

IPv6 Readiness Report

icu.gov.my — icu.gov.my



Scan to verify

Category: Government • Generated: 13 Jun 2026, 18:38 MYT • Last Checked: 13 Jun 2026, 00:54 MYT • Verification ID: 9f75dffe-12a3-452b-8919-555f41222f6b

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

Audit trail: <https://ipv6.my6.my/audit/9f75dffe-12a3-452b-8919-555f41222f6b>

<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>103.8.147.162</p>

Network Information (WHOIS / RDAP)

IPv4 Network	
Organization	PCN
Country	MY
ASN	AS17564
ASN Name	GITN-PCN-AS-AP - GITN (M) Sdn. Bhd., MY
Network (CIDR)	103.8.147.2/31

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	103.8.147.162
2	HTTP over IPv4	PASS	HTTP (port 80) responds over IPv4 — 44ms TTFB.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 25ms TTFB.

Audit Trail & Evidence Record

Verification ID	9f75dffe-12a3-452b-8919-555f41222f6b
Domain	icu.gov.my
Check Mode	Scheduled
Status	Completed
Started	13 Jun 2026, 00:53:19 MYT
Finished	13 Jun 2026, 00:54:17 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/9f75dffe-12a3-452b-8919-555f41222f6b

Integrity Verification

✓ INTEGRITY VERIFIED	
Algorithm	hmac-sha256-v1
Root Hash	4510c43c70bdf0e39e5bad4cefce8a814b342b25bc9d3ed74f1fe7db680e14f
http_headers	8a9fcbc69c2974e77357a6f26353881d9f85c8dac85cc7c6ecb9fc8803a19a37
dns_responses	dc9f79931e88537157b7f89a298e78b978801333c3e5124be237a2ae620a0662
tls_handshake	3f2f092ca911c2af691e457eb79419c76cf89d1e6c5137b2bcd88a9a42fe0202
connectivity_log	e6db915a78b48a292ea52dd9d3b1fae8b629be53d62fc4fc0b01c8a86b02a892
dns_resolution_times	bab9cc046249cdbb175a9e2bcdef0dea584b1f52c59384b8972a3a327ca485e8

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	8.3.31
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	12.11	20.15	10.02	10.71	-2.1
Google	IPv4	40.39	45.59	32.14	42.05	-8.3
Google	IPv6	43.71	49.72	33.59	33.84	-10.1
Cloudflare	IPv4	11.23	20.66	19.96	28.71	+8.7
Cloudflare	IPv6	28.24	57.38	28.56	53.82	+0.3

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 60210
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
icu.gov.my. 3600 IN A 103.8.147.162
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 25827
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
icu.gov.my. 3600 IN DS 7054 8 1 3F231BB9AD6E1F2539400C08D529D36BA136C183
icu.gov.my. 3600 IN DS 7054 8 2 7C23F6848B485EEBFDE51A5EB3BDD3AC3486C48FDF06541CDD079920 65AC2478
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 53402
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 5, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
icu.gov.my. 3600 IN MX 10 ALT3.ASPMX.L.GOOGLE.COM.
icu.gov.my. 3600 IN MX 1 ASPMX.L.GOOGLE.COM.
icu.gov.my. 3600 IN MX 5 ALT1.ASPMX.L.GOOGLE.COM.
icu.gov.my. 3600 IN MX 10 ALT4.ASPMX.L.GOOGLE.COM.
icu.gov.my. 3600 IN MX 5 ALT2.ASPMX.L.GOOGLE.COM.
```

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 9434
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

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

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 25711
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
icu.gov.my. 3600 IN TXT "MS=ms88448846"
icu.gov.my. 3600 IN TXT "MS=0D372DBDDAF6936700B2D50DA7C703E7D21CEE77"
icu.gov.my. 3600 IN TXT "google-site-verification=CC4zh7r55cN85F6k6R68hDPuS2yL1HVG6JQ2xlCypHw"
icu.gov.my. 3600 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"
```

AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 63115
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
icu.gov.my. 3600 IN SOA dns1.gitn.net.my. planning.gitn.com.my. 2026060478 10800 3600 604800 38400
```

RRSIG

```
dns1.gitn.net.my. planning.gitn.com.my. 2026060478 10800 3600 604800 38400
SOA 8 3 3600 20260712151838 20260612141838 6325 icu.gov.my. BaS8nxAv4/QLTzdefpQrCxww0z3JWSS7gWoRCNGnoByGMxKXLt9hhxrs
XjQWtKsvFJGNXnVod0WEh8AYsyYs4HZv/+aG9nyDUL/wJoxjww7rwBM YhhaL4T2mgXdC74A666yr02FeyyaJN6yx0kVI736C4nH5NaxT3KpPSiB rMo=
```

DNSKEY

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 36012
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
;; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
icu.gov.my. 3600 IN DNSKEY 257 3 8 AwEAAbwBw486TrJFrgL+F1Z8tF2FpKMciEqi4/4sI6t9IrJ/bGEguCxm LfAipvhvJ0Si/Q2xvNHinVpY6m2P3Rj584fbuFCnJ0708BCT/QRNeCtr
CRUnmshfXUhpaoEbVEYA/Wpa4GjzUSkk77BcBowmYw9D5ifbaR45pgX6 kopax2W510ghZHY2y7BR+D112255xEK19DouHHx6gUe4Jiag/3S/vMc5
l6bJBP24pd5Iy9+2TskG546YCaooAe7SByXiIVCuPYaJXiIN8MVhI0j X9Q71nZ/KsuhR9t4/K8uihssgPi0X19IWW69G4PL93a0RFfJpnueF08Q VxZVF2Ym5Ek=
icu.gov.my. 3600 IN DNSKEY 256 3 8 AwEAAAdkEGiMSUwG1zakPke302AB0mDsnu9p1N95zS7oacYgtqNIjtjuS6 XCw+IxtNhTXHV80uZ6LIE9M8dTkP3mgrKDjN4Un0eqIRxI00V6SjQp
IRv00Dn000yev77u1Ux2NFQwnR0gAVvI7o0KH0ugzTnU1IzA2bLhjl1Js 9N0yBz3d
```

DNSSEC_VALIDATION

```
; fully validated
icu.gov.my. 3600 IN SOA dns1.gitn.net.my. planning.gitn.com.my. 2026060478 10800 3600 604800 38400
icu.gov.my. 3600 IN RRSIG SOA 8 3 3600 20260712151838 20260612141838 6325 icu.gov.my. BaS8nxAv4/QLTzdefpQrCxww0z3JWSS7gWoRCNGnoByGMxKXLt9hhxrs
XjQWtKsvFJGNXnVod0WEh8AYsyYs4HZv/+aG9nyDUL/wJoxjww7rwBM YhhaL4T2mgXdC74A666yr02FeyyaJN6yx0kVI736C4nH5NaxT3KpPSiB rMo=
```



```

MDwGBFUdIAAwNDAYBgggrBgEFBQcCARYmaHR0cHM6Ly93d3cuZ2xvYmFsc2lnbi5j
b20vcnVwb3NpdG9yeS8wDQYJKoZIhvcNAQELBQADggEBAJmQyC1f0orUC2bbmANz
EdSIhLIoU4r7rd/9c446ZwTbw1MUcBQJfMPg+NccmBqiXD7b6QDjynCy8SIwIVbb
0615XoFYC20UgDX1b10d65pHBf9ZjQCxQnQmJYaumxtf4z1s4dfjGRzNpZ5eWL0
6r/4ngGPOJvPjemEuunl1Iq423g7mNAZeymw0LIYkN55QwCuaiFIFJ6GLazhgDew
fpoLu4usBC0mmQDo8d1m7A9+04orkjgTHY+GzYZSR+Y0fFukAj6KYXwidlNaLFmz
hriSqHKvoflShx8xpfywgVcvzft03PYkz6fiNJBonf6q8amaEsybwMbDqKwIX7e
SPY=
-----END CERTIFICATE-----
2 s:OU = GlobalSign Root CA - R3, O = GlobalSign, CN = GlobalSign
i:OU = GlobalSign Root CA - R3, O = GlobalSign, CN = GlobalSign
a:PKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA256
v:NotBefore: Mar 18 10:00:00 2009 GMT; NotAfter: Mar 18 10:00:00 2029 GMT
-----BEGIN CERTIFICATE-----
MIIDxzCCAkegAwIBAgILBAAAAAABIVhTCKIwDQYJKoZIhvcNAQELBQAwTEgMB4G
A1UECxMXR2xvYmFsc2lnbiBSb290IENBIC0gUjMxZzEzARBgNVBAoTckdsb2JhbFNP
Z24xZzARBgNVBAMTCkdsb2JhbFNPZ24xHhcNMjEzMDkxMzE0MjE0MjE0MjE0MjE0
MTAwMDAwWjBMMSAwHgYDVQLEExdHbG9iYm9vIFJvb3Q0EgLSB5MzETMBEG
A1UEChMKR2xvYmFsc2lnbjETMBEGA1UEAxMKR2xvYmFsc2lnbjCCASiWdQYJKoZI
hvcNAQEBBQADggEPADCCAQoCggEBAMwldpB5BngiFvXAg7aEyie/QV2EcWtIHL8
RgJDx7KKnQRfJMsu+FggkbhUqsMgUdwbN1k0ev1LKMPgj0MK66X17YUhhB5uzsT
ghHeMCOFJ0mpiLx9e+pz034knLTiFBtc+yCSmWQ1z3rDI6SY0gXG71uL0gRgkmm
KPZp0/bLyCiR5Z2KYvc3rHQU3HTg0u5yLy6c+9C7v/U9A0EGM+iCK65TpioWc4zd
QQ4g0sC0p6Hpsk+QLjJg6VfLuQ5SaGjLOZgdbKfd/+RFO+uIEn8RUAVSNECMWEZ
XriX7613t2Saer9fwRPvm2L7DwzVgkQqPabumDk3F2xmmFghcCAwEAANCMEEAw
DgYDVR0PAQH/BAQDAgEGMA8GA1UdEwEB/wQFMAMBAf8wHQYDVR00BBYEFi/wS3+o
LkUkrk1Q+m0ai97i3Ru8MA0GCSqGSIb3DQEBCwUAA4IBAQBQlnvAUKr+yAzv95ZU

```

HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	404
Connected IP	103.8.147.162
Connect Time	15.29 ms
TTFB	46.28 ms
Total Time	46.35 ms

Response Headers:

```
{
  "0": "HTTP/1.0 302 Moved Temporarily",
  "1": "Location: https://icu.gov.my/",
  "2": "Server: BigIP",
  "3": "Connection: Keep-Alive",
  "4": "Content-Length: 0",
  "6": "HTTP/2 404",
  "7": "content-length: 315",
  "8": "content-type: text/html; charset=us-ascii",
  "9": "date: Fri, 12 Jun 2026 16:54:16 GMT"
}
```

IPv4 HTTPS (port 443)

HTTP Status	404
Connected IP	103.8.147.162
Connect Time	6.37 ms
TTFB	29.01 ms
Total Time	29.03 ms

Response Headers:

```
[
  "HTTP/2 404",
  "content-length: 315",
  "content-type: text/html; charset=us-ascii",
  "date: Fri, 12 Jun 2026 16:54:16 GMT"
]
```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	302 0.005932 0.012818
TCP Connect IPv4 → port 443	404 0.006827 0.058497

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
```