IPv6 Readiness Report

hasil.gov.my — hasil.gov.my

Scan to verify

Category: Government • Generated: 02 Nov 2026, 03:07 MYT • Last Checked: 08 Aug 2026, 18:23 MYT • Verification ID: ba9cb6fa-4a17-4511-95c7-0ebabaf8e40b
Report generated from National IPv6 Readiness Monitor — https://ipv6.my6.my
Audit trail: https://ipv6.my6.my/audit/ba9cb6fa-4a17-4511-95c7-0ebabaf8e40b

✗
Non-Compliant
MGv6C-1.0

38%
No IPv6 Support

IPV6-ONLY READINESS
Website: ✗ **Not Ready**
DNS: ✓ **Ready**
Email: ✗ **Not Ready**

IPV4 ADDRESSES
113.11.236.134
113.11.236.133
113.11.238.133

Network Information (WHOIS / RDAP)

	IPv4 Network
Organization	Lembaga Hasil Dalam Negeri Malaysia
Country	MY
ASN	AS55951
ASN Name	LHDNM-MY - Lembaga Hasil Dalam Negeri Malaysia, MY
Network (CIDR)	113.11.236.0/22

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%) 4 / 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**	PASS	DNSSEC fully validated.
5	**Reverse DNS (PTR)**	FAIL	No PTR record found.
6	**DS Record at Parent**	PASS	DS record found at parent zone.

#	CHECK	RESULT	DETAIL
7	**RRSIG Valid**	PASS	RRSIG signatures are current and valid.
8	**Signing Algorithm**	INFO	ECDSAP256SHA256

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	No common DKIM selector found.
7	**DMARC Record**	PASS	DMARC record found.

IPv4 Baseline (15%) 1 / 3

#	CHECK	RESULT	DETAIL
1	**A Record**	PASS	113.11.236.134, 113.11.236.133, 113.11.238.133
2	**HTTP over IPv4**	FAIL	HTTP is not accessible over IPv4.
3	**HTTPS over IPv4**	FAIL	HTTPS is not accessible over IPv4.

Audit Trail & Evidence Record

Verification ID	ba9cb6fa-4a17-4511-95c7-0ebabaf8e40b
Domain	hasil.gov.my
Check Mode	Manual
Status	Completed
Started	08 Aug 2026, 18:22:02 MYT
Finished	08 Aug 2026, 18:23:03 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/ba9cb6fa-4a17-4511-95c7-0ebabaf8e40b

Integrity Verification

✓ **INTEGRITY VERIFIED**

Algorithm	hmac-sha256-v1
Root Hash	560e069a754e159e8dc6a0bcc803081ec1340159f4b33d0908e7c2ea67dba8bf
http_headers	47359629fc1c0469f065c1d66abd18bb3ea924ee0366c9db58d5c76467ff7300
dns_responses	23dbc8db6650511f237b6118bb673f5ae341f8d3d30d24541f4edfb4187dbb68
tls_handshake	3307535d4faf8b8130923b6ad6543ff5771714fdd5091b76b4ea20e239c5d669
connectivity_log	c571529628ae93d3d5180dec20e307692d772428bf4569b1feeb29b40bc18e78
dns_resolution_times	b478cdd17db5e1790c92feec21b33b16e2a885e69c396e72940faabca7bdbc96

Test Node Identity

Os	Linux srv1440888 6.8.0-136-generic #136-Ubuntu SMP PREEMPT_DYNAMIC Wed Jul 1 21:53:05 UTC 2026 x86_64
Hostname	srv1440888
Php Version	8.3.33
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	23.28	25.76	23.29	62.6	0
Google	IPv4	23.22	60.11	31.38	88.57	+8.2
Google	IPv6	80.94	89.85	92.96	102.02	+12
Cloudflare	IPv4	27.37	27.7	24.28	38.22	-3.1
Cloudflare	IPv6	30.68	35.44	29.95	143.51	-0.7

DNS Evidence

A

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 12770
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
hasil.gov.my.□□3600□IN□A□113.11.236.134
hasil.gov.my.□□3600□IN□A□113.11.236.133
hasil.gov.my.□□3600□IN□A□113.11.238.133
```

DS

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 10265
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
hasil.gov.my.□□59268□IN□DS□51908 13 1 A0F1C654803A96D987E98374B3E97E465701A0D0
hasil.gov.my.□□59268□IN□DS□51908 13 2 6BE64E7188675D9055ED9E23F33133E314B8171D0528AACA6C42E9B1 D1878DD1
```

MX

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 34636
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
hasil.gov.my.□□3600□IN□MX□0 mx.hasil.gov.my.
```

NS

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 34171
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
hasil.gov.my.□□3600□IN□NS□ns-1364.awsdns-42.org.
hasil.gov.my.□□3600□IN□NS□ns-1681.awsdns-18.co.uk.
hasil.gov.my.□□3600□IN□NS□ns-6.awsdns-00.com.
hasil.gov.my.□□3600□IN□NS□ns-866.awsdns-44.net.
```

TXT

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 16357
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 6, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
hasil.gov.my.□□3600□IN□TXT□"include:spf.protection.outlook.com -all"
hasil.gov.my.□□3600□IN□TXT□"v=spf1 include:spf.protection.outlook.com mx a ip4:113.11.236.0/24 ip4:113.11.237.0/24 -all"
hasil.gov.my.□□3600□IN□TXT□"ZA=BnPU/N5IaWzSsqm3T7+71w=="
hasil.gov.my.□□3600□IN□TXT□"apple-domain-verification=l4ZzRrHXCVA1twcI"
hasil.gov.my.□□3600□IN□TXT□"dtm-domain-verification=KkFgujkFFjURFkYVDrtQSrmnx1JPR5wErHGvPhsF5aA"
hasil.gov.my.□□3600□IN□TXT□"globalsign-domain-verification=xu9SBPNmwvB2uGdrWintmH-10yLfmc9PNwGpB4SMg2"
```

AAAA

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 57470
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
hasil.gov.my.  3600 IN SOA ns-1681.awsdns-18.co.uk. awsdns-hostmaster.amazon.com. 1 7200 900 1209600 86400
```

RRSIG

```
ns-1681.awsdns-18.co.uk. awsdns-hostmaster.amazon.com. 1 7200 900 1209600 86400
SOA 13 3 3600 20260808122203 20260808092203 47412 hasil.gov.my. 4Kb2yQaeS48RxU7+5AhHNvE+sXnYlEk9SfLcdTIpufdqHfCVAJYW+3jV 9oRNZGZNsbxzJHQpwBrz18MVycQKpg==
```

DNSKEY

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 18082
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
hasil.gov.my.  3582 IN DNSKEY 256 3 13 ww7CYHJNu4fkNrT3/l0Rt0H/I2iz5UdOWJ+LRTcQ9CnE458hKH/pXPN/ BuG5Tj4znGkcjI5sPB6U4693hKeKdA==
hasil.gov.my.  3582 IN DNSKEY 257 3 13 6ptvxM3GPWeBf9UwLAj3noRSrbf8Eklc3hzbdwL0CidZFjoNR2bIP4EW w0exn7AbtgjnIK3V94UVQb01Dyk7nw==
hasil.gov.my.  3582 IN DNSKEY 256 3 13 WAXJAMwE2QY88Y1VaAsMBbgwUA1VsaDgtVo6y2/T7luW9/M2aOLJ3wi7 UFMyhHeTizQehgBPAlsfHki/FHJ6zg==
```

DNSSEC_VALIDATION

```
; fully validated
hasil.gov.my.  3582 IN SOA ns-1681.awsdns-18.co.uk. awsdns-hostmaster.amazon.com. 1 7200 900 1209600 86400
hasil.gov.my.  3582 IN RRSIG SOA 13 3 3600 20260808122203 20260808092203 47412 hasil.gov.my. 4Kb2yQaeS48RxU7+5AhHNvE+sXnYlEk9SfLcdTIpufdqHfCVAJYW+3jV
9oRNZGZNsbxzJHQpwBrz18MVycQKpg==
```

TLS Handshake Evidence

IPV4 Connection

IP Used	113.11.236.134
IP Version	4

HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	0
Connected IP	
Connect Time	0 ms
TTFB	0 ms
Total Time	8002.11 ms
Error	Failed to connect to hasil.gov.my port 80 after 8002 ms: Timeout was reached

IPv4 HTTPS (port 443)

HTTP Status	0
Connected IP	
Connect Time	0 ms
TTFB	0 ms
Total Time	8003.01 ms
Error	Failed to connect to hasil.gov.my port 443 after 8002 ms: Timeout was reached

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	000 0.000000 0.000000
TCP Connect IPv4 → port 443	000 0.000000 0.000000

Test Node Network Evidence

Node Profile	dual stack

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
fd7a:115c:a1e0::1136:5807 dev tailscale0 proto kernel metric 256 pref medium
fe80::/64 dev eth0 proto kernel metric 256 pref medium
fe80::/64 dev tailscale0 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
```