

IPv6 Readiness Report

tunetalk.com — tunetalk.com



Scan to verify

Category: Telco • Generated: 04 Jul 2026, 22:40 MYT • Last Checked: 04 Jul 2026, 03:21 MYT • Verification ID: b86f1b5e-867b-4caf-b86e-3006dd800a8a

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

Audit trail: <https://ipv6.my6.my/audit/b86f1b5e-867b-4caf-b86e-3006dd800a8a>

<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
52.74.14.205
54.255.76.238

Network Information (WHOIS / RDAP)

IPv4 Network	
Organization	Amazon Technologies Inc.
Country	US
ASN	AS16509
ASN Name	AMAZON-02 - Amazon.com, Inc., US
Network (CIDR)	52.0.0.0/10

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	52.74.14.205, 54.255.76.238
2	HTTP over IPv4	PASS	HTTP (port 80) responds over IPv4 — 20ms TTFB.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 39ms TTFB.

Audit Trail & Evidence Record

Verification ID	b86f1b5e-867b-4caf-b86e-3006dd800a8a
Domain	tunetalk.com
Check Mode	Scheduled
Status	Completed
Started	04 Jul 2026, 03:20:45 MYT
Finished	04 Jul 2026, 03:21:12 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/b86f1b5e-867b-4caf-b86e-3006dd800a8a

Integrity Verification

<p>✓ INTEGRITY VERIFIED</p>	
Algorithm	hmac-sha256-v1
Root Hash	011f0b70d26bbc5c94324a776b8773f7fc7b632d22f971ee769bbf0076ab6c5c
http_headers	d78aa261175d0d7ce9261bda43ca6e5a0fc3a2d2b9ad8c54a076c44471f930cd
dns_responses	7c89b5f659ec2070dc80e9603df320d655ce602a8d7fa019501ceacf1bb1366c
tls_handshake	60e5f7e91644dad83f56d0f5adef816ee38db832953270092f957cc6f64282ae
connectivity_log	146b51a10753ae612233d8bbf17da35adc72d63dc82112c90444ef893652389c
dns_resolution_times	6f5f553fcb6764f15c47e6771f6f92a104e1a369ce12c9bd719704db449398d5

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	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	34.91	43.99	38.29	50.89	+3.4
Google	IPv4	64.54	67.8	93.89	99.76	+29.4
Google	IPv6	53.5	100.67	34.39	45.97	-19.1
Cloudflare	IPv4	32.24	38.39	32.97	33.56	+0.7
Cloudflare	IPv6	93.41	95.36	30.12	92.39	-63.3

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 48177
;; 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 54.255.76.238
tunetalk.com. 60 IN A 52.74.14.205
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 28726
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
com. 877 IN SOA a.gtld-servers.net. nstld.verisign-grs.com. 1783106421 1800 900 604800 900
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 17376
;; 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: 52144
;; 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-1375.awsdns-43.org.
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.
```

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 2944
;; 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=0JhJB3oohprSS80vgo2PijIZ0UL917oBuh5DLQN5v605aB/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: 17650
;; 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: 36283  
;; 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	52.74.14.205
Connect Time	8.16 ms
TTFB	18.02 ms
Total Time	18.07 ms

Response Headers:

```
[
  "HTTP/1.1 403 Forbidden",
  "Date: Fri, 03 Jul 2026 19:21:10 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	52.74.14.205
Connect Time	8.01 ms
TTFB	37.4 ms
Total Time	37.43 ms

Response Headers:

```
[
  "HTTP/2 403",
  "date: Fri, 03 Jul 2026 19:21:10 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 0.008244 0.665091
TCP Connect IPv4 → port 443	301 0.008093 0.722580

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  
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
```