

IPv6 Readiness Report

customs.gov.my — customs.gov.my



Scan to verify

Category: Government • Generated: 04 Jul 2026, 22:34 MYT • Last Checked: 04 Jul 2026, 03:32 MYT • Verification ID: 0e5ec20f-09cd-4869-9304-ff4856bff4d0

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

Audit trail: <https://ipv6.my6.my/audit/0e5ec20f-09cd-4869-9304-ff4856bff4d0>

<p>X</p> <p>Non-Compliant</p> <p>MGv6C-1.0</p>	<p>47%</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>103.245.91.224</p>
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Network Information (WHOIS / RDAP)

IPv4 Network	
Organization	GITN-SCHOOLNET
Country	MY
ASN	AS38044
ASN Name	GITN-NETWORK - GITN-NETWORK, MY
Network (CIDR)	103.245.88.0/22

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%) 2 / 3

#	CHECK	RESULT	DETAIL
1	A Record	PASS	103.245.91.224
2	HTTP over IPv4	FAIL	HTTP is not accessible over IPv4.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4.

Audit Trail & Evidence Record

Verification ID	0e5ec20f-09cd-4869-9304-ff4856bff4d0
Domain	customs.gov.my
Check Mode	Manual
Status	Completed
Started	04 Jul 2026, 03:31:32 MYT
Finished	04 Jul 2026, 03:32:27 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/0e5ec20f-09cd-4869-9304-ff4856bff4d0

Integrity Verification

✓ INTEGRITY VERIFIED	
Algorithm	hmac-sha256-v1
Root Hash	69054645f8d1dac2f8094be6ac1e175777dbc3306f5f159959f2e2ea7e00753f
http_headers	2a19de23675bd592b3228a620dff63f5225497998ae3f6981e8739d2ccb6e89
dns_responses	e01f4c72d3e7b831e6f2bea423322a50475ce3ff3de321482a0b6f6bc5127b2a
tls_handshake	8421af8b14d65ff55e859af7e884e3bff3f70475bb02e8aa88e3f0d67dbf4307
connectivity_log	164ad74c0e4116d10872304dc2fa8519d2261e28afa5be0923534cd97888e089
dns_resolution_times	078939b3ecbe1904127e5375a80c783e729026a268ecfc49b24c703ba6e511de

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	9.51	9.75	20.12	20.19	+10.6
Google	IPv4	27.1	28.27	32.09	32.35	+5
Google	IPv6	32.95	41.63	32.92	33.25	-0
Cloudflare	IPv4	21.93	23.7	11.3	21.32	-10.6
Cloudflare	IPv6	41.48	62.38	12.77	43.81	-28.7

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 12986
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
customs.gov.my. 600 IN A 103.245.91.224
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 44371
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
customs.gov.my. 86365 IN DS 11650 8 1 B7B6E96A85C7F3C62B421BA0DE296B805C665C44
customs.gov.my. 86365 IN DS 11650 8 2 FC0374BA17F1B8F9B38B6D6FF4DAD8EA915E9CB9C1A688BB2C33A6C0 587A002B
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 53727
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 5, AUTHORITY: 0, ADDITIONAL: 1

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

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 22724
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
customs.gov.my. 3600 IN NS dns1.gitn.net.my.
customs.gov.my. 3600 IN NS dns2.gitn.net.my.
```

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 33142
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
customs.gov.my. 300 IN TXT "v=spf1 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"
customs.gov.my. 300 IN TXT "MS=E152584C6C8ACDC472F496FFC12ECF8F75F40FD"
customs.gov.my. 300 IN TXT "google-site-verification=k4A7Z5xES-HSwpiiP0g4RZ0cbPirDJo5Ya_QUI9qrHg"
```

AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 43161
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
customs.gov.my. 3600 IN SOA dns1.gitn.net.my. root.dns1.gitn.net.my. 2026041145 3600 900 3600000 3600
```

RRSIG

```
dns1.gitn.net.my. root.dns1.gitn.net.my. 2026041145 3600 900 3600000 3600
```

```
SOA 8 3 3600 20260802095131 20260703085131 53340 customs.gov.my. uXnu0bhUAAvMWT2/d6zs2zDAJkthe0k0uCfPIGBXt81vVb18VnJIaPYx
gGFcMe/JkxVat2KZMwMrVZ0QTRLzKAp0BBYwBP0qCpaqTcPLpfGTGC6t 3650gEdOPF+bLWQGZv8mmzN/vGGz+LXCZzBR92ILmF6qNVA00h2YmeFo HFw=
```

DNSKEY

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 58967
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
customs.gov.my. 3565 IN DNSKEY 256 3 8 AwEAAevXJX+QdeubukWVKCj2dby6FJDTmjaB0fkLNPL1I2xqYJE+bjb 2xNIJPCng3Z0b8vavWicEqn04csX8kry0DpELnQEkyvgW4xVW5vmrJ41
RUTIDxCvp3Nwch4n917mzSZAszSr/Som0EPMVsPP2o9CqYht9yqSv9jX iSTm/F09
customs.gov.my. 3565 IN DNSKEY 257 3 8 AwEAAAdvLt60yiz04t1vGGXvwwcnt9PxxkhEYSM0A54DpLFmJF+38jUah6 myK/yaQmV/pEEZTVU415zk5TdMCLtT7L6nSEEnZIRhs0jq+uCAFYU0ze
uohqfoekjAKqfyzBq96R86l3W/UASqSxxni2EnNk/dXXD7dWrHTB4ar blstbDsPzVexs03TGpUJHhftgZ2E4edLDQfa6MbyIN4rv3MImmMVsuk6U
gpf+2LHR3YJWGLHAIQNdWvqcIN9spYjN4U+ShD/ahI6AD6Lx5SPT5xJI TKi6RE1nDNKzuFbRjpb07A3V9Dt41wQU5TLcvRDwGNgYj/bNkS4I3Aws3 Eu0yrw7frsk=
```

DNSSEC_VALIDATION

```
; fully validated
customs.gov.my. 3565 IN SOA dns1.gitn.net.my. root.dns1.gitn.net.my. 2026041145 3600 900 3600000 3600
customs.gov.my. 3565 IN RRSIG SOA 8 3 3600 20260802095131 20260703085131 53340 customs.gov.my. uXnu0bhUAAvMWT2/d6zs2zDAJkthe0k0uCfPIGBXt81vVb18VnJIaPYx
gGFcMe/JkxVat2KZMwMrVZ0QTRLzKAp0BBYwBP0qCpaqTcPLpfGTGC6t 3650gEdOPF+bLWQGZv8mmzN/vGGz+LXCZzBR92ILmF6qNVA00h2YmeFo HFw=
```



```
MDwGBFudIAAwNDAYBggrBgEFBQcCARYmaHR0cHM6Ly93d3cuZ2xvYmFsc2lnbi5j
b20vcnVwb3NpdG9yeS8wDQYJKoZIhvcNAQELBQADggEBAJmQyC1f0orUC2bbmANz
EdSIh1IoU4r7rd/9c446ZwTbw1MUcBQJfMPg+NccmBqiXD7b6QDjynCy8SIwIVbb
0615XoFYC20UgDX1b10d65pHBf9ZjQCxQnQmJYaumxtf4z1s4dfjGRzNpZ5eWL0
6r/4ngGpoJVpjemEuunl1Ig423g7mMA2eymw0LIYkN5S0wCuaiFIFJ6GLazhgDEw
fpoLu4usBC0mmQDo8dIm7A9+04orkjgTHY+GzYZSR+Y0FFukAj6KYXwidlNaLFMz
hriSqHKvoflShx8pftywgVcvzft03PYkz6fiNJBonf6q8amaEsybWbDqKwIX7e
SPY=
-----END CERTIFICATE-----
---
Server certificate
subject=C = MY, ST = Putrajaya, L = Putrajaya, O = Jabatan Kastam Diraja Malaysia, CN = www.customs.gov.my
issuer=C = BE, O = GlobalSign nv-sa, CN = GlobalSign RSA OV SSL CA 2018
---
No client certificate CA names sent
Peer signing digest: SHA256
Peer signature type: RSA-PSS
Server Temp Key: X25519, 253 bits
---
SSL handshake has read 3432 bytes and written 396 bytes
Verification: OK
---
New, TLSv1.3, Cipher is TLS_AES_256_GCM_SHA384
Server public key is 2048 bit
Secure Renegotiation IS NOT supported
Compression: NONE
Expansion: NONE
```

HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	0
Connected IP	
Connect Time	0 ms
TTFB	0 ms
Total Time	8001.55 ms
Error	Failed to connect to customs.gov.my port 80 after 8001 ms: Timeout was reached

IPv4 HTTPS (port 443)

HTTP Status	301
Connected IP	103.245.91.224
Connect Time	20.63 ms
TTFB	100.55 ms
Total Time	100.64 ms
Error	Invalid HTTP header field was received: frame type: 1, stream: 1, name: [upgrade], value: [h2,h2c]

Response Headers:

```
{
  "0": "HTTP/2 301",
  "1": "server: CloudWAF",
  "2": "date: Fri, 03 Jul 2026 19:34:18 GMT",
  "3": "content-type: text/html; charset=iso-8859-1",
  "4": "location: https://www.customs.gov.my/",
  "5": "set-cookie: HWWAFSESTIME=1783107258754; path=/",
  "6": "set-cookie: HWWAFSESID=7d0fb7379350b2dcba; path=/",
  "7": "x-content-type-options: nosniff",
  "8": "x-frame-options: SAMEORIGIN",
  "9": "x-xss-protection: 1; mode=block",
  "10": "referrer-policy: strict-origin-when-cross-origin",
  "11": "strict-transport-security: max-age=63072000; includeSubDomains; preload",
  "12": "content-security-policy: default-src 'self'; script-src 'self' 'unsafe-inline' 'unsafe-eval' https: http: *.taggbox.com *.facebook.net *.fbcdn.net *.twitter.com *.twimg.com; style-src 'self' 'unsafe-inline' https: http: *.taggbox.com *.googleapis.com; img-src 'self' data: https: http: blob: *.taggbox.com *.fbcdn.net *.twimg.com; font-src 'self' data: https: http: *.taggbox.com *.googleapis.com *.gstatic.com; connect-src 'self' https: http: wss: *.taggbox.com https://splask-analytics.jdn.gov.my; frame-src 'self' https: http: *.taggbox.com https://www.facebook.com https://www.instagram.com https://www.youtube.com https://twitter.com https://platform.twitter.com; frame-ancestors 'self'; object-src 'none'; base-uri 'self'; form-action 'self' https; upgrade-insecure-requests;",
  "13": "permissions-policy: accelerometer=(), camera=(), geolocation=(), gyroscope=(), magnetometer=(), microphone=(), payment=(), usb=()",
  "14": "access-control-allow-methods: GET, POST, OPTIONS",
  "15": "access-control-allow-headers: Origin, Content-Type, Accept, Authorization, X-Requested-With",
  "16": "access-control-allow-credentials: true",
  "18": "HTTP/2 301",
  "19": "server: CloudWAF",
  "20": "date: Fri, 03 Jul 2026 19:33:44 GMT",
  "21": "content-type: text/html; charset=utf-8",
  "22": "location: https://www.customs.gov.my/ms/",
  "23": "set-cookie: HWWAFSESTIME=1783107224076; path=/",
  "24": "set-cookie: HWWAFSESID=f9a3473c30948a2f8a; path=/",
  "25": "x-frame-options: SAMEORIGIN",
  "26": "referrer-policy: strict-origin-when-cross-origin",
  "27": "cross-origin-opener-policy: same-origin",
  "28": "cache-control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0",
  "29": "expires: Wed, 17 Aug 2005 00:00:00 GMT",
  "30": "pragma: no-cache",
  "31": "x-content-type-options: nosniff",
  "32": "x-xss-protection: 1; mode=block",
  "33": "set-cookie: b4a38914290e8ac2562cd17944be1aa0=a5e25c8310ddb638a52d6659d59f07a4; path=/; secure; HttpOnly; SameSite=Strict;HttpOnly;Secure",
  "34": "strict-transport-security: max-age=63072000; includeSubDomains; preload",
  "35": "content-security-policy: default-src 'self'; script-src 'self' 'unsafe-inline' 'unsafe-eval' https: http: *.taggbox.com *.facebook.net *.fbcdn.net *.twitter.com *.twimg.com; style-src 'self' 'unsafe-inline' https: http: *.taggbox.com *.googleapis.com; img-src 'self' data: https: http: blob: *.taggbox.com *.fbcdn.net *.twimg.com; font-src 'self' data: https: http: *.taggbox.com *.googleapis.com *.gstatic.com; connect-src 'self' https: http: wss: *.taggbox.com https://splask-analytics.jdn.gov.my; frame-src 'self' https: http: *.taggbox.com https://www.facebook.com https://www.instagram.com https://www.youtube.com https://twitter.com https://platform.twitter.com; frame-ancestors 'self'; object-src 'none'; base-uri 'self'; form-action 'self' https; upgrade-insecure-requests;",
  "36": "permissions-policy: accelerometer=(), camera=(), geolocation=(), gyroscope=(), magnetometer=(), microphone=(), payment=(), usb=()",
  "37": "access-control-allow-methods: GET, POST, OPTIONS",
  "38": "access-control-allow-headers: Origin, Content-Type, Accept, Authorization, X-Requested-With",
  "39": "access-control-allow-credentials: true"
}
```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	000 0.000000 0.000000
TCP Connect IPv4 → port 443	301 0.006783 0.036872

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
```