

IPv6 Readiness Report

wechat.com — wechat.com

Category: Social Media • Generated: 20 Apr 2026, 21:10 MYT • Last Checked: 07 Mar 2026, 01:16 MYT • Verification ID: a5e35395-edc6-477b-a641-df0a0dba57d3

Report generated from National IPv6 Readiness Monitor — <https://ipv6.my6.my>Audit trail: <https://ipv6.my6.my/audit/a5e35395-edc6-477b-a641-df0a0dba57d3>**Non-Compliant**

MGv6C-1.0

33%**Partial Support****IPv6-ONLY READINESS**Website: **X Not Ready**DNS: **X Not Ready**Email: **X Not Ready****IPv4 ADDRESSES**

43.163.178.94

43.163.181.74

Network Information (WHOIS / RDAP)

IPv4 Network	
Organization	ACEVILLEPTELTD-SG
Country	SG
ASN	AS132203
ASN Name	TENCENT-NET-AP-CN Tencent Building, Kejizhongyi Avenue, CN
Network (CIDR)	43.163.128.0/18

Web Services (35%)

0 / 8

#	CHECK	RESULT	DETAIL
1	AAAA Record	FAIL	No AAAA record found in DNS.
2	Globally Routable IPv6	FAIL	IPv6 address is not globally routable.
3	HTTP over IPv6	FAIL	HTTP is not accessible over IPv6.
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)	FAIL	Domain is IPv6-only or IPv4-only.
8	HTTP/3 (QUIC)	FAIL	No HTTP/3 support detected.

DNS & DNSSEC (25%)

1 / 5

#	CHECK	RESULT	DETAIL
1	NS Has AAAA Record	PASS	Nameserver has IPv6 address.
2	NS Reachable via IPv6	FAIL	No nameserver is reachable over IPv6.
3	NS Answers Queries via IPv6	FAIL	Nameserver does not answer queries 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.
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	No common DKIM selector found.
7	DMARC Record	PASS	DMARC record found.

IPv4 Baseline (15%) 3 / 3

#	CHECK	RESULT	DETAIL
1	A Record	PASS	43.163.178.94, 43.163.181.74
2	HTTP over IPv4	PASS	HTTP (port 80) responds over IPv4 — 197ms TTFB.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 146ms TTFB.

Audit Trail & Evidence Record

Verification ID	a5e35395-edc6-477b-a641-df0a0dba57d3
Domain	wechat.com
Check Mode	Manual
Status	Completed
Started	07 Mar 2026, 01:16:00 MYT
Finished	07 Mar 2026, 01:16:15 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/a5e35395-edc6-477b-a641-df0a0dba57d3

Integrity Verification

<p>✓ INTEGRITY VERIFIED</p>	
Algorithm	hmac-sha256-v1
Root Hash	ab6f22a988f7d690e5da1779c16ae931cfcffd8a702ec3f203653c45d76bafef9
http_headers	cc02dc5462f34a9e6a356c8d7cf11d6ab84ea92b657c1a0a741e6b8e003c3f1c
dns_responses	df3746dec43dbc6cfa11d644ae92abac716efa4c6e52b2022fc002f09582e1b8
tls_handshake	b9946706fe2c511665f7681d78883e108d7627378a5055e12ea358a78532698b
connectivity_log	741018c8a54d480dc4a795eb0cb1869c5265870ab62bf46269c69518bf55010b
dns_resolution_times	74686cf8c2159210fb5a4c4eeb3ed2abbbee0b42f8f6050d20bebf2cdc55a593

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	16.94	18.31	5.95	6.05	-11
Google	IPv4	18.05	26.14	26.18	27.95	+8.1
Google	IPv6	25.94	29.11	30.01	30.05	+4.1
Cloudflare	IPv4	19.54	20.31	8.1	19.84	-11.4
Cloudflare	IPv6	14.88	18.54	17.99	25.79	+3.1

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 1722
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
wechat.com. 0024300IN0A043.163.181.74
wechat.com. 0024300IN0A043.163.178.94
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 21655
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
com. 00019900IN0SOA0a.gtld-servers.net. nstld.verisign-grs.com. 1772787856 1800 900 604800 900
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 12990
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
wechat.com. 0060000IN0MX05 mxbiz1.qq.com.
wechat.com. 0060000IN0MX010 mxbiz2.qq.com.
```

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 5274
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
wechat.com. 00720000IN0NS0ns2.wechat.com.
wechat.com. 00720000IN0NS0ns3.wechat.com.
wechat.com. 00720000IN0NS0ns4.wechat.com.
wechat.com. 00720000IN0NS0ns1.wechat.com.
```

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 44420
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
wechat.com. 0030000IN0TXT0"v=spf1 include:spf.mail.qq.com ~all"
```

AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 21534
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
wechat.com. 00111600IN0SOA0ns1.wechat.com. webmaster.qq.com. 1357633970 300 600 86400 86400
```

RRSIG

```
ns1.wechat.com. webmaster.qq.com. 1357633970 300 600 86400 86400
```

DNSKEY

```
;; Got answer:
;; ->HEADER<- opcode: QUERY, status: NOERROR, id: 31230
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
wechat.com. 1800 IN SOA ns1.wechat.com. webmaster.qq.com. 1357633970 300 600 86400 86400
```

DNSSEC_VALIDATION

```
; unsigned answer
wechat.com. 21600 IN SOA ns1.wechat.com. webmaster.qq.com. 1357633970 300 600 86400 86400
```



```

i:C = US, 0 = DigiCert Inc, OU = www.digicert.com, CN = DigiCert Global Root G2
a:PKKEY: rsaEncryption, 4096 (bit); sigalg: RSA-SHA256
v:NotBefore: Dec 15 00:00:00 2022 GMT; NotAfter: Dec 14 23:59:59 2032 GMT
-----BEGIN CERTIFICATE-----
MIIF1TCCBL2gAwIBAgIQBMG5YBkfy7r7c2pMBps14wzANBgkqhkiG9w0BAQsFADBh
MQswCQYDVQGEwJVUzEVMBMGA1UEChMMRGlnaUNlcnQgSW5jMRkwFwYDVQLEExB3
d3cuZGlnaWNLcnQuY29tMSAwHgYDVoQDEdEaWdpQ2VydCBHbG9iYWwUm9vdCBH
MjAeFw0yMjE5MTUwMDAwMDBaFw0zMDYyMTQyMzU5NTLaMGoxCzAJBgNVBAYTA1VT
MRcwFQYDVQKKEw5EaWdpQ2VydCwgSW5jLjFCMEAGA1UEAxM5RGlnaUNlcnQgU2Vj
dXJlIFNpdGUGT1YgRzIyYgRzIyYgRzIyYgRzIyYgRzIyYgRzIyYgRzIyYgRzIy
IjANBgkqhkiG9w0BAQEFAAOCAg8AMIICCgKCAgEAOqPBWLBjflbG0dPpKg1poUIy
2T062PnFJq6TDc4LK8EBLCYpg1XpXjk8tsoSaGw5VIc4K4djyLAGQXg9VKBbg+7
5i+8SomphCkVtIPwY+ZwQ0n2puNpVJ6ZgDYNE9PTmBEYeRPvxpksMTIvdXXA22
hAsXZVawLR1/iJXLqmF80UvShmzLXhkR6ymKK0edoJcXDzpgEK3g0cRVCAw8Ij8K
9nU72msIrhMrMBKAvG0AQEzLGGGWSk92FtzeUuY04MGCGL0HDEJ0B5hf4V+h/Ct
Wuho/roYquUeoHsVMUXPwwGspahGoDlWh9nZ4zRsCE/zXJRYtkplZaUc/5SA0zu
7F4UatHP1xVfRhkxHT0uCJ7iCyc5B/D1SLpU0FzZ7Mff0eANhB0ilFbFzJ/gXPA9
dWCYP0kqkkcLcn5hRH0xArGkP+VzZuayTVcBHK5tbZ/ZzQ3gnyEopwtq1Do77dLv
wZlfn0HA1tzTFYLkATE8VC/xtaSi2tyBoXX+kuvLd/552914gA8+Jw4gM+aYD3y5
LQCD/6c27beRta2DXC8y4nG1mC2jdyurw/+KxGMKLFuDAeGs9om+kqM5JdJXwUBW
L13+0QH8V02omIsoZ2VijBoe6J6r8hzAvg2qz8yIdjG3c+K+clbwmT50xSx3PHnx
Ab1dKZPFwGq+TiSx7XcCAwEAA0CAx4wggF6MBIGA1UdEwEB/wQIMAYBAf8CAQAw
HQYDVR00BBYEFCSjFoEbr4mKkHrs6DLUbi5y+c4LMB8GA1UdIwYMBaAFE4iVCAY
LebjbuYP+vq5Eu0GF485MA4GA1UdDwEB/wQEAwIBhjAdBgNVHSUEFjAUBgggRBgEF
BQcDAQYIKwYBBQUHAwIwdAYIKwYBBQUHAQEEdBmMCMGCCsGAQUFBzABhhdodHRw
O18vb2Nzc5kaWdpY2VydC5jbjA/BgggRBgEFBQcwAoYzaHR0cDovL2NhY2VydHMu
ZGlnaWNLcnQuY29tMSAwHgYDVoQDEdEaWdpQ2VydCBHbG9iYWwSb290RzIuY3J0MEAGA1UdHwQ5MDCw

```

HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	200
Connected IP	43.159.94.110
Connect Time	51.27 ms
TTFB	117.48 ms
Total Time	117.56 ms

Response Headers:

```
{
  "0": "HTTP/1.1 301 Moved Permanently",
  "1": "Location: https://www.wechat.com/",
  "2": "Date: Fri, 06-Mar-2026 09:16:14 GMT",
  "3": "Content-Length: 0",
  "4": "Connection: keep-alive",
  "6": "HTTP/1.1 200 OK",
  "7": "Etag: W/\\"24cf-ZS+9uSavYYiv0+svWovzdrbqcU\\"",
  "8": "Strict-Transport-Security: max-age=15768000",
  "9": "Access-Control-Allow-Origin: *",
  "10": "Access-Control-Allow-Headers: Authorization,Origin,No-Cache,X-Requested-With,If-Modified-Since,Pragma,Last-Modified,Cache-Control,Expires,Content-Type,X-E4M-With",
  "11": "Access-Control-Allow-Methods: GET,HEAD,PUT,PATCH,POST,DELETE",
  "12": "Access-Control-Max-Age: 1728000",
  "13": "Content-Type: text/html; charset=utf-8",
  "14": "Server: TencentEdgeOne",
  "15": "Content-Length: 9423",
  "16": "Accept-Ranges: bytes",
  "17": "Connection: keep-alive",
  "18": "Date: Fri, 06 Mar 2026 09:16:14 GMT",
  "19": "E0-LOG-UUID: 13815220610698660532",
  "20": "E0-Cache-Status: HIT"
}
```

IPv4 HTTPS (port 443)

HTTP Status	200
Connected IP	43.159.94.110
Connect Time	51.42 ms
TTFB	199.02 ms
Total Time	199.1 ms

Response Headers:

```
{
  "0": "HTTP/1.1 301 Moved Permanently",
  "1": "Location: https://www.wechat.com/",
  "2": "Date: Fri, 06-Mar-2026 09:16:15 GMT",
  "3": "Content-Length: 0",
  "4": "Connection: keep-alive",
  "5": "Strict-Transport-Security: max-age=15768000",
  "7": "HTTP/1.1 200 OK",
  "8": "Etag: W/\\"24cf-ZS+9uSavYYiv0+svWovzdrbqcU\\"",
  "9": "Strict-Transport-Security: max-age=15768000",
  "10": "Access-Control-Allow-Origin: *",
  "11": "Access-Control-Allow-Headers: Authorization,Origin,No-Cache,X-Requested-With,If-Modified-Since,Pragma,Last-Modified,Cache-Control,Expires,Content-Type,X-E4M-With",
  "12": "Access-Control-Allow-Methods: GET,HEAD,PUT,PATCH,POST,DELETE",
  "13": "Access-Control-Max-Age: 1728000",
  "14": "Content-Type: text/html; charset=utf-8",
  "15": "Server: TencentEdgeOne",
  "16": "Content-Length: 9423",
  "17": "Accept-Ranges: bytes",
  "18": "Connection: keep-alive",
  "19": "Date: Fri, 06 Mar 2026 09:16:15 GMT",
  "20": "E0-LOG-UUID: 1206645597821736525",
  "21": "E0-Cache-Status: HIT"
}
```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	301 0.046897 0.091519
TCP Connect IPv4 → port 443	301 0.044569 0.140485

Test Node Network Evidence

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

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
--------------------------------	---

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
```