "_globalsign-domain-verification=6ZSnmAgJhCE0C-9ce4-cBou5GpukFeB3GaW7dm_-6u"
cimb.com.my. 00030000000000000000000000000000 "zYvSB2pWTAmLuv+zsAk0kh09Ph0QXPTRDPsVu2FPy4A="
```

### AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 5651
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
```

```
;; AUTHORITY SECTION:  
cimb.com.my. 300 IN SOA bhqpk400206.cimbmy.cimbdomain.com. postmaster.cimb.com.my. 647 10800 3600 2592000 300
```

**RRSIG**

```
bhqpk400206.cimbmy.cimbdomain.com. postmaster.cimb.com.my. 647 10800 3600 2592000 300
```

**DNSKEY**

```
;; Got answer:  
;; ->HEADER<- opcode: QUERY, status: NOERROR, id: 31985  
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1  
  
;; OPT PSEUDOSECTION:  
; EDNS: version: 0, flags:; udp: 512  
;; AUTHORITY SECTION:  
cimb.com.my. 300 IN SOA bhqpk400206.cimbmy.cimbdomain.com. postmaster.cimb.com.my. 647 10800 3600 2592000 300
```

**DNSSEC\_VALIDATION**

```
; unsigned answer  
cimb.com.my. 296 IN SOA bhqpk400206.cimbmy.cimbdomain.com. postmaster.cimb.com.my. 647 10800 3600 2592000 300
```





```

MDwGBFudIAAwNDAYBggrBgEFBQcCARYmaHR0cHM6Ly93d3cuZ2xvYmFsc2lmbi5j
b20vcnVwb3NpdG9yeS8wDQYJKoZIhvcNAQELBQADggEBAJmQyC1f0orUC2bbmANz
EdSIh1IoU4r7rd/9c446ZwTbw1MUcBQJfMPg+NccmBqiXD7b6QDjynCy8SIwIVbb
0615XoFYC20UgDX1b10d65pHBf9ZjQCxQnQmJYaumxtf4z1s4dfjGRzNpZ5eWL0
6r/4ngGpoJVpjemEuunl1Iq423g7mNAZeymw0LIYkN55QwCuaiFIFJ6GLazhgDEw
fpoLu4usBC0mmQDo8dIm7A9+04orkjgTHY+GzYZSR+Y0fFukAj6KYXwidlNaLFmz
hriSqHkVoflShx8xpfywgVcvzft03PYkz6fiNJBonf6q8amaEsybwMbDqKwIX7e
SPY=
-----END CERTIFICATE-----
---
Server certificate
subject=C = MY, ST = Kuala Lumpur, L = Kuala Lumpur, O = CIMB Bank Berhad, CN = *.cimb.com.my
issuer=C = BE, O = GlobalSign nv-sa, CN = GlobalSign RSA OV SSL CA 2018
---
No client certificate CA names sent
Peer signing digest: SHA256
Peer signature type: RSA-PSS
Server Temp Key: X25519, 253 bits
---
SSL handshake has read 3479 bytes and written 406 bytes
Verification: OK
---
New, TLSv1.2, Cipher is ECDHE-RSA-AES256-GCM-SHA384
Server public key is 2048 bit
Secure Renegotiation IS supported
Compression: NONE
Expansion: NONE
No ALPN negotiated

```

IPv6 Connection

IP Used	2600:9000:213e:f000:11:dff8:ffc0:93a1
IP Version	6

```

40F77FABD1710000:error:0A000410:SSL routines:ssl3_read_bytes:sslv3 alert handshake failure:../ssl/record/rec_layer_s3.c:1599:SSL alert number 40
CONNECTED(00000010)
---
no peer certificate available
---
No client certificate CA names sent
---
SSL handshake has read 7 bytes and written 313 bytes
Verification: OK
---
New, (NONE), Cipher is (NONE)
Secure Renegotiation IS NOT supported
Compression: NONE
Expansion: NONE
No ALPN negotiated
Early data was not sent
Verify return code: 0 (ok)
---

```



## HTTP Response Evidence

### IPv4 HTTP (port 80)

HTTP Status	403
Connected IP	13.35.37.115
Connect Time	12.35 ms
TTFB	79.35 ms
Total Time	79.41 ms

#### Response Headers:

```
{
  "0": "HTTP/1.1 301 Moved Permanently",
  "1": "Date: Fri, 06 Mar 2026 09:00:22 GMT",
  "2": "Server: Apache",
  "3": "Strict-Transport-Security: max-age=31536000; includeSubDomains",
  "4": "Location: https://www.cimb.com.my/",
  "5": "Content-Type: text/html; charset=iso-8859-1",
  "7": "HTTP/2 403",
  "8": "content-type: text/html",
  "9": "content-length: 391",
  "10": "date: Fri, 06 Mar 2026 09:00:23 GMT",
  "11": "last-modified: Tue, 26 Apr 2022 12:08:03 GMT",
  "12": "etag: \"16022d8d9db8206557ad38ecc55769d0\"",
  "13": "x-amz-version-id: lkq6EbQdEuoHZL.Xzwc7C5Td0cabRPR6",
  "14": "accept-ranges: bytes",
  "15": "server: AmazonS3",
  "16": "x-cache: Error from cloudfront",
  "17": "via: 1.1 067a460162946a5f47314c2245c4a95a.cloudfront.net (CloudFront)",
  "18": "x-amz-cf-pop: SIN2-P11",
  "19": "x-amz-cf-id: hp0QWeyNLLQw5h_PCH_fIbnPx3-HTSM8dHNvPNV0jux4xUKs27Aw=="
}
```

### IPv6 HTTP (port 80)

HTTP Status	403
Connected IP	2600:9000:213e:f000:11:dff8:ffc0:93a1
Connect Time	8.47 ms
TTFB	16.67 ms
Total Time	16.68 ms

#### Response Headers:

```
[
  "HTTP/1.1 403 Forbidden",
  "Server: CloudFront",
  "Date: Fri, 06 Mar 2026 09:00:22 GMT",
  "Content-Type: text/html",
  "Content-Length: 915",
  "Connection: keep-alive",
  "X-Cache: Error from cloudfront",
  "Via: 1.1 1f5f0d0a0b7e722339a69bcdbf48a2ee.cloudfront.net (CloudFront)",
  "X-Amz-Cf-Pop: SIN2-P11",
  "X-Amz-Cf-Id: N6Z-WZ2gELvQaWU4xR2-Zd0Ki1hM0pawLlbvL6ZQTne2nw-N0AxpQ=="
]
```

### IPv4 HTTPS (port 443)

HTTP Status	403
Connected IP	13.35.37.115
Connect Time	12.61 ms
TTFB	111.35 ms
Total Time	111.41 ms

#### Response Headers:

```
{
  "0": "HTTP/1.1 301 Moved Permanently",
  "1": "Date: Fri, 06 Mar 2026 09:00:22 GMT",
}
```

```

"2": "Server: Apache",
"3": "Strict-Transport-Security: max-age=31536000; includeSubDomains",
"4": "Location: https://www.cimb.com.my/",
"5": "Content-Type: text/html; charset=iso-8859-1",
"7": "HTTP/2 403",
"8": "content-type: text/html",
"9": "content-length: 391",
"10": "date: Fri, 06 Mar 2026 09:00:23 GMT",
"11": "last-modified: Tue, 26 Apr 2022 12:08:03 GMT",
"12": "etag: \"16022d8d9db8206557ad38ecc55769d0\"",
"13": "x-amz-version-id: lkq6EbQdEu0HZL.Xzwc7C5Td0cabRPR6",
"14": "accept-ranges: bytes",
"15": "server: AmazonS3",
"16": "x-cache: Error from cloudfront",
"17": "via: 1.1 37df296942e9799685d22e45cbe1788e.cloudfront.net (CloudFront)",
"18": "x-amz-cf-pop: SIN2-P11",
"19": "x-amz-cf-id: 188KLoNw4blHT0ftRhvnNZzvrkzevGBTd6ks8Toz12Fxb00iZTWQ=="
    }
    
```

**IPv6 HTTPS (port 443)**

HTTP Status	0
Connected IP	2600:9000:213e:f000:11:dff8:ffc0:93a1
Connect Time	8.3 ms
TTFB	0 ms
Total Time	16.73 ms
Error	OpenSSL/3.0.13: error:0A000410:SSL routines::sslv3 alert handshake failure

**Connectivity Test Evidence**

Test	Result
TCP Connect IPv4 → port 80	301 0.005713 0.011404
TCP Connect IPv6 → port 80	403 0.007833 0.017093
TCP Connect IPv4 → port 443	301 0.004687 0.044330
TCP Connect IPv6 → port 443	000 0.007800 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
--------------------------------	---

**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
    
```