

# IPv6 Readiness Report

db.com — db.com

Category: Banking • Generated: 20 Apr 2026, 21:17 MYT • Last Checked: 07 Mar 2026, 01:00 MYT • Verification ID: d2b53501-149e-47b0-b827-4f302c938512

Report generated from National IPv6 Readiness Monitor — <https://ipv6.my6.my>Audit trail: <https://ipv6.my6.my/audit/d2b53501-149e-47b0-b827-4f302c938512>

<b>X</b> <b>Non-Compliant</b> MGv6C-1.0	<b>43%</b> <b>Partial Support</b>	<b>IPV6-ONLY READINESS</b> Website: <b>X Not Ready</b> DNS: <b>✓ Ready</b> Email: <b>X Not Ready</b>
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**IPV4 ADDRESSES**

34.98.101.189

**Network Information (WHOIS / RDAP)**

IPv4 Network	
Organization	Google LLC
Country	US
ASN	AS396982
ASN Name	GOOGLE-CLOUD-PLATFORM - Google LLC, US
Network (CIDR)	34.64.0.0/10

**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>	No common DKIM selector found.
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>	34.98.101.189
2	<b>HTTP over IPv4</b>	<b>PASS</b>	HTTP (port 80) responds over IPv4 — 646ms TTFB.
3	<b>HTTPS over IPv4</b>	<b>PASS</b>	HTTPS (port 443) responds over IPv4 — 486ms TTFB.

### Audit Trail & Evidence Record

Verification ID	d2b53501-149e-47b0-b827-4f302c938512
Domain	db.com
Check Mode	Manual
Status	Completed
Started	07 Mar 2026, 01:00:19 MYT
Finished	07 Mar 2026, 01:00:25 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/d2b53501-149e-47b0-b827-4f302c938512

### Integrity Verification

<b>✓ INTEGRITY VERIFIED</b>	
Algorithm	hmac-sha256-v1
Root Hash	5105e8c7f3179828025c8d98aeb18e83063664718218065e195d4f502f25bc7e
http_headers	e213e244924446ae879ac8a1dab666e12d8ca13e57fb7f3b317e1782e830dff5
dns_responses	5cebef99d5cf14b1764e97d20715923f07ac03f7b962a6fd2af940085ed9946b
tls_handshake	3e1e15a1ab1dcd4596b2df12ce2aaec00b186963cff322bf60f689a9604abb14
connectivity_log	2655fb26b8012ba3a9ac1da450b0d3eb42aff9a495f965694d0e863597f2cf3b
dns_resolution_times	0a2158a06dd1896b12969ce65fefe77bd3e0ef6c208f0f7314f8e2705400d31c

### 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	8.84	18.83	10	19.31	+1.2
Google	IPv4	17.05	17.87	26.85	27.23	+9.8
Google	IPv6	24.95	32.23	23.9	30.6	-1.1
Cloudflare	IPv4	13.74	23.78	9.89	20.35	-3.9
Cloudflare	IPv6	24.35	30.43	19.23	37.46	-5.1



## DNS Evidence

### A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 17601
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
db.com. 89 IN A 34.98.101.189
```

### DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 3702
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
com. 89 IN SOA a.gtld-servers.net. nstld.verisign-grs.com. 1772787596 1800 900 604800 900
```

### MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 61512
;; flags: qr rd ra; QUERY: 1, ANSWER: 7, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
db.com. 190 IN MX 10 smtp15.db.com.
db.com. 190 IN MX 15 smtp23.db.com.
db.com. 190 IN MX 10 smtp14.db.com.
db.com. 190 IN MX 10 smtp12.db.com.
db.com. 190 IN MX 10 smtp22.db.com.
db.com. 190 IN MX 10 smtp24.db.com.
db.com. 190 IN MX 10 smtp13.db.com.
```

### NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 17233
;; flags: qr rd ra; QUERY: 1, ANSWER: 9, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
db.com. 1800 IN NS ns13.db-dns.com.
db.com. 1800 IN NS ns12.db-dns.de.
db.com. 1800 IN NS ns2.db-dns.com.
db.com. 1800 IN NS ns15.db-dns.com.
db.com. 1800 IN NS ns3.db-dns.de.
db.com. 1800 IN NS ns11.db-dns.com.
db.com. 1800 IN NS ns14.db-dns.de.
db.com. 1800 IN NS ns10.db-dns.de.
db.com. 1800 IN NS ns1.db-dns.de.
```

### TXT

```
;; Truncated, retrying in TCP mode.
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 9453
;; flags: qr rd ra; QUERY: 1, ANSWER: 35, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
db.com. 1757 IN TXT "new-relic-domain-verification=6814daddb8c6477db31bf81d7185a987"
db.com. 1757 IN TXT "jpg4mDPzjFsb1WB6pRbXL2ZN900RtGhKwcQAVnLT6Xs="
db.com. 1757 IN TXT "g1smq76hsdvY86z400wkkdyqr9vv4mw4"
db.com. 1757 IN TXT "d23a42a29b0840028a4af1557b98572f"
db.com. 1757 IN TXT "atlassian-domain-verification=84JXpQBhAhzPjiM1wU0GLHuC/ky7JExm5HsdduuggeRfV0Mhzt1hqxE6b2cdus58"
db.com. 1757 IN TXT "QuoVadis=83836e67-d3bb-42bf-8b35-162af34db768"
db.com. 1757 IN TXT "docuSign=76cef473-9b56-48fa-9f15-e60e674a3f66"
db.com. 1757 IN TXT "pexip-ms-tenant-domain-verification=value1,9f599f8e-b982-44c2-a563-733f53652d58"
```

```
db.com.00017570IN0TXT0"QuoVadis=b46d77b0-bd9e-4c18-9c9f-d804d3d37169"
db.com.00017570IN0TXT0"new-relic-domain-verification=137e43072d41470a854b41b90da97c48"
db.com.00017570IN0TXT0"zFSjiNgPRk8FttdeLKTv33ESlF2AoEiCf9gyieQnzasDPtFM6UAgLk3GVv1kFVNvriGv5z2p3IKQTAmf0Jh6jq=="
db.com.00017570IN0TXT0"1Bj9e2QZSyxn5sGh7Q15CG9tBn3m"
db.com.00017570IN0TXT0"adobe-idp-site-verification=266841ad46fa04739ecdffbc4c697b53bb31eda59acd14b65310c0601c5ccd2"
db.com.00017570IN0TXT0"google-site-verification=c9KqXLWwNj1zVneLvCe2tquJrLlIkBipCoyFrV8VPw"
db.com.00017570IN0TXT0"QuoVadis=9a3e7de8-d044-492f-a47d-686e10d79be6"
db.com.00017570IN0TXT0"apple-domain-verification=Bi9q52e7UmnGksjy"
db.com.00017570IN0TXT0"_globalsign-domain-verification=Vg1C9KB2JsBNtPy6ucvXwCGkT_dcFTZnMLQIQJ3HNE"
db.com.00017570IN0TXT0"_globalsign-domain-verification=5YGDN9fG50s2kPBjN1cpuiMDnj59t7eg6-NMb8UTjr"
db.com.00017570IN0TXT0"QuoVadis=7e856ef0-6a07-4454-a320-05abc34d4d41"
db.com.00017570IN0TXT0"docusign=c2f928f1-7ede-41a1-bf8f-d2950667dab8"
db.com.00017570IN0TXT0"figma-domain-verification=b683db153c43e78d2735c4d9b4b82b7344d60c58587cf4217fb72c17af7479f-1723563559"
db.com.00017570IN0TXT0"MS=ms94849899"
db.com.00017570IN0TXT0"wLk48r6Lmwm6sxsfnrhpfLbyxg9krk"
db.com.00017570IN0TXT0"QuoVadis=5608ca33-3315-48bc-a04e-2c413c3038ef"
db.com.00017570IN0TXT0"pexip-ms-tenant-domain-verification=9f599f8e-b982-44c2-a563-733f53652d58"
db.com.00017570IN0TXT0"QuoVadis=5bb6360c-7e69-4c23-900f-71ee79ef3351"
db.com.00017570IN0TXT0"facebook-domain-verification=z9wptf16z583vs2l8t5wk6zypq0ddf"
db.com.00017570IN0TXT0"QuoVadis=48509f83-4123-486b-80ce-1026da852815"
db.com.00017570IN0TXT0"adobe-idp-site-verification=ebd1b7c0129651c3c2c80e1d73e2a90e482cec20967920f87bd30a70728d0873"
db.com.00017570IN0TXT0"v=spf1 ip4:160.83.0.0/16 ~all"
db.com.00017570IN0TXT0"google-site-verification=TfEbVn0BMIyK0ZMGvyj5p6l3gruzN74lchZ2TjzXno"
db.com.00017570IN0TXT0"zaU3GmK84cVY+TX0KpAodECpvZv1evp5eDhPx/H2LP0Gx2z1PnF9UnlKi8q5ye2f060uQb8U15vSKIX5H495A=="
db.com.00017570IN0TXT0"docker-verification=db44e2a4-ee3-460a-8891-9b6cf83c21ec"
db.com.00017570IN0TXT0"QuoVadis=3e58dca1-dd1c-41c7-96e7-92338816c762"
db.com.00017570IN0TXT0"GCY2GABHZbRGfSmxtluT"
```

**AAAA**

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 3128
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
db.com.0003000IN0S0A0ns1.db-dns.de. hostmaster.db.com. 2002417126 10800 3600 2419200 300
```

**RRSIG**

```
ns1.db-dns.de. hostmaster.db.com. 2002417126 10800 3600 2419200 300
```

**DNSKEY**

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 38425
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
db.com.0003000IN0S0A0ns1.db-dns.de. hostmaster.db.com. 2002417126 10800 3600 2419200 300
```

**DNSSEC\_VALIDATION**

```
; unsigned answer
db.com.00017970IN0S0A0ns1.db-dns.de. hostmaster.db.com. 2002417126 10800 3600 2419200 300
```







HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	200
Connected IP	34.98.101.189
Connect Time	8.39 ms
TTFB	485.74 ms
Total Time	485.84 ms

Response Headers:

```
{
  "0": "HTTP/1.1 301 Moved Permanently",
  "1": "Cache-Control: private",
  "2": "Location: https://db.com:443/",
  "3": "Content-Length: 0",
  "4": "Date: Fri, 06 Mar 2026 09:00:24 GMT",
  "5": "Content-Type: text/html; charset=UTF-8",
  "7": "HTTP/2 301",
  "8": "cache-control: private",
  "9": "location: https://www.db.com:443/",
  "10": "content-length: 0",
  "11": "date: Fri, 06 Mar 2026 09:00:24 GMT",
  "12": "content-type: text/html; charset=UTF-8",
  "13": "alt-svc: h3=\":443\"; ma=2592000,h3-29=\":443\"; ma=2592000",
  "15": "HTTP/2 200",
  "16": "set-cookie: JSESSIONID=F5D1A01002559AECDD4F9E62B1E9E248; Path=/; Secure; HttpOnly; SameSite=Lax",
  "17": "set-cookie: opvc=51678907-4024-4833-9d66-37e95fcf9a46; Path=/; SameSite=Lax",
  "18": "set-cookie: sitevisitscookie=1; Max-Age=153792000; Expires=Sun, 19-Jan-2031 09:00:24 GMT; Path=/; SameSite=Lax",
  "19": "set-cookie: dmid=c38fb7e8-4e8d-4211-be1c-74f5c9bc5066; Max-Age=153792000; Expires=Sun, 19-Jan-2031 09:00:24 GMT; Path=/; SameSite=Lax",
  "20": "set-cookie: GCLB=CJiJ8ciuvby13AEQAw; path=/; HttpOnly; expires=Fri, 06-Mar-2026 09:10:24 GMT",
  "21": "vary: accept-encoding",
  "22": "content-type: text/html; charset=UTF-8",
  "23": "date: Fri, 06 Mar 2026 09:00:24 GMT",
  "24": "via: 1.1 google, 1.1 google",
  "25": "alt-svc: h3=\":443\"; ma=2592000,h3-29=\":443\"; ma=2592000",
  "26": "alt-svc: h3=\":443\"; ma=2592000,h3-29=\":443\"; ma=2592000",
  "27": "x-cache-hit: miss"
}
```

IPv4 HTTPS (port 443)

HTTP Status	200
Connected IP	34.98.101.189
Connect Time	2.78 ms
TTFB	483.48 ms
Total Time	483.54 ms

Response Headers:

```
{
  "0": "HTTP/2 301",
  "1": "cache-control: private",
  "2": "location: https://www.db.com:443/",
  "3": "content-length: 0",
  "4": "date: Fri, 06 Mar 2026 09:00:25 GMT",
  "5": "content-type: text/html; charset=UTF-8",
  "6": "alt-svc: h3=\":443\"; ma=2592000,h3-29=\":443\"; ma=2592000",
  "8": "HTTP/2 200",
  "9": "set-cookie: JSESSIONID=06D725C4002F4BE57FC9B67C056FFF7D; Path=/; Secure; HttpOnly; SameSite=Lax",
  "10": "set-cookie: opvc=ac0784c2-b8c0-4e6f-b8d3-11d78ad2a4fc; Path=/; SameSite=Lax",
  "11": "set-cookie: sitevisitscookie=1; Max-Age=153792000; Expires=Sun, 19-Jan-2031 09:00:25 GMT; Path=/; SameSite=Lax",
  "12": "set-cookie: dmid=86313077-4adc-4d70-8aa7-eb8b94390bd7; Max-Age=153792000; Expires=Sun, 19-Jan-2031 09:00:25 GMT; Path=/; SameSite=Lax",
  "13": "set-cookie: GCLB=C0_749-e_NjElgEQAw; path=/; HttpOnly; expires=Fri, 06-Mar-2026 09:10:25 GMT",
  "14": "vary: accept-encoding",
  "15": "content-type: text/html; charset=UTF-8",
  "16": "date: Fri, 06 Mar 2026 09:00:24 GMT",
  "17": "via: 1.1 google, 1.1 google",
  "18": "alt-svc: h3=\":443\"; ma=2592000,h3-29=\":443\"; ma=2592000",
  "19": "alt-svc: h3=\":443\"; ma=2592000,h3-29=\":443\"; ma=2592000",
  "20": "x-cache-hit: miss"
}
```

### Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	301 0.001833 0.003893
TCP Connect IPv4 → port 443	301 0.002171 0.022116

### 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
```