

IPv6 Readiness Report

appletvplus.com — appletvplus.com

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Report generated from National IPv6 Readiness Monitor — <https://ipv6.my6.my>Audit trail: <https://ipv6.my6.my/audit/05af1c1f-5432-4b99-9ce2-6a3db5c81209>**Non-Compliant**

MGv6C-1.0

30%**Partial Support****IPv6-ONLY READINESS**Website: **X Not Ready**DNS: **✓ Ready**Email: **X Not Ready****IPv4 ADDRESSES**

17.253.142.4

Network Information (WHOIS / RDAP)

IPv4 Network	
Organization	Apple Inc.
Country	US
ASN	AS714
ASN Name	APPLE-ENGINEERING - Apple Inc., US
Network (CIDR)	17.0.0.0/8

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.
8	Signing Algorithm	INFO	No DNSKEY record found.

Email Services (25%) 0 / 6

#	CHECK	RESULT	DETAIL
1	MX Record Exists	FAIL	No MX record found in DNS.
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	FAIL	No SPF record found.
6	DKIM Selector	INFO	No common DKIM selector found.
7	DMARC Record	FAIL	No DMARC record found.

IPv4 Baseline (15%) 3 / 3

#	CHECK	RESULT	DETAIL
1	A Record	PASS	17.253.142.4
2	HTTP over IPv4	PASS	HTTP (port 80) responds over IPv4 — 496ms TTFB.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 751ms TTFB.

Audit Trail & Evidence Record

Verification ID	05af1c1f-5432-4b99-9ce2-6a3db5c81209
Domain	appletvplus.com
Check Mode	Manual
Status	Completed
Started	07 Mar 2026, 01:16:41 MYT
Finished	07 Mar 2026, 01:16:49 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/05af1c1f-5432-4b99-9ce2-6a3db5c81209

Integrity Verification

✓ INTEGRITY VERIFIED	
Algorithm	hmac-sha256-v1
Root Hash	803f6787a1b5c25868dabaa83de40aa6b7084ea22b3f53c89ed9040fbbfdcccf
http_headers	cd1fa6c219d209173a8d561d2adcfb4e3e96f145dd8002adb0bd302e8532b7b7
dns_responses	bbb859ff5b55a9532424746fc18b4ef6bf43465004766775f7cb16efa9ccdfab
tls_handshake	62dd932743aca6be430fafafe86b4f9afa5043b297c0d8a9ede64c85928f7640
connectivity_log	811d81a2c1e088ae9ddb75426d416d8721510fc8f681fbaa5e33f9f7ac4998ac
dns_resolution_times	f09b9a335f2e7320cef5c8569d6dbf6fc27b301c949168ed9cabd18cf8cfb386

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	11.65	24.31	18.91	24.44	+7.3
Google	IPv4	18.9	19.03	20.07	31.29	+1.2
Google	IPv6	25.38	39.95	27.98	29.85	+2.6
Cloudflare	IPv4	18.77	18.94	8.99	9	-9.8
Cloudflare	IPv6	6.98	15.98	7.98	25.1	+1

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 41517
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
appletvplus.com. 300 IN A 17.253.142.4
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 23270
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
com. 900 IN SOA a.gtld-servers.net. nstld.verisign-grs.com. 1772788581 1800 900 604800 900
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 9181
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
appletvplus.com. 300 IN SOA ns-ext-prod.jackfruit.apple.com. dnscontact.apple.com. 53 7200 5400 3628800 300
```

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 11736
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
appletvplus.com. 3600 IN NS a.ns.apple.com.
appletvplus.com. 3600 IN NS b.ns.apple.com.
appletvplus.com. 3600 IN NS c.ns.apple.com.
appletvplus.com. 3600 IN NS d.ns.apple.com.
```

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 10021
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
appletvplus.com. 3600 IN TXT "mt-19390627"
```

AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 60610
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
appletvplus.com. 300 IN SOA ns-ext-prod.jackfruit.apple.com. dnscontact.apple.com. 53 7200 5400 3628800 300
```

RRSIG

```
ns-ext-prod.jackfruit.apple.com. dnscontact.apple.com. 53 7200 5400 3628800 300
```

DNSKEY

```
;; Got answer:
```

```
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 12353
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
appletvplus.com. 3600 IN SOA ns-ext-prod.jackfruit.apple.com. dnscontact.apple.com. 53 7200 5400 3628800 300
```

DNSSEC_VALIDATION

```
; unsigned answer
appletvplus.com. 3600 IN SOA ns-ext-prod.jackfruit.apple.com. dnscontact.apple.com. 53 7200 5400 3628800 300
```



```

b22CFX3d3dy5hcHBsZWhvbmdrb25nLmNvbYiOYXBwbGVzdG9yZS5jb20wYgYDVR0g
BFswWTBjBgZngQwBAglwPzA9BgggrBgEFBQcCARYxaHR0cHM6Ly93d3cuYXBwbGUu
Y29tL2NlcnRpZmljYXRlYXV0aG9yaXR5L3B1YmtpYzAMBgoqhkiG92Nk8BQsEMBMG
A1UdJQMMMAoGCCsGAQUFBwMBMDYGA1UdHwQVMC0wK6ApoCeGJWh0dHA6Ly9jcmwu
YXBwbGUuY29tL2Fwc3JzYW5hMTFnMS5jcmwwHQYDVR0BBYEF02+sMtvK/PJH+LK
MNB7oQR2qQ3LMA4GA1UdDwEB/wQEAwIFoDAPBgkqhkiG92NkBlYEAguAMIIB9wYK
KwYBBAHwQIEAgSCAecEggHjAeEAdgBKECRspBLsp4kcoGiuALyrTygHIB41J6vq
/tUDyX3N8AAAAZtd983iAAAEAwBHMEUCIQCptTUZ4YgVcaP0e4nQ0xYsLSDnByET
u5vPbiYRNbJe3gIgtJYfysNjBIZrLFBndo2YHp9rUZyuX05DDFBXRhP6t3wAdgA0
V5S8866ppMjMblJkHs/eQ35vCPXEyJd0hqSwsYcVOIQAAAzt984yAAAEAwBHMEUC
IAieGEVjsb3i/oZu6Uyxs7fkcCGTzwZ0DGA4c3Rmj2AIEAiHn3ZwsENaqCLnDT
fv9PR93b47b4WonZHgPfg9ryr8QAdwDLOpcViXyEoURfW8Hd+8lu8ppZzUcKaQWF
sMsUwxRY5wAAAZtd984XAAAEAwBIMEYCIQCbl1o56ICi0EfsrZisTSisTmIbYGdv
7A0wmAvsnPi6xQIhAL8Hd2ipfpGbJey4YvHlu/H4S4HXHGJ3UtnkS7V43IAHYA
SZybad4df0z8Nt7Nh25muFuvCoeAGdFVUvvp6ynd+MMAAAGbXffNxAABAMARzBF
AieAZLTnMpMpVdnlBLMLXquGNB9/8umySOVLGyqS7tQ9KhUCIDyjCf+2DTL7/ux2
vj0TxITDR9//owR0+/reg2LE0edDMA0GCSqGS1b3DQEBcwUAA4IBAQAATY9dLtvUv
zw45qR3KuEFXpdSj6H0Ghfg5crlWeYBQVcM1NvBmAOVKoGU1h/omizSWqmxbdwF8
Wz0fvKpJLvlApNoTxJHeegn5M/tvSGHd/od2KLSuNWGaJDzbrFfMtryKn05V0eed
L/uyC9sAF2Nwx1P6h9Y/cs3arMww4HNCn52hdBLn3JkaiQ07yekrHV308A2/rAVM
5+cs1zieqsFrKqb4eVONzMgRVMB2m49ZK1y9q0VxicFaUuwu0HRKn8uQuLfvJ3jH
+Li79bTqn9U3tfJ84B4nUynjfe/30TrAY1z/VdfJGVMMuQE4YU4NcFwWReT23
q2QcxzT6wnDH
-----END CERTIFICATE-----
1 s:CN = Apple Public Server RSA CA 11 - G1, 0 = Apple Inc., ST = California, C = US
i:C = US, ST = New Jersey, L = Jersey City, 0 = The USERTRUST Network, CN = USERTrust RSA Certification Authority
a:PKKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA384

```

HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	405
Connected IP	17.253.142.4
Connect Time	251.91 ms
TTFB	503.15 ms
Total Time	503.17 ms

Response Headers:

```
[
  "HTTP/1.1 405 Method Not Allowed",
  "Date: Fri, 06 Mar 2026 09:16:46 GMT"
]
```

IPv4 HTTPS (port 443)

HTTP Status	405
Connected IP	17.253.142.4
Connect Time	251.56 ms
TTFB	759.28 ms
Total Time	759.3 ms

Response Headers:

```
[
  "HTTP/1.1 405 Method Not Allowed",
  "Date: Fri, 06 Mar 2026 09:16:48 GMT"
]
```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	301 0.247944 0.496767
TCP Connect IPv4 → port 443	301 0.250099 0.753833

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

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
```