

IPv6 Readiness Report

segi.edu.my — segi.edu.my



Scan to verify

Category: Education • Generated: 04 Jul 2026, 22:14 MYT • Last Checked: 04 Jul 2026, 03:51 MYT • Verification ID: 2b1a6680-24ea-4a58-94bf-dd04079a0177

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

Audit trail: <https://ipv6.my6.my/audit/2b1a6680-24ea-4a58-94bf-dd04079a0177>

Partially Compliant
MGv6C-1.0

69%
Partial Support

IPV6-ONLY READINESS

Website: ✗ Not Ready

DNS: ✓ Ready

Email: ✗ Not Ready

IPV6 ADDRESSES	IPV4 ADDRESSES
2606:4700:20::681a:1d6 2606:4700:20::681a:d6 2606:4700:20::ac43:476c	104.26.1.214 104.26.0.214 172.67.71.108

Network Information (WHOIS / RDAP)

	IPv6 Network	IPv4 Network
Organization	Cloudflare, Inc.	Cloudflare, Inc.
Country	US	US
ASN	AS13335	AS13335
ASN Name	CLOUDFLARENET - Cloudflare, Inc., US	CLOUDFLARENET - Cloudflare, Inc., US
Network (CIDR)	2606:4700::/32	104.16.0.0/12

Web Services (35%) 6 / 8			
#	CHECK	RESULT	DETAIL
1	AAAA Record	PASS	2606:4700:20::681a:1d6, 2606:4700:20::681a:d6, 2606:4700:20::ac43:476c
2	Globally Routable IPv6	PASS	All addresses are globally routable.
3	HTTP over IPv6	PASS	HTTP (port 80) responds over IPv6 — 151ms TTFB.
4	HTTPS over IPv6	PASS	HTTPS (port 443) responds over IPv6 — 71ms TTFB.
5	IPv6-Only Reachability	FAIL	Site is not reachable when limited to IPv6-only.
6	TLS Certificate Valid (IPv6)	PASS	Certificate valid — issued by C = US, O = Google Trust Services, CN = WE1, expires Aug 24 04:26:22 2026 GMT
7	Dual-Stack (IPv4 + IPv6)	PASS	Domain has both A and AAAA records.
8	HTTP/3 (QUIC)	FAIL	No HTTP/3 support detected.

DNS & DNSSEC (25%) 3 / 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	FAIL	DNSSEC validation failed or zone is unsigned.
5	Reverse DNS (PTR)	FAIL	No PTR record found.

#	CHECK	RESULT	DETAIL
6	DS Record at Parent	FAIL	No DS record at parent.
7	RRSIG Valid	FAIL	No valid RRSIG found.
8	Signing Algorithm	INFO	No DNSKEY record found.

Email Services (25%)

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#	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	DKIM selector found: default_domainkey
7	DMARC Record	PASS	DMARC record found.

IPv4 Baseline (15%)

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#	CHECK	RESULT	DETAIL
1	A Record	PASS	104.26.1.214, 104.26.0.214, 172.67.71.108
2	HTTP over IPv4	PASS	HTTP (port 80) responds over IPv4 — 122ms TTFB.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 70ms TTFB.

Audit Trail & Evidence Record

Verification ID	2b1a6680-24ea-4a58-94bf-dd04079a0177
Domain	segi.edu.my
Check Mode	Manual
Status	Completed
Started	04 Jul 2026, 03:51:21 MYT
Finished	04 Jul 2026, 03:51:27 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/2b1a6680-24ea-4a58-94bf-dd04079a0177

Integrity Verification

✓ INTEGRITY VERIFIED	
Algorithm	hmac-sha256-v1
Root Hash	b8e4bbe8a904c9b281e50ca605a543538bdfab06ad498b08119bea1faac9d08
http_headers	f06bc12564a691be8ce542fb7473577f31a82695bc6a094b53d62d276c7c63cc
dns_responses	32201a5088d8522929e391e894ed0ac0488892dbf707aeb3f3cb989c8e9b5b20
tls_handshake	141a08e03886eaeaacd5c1fec06069232d73e07ef7c0e043d0f0d26b2ce215da
connectivity_log	e66e1e2132919dad94cf525b500f0bdb1d393da6379753c2b7c36cebb8793c4c
dns_resolution_times	669df1e9f385cf7bdabd6d3b76e13f5308bd33dd1bbe1d2c60b35cda1344fa1e

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	13.93	16.26	10.71	19.51	-3.2
Google	IPv4	25.43	35.56	19.14	23.32	-6.3
Google	IPv6	24.59	25.41	24.83	24.85	+0.2
Cloudflare	IPv4	9.6	19.9	9.28	19.03	-0.3
Cloudflare	IPv6	22.22	29.97	36.15	36.79	+13.9

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 32242
;; flags: qr rd ra; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
segi.edu.my. 300 IN A 172.67.71.108
segi.edu.my. 300 IN A 104.26.1.214
segi.edu.my. 300 IN A 104.26.0.214
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 33966
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
edu.my. 2914 IN SOA e.nic.my. hostmaster.nic.my. 2026052757 1800 900 604800 3600
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 33218
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
segi.edu.my. 300 IN MX 0 segi.in.tmes.trendmicro.com.
```

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 7673
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
segi.edu.my. 86400 IN NS andy.ns.cloudflare.com.
segi.edu.my. 86400 IN NS kay.ns.cloudflare.com.
```

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 21930
;; flags: qr rd ra; QUERY: 1, ANSWER: 16, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
segi.edu.my. 300 IN TXT "brevo-code:5cc5aa9dacbe6add8cbb80ae36166a7f"
segi.edu.my. 300 IN TXT "brevo-code:afcbcb68b5c5e91ede6da0347f870ba"
segi.edu.my. 300 IN TXT "google-site-verification=6KuodZf0xCnV4PNSjRHx09nDbNLMvNHR95aWhXdq0zg"
segi.edu.my. 300 IN TXT "google-site-verification=DFs223xRi5GplVg_swQtKIWzALb2JTX0x_Fwdbflgc"
segi.edu.my. 300 IN TXT "google-site-verification=MrRshI9S3r5VBj0t0Ppj4zo-HLww2os56oWuQ3dY-QA"
segi.edu.my. 300 IN TXT "tmes=37dc88e4bcb7c2af9f1e209caa6a1"
segi.edu.my. 300 IN TXT "tmes=8fdb893271dffade49781e3d3f5afc4"
segi.edu.my. 300 IN TXT "twilio-domain-verification=a266bc5812acba856d19932ea8939cf3"
segi.edu.my. 300 IN TXT "v=spf1 include:_spfip.segi.edu.my include:spf.tmes.trendmicro.com include:_spf.salesforce.com include:spf.protection.outlook.com include:_spf.elfomap.com include:_spf.getresponse.com include:_spf.smtp.mailtrap.live include:one.zoho.com -all"
segi.edu.my. 300 IN TXT "1522905413783._domainkey.segi.edu.my"
segi.edu.my. 300 IN TXT "KTYZPUBUJ5YIWXZQ83K8Z2EZGYGSLDN4ZZ3EH14G"
segi.edu.my. 300 IN TXT "MS=ms17218423"
segi.edu.my. 300 IN TXT "MS=ms27074174"
segi.edu.my. 300 IN TXT "MS=ms92315060"
segi.edu.my. 300 IN TXT "Sendinblue-code:25a0bd97b290be4258ee108c0c808ce5"
segi.edu.my. 300 IN TXT "Sendinblue-code:99b4bf3781ebb58d04d886053ce6548d"
```

AAAA

```
;; Got answer:
```

```
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 64338
;; flags: qr rd ra; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
segi.edu.my. 300 IN AAAA 2606:4700:20::681a:d6
segi.edu.my. 300 IN AAAA 2606:4700:20::681a:1d6
segi.edu.my. 300 IN AAAA 2606:4700:20::ac43:476c
```

RRSIG

```
andy.ns.cloudflare.com. dns.cloudflare.com. 2408467136 10000 2400 604800 1800
```

DNSKEY

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 37025
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
segi.edu.my. 1796 IN SOA andy.ns.cloudflare.com. dns.cloudflare.com. 2408467136 10000 2400 604800 1800
```

DNSSEC_VALIDATION

```
; unsigned answer
segi.edu.my. 1796 IN SOA andy.ns.cloudflare.com. dns.cloudflare.com. 2408467136 10000 2400 604800 1800
```



```

0i8va55wa2kuZ29vZy9nc3IxLmNydAtBgNVHR8EJjAKMCKgIKAEhhxodHRwOi8v
Yy5wa2kuZ29vZy9yL2dzcjEuY3JsMBMGA1UdIAQMMAAowCAYGZ4EMAQIBMA0GCsQ
S1b3D0EBCwUAA4IBAQAQYQrsPBtYDh5bjP20BDwmkohlIDDkic574y04tfzHpn+cJ
odID24Ssees06bDrarZ7C30ddLibZatoKiws3UL9xnELz4ct92vID24FfVbiI1hY
+5W6FoVhKNeWIP0GCBaM4C6uVdF5dTuSMVs/ZbzNnIdCp5Gxmx5ejvEau8otR/Cs
kGN+hr/W5GvT1tMBjgWKZ114//emhA1JG1BbPzoLJQvyEotc03lXjTaCzv8mEbeb
8RqZ7a2CPsgrBuvTPBwcOMBmUFeU88+FSBX6+7iP0i18b4Z0QFqIwwMHfs/L6K1
vepuoxtGzi4CZ68zJpiq1UvSqTfJjtbd4seiMHL
-----END CERTIFICATE-----
---
Server certificate
subject=CN = segi.edu.my
issuer=C = US, O = Google Trust Services, CN = WE1
---
No client certificate CA names sent
Peer signing digest: SHA256
Peer signature type: ECDSA
Server Temp Key: X25519, 253 bits
---
SSL handshake has read 2825 bytes and written 393 bytes
Verification: OK
---
New, TLSv1.3, Cipher is TLS_AES_256_GCM_SHA384
Server public key is 256 bit
Secure Renegotiation IS NOT supported
Compression: NONE
Expansion: NONE
No ALPN negotiated

```

IPv6 Connection

IP Used	2606:4700:20::681a:1d6
IP Version	6

```

depth=2 C = US, O = Google Trust Services LLC, CN = GTS Root R4
verify return:1
depth=1 C = US, O = Google Trust Services, CN = WE1
verify return:1
depth=0 CN = segi.edu.my
verify return:1
CONNECTED(00000010)
---
Certificate chain
0 s:CN = segi.edu.my
  i:C = US, O = Google Trust Services, CN = WE1
  a:PKEY: id-ecPublicKey, 256 (bit); sigalg: ecdsa-with-SHA256
  v:NotBefore: May 26 03:26:29 2026 GMT; NotAfter: Aug 24 04:26:22 2026 GMT
-----BEGIN CERTIFICATE-----
MIIDpTCCA0ygAwIBAgIRAKL0Q2L3cVukDtskKM1hekcvCgYIKoZIzj0EAwIwOzEL
MAKGA1UEBhMCMVVMxHjAcBgNVBAoTFUdvb2dsZS5BUcnVzdCBTZjJ2aWNLczEMMAoG
A1UEAxMDV0uMB4XDTI2MDUyNjAzMjYyOVoxDTI2MDgyNDA0MjYyMlowFjEUMBIG
A1UEAxMLc2VnaS5lZHUubXkwWTAtBgqhkJ0PQIBBggqhkjOPQMBBwNCAAJftLH
4x0D+ZtKEfA1kmd+brMuLzfZZnU0aQu8vJEFfMVuygaiPG7uFEka/Ic7E7pIUZEJ
j16sCx1KS5yLeJ3Io4ICVDCALAwDgYDVR0PAQH/BAQDAgeAMBGA1UdJQMQMAoG
CCsGAQUFBwMBMAwGA1UdEwEB/wQCMAAwHQYDVR0OBBYEFEW3iHLLwgaq66q40bZV
w2n5B8ZNM8GA1UdIwQYMBaAFJB3jVnxP+ozKme9mAeXmV/k4MF4GCCsGAQUF
BwEBBFiWUDAnBgg+rBgEFBQcwAYYbaHR0cDovL28ucGtpLmdvb2cvcy93ZTEvb3RB
MCGUCCsGAQUBzAChhldHRwOi8va55wa2kuZ29vZy93ZTEuY3J0MCGUAG1UdEQQE
MByCC3NLZ2kuZWR1Lm15gg0qLnL2Z2kuZWR1Lm15MBMGA1UdIAQMMAAowCAYGZ4EM
AQIBMDYGA1UdHwQvMC0wK6ApoCeGJWh0dHA6Ly9jLnBra55nb29nL3dLMS9pVW5T
WkF451Body5jcmwggEFBgorBgEEAdZ5AgQCBIH2BIHzAPEAdwDYCVU71E96/8gW
GW+UT4WrsPj8XodVjg8V0S5yu0VLFAAAZ5iL9ZAAAEAwIMEYCIQDp0MR02RAN
WNTeTE/0EpoIzYiJgwhgsPTv5Xhxoc/A2wIhAJ0zqwraki2pat++3YUKFxFgd9HT
9nTIFmIALue822xLAHYAr2eIO1ewTt2Pptl+9i6o64EKx3Fg8CRvDYML+eFhz0A
AAGEYoJAFQAABAMARzBFAIEA3o6UbyK1jLskuC/MU4B8KyGaWBZUM+EjeHlxKzF
rMICIEJL2akAWrMyUxPy0Pp+Mu+3NiA2ArL5YtuzTB66C7QSMAGCCGSM49BAMC
A0cAMEQIEccgzCPV0TiKh+Rp+tlwQWly//wY25JZgdvdjDCHYF4xAiBCeeJBVple
WXLfYOP3QVz2UsSew6f0XN8iKn9V4w6Ug==
-----END CERTIFICATE-----
1 s:C = US, O = Google Trust Services, CN = WE1
  i:C = US, O = Google Trust Services LLC, CN = GTS Root R4
  a:PKEY: id-ecPublicKey, 256 (bit); sigalg: ecdsa-with-SHA384
  v:NotBefore: Dec 13 09:00:00 2023 GMT; NotAfter: Feb 20 14:00:00 2029 GMT
-----BEGIN CERTIFICATE-----
MIICnzCCAiWgAwIBAgIQf/MZd5csIkp2FV0TttaF4zAKBggqhkjOPQDDAzbHMQsw
CQYDVQQGEwJVUzEiMCAgA1UECHMZR29vZ2x1IFRydXN0IFNlcnZpY2VlIEExMQZEU
MBIGA1UEAxMLR1RTIFJvb3QgUjQwHhcNMjMxMjEzMDkxMjEzMDkxMjEzMDkxMjEz
MDAwWjA7MQswCQYDVQQGEwJVUzEiMCAgA1UECHMZR29vZ2x1IFRydXN0IFNlcnZp
Y2VlMQwwCgYDVQQDEwNXRTEwWTAtBgqhkJ0PQIBBggqhkjOPQMBBwNCAARvZTr+

```


Connect Time	7.49 ms
TTFB	73.72 ms
Total Time	73.78 ms

Response Headers:

```
[
  "HTTP/2 403",
  "date: Fri, 03 Jul 2026 19:51:27 GMT",
  "content-type: text/html; charset=iso-8859-1",
  "server: cloudflare",
  "cf-cache-status: DYNAMIC",
  "report-to: {\\"group\\":\\"cf-nel\\",\\"max_age\\":604800,\\"endpoints\\":[{\\"url\\":\\"https://a.nel.cloudflare.com/report/v4?s=xRHvKKKvNhUlnBpxoSoDJZQ8U12lwSocS6WnW69V2gnI60jMmtFQnkIGtNgL6%2B36WfhDEJLm3cIhXnjImUDH\\",\\"max_age\\":604800,\\"success_fraction\\":0.0,\\"max_age\\":604800}],\\"report_to\\":\\"cf-nel\\",\\"success_fraction\\":0.0,\\"max_age\\":604800}}",
  "cf-ray: a1586cca4f752925-SIN"
]
```

IPv6 HTTPS (port 443)

HTTP Status	403
Connected IP	2606:4700:20::681a:1d6
Connect Time	7.62 ms
TTFB	74.02 ms
Total Time	74.06 ms

Response Headers:

```
[
  "HTTP/2 403",
  "date: Fri, 03 Jul 2026 19:51:26 GMT",
  "content-type: text/html; charset=iso-8859-1",
  "server: cloudflare",
  "cf-cache-status: DYNAMIC",
  "report-to: {\\"group\\":\\"cf-nel\\",\\"max_age\\":604800,\\"endpoints\\":[{\\"url\\":\\"https://a.nel.cloudflare.com/report/v4?s=0wU1w2wyJ%2BaDr%2BuHS%2BLS%2FGxFfIt rvL7bVFnMV4ryhxUH5X1YdiyDiofLbnhY9ciVRLdGYfgPQmkTH\\",\\"max_age\\":604800,\\"success_fraction\\":0.0,\\"max_age\\":604800}],\\"report_to\\":\\"cf-nel\\",\\"success_fraction\\":0.0,\\"max_age\\":604800}}",
  "cf-ray: a1586cc9088c5888-SIN"
]
```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	301 0.007185 0.037972
TCP Connect IPv6 → port 80	301 0.008761 0.042851
TCP Connect IPv4 → port 443	403 0.008399 0.075659
TCP Connect IPv6 → port 443	403 0.008286 0.085416

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
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
```