

IPv6 Readiness Report

jps.gov.my — jps.gov.my



Scan to verify

Category: Government • Generated: 04 Jul 2026, 22:34 MYT • Last Checked: 04 Jul 2026, 03:36 MYT • Verification ID: 69f1bd68-a0d8-4913-bef3-d26529261d48

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

Audit trail: <https://ipv6.my6.my/audit/69f1bd68-a0d8-4913-bef3-d26529261d48>

<p>X</p> <p>Non-Compliant</p> <p>MGv6C-1.0</p>	<p>35%</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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<p>IPv4 ADDRESSES</p> <p>110.159.228.144</p>

Network Information (WHOIS / RDAP)

IPv4 Network	
Organization	UNIFI-HOME
Country	MY
ASN	AS4788
ASN Name	TTSSB-MY - TM TECHNOLOGY SERVICES SDN. BHD., MY
Network (CIDR)	110.159.224.0/19

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.	
7	RRSIG Valid	PASS	RRSIG signatures are current and valid.	

#	CHECK	RESULT	DETAIL
8	Signing Algorithm	INFO	RSASHA256

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	110.159.228.144
2	HTTP over IPv4	PASS	HTTP (port 80) responds over IPv4 — 204ms TTFB.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 149ms TTFB.

Audit Trail & Evidence Record

Verification ID	69f1bd68-a0d8-4913-bef3-d26529261d48
Domain	jps.gov.my
Check Mode	Manual
Status	Completed
Started	04 Jul 2026, 03:36:45 MYT
Finished	04 Jul 2026, 03:36:54 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/69f1bd68-a0d8-4913-bef3-d26529261d48

Integrity Verification

✓ INTEGRITY VERIFIED	
Algorithm	hmac-sha256-v1
Root Hash	9bed21abe29ec07f61eb5c179fdb89204750ef2202aa8d4ca9b72efd46242313
http_headers	2250e4465597da91f8b9644d42600ee4fe98e13d1791c0615a33e6a3dd98845f
dns_responses	77698e984fe1290c526779902cd58ff80151700d2a9cc896c2aa5d92032933bf
tls_handshake	d468e14934f4d7dbecc8ecd06e8859c9749968250523dd56a8ab9685d854a511
connectivity_log	be71caf9c919ee1bdcee34ca28a74f4c768782368452910374b3bc31312ef349c
dns_resolution_times	84e4551207a2ef25b6f11722511c5fd9e26c1564e55d97b8d2448997e3c0d7b3

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	9.8	21.02	12.92	20.12	+3.1
Google	IPv4	48.91	54.26	43.87	51.28	-5
Google	IPv6	40.3	59.09	34.02	34.18	-6.3
Cloudflare	IPv4	28.24	28.51	8.92	11.46	-19.3
Cloudflare	IPv6	52.05	635.05	10.25	21.98	-41.8

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 61834
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
jps.gov.my. 38400 IN A 110.159.228.144
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 4853
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
jps.gov.my. 38400 IN DS 23125 8 1 A00E946A62B2395D225EC4E13D31C4B556E33079
jps.gov.my. 38400 IN DS 23125 8 2 E2833F13377F4F56621DB53E5AABC28BE6E7BE867F59F0553E1ECB76 B378F7FA
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 30206
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
jps.gov.my. 3600 IN SOA dns1.gitn.net.my. root.dns1.gitn.net.my. 2022101007 10800 3600 604800 38400
```

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 52438
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
jps.gov.my. 38400 IN NS dns2.gitn.net.my.
jps.gov.my. 38400 IN NS dns1.gitn.net.my.
```

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 52168
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
jps.gov.my. 3600 IN SOA dns1.gitn.net.my. root.dns1.gitn.net.my. 2022101007 10800 3600 604800 38400
```

AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 41647
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
jps.gov.my. 3600 IN SOA dns1.gitn.net.my. root.dns1.gitn.net.my. 2022101007 10800 3600 604800 38400
```

RRSIG

```
dns1.gitn.net.my. root.dns1.gitn.net.my. 2022101007 10800 3600 604800 38400
SOA 8 3 38400 20260730120121 20260630110121 20826 jps.gov.my. Gz9FeqtGC0D6ZEE5ftaJWukTONxtMFhjPRRpP205x6xChvEZ/fu9hebj
FZDPu2tEusfa0rEwS2R66Svs9Zgk5bsaroHD1K+TTBVRACYbFx+RR2kK fPmTc71N3LJzZfiXfnftZ5Khcdp33zfZ/p0ddcnHpQF0XeoLaBE0roAu p+A=
```

DNSKEY

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 5034
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
jps.gov.my. 38398 IN DNSKEY 256 3 8 AwEAAbM5/QQR3zBFYZEF0oNqZW0fvceyA/xrRkdbzeGCsVnQmX4SskW txUq0tc6X8iC03smNoKWzCbz7BPBL7SUCaIPhID0xJS7r9gU10igughA
GmLFo0UaPS+t1IBYMsyNl2VQ8Chx0KUiUeSV4c6m+uaC5eLNYoEHE5CD 3Ep0wmkN
jps.gov.my. 38398 IN DNSKEY 257 3 8 AwEAAdbCiiB8rHt9EQCw3jWN8A3MbtqtXSiTh/eXSKY/3evyeRjJCsq BG5nvtXKzVBNxo/hAe7W4YDnjixKfGyIjw4ed0TWy2wxJL4qG03h8Dax
iV9Q3sQCg4abMzwJtg8YKjR6xh+05jfe97whuu85ioeNGUeLZ6C0H98Z GBfYKY+pL+dc3XVHE5t572xa59mAdAygib3dPSoFpPhdHQVP05j9cUWi
gvjGH3Fbt0RF4SHQcK4YBHS81TWd6LiiVmhf2VXiKBPYSnMVXnxVGS qpJL10esWYHE1AFEocDLY40Mi1iNsa9Igs5STnDueMbXsy551cno2VPy uDWjQLuYZmU=
```

DNSSEC_VALIDATION

```
; fully validated
jps.gov.my. 38398 IN SOA dns1.gitn.net.my. root.dns1.gitn.net.my. 2022101007 10800 3600 604800 38400
jps.gov.my. 38398 IN RRSIG SOA 8 3 38400 20260730120121 20260630110121 20826 jps.gov.my. Gz9FeqtgC0D6ZEE5ftaJWukTONXtMFhJPRRp205x6xCHVEZ/fu9hebj
FZDPU2tEusfa0rEwS2R66Svs9Zgk5bsaroHD1K+TTBVRACYbFx+RR2kK fPmTc71N3LJzZfiXfnfTZ5Khcdp33zfZ/p0ddcnHpQFQxoeLaBE0roAu p+A=
```



```
Server Temp Key: X25519, 253 bits
---
SSL handshake has read 2511 bytes and written 392 bytes
Verification: OK
---
New, TLSv1.3, Cipher is TLS_AES_256_GCM_SHA384
Server public key is 384 bit
Secure Renegotiation IS NOT supported
Compression: NONE
Expansion: NONE
No ALPN negotiated
Early data was not sent
Verify return code: 0 (ok)
---
DONE
```



```

"16": "expires: Fri, 01 Jan 1990 00:00:00 GMT",
"17": "set-cookie: XSRF-
TOKEN=eyJpdjI6IkkxPUERXOU1rNXkwWi9PV21EbLRTS2c9PSIsInZhbHVLIjoicVFHcmllM0dqQzNWUENIQ21xU3B2M00yeW90WXppVE1KTWlvUVdXL3l0THZiY2d4WGFjS0p3NTBlldGMrazU0b3B0Wk9UWmR1TTdramZlQUlXbS9400hZ
expires=Tue, 28 Jul 2026 19:36:53 GMT; Max-Age=2160000; path=/; secure; samesite=lax",
"18": "set-cookie:
siswa_30_session=eyJpdjI6IiFmTmheZEEXQNEZSbDVDb3h5bThwWEE9PSIsInZhbHVLIjoicXVxQkd0NjRjV1NxcW9qRjhhVWYnJzUEhKZXRjb1hpZFNLa3BtYXJYXSVlLpem1WTC83UGRaeFo2emVZ0G9RtY2ZLc3lWV29RVDlBYlV1dLh5T
expires=Tue, 28 Jul 2026 19:36:53 GMT; Max-Age=2160000; path=/; secure; httponly; samesite=lax"
}
    
```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	301 0.009742 0.021375
TCP Connect IPv4 → port 443	000 0.010616 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
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
    
```