

IPv6 Readiness Report

jpm.gov.my — jpm.gov.my



Scan to verify

Category: Government • Generated: 04 Jul 2026, 22:39 MYT • Last Checked: 04 Jul 2026, 03:09 MYT • Verification ID: 21ae4fee-726c-4652-823d-beb63e2996a9

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

Audit trail: <https://ipv6.my6.my/audit/21ae4fee-726c-4652-823d-beb63e2996a9>

<p>X</p> <p>Non-Compliant</p> <p>MGv6C-1.0</p>	<p>52%</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>163.53.152.33</p>

Network Information (WHOIS / RDAP)

IPv4 Network	
Organization	GITN Sdn Bhd
Country	MY
ASN	AS17564
ASN Name	GITN-PCN-AS-AP - GITN (M) Sdn. Bhd., MY
Network (CIDR)	163.53.152.0/22

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

#	CHECK	RESULT	DETAIL
8	Signing Algorithm	INFO	RSASHA256

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

IPv4 Baseline (15%) 3 / 3

#	CHECK	RESULT	DETAIL
1	A Record	PASS	163.53.152.33
2	HTTP over IPv4	PASS	HTTP (port 80) responds over IPv4 — 359ms TTFB.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 329ms TTFB.

Audit Trail & Evidence Record

Verification ID	21ae4fee-726c-4652-823d-beb63e2996a9
Domain	jpm.gov.my
Check Mode	Scheduled
Status	Completed
Started	04 Jul 2026, 03:08:05 MYT
Finished	04 Jul 2026, 03:09:15 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/21ae4fee-726c-4652-823d-beb63e2996a9

Integrity Verification

✓ INTEGRITY VERIFIED	
Algorithm	hmac-sha256-v1
Root Hash	06f357e982f4a5722b4a1caed67b93769e41dade158f0594337748948aed6d94
http_headers	1992d8ccc64f81450672c991cf9048b3fc8d10b8e2bd8841673a710f5d74da90
dns_responses	2535051227b150e7c955a6ca87ac32dd4f378c603922714938113b51b9f266c6
tls_handshake	f1ae63fda64c91e3e4e857c2517b0c20b5773c5d1255976a0ed6dbeb27739049
connectivity_log	7abf5040ba04bd5152ac6978ae89a9a48c9f1d93c988bfa006c7bc503123339
dns_resolution_times	cb39f3578ce0e90a8040cedc8f42813935b9601ab16d7df138eb9b2ee7e015a6

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	25.45	28.96	29.85	35.6	+4.4
Google	IPv4	42.12	48.79	56.41	61.78	+14.3
Google	IPv6	51.51	56.44	48.76	54.48	-2.8
Cloudflare	IPv4	27.78	32.22	45.71	54.35	+17.9
Cloudflare	IPv6	63.34	63.42	29.61	51.97	-33.7

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 26985
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
jpm.gov.my. 300 IN A 163.53.152.33
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 46293
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
jpm.gov.my. 300 IN DS 45397 8 1 6DF2CD12E570CE9421062715501D2916CF721169
jpm.gov.my. 300 IN DS 45397 8 2 DFFB76262F77605E4F472844377A199AC6DBC9977FA3A06C74E14E02 7761104C
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 6956
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 5, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
jpm.gov.my. 300 IN MX 10 alt3.aspmx.l.google.com.
jpm.gov.my. 300 IN MX 5 alt1.aspmx.l.google.com.
jpm.gov.my. 300 IN MX 5 alt2.aspmx.l.google.com.
jpm.gov.my. 300 IN MX 10 alt4.aspmx.l.google.com.
jpm.gov.my. 300 IN MX 1 aspmx.l.google.com.
```

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 39742
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
jpm.gov.my. 300 IN NS dns2.gitn.net.my.
jpm.gov.my. 300 IN NS dns1.gitn.net.my.
```

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 47615
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 5, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
jpm.gov.my. 3600 IN TXT "v=spf1 ip4:103.8.147.121/32 ip4:103.8.147.12/30 ip4:219.92.54.177/32 ip4:103.156.82.32/29 ip4:103.156.83.32/29 include:_spf.google.com -all"
jpm.gov.my. 3600 IN TXT "google-site-verification=glxtToE_vHGGVgGNpRy86PbLsYyNteucfRDYDGihxk"
jpm.gov.my. 3600 IN TXT "_globalsign-domain-verification=6k3A3Dc_NUc4z9DZH0qz1hUENGg6XKFXyRSGoP5VcK"
jpm.gov.my. 3600 IN TXT "google-site-verification=8XdYmMxKC7W-HprL0irtuXLJ0IGZG7D11jZ_2Yame8M"
jpm.gov.my. 3600 IN TXT "MS=F003800D590FF3AC5DE1A9A94649106908FDE7A1"
```

AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 34157
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
jpm.gov.my. 3600 IN SOA dns1.gitn.net.my. root.dns1.gitn.net.my. 2026023753 10800 3600 604800 38400
```

RRSIG

```
dns1.gitn.net.my. root.dns1.gitn.net.my. 2026023753 10800 3600 604800 38400
SOA 8 3 38400 20260802121527 20260703111527 58173 jpm.gov.my. pEMQ55gKQDL3Le0KftvQkPVZhpUwof3L+fH/Puhee6HmCj5dnGkpPWx/
6AizoconKs1NyUBhkN2Ujymf/0HQlRGtF8RkqBw38Ww+5r4u1EYtFIK wsQxzFoi0sZdnR4iGmmVVKM8YTRDVSx07zhNBajybkrg+iugoj7e3i30 R/s=
```

DNSKEY

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 47558
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
jpm.gov.my. 38338 IN DNSKEY 257 3 8 AwEAAZqvK6mwPZIbl22uC1b8RdtpJw+6HiaG8zPzr1AQHF+KpEgJpkMt rDrsQj9TwVdtA+eXB2TXq8fgC2AaBroeS/PyC25D3QNNXq4pIDuPoFAL
xh9IERTgLB0d8SdvvMso0szMMcZid6BpMDRYCxJitf2GGcQd0d4M6q+H dI3ZC03VzV1fbKMqHbf2Hfxb/TFjgR9ohNs+9s2t2QW7oodoHvypSCBJ
GtKBZmke5SxH0ho1ySLRfU2Kd5SzF/IMeLZLVFgCCp18/Urcksker7f hmNekuW+2kE0HSUJ2Mx2/neb3UmyraLhdNf9hHntIXRjkbTSZaqm/Xc N/eNy3mDZtk=
jpm.gov.my. 38338 IN DNSKEY 256 3 8 AwEAAByHSImfk/8xMH6WhiGuICQLKdqyay4wPgEGArFsbE2ThroTeTr6 VbGNfI+M6CRbndqBHArnzt/L90ZLTbLgHkGduwRJM4ePTVgsqNasTuNS
jZ7mfTfoJ3r0+FxwU+QftjfE2L9aYLWjbaYxi12qh3/md6w5PY/k2V2g ZIHsw0Rn
```

DNSSEC_VALIDATION

```
; fully validated
jpm.gov.my. 38338 IN SOA dns1.gitn.net.my. root.dns1.gitn.net.my. 2026023753 10800 3600 604800 38400
jpm.gov.my. 38338 IN RRSIG SOA 8 3 38400 20260802121527 20260703111527 58173 jpm.gov.my. pEMQ55gKQDL3Le0KftvQkPVZhpUwof3L+fH/Puhee6HmCj5dnGkpPWx/
6AizoconKs1NyUBhkN2Ujymf/0HQlRGtF8RkqBw38Ww+5r4u1EYtFIK wsQxzFoi0sZdnR4iGmmVVKM8YTRDVSx07zhNBajybkrg+iugoj7e3i30 R/s=
```



```

Protocol : TLSv1.2
Cipher   : ECDHE-RSA-AES256-GCM-SHA384
Session-ID: A0C74B5B6940B3BDA27F7D6E25EB2AB8331F82D2F0958B621C8930D281FD4240
Session-ID-ctx:
Master-Key: 4FCF97EEC6157CD6D064226CE0028BA9BF38C408E571E01033911C25285A78A68C200A1B63B9FC47B5FB1FD9A0107456
PSK identity: None
PSK identity hint: None
SRP username: None
TLS session ticket lifetime hint: 7200 (seconds)
TLS session ticket:
0000 - 6d 66 ab d9 b7 ba 7e 8b-39 9b 2b 19 3a bb 10 2f   mf...~.9.+.:./
0010 - 65 32 ef 52 ed e3 5a fe-4d 9f d6 d4 9d 09 27 c2   e2.R..Z.M....'.
0020 - 2a 96 e4 85 87 8c e2 18-18 eb 4c 98 d4 a1 9d 36   *.....L...6
0030 - 30 49 ad f1 c8 5f 01 4e-35 3d 43 bc 8b 7c e7 dd   0I..._N5=C...|..
0040 - e4 5e d5 b9 87 fb 07 4a-61 f5 93 2f 25 75 aa dd   .^....Ja../%u..
0050 - 1a c1 e7 84 e2 9e 6f 64-23 3f 01 1d 35 4c d2 c4   .....od#?...5L..
0060 - 00 26 8f 34 55 63 5b 61-5c fc 9d 64 f9 92 9c 2a   .&.4Uc[a\d...*
0070 - 4c 80 3b 7d 70 9e 1b 1d-ed ab 8c e6 a7 a2 ec aa   L.);}p.....
0080 - 69 6f 61 9e 4c 75 36 9d-e5 1d cf 92 12 70 99 29   ioa.Lu6.....p.)
0090 - 79 db 20 1d 27 9b 2c 76-fa af 1c 18 58 fe c3 0f   y. .',v....X...
00a0 - 66 4d b9 13 e9 1f 66 6a-45 a7 12 5a 9f 08 11 c0   fM...fjE..Z....
00b0 - 85 f4 7e ec 23 be 11 ff-72 ab 35 e0 a4 c2 86 a2   ..~.#...r.5.....

Start Time: 1783105754
Timeout : 7200 (sec)
Verify return code: 21 (unable to verify the first certificate)
Extended master secret: yes

```


HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	200
Connected IP	163.53.152.33
Connect Time	11.07 ms
TTFB	318.58 ms
Total Time	318.73 ms

Response Headers:

```
{
  "0": "HTTP/1.1 301 Moved Permanently",
  "1": "Location: https://jpm.gov.my:443/",
  "2": "Content-Length: 98",
  "3": "Content-Type: text/html",
  "5": "HTTP/2 301",
  "6": "date: Fri, 03 Jul 2026 19:09:15 GMT",
  "7": "server: Apache/2.4.52 (Ubuntu)",
  "8": "x-content-type-options: nosniff",
  "9": "set-cookie: 4d203aafa7c7cf48308dd3e84a143cd5=2f9elp7g67thgleceh6mttf06g; path=/; HttpOnly",
  "10": "x-frame-options: SAMEORIGIN",
  "11": "referrer-policy: strict-origin-when-cross-origin",
  "12": "cross-origin-opener-policy: same-origin",
  "13": "expires: Wed, 17 Aug 2005 00:00:00 GMT",
  "14": "last-modified: Fri, 03 Jul 2026 19:09:15 GMT",
  "15": "cache-control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0",
  "16": "location: https://jpm.gov.my/ms/",
  "17": "pragma: no-cache",
  "18": "content-type: text/html; charset=utf-8",
  "19": "set-cookie: cookiesession1=678B288534F2F6EB6E1EE6D4FD0F9F6;Expires=Sat, 03 Jul 2027 19:09:15 GMT;Path=/;HttpOnly",
  "21": "HTTP/2 200",
  "22": "date: Fri, 03 Jul 2026 19:09:15 GMT",
  "23": "server: Apache/2.4.52 (Ubuntu)",
  "24": "x-content-type-options: nosniff",
  "25": "set-cookie: 4d203aafa7c7cf48308dd3e84a143cd5=u69km0jlojp8fvqblkn56jpngi; path=/; HttpOnly",
  "26": "x-frame-options: SAMEORIGIN",
  "27": "referrer-policy: strict-origin-when-cross-origin",
  "28": "cross-origin-opener-policy: same-origin",
  "29": "expires: Wed, 17 Aug 2005 00:00:00 GMT",
  "30": "last-modified: Fri, 03 Jul 2026 19:09:15 GMT",
  "31": "cache-control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0",
  "32": "pragma: no-cache",
  "33": "content-type: text/html; charset=utf-8"
}
```

IPv4 HTTPS (port 443)

HTTP Status	200
Connected IP	163.53.152.33
Connect Time	6.12 ms
TTFB	294.17 ms
Total Time	294.27 ms

Response Headers:

```
{
  "0": "HTTP/2 301",
  "1": "date: Fri, 03 Jul 2026 19:09:15 GMT",
  "2": "server: Apache/2.4.52 (Ubuntu)",
  "3": "x-content-type-options: nosniff",
  "4": "set-cookie: 4d203aafa7c7cf48308dd3e84a143cd5=5j3g9dfi007jomfbsb08laprjm; path=/; HttpOnly",
  "5": "x-frame-options: SAMEORIGIN",
  "6": "referrer-policy: strict-origin-when-cross-origin",
  "7": "cross-origin-opener-policy: same-origin",
  "8": "expires: Wed, 17 Aug 2005 00:00:00 GMT",
  "9": "last-modified: Fri, 03 Jul 2026 19:09:15 GMT",
  "10": "cache-control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0",
  "11": "location: https://jpm.gov.my/ms/",
  "12": "pragma: no-cache",
  "13": "content-type: text/html; charset=utf-8",
  "14": "set-cookie: cookiesession1=678B28850E01A4FBCC73BB4605F90BCB;Expires=Sat, 03 Jul 2027 19:09:15 GMT;Path=/;HttpOnly",
  "16": "HTTP/2 200",
}
```

```

"17": "date: Fri, 03 Jul 2026 19:09:15 GMT",
"18": "server: Apache/2.4.52 (Ubuntu)",
"19": "x-content-type-options: nosniff",
"20": "set-cookie: 4d203aafa7c7cf48308dd3e84a143cd5=gtlpu9shj3md7gtairp432ku3r; path=/; HttpOnly",
"21": "x-frame-options: SAMEORIGIN",
"22": "referrer-policy: strict-origin-when-cross-origin",
"23": "cross-origin-opener-policy: same-origin",
"24": "expires: Wed, 17 Aug 2005 00:00:00 GMT",
"25": "last-modified: Fri, 03 Jul 2026 19:09:15 GMT",
"26": "cache-control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0",
"27": "pragma: no-cache",
"28": "content-type: text/html; charset=utf-8"
}
    
```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	301 0.007343 0.025634
TCP Connect IPv4 → port 443	000 0.005342 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
    
```