

IPv6 Readiness Report

tunetalk.com — tunetalk.com



Scan to verify

Category: Telco • Generated: 13 Jun 2026, 19:12 MYT • Last Checked: 13 Jun 2026, 01:03 MYT • Verification ID: 5079105b-ad05-4de0-a2d4-0dd13f52683c

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

Audit trail: <https://ipv6.my6.my/audit/5079105b-ad05-4de0-a2d4-0dd13f52683c>

<p>X</p> <p>Non-Compliant</p> <p>MGv6C-1.0</p>	<p>47%</p> <p>No IPv6 Support</p>	<p>IPv6-ONLY READINESS</p> <p>Website: X Not Ready</p> <p>DNS: ✓ Ready</p> <p>Email: X Not Ready</p>
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IPv4 ADDRESSES
47.130.36.122
13.229.17.185

Network Information (WHOIS / RDAP)

IPv4 Network	
Organization	Amazon Data Services Singapore
Country	US
ASN	AS16509
ASN Name	AMAZON-02 - Amazon.com, Inc., US
Network (CIDR)	47.128.0.0/14

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%) 3 / 5			
#	CHECK	RESULT	DETAIL
1	NS Has AAAA Record	PASS	Nameserver has IPv6 address.
2	NS Reachable via IPv6	PASS	Nameserver is reachable via IPv6 on port 53.
3	NS Answers Queries via IPv6	PASS	DNS queries answered 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.

#	CHECK	RESULT	DETAIL
8	Signing Algorithm	INFO	No DNSKEY record found.

Email Services (25%) 4 / 6

#	CHECK	RESULT	DETAIL
1	MX Record Exists	PASS	MX record found.
2	MX Server Has IPv6	PASS	MX server has AAAA record.
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	DKIM selector found: selector1_domainkey
7	DMARC Record	PASS	DMARC record found.

IPv4 Baseline (15%) 3 / 3

#	CHECK	RESULT	DETAIL
1	A Record	PASS	47.130.36.122, 13.229.17.185
2	HTTP over IPv4	PASS	HTTP (port 80) responds over IPv4 — 15ms TTFB.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 37ms TTFB.

Audit Trail & Evidence Record

Verification ID	5079105b-ad05-4de0-a2d4-0dd13f52683c
Domain	tunetalk.com
Check Mode	Scheduled
Status	Completed
Started	13 Jun 2026, 01:02:42 MYT
Finished	13 Jun 2026, 01:03:08 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/5079105b-ad05-4de0-a2d4-0dd13f52683c

Integrity Verification

✓ INTEGRITY VERIFIED	
Algorithm	hmac-sha256-v1
Root Hash	0a1d324a3bd8b9f66c446ce6dafa5860868edda65b5b9033799c75c566c6667b
http_headers	ff85903514a99ab31b2ed35f8234a4dba0ab056176d5d20d9b18638272885bda
dns_responses	b227773772c927734567725645eb8853c02b330154a4b54fb068a68ee48a9ac4
tls_handshake	f993ab2f9746868e0ef7aef977e894849786397c44f8aabb7c593af69e34c871
connectivity_log	178933843b9d97cfd3d9b3cb506e028f1a3d7920fbb9868ba26a1b14af0dc0b
dns_resolution_times	8ee989ea705e4f7675ecee61bb052c2dcc9429f4567e3d98ac79be35325d04b

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	8.3.31
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	9.49	9.89	8.34	9.59	-1.2
Google	IPv4	41.8	59.85	24.28	36.62	-17.5
Google	IPv6	28.07	33.18	26.23	36.48	-1.8
Cloudflare	IPv4	11.35	22.96	21.14	22.79	+9.8
Cloudflare	IPv6	39.19	201.35	12.38	31.8	-26.8

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 54280
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
tunetalk.com. 60 IN A 13.229.17.185
tunetalk.com. 60 IN A 47.130.36.122
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 35330
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
com. 878 IN SOA a.gtld-servers.net. nstld.verisign-grs.com. 1781283728 1800 900 604800 900
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 9541
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
tunetalk.com. 600 IN MX 0 tunetalk-com.mail.protection.outlook.com.
```

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 396
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
tunetalk.com. 600 IN NS ns-1821.awsdns-35.co.uk.
tunetalk.com. 600 IN NS ns-508.awsdns-63.com.
tunetalk.com. 600 IN NS ns-523.awsdns-01.net.
tunetalk.com. 600 IN NS ns-1375.awsdns-43.org.
```

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 41553
;; flags: qr rd ra; QUERY: 1, ANSWER: 5, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
tunetalk.com. 3600 IN TXT "atlassian-domain-verification=0JhJB3oohprSS80vg02PijIZ0UL917oBuh5DLQN5v605aB/82trTwSVprLRpbXXi"
tunetalk.com. 3600 IN TXT "v=spf1 include:spf.protection.outlook.com include:amazonses.com -all"
tunetalk.com. 3600 IN TXT "MS=C024C6C0F0AF1FC101DAA1325E6EBE33C4EB196D"
tunetalk.com. 3600 IN TXT "MS=ms25426587"
tunetalk.com. 3600 IN TXT "apple-domain-verification=j5FZRZPniVpbqKNG"
```

AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 35702
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
tunetalk.com. 878 IN SOA ns-1821.awsdns-35.co.uk. awsdns-hostmaster.amazon.com. 1 7200 900 1209600 86400
```

RRSIG

```
ns-1821.awsdns-35.co.uk. awsdns-hostmaster.amazon.com. 1 7200 900 1209600 86400
```

DNSKEY

```
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 56193
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
tunetalk.com. IN SOA ns-1821.awsdns-35.co.uk. awsdns-hostmaster.amazon.com. 1 7200 900 1209600 86400
```

DNSSEC_VALIDATION

```
; unsigned answer
tunetalk.com. IN SOA ns-1821.awsdns-35.co.uk. awsdns-hostmaster.amazon.com. 1 7200 900 1209600 86400
```


HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	403
Connected IP	47.130.36.122
Connect Time	7.15 ms
TTFB	16.63 ms
Total Time	16.67 ms

Response Headers:

```
[
  "HTTP/1.1 403 Forbidden",
  "Date: Fri, 12 Jun 2026 17:03:06 GMT",
  "Content-Type: text/html; charset=iso-8859-1",
  "Connection: keep-alive",
  "Server: Apache",
  "Strict-Transport-Security: max-age=63072000; includeSubDomains"
]
```

IPv4 HTTPS (port 443)

HTTP Status	403
Connected IP	47.130.36.122
Connect Time	8.79 ms
TTFB	39.96 ms
Total Time	40 ms

Response Headers:

```
[
  "HTTP/2 403",
  "date: Fri, 12 Jun 2026 17:03:06 GMT",
  "content-type: text/html; charset=iso-8859-1",
  "server: Apache",
  "strict-transport-security: max-age=63072000; includeSubDomains"
]
```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	301 0.007242 0.677136
TCP Connect IPv4 → port 443	301 0.008074 0.630181

Test Node Network Evidence

Node Profile	dual stack
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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
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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
```