


IPv6 Readiness Report

thesundaily.my — thesundaily.my

Category: News Portal • Generated: 20 Apr 2026, 21:18 MYT • Last Checked: 07 Mar 2026, 01:17 MYT • Verification ID: 976ba3fe-f919-4498-97bc-b1437acb130c

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

Audit trail: <https://ipv6.my6.my/audit/976ba3fe-f919-4498-97bc-b1437acb130c>

 Non-Compliant <small>MGv6C-1.0</small>	28% No IPv6 Support	IPv6-ONLY READINESS Website: X Not Ready DNS: X Not Ready Email: X Not Ready
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IPv4 ADDRESSES
158.101.178.245
130.61.205.105

Network Information (WHOIS / RDAP)

IPv4 Network	
Organization	Oracle Public Cloud
Country	US
ASN	AS31898
ASN Name	ORACLE-BMC-31898 - Oracle Corporation, US
Network (CIDR)	158.101.0.0/16

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%) 0 / 5			
#	CHECK	RESULT	DETAIL
1	NS Has AAAA Record	FAIL	No nameserver has an AAAA record.
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	DKIM selector found: mail_domainkey
7	DMARC Record	PASS	DMARC record found.

IPv4 Baseline (15%) 3 / 3

#	CHECK	RESULT	DETAIL
1	A Record	PASS	158.101.178.245, 130.61.205.105
2	HTTP over IPv4	PASS	HTTP (port 80) responds over IPv4 — 376ms TTFB.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 689ms TTFB.

Audit Trail & Evidence Record

Verification ID	976ba3fe-f919-4498-97bc-b1437acb130c
Domain	thesundaily.my
Check Mode	Manual
Status	Completed
Started	07 Mar 2026, 01:17:32 MYT
Finished	07 Mar 2026, 01:17:40 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/976ba3fe-f919-4498-97bc-b1437acb130c

Integrity Verification

✓ INTEGRITY VERIFIED	
Algorithm	hmac-sha256-v1
Root Hash	8f201fb0293c397ac813b6a71772ba7d6784c6ac44a8dd19ab27d7468dc89289
http_headers	49cb06f83eb5210f2a19a3f9a6a9b026b6fe4eb178fd4d56a039658e67a90528
dns_responses	7aab4f5a85ba60029817a17f3ca923c1e2b0de6b26ed8265c76e6338c584f7e5
tls_handshake	544d78e753caa36101f8f2e92ebe75d933b0c68f765d079a118b374099723fb2
connectivity_log	2ee92998a51a917f55809bc0295c1ccc645d08cde3ee34c88bf79b9bfe5a4865
dns_resolution_times	25ad0233538cf3fcea657d0a1847fed2fe010334cfd34e3797fa7c5d8c0ec630

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	16.92	17.95	7.96	7.98	-9
Google	IPv4	17.93	32.83	25.99	29.66	+8.1
Google	IPv6	30.64	41.01	17.75	41.15	-12.9
Cloudflare	IPv4	11.08	18.97	8.76	9.93	-2.3
Cloudflare	IPv6	18.18	26.07	31.13	44.34	+13

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 29491
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
thesundaily.my. 300 IN A 130.61.205.105
thesundaily.my. 300 IN A 158.101.178.245
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 41561
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
my. 1800 IN SOA a.nic.my. hostmaster.nic.my. 2026018483 1800 900 604800 3600
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 7937
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
thesundaily.my. 10173 IN MX 0 mail.thesundaily.com.
```

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 29798
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
thesundaily.my. 21600 IN NS ns2.vxs-secure.com.
thesundaily.my. 21600 IN NS ns1.vxs-secure.com.
```

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 18214
;; flags: qr rd ra; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
thesundaily.my. 700 IN TXT "google-site-verification=zKAKlMerhyMh40Tmu4JXZvq2rmbALNIWSUGEDSo0jXM"
thesundaily.my. 700 IN TXT "v=spf1 a mx include:spf.cleanmail.asia +ip4:137.59.110.173 +ip4:137.59.110.172 +ip4:137.59.110.82 +ip4:202.188.143.20 +ip4:202.188.143.18 -all"
thesundaily.my. 700 IN TXT "facebook-domain-verification=peetdqq8m295s7dlqlg2silbr6h8h3"
```

AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 55960
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
thesundaily.my. 1800 IN SOA ns1.vxs-secure.com. root.ns1.vxs-secure.com. 2026030302 3600 1800 1209600 86400
```

RRSIG

```
ns1.vxs-secure.com. root.ns1.vxs-secure.com. 2026030302 3600 1800 1209600 86400
```

DNSKEY

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 28679
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
thesundaily.my. 1800 IN SOA ns1.vxs-secure.com. root.ns1.vxs-secure.com. 2026030302 3600 1800 1209600 86400
```

DNSSEC_VALIDATION

```
; unsigned answer
thesundaily.my. 21600 IN SOA ns1.vxs-secure.com. root.ns1.vxs-secure.com. 2026030302 3600 1800 1209600 86400
```


TLS Handshake Evidence

IPV4 Connection

IP Used	158.101.178.245
IP Version	4

```
depth=2 C = US, O = Internet Security Research Group, CN = ISRG Root X1
verify return:1
depth=1 C = US, O = Let's Encrypt, CN = R12
verify return:1
depth=0 CN = www.thesun.my
verify error:num=10:certificate has expired
notAfter=Dec 7 07:05:02 2025 GMT
verify return:1
depth=0 CN = www.thesun.my
notAfter=Dec 7 07:05:02 2025 GMT
verify return:1
CONNECTED(00000010)
---
Certificate chain
0 s:CN = www.thesun.my
i:C = US, O = Let's Encrypt, CN = R12
a:PKKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA256
v:NotBefore: Sep 8 07:05:03 2025 GMT; NotAfter: Dec 7 07:05:02 2025 GMT
-----BEGIN CERTIFICATE-----
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-----END CERTIFICATE-----
1 s:C = US, O = Let's Encrypt, CN = R12
i:C = US, O = Internet Security Research Group, CN = ISRG Root X1
a:PKKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA256
v:NotBefore: Mar 13 00:00:00 2024 GMT; NotAfter: Mar 12 23:59:59 2027 GMT
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-----END CERTIFICATE-----
```

```

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-----END CERTIFICATE-----
2 s:C = US, 0 = Internet Security Research Group, CN = ISRG Root X1
i:C = US, 0 = Internet Security Research Group, CN = ISRG Root X1
a:PKKEY: rsaEncryption, 4096 (bit); sigalg: RSA-SHA256
v:NotBefore: Jun  4 11:04:38 2015 GMT; NotAfter: Jun  4 11:04:38 2035 GMT
-----BEGIN CERTIFICATE-----
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ZXQgU2VjdXJpdHkgUmVzZWZyY2ggR3JvdXAxFTATBgNVBAMTElTUkcgUm9vdCBY
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h77ct984kIxuP0ZXohj3dcKi/vVqbvYATyjb3m1GbESTtrFj/RQ5a78f0uoxmyF+
0TM8ukj13Xnfs7j/EvEhmkvBioZxaUpmZmyPffjxwv60pIgbz5MDmgK7iS4+3mX6U
A5/TR5d8mUgju+g4rk8Kb4Mu0ULXjIB0ttov0DiNewNwIRt18jA8+ou3dpjq+sW
T8K0EUt+zwvo/7V3LvSye0rgTBI LDHCNAymg4VMk7BPZ7hm/ELNKjD+Jo2FR3qyH
B5T0Y3HsLuJvW5iB4YLcNHLSdu87kGJ55tukmi8mxdAQ4Q7e2RC0Fvu396j3x+UC
B5iPNgiV5+I3lg02d277DnKxHZu8A/LJbdiB3QW0KtZB6awBdpUKD9jf1b0SHzUv
KBds0ppjBqAlkd25HN7r0rFleaJ1/cTajxQBKT5ZPt0m9STJEadao0xAH0ahmbWn
01FuhjuefXKnEgV4We0+UXgVcW0PjdAvBbI+e0oc53MFEVzG6uBQE3xdk3SzynTn

```


HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	200
Connected IP	104.21.9.104
Connect Time	169.17 ms
TTFB	369.13 ms
Total Time	369.24 ms

Response Headers:

```
{
  "0": "HTTP/1.1 301 Moved Permanently",
  "1": "Date: Fri, 06 Mar 2026 09:17:38 GMT",
  "2": "Location: https://thesun.my/",
  "3": "Cache-Control: max-age=60",
  "4": "Expires: Tue, 20 Jan 2026 01:51:14 GMT",
  "5": "Content-Type: text/plain",
  "7": "HTTP/2 200",
  "8": "date: Fri, 06 Mar 2026 09:17:38 GMT",
  "9": "content-type: text/html; charset=UTF-8",
  "10": "x-dns-prefetch-control: on",
  "11": "link: <https://thesun.my/wp-json/>; rel=\"https://api.w.org/\"",
  "12": "link: <https://thesun.my/wp-json/wp/v2/pages/229296>; rel=\"alternate\"; title=\"JSON\"; type=\"application/json\"",
  "13": "link: <https://thesun.my/>; rel=shortlink",
  "14": "cache-control: public, max-age=2592000",
  "15": "expires: Sun, 05 Apr 2026 09:14:20 GMT",
  "16": "x-xss-protection: 1; mode=block",
  "17": "x-litespeed-cache: hit",
  "18": "server: cloudflare",
  "19": "vary: User-Agent",
  "20": "x-content-type-options: nosniff",
  "21": "x-frame-options: SAMEORIGIN",
  "22": "access-control-allow-origin: *",
  "23": "x-turbo-charged-by: LiteSpeed",
  "24": "cf-cache-status: DYNAMIC",
  "25": "report-to: {\\"group\\":\\"cf-nel\\",\\"max_age\\":604800,\\"endpoints\\":[{\\"url\\":\\"https://a.nel.cloudflare.com/report/v4?s=aILxnto9dC4RBYnhakMV2%2FB9iMkpWF0u09%2Bv0CqMLDfmbCDim5rKrmrW%2BFMB%2BW5ww6QlXfb9p1k3J10\\":{\\"report_to\\":\\"cf-nel\\",\\"success_fraction\\":0.0,\\"max_age\\":604800}],\\"expect-ct\\":{\\"max-age\\":86400,\\"enforce\\":true},\\"referrer-policy\\":\\"strict-origin-when-cross-origin\\",\\"cf-ray\\":\\"9d8044baa8f6ff85-SIN\\",\\"alt-svc\\":\\"h3=\\":443\\"; ma=86400"}
}
```

IPv4 HTTPS (port 443)

HTTP Status	200
Connected IP	172.67.159.189
Connect Time	171.34 ms
TTFB	701.59 ms
Total Time	701.71 ms

Response Headers:

```
{
  "0": "HTTP/2 301",
  "1": "server: nginx/1.14.0",
  "2": "date: Fri, 06 Mar 2026 09:17:39 GMT",
  "3": "content-type: text/plain",
  "4": "location: https://thesun.my/",
  "5": "cache-control: max-age=60",
  "6": "expires: Tue, 20 Jan 2026 01:51:14 GMT",
  "8": "HTTP/2 200",
  "9": "date: Fri, 06 Mar 2026 09:17:39 GMT",
  "10": "content-type: text/html; charset=UTF-8",
  "11": "x-dns-prefetch-control: on",
  "12": "link: <https://thesun.my/wp-json/>; rel=\"https://api.w.org/\"",
  "13": "link: <https://thesun.my/wp-json/wp/v2/pages/229296>; rel=\"alternate\"; title=\"JSON\"; type=\"application/json\"",
  "14": "link: <https://thesun.my/>; rel=shortlink",
  "15": "cache-control: public, max-age=2592000",
  "16": "expires: Sun, 05 Apr 2026 09:14:20 GMT",
  "17": "x-xss-protection: 1; mode=block",
}
```

```

"18": "x-litespeed-cache: hit",
"19": "server: cloudflare",
"20": "vary: User-Agent",
"21": "x-content-type-options: nosniff",
"22": "x-frame-options: SAMEORIGIN",
"23": "access-control-allow-origin: *",
"24": "x-turbo-charged-by: LiteSpeed",
"25": "cf-cache-status: DYNAMIC",
"26": "report-to: {\\"group\\":\\"cf-
nel\\",\\"max_age\\":604800,\\"endpoints\\":[{\\"url\\":\\"https://a.nel.cloudflare.com/report/v4?s=9LbEjQVsZcXYl8aL%2F%2FSxCIWl1iHgo%2FrXNexWkp6XYaTQEtDzSiDV5ky8UP6Y4gyLcPpx3Bbxb9wBMy2w
nel\\",\\"report_to\\":\\"cf-nel\\",\\"success_fraction\\":0.0,\\"max_age\\":604800}],
"27": "nel: {\\"report_to\\":\\"cf-nel\\",\\"success_fraction\\":0.0,\\"max_age\\":604800}",
"28": "expect-ct: max-age=86400, enforce",
"29": "referrer-policy: strict-origin-when-cross-origin",
"30": "cf-ray: 9d8044c35f05cdd5-SIN",
"31": "alt-svc: h3=\\":443\\"; ma=86400"
    }
    
```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	301 0.161610 0.323513
TCP Connect IPv4 → port 443	000 0.160126 0.000000

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
    
```