IPv6 Readiness Report

mahsa.edu.my — mahsa.edu.my

Scan to verify

Category: Education • Generated: 30 Jul 2026, 07:40 MYT • Last Checked: 04 Jul 2026, 03:53 MYT • Verification ID: d71bbc8b-c3b9-4e58-818e-1e9387a93c81
Report generated from National IPv6 Readiness Monitor — https://ipv6.my6.my
Audit trail: https://ipv6.my6.my/audit/d71bbc8b-c3b9-4e58-818e-1e9387a93c81

⚠
Partially Compliant
MGv6C-1.0

77%
Partial Support

IPV6-ONLY READINESS
Website: ✓ **Ready**
DNS: ✓ **Ready**
Email: ✗ **Not Ready**

IPV6 ADDRESSES
2606:4700:20::ac43:4543
2606:4700:20::681a:90
2606:4700:20::681a:190

IPV4 ADDRESSES
104.26.0.144
104.26.1.144
172.67.69.67

Network Information (WHOIS / RDAP)

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

Web Services (35%) — 7 / 8

#	CHECK	RESULT	DETAIL
1	**AAAA Record**	PASS	2606:4700:20::ac43:4543, 2606:4700:20::681a:90, 2606:4700:20::681a:190
2	**Globally Routable IPv6**	PASS	All addresses are globally routable.
3	**HTTP over IPv6**	PASS	HTTP (port 80) responds over IPv6 — 417ms TTFB.
4	**HTTPS over IPv6**	PASS	HTTPS (port 443) responds over IPv6 — 263ms TTFB.
5	**IPv6-Only Reachability**	PASS	Site is fully reachable via IPv6-only.
6	**TLS Certificate Valid (IPv6)**	PASS	Certificate valid — issued by C = US, O = Google Trust Services, CN = WE1, expires Aug 19 11:27:15 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%) — 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	DKIM selector found: default._domainkey
7	**DMARC Record**	PASS	DMARC record found.

IPv4 Baseline (15%) — 3 / 3

#	CHECK	RESULT	DETAIL
1	**A Record**	PASS	104.26.0.144, 104.26.1.144, 172.67.69.67
2	**HTTP over IPv4**	PASS	HTTP (port 80) responds over IPv4 — 486ms TTFB.
3	**HTTPS over IPv4**	PASS	HTTPS (port 443) responds over IPv4 — 284ms TTFB.

Audit Trail & Evidence Record

Verification ID	d71bbc8b-c3b9-4e58-818e-1e9387a93c81
Domain	mahsa.edu.my
Check Mode	Manual
Status	Completed
Started	04 Jul 2026, 03:53:23 MYT
Finished	04 Jul 2026, 03:53:55 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/d71bbc8b-c3b9-4e58-818e-1e9387a93c81

Integrity Verification

✓ **INTEGRITY VERIFIED**

Algorithm	hmac-sha256-v1
Root Hash	73f9bd10ca941c7d861e83402d671febf3fde4e3a3acce2a13a3ce758689c51c
http_headers	fb35eb89aa181eefb1c0b6618fa3e6ea1c24e526147b51bb4a01c641e5c5dfd5
dns_responses	3698103d3d8310437d8352c17372ffbc152e7e705b26b1e6a067321c1251d305
tls_handshake	830988b61154ca367d4a6eb51ebd2d92d5ed79718ef91660afae13d6ceeacdd8
connectivity_log	3c86d85adf4fd6b93449ee9e75753b4d64d2930b3e92fc98d4666035cbd809b1
dns_resolution_times	91bba1a4279e1e77b5d738b3a07633963bc70ec8f2a95ff33482b5a68c9343aa

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	9.84	10.8	20.03	20.76	+10.2
Google	IPv4	33.02	36.88	21.9	22.52	-11.1
Google	IPv6	31.89	31.94	24.22	35.68	-7.7
Cloudflare	IPv4	10.47	21	12.88	24.42	+2.4
Cloudflare	IPv6	21.98	26.02	26.22	33.55	+4.2

DNS Evidence

A

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 5368
;; flags: qr rd ra; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
mahsa.edu.my.□□300□IN□A□104.26.1.144
mahsa.edu.my.□□300□IN□A□104.26.0.144
mahsa.edu.my.□□300□IN□A□172.67.69.67
```

DS

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 24417
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
edu.my.□□□3573□IN□SOA□e.nic.my. hostmaster.nic.my. 2026052753 1800 900 604800 3600
```

MX

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 19449
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
mahsa.edu.my.□□14400□IN□MX□10 mahsa-edu-my.mail.protection.outlook.com.
```

NS

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 35496
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
mahsa.edu.my.□□86400□IN□NS□cody.ns.cloudflare.com.
mahsa.edu.my.□□86400□IN□NS□zara.ns.cloudflare.com.
```

TXT

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 35209
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
mahsa.edu.my.□□14400□IN□TXT□"google-site-verification=T_aDhsW7LVoS7gS" "UMUlWeUFIkA0dRP8Jdfs2Z_K3Yco"
mahsa.edu.my.□□14400□IN□TXT□"google-site-verification=h3pILg2naLFvamf" "bDDmM5AUTKLPtC6s4vED3uhQe72Y"
mahsa.edu.my.□□14400□IN□TXT□"v=spf1 include:spf.protection.outlook.com ~all"
mahsa.edu.my.□□14400□IN□TXT□"MS=ms19423708"
```

AAAA

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 65156
;; flags: qr rd ra; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
mahsa.edu.my.□□300□IN□AAAA□2606:4700:20::681a:190
mahsa.edu.my.□□300□IN□AAAA□2606:4700:20::681a:90
mahsa.edu.my.□□300□IN□AAAA□2606:4700:20::ac43:4543
```

RRSIG

```
cody.ns.cloudflare.com. dns.cloudflare.com. 2407932597 10000 2400 604800 1800
```

DNSKEY

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 64866
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
mahsa.edu.my.□□1773□IN□SOA□cody.ns.cloudflare.com. dns.cloudflare.com. 2407932597 10000 2400 604800 1800
```

DNSSEC_VALIDATION

```
; unsigned answer
mahsa.edu.my.□□1773□IN□SOA□cody.ns.cloudflare.com. dns.cloudflare.com. 2407932597 10000 2400 604800 1800
```

TLS Handshake Evidence

IPV4 Connection

IP Used	104.26.0.144
IP Version	4

```
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 = mahsa.edu.my
verify return:1
CONNECTED(00000010)
---
Certificate chain
 0 s:CN = mahsa.edu.my
   i:C = US, O = Google Trust Services, CN = WE1
   a:PKEY: id-ecPublicKey, 256 (bit); sigalg: ecdsa-with-SHA256
   v:NotBefore: May 21 10:27:19 2026 GMT; NotAfter: Aug 19 11:27:15 2026 GMT
-----BEGIN CERTIFICATE-----
MIIDqDCCA06gAwIBAgIRAMzUtStNTu3GDjpb2Paaoo0wCgYIKoZIzj0EAwIwOzEL
MAkGA1UEBhMCVVMxHjAcBgNVBAoTFUdvb2dsZSBUcnVzdCBTZXJ2aWNlczEMMAoG
A1UEAxMDV0UxMB4XDTI2MDUyMTEwMjcxOVoXDTI2MDgxOTExMjcxNVowFzEVMBMG
A1UEAxMMbWFoc2EuZWR1Lm15MFkwEwYHKoZIzj0CAQYIKoZIzj0DAQcDQgAEcAtA
7DfNlDhEc6REPM2hG2VqNRuj0Yo6r26jchX6EXHWZqXbXslWROlS9mP0O6tnxndu
9DC1Ew4LeKs2ZdmO7KOCAlUwggJRMA4GA1UdDwEB/wQEAwIHgDATBgNVHSUEDDAK
BggrBgEFBQcDATAMBgNVHRMBAf8EAjAAMB0GA1UdDgQWBBSBP6D+zyVB7T8WRrN7
OKDuN/MUnTAfBgNVHSMEGDAWgBSQd5I1Z8T/qMyp5nvZgHl7zJP5ODBeBggrBgEF
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UTAlBggrBgEFBQcwAoYZaHR0cDovL2kucGtpLmdvb2cvd2UxLmNydDAnBgNVHREE
IDAeggxtYWhzYS5lZHUubXmCDioubWFoc2EuZWR1Lm15MBMGA1UdIAQMMAowCAYG
Z4EMAQIBMDYGA1UdHwQvMC0wK6ApoCeGJWh0dHA6Ly9jLnBraS5nb29nL3dlMS92
N2JBZTB2V2FZcy5jcmwwggEEBgorBgEEAdZ5AgQCBIH1BIHyAPAAdQDIo8R/x7Ot
uTVrAT9qehJt4zpOQ6XGRvmXrTllmR3PmgAAAZ5KSj0WAAAEAwBGMEQCIBCeX1v9
twYSnccOFO8a/PGj6WeTzGBWNxvHHdM1BR/oAiAmHCuwqRqeqfwKkyEXnYOwMsZP
BrxAoIIUoktlpickXAB3ANdtfRDRp/V3wsfpX9cAv/mCyTNaZeHQswFzF8DIxWl3
AAABnkpKPP0AAAQDAEgwRgIhAJTyuKLwO0k4JLrtbXswuxzrGmktxqn0m8CKfHv/
hiFRAiEA4wR5mDeyz/4yOlEY3e4UIGTqh4NUQ9saxeLj4GMIzBQwCgYIKoZIzj0E
AwIDSAAwRQIhALDqMc6S/o7CLoATQTldAQRBsXeDOyNiCBK3DG8P88G7AiBsOPRX
KQuD8a7W70eHAsvwL7p4Rn9jpRkoQY+YMjXrCw==
-----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/MZd5csIkp2FV0TttaF4zAKBggqhkjOPQQDAzBHMQsw
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MBIGA1UEAxMLR1RTIFJvb3QgUjQwHhcNMjMxMjEzMDkwMDAwWhcNMjkwMjIwMTQw
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Z1dHTCEDhUDCR127WEcPQMFcF4XGGTfn1XzthkubgdnXGhOlCgP4mMTG6J7/EFmP
LCaY9eYmJbsPAvpWo4H+MIH7MA4GA1UdDwEB/wQEAwIBhjAdBgNVHSUEFjAUBggr
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kHeSNWfE/6jMqeZ72YB5e8yT+TgwHwYDVR0jBBgwFoAUgEzW63T/STaj1dj8tT7F
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Z29vZy9yNC5jcnQwKwYDVR0fBCQwIjAgoB6gHIYaaHR0cDovL2MucGtpLmdvb2cv
ci9yNC5jcmwwEwYDVR0gBAwwCjAIBgZngQwBAgEwCgYIKoZIzj0EAwMDaAAwZQIx
AOcCq1HW90OVznX+0RGU1cxAQXomvtgM8zItPZCuFQ8jSBJSjz5keROv9aYsAm5V
sQIwJonMaAFi54mrfhfoFNZEfuNMSQ6/bIBiNLiyoX46FohQvKeIoJ99cx7sUkFN
7uJW
-----END CERTIFICATE-----
 2 s:C = US, O = Google Trust Services LLC, CN = GTS Root R4
   i:C = BE, O = GlobalSign nv-sa, OU = Root CA, CN = GlobalSign Root CA
   a:PKEY: id-ecPublicKey, 384 (bit); sigalg: RSA-SHA256
   v:NotBefore: Nov 15 03:43:21 2023 GMT; NotAfter: Jan 28 00:00:42 2028 GMT
-----BEGIN CERTIFICATE-----
MIIDejCCAmKgAwIBAgIQf+UwvzMTQ77dghYQST2KGzANBgkqhkiG9w0BAQsFADBX
MQswCQYDVQQGEwJCRTEZMBcGA1UEChMQR2xvYmFsU2lnbiBudi1zYTEQMA4GA1UE
CxMHUm9vdCBDQTEbMBkGA1UEAxMSR2xvYmFsU2lnbiBSb290IENBMB4XDTIzMTEx
NTAzNDMyMVoXDTI4MDEyODAwMDA0MlowRzELMAkGA1UEBhMCVVMxIjAgBgNVBAoT
GUdvb2dsZSBUcnVzdCBTZXJ2aWNlcyBMTEMxFDASBgNVBAMTC0dUUyBSb290IFI0
MHYwEAYHKoZIzj0CAQYFK4EEACIDYgAE83Rzp2iLYK5DuDXFgTB7S0md+8Fhzube
Rr1r1WEYNa5A3XP3iZEwWus87oV8okB2O6nGuEfYKueSkWpz6bFyOZ8pn6KY019e
WIZlD6GEZQbR3IvJx3PIjGov5cSr0R2Ko4H/MIH8MA4GA1UdDwEB/wQEAwIBhjAd
BgNVHSUEFjAUBggrBgEFBQcDAQYIKwYBBQUHAwIwDwYDVR0TAQH/BAUwAwEB/zAd
BgNVHQ4EFgQUgEzW63T/STaj1dj8tT7FavCUHYwwHwYDVR0jBBgwFoAUYHtmGkUN
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```

```
Oi8vaS5wa2kuZ29vZy9nc3IxLmNydDAtBgNVHR8EJjAkMCKgIKAehhxodHRwOi8v
Yy5wa2kuZ29vZy9yL2dzcjEuY3JsMBMGA1UdIAQMMAowCAYGZ4EMAQIBMA0GCSqG
SIb3DQEBCwUAA4IBAQAYQrsPBtYDh5bjP2OBDwmkoWhIDDkic574y04tfzHpn+cJ
odI2D4SseesQ6bDrarZ7C30ddLibZatoKiws3UL9xnELz4ct92vID24FfVbiI1hY
+SW6FoVHkNeWIP0GCbaM4C6uVdF5dTUsMVs/ZbzNnIdCp5Gxmx5ejvEau8otR/Cs
kGN+hr/W5GvT1tMBjgWKZ1i4//emhA1JG1BbPzoLJQvyEotc03lXjTaCzv8mEbep
8RqZ7a2CPsgRbuvTPBwcOMBBmuFeU88+FSBX6+7iP0il8b4Z0QFqIwwMHfs/L6K1
vepuoxtGzi4CZ68zJpiq1UvSqTbFJjtbD4seiMHl
-----END CERTIFICATE-----
---
Server certificate
subject=CN = mahsa.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 2828 bytes and written 394 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::ac43:4543
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 = mahsa.edu.my
verify return:1
CONNECTED(00000010)
---
Certificate chain
 0 s:CN = mahsa.edu.my
   i:C = US, O = Google Trust Services, CN = WE1
   a:PKEY: id-ecPublicKey, 256 (bit); sigalg: ecdsa-with-SHA256
   v:NotBefore: May 21 10:27:19 2026 GMT; NotAfter: Aug 19 11:27:15 2026 GMT
-----BEGIN CERTIFICATE-----
MIIDqDCCA06gAwIBAgIRAMzUtStNTu3GDjpb2Paaoo0wCgYIKoZIzj0EAwIwOzEL
MAkGA1UEBhMCVVMxHjAcBgNVBAoTFUdvb2dsZSBUcnVzdCBTZXJ2aWNlczEMMAoG
A1UEAxMDV0UxMB4XDTI2MDUyMTEwMjcxOVoXDTI2MDgxOTExMjcxNVowFzEVMBMG
A1UEAxMMbWFoc2EuZWR1Lm15MFkwEwYHKoZIzj0CAQYIKoZIzj0DAQcDQgAEcAtA
7DfNlDhEc6REPM2hG2VqNRuj0Yo6r26jchX6EXHWZqXbXslWROlS9mP0O6tnxndu
9DC1Ew4LeKs2ZdmO7KOCAlUwggJRMA4GA1UdDwEB/wQEAwIHgDATBgNVHSUEDDAK
BggrBgEFBQcDATAMBgNVHRMBAf8EAjAAMB0GA1UdDgQWBBSBP6D+zyVB7T8WRrN7
OKDuN/MUnTAfBgNVHSMEGDAWgBSQd5I1Z8T/qMyp5nvZgHl7zJP5ODBeBggrBgEF
BQcBAQRSMFAwJwYIKwYBBQUHMAGGG2h0dHA6Ly9vLnBraS5nb29nL3Mvd2UxL3pO
UTAlBggrBgEFBQcwAoYZaHR0cDovL2kucGtpLmdvb2cvd2UxLmNydDAnBgNVHREE
IDAeggxtYWhzYS5lZHUubXmCDioubWFoc2EuZWR1Lm15MBMGA1UdIAQMMAowCAYG
Z4EMAQIBMDYGA1UdHwQvMC0wK6ApoCeGJWh0dHA6Ly9jLnBraS5nb29nL3dlMS92
N2JBZTB2V2FZcy5jcmwwggEEBgorBgEEAdZ5AgQCBIH1BIHyAPAAdQDIo8R/x7Ot
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twYSnccOFO8a/PGj6WeTzGBWNxvHHdM1BR/oAiAmHCuwqRqeqfwKkyEXnYOwMsZP
BrxAoIIUoktlpickXAB3ANdtfRDRp/V3wsfpX9cAv/mCyTNaZeHQswFzF8DIxWl3
AAABnkpKPP0AAAQDAEgwRgIhAJTyuKLwO0k4JLrtbXswuxzrGmktxqn0m8CKfHv/
hiFRAiEA4wR5mDeyz/4yOlEY3e4UIGTqh4NUQ9saxeLj4GMIzBQwCgYIKoZIzj0E
AwIDSAAwRQIhALDqMc6S/o7CLoATQTldAQRBsXeDOyNiCBK3DG8P88G7AiBsOPRX
KQuD8a7W70eHAsvwL7p4Rn9jpRkoQY+YMjXrCw==
-----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/MZd5csIkp2FV0TttaF4zAKBggqhkjOPQQDAzBHMQsw
CQYDVQQGEwJVUzEiMCAGA1UEChMZR29vZ2xlIFRydXN0IFNlcnZpY2VzIExMQzEU
MBIGA1UEAxMLR1RTIFJvb3QgUjQwHhcNMjMxMjEzMDkwMDAwWhcNMjkwMjIwMTQw
MDAwWjA7MQswCQYDVQQGEwJVUzEeMBwGA1UEChMVR29vZ2xlIFRydXN0IFNlcnZp
Y2VzMQwwCgYDVQQDEwNXRTEwHTATBgcqhkjOPQIBBggqhkjOPQMBBwNCAARvzTr+
```

```
Z1dHTCEDhUDCR127WEcPQMFcF4XGGTfn1XzthkubgdnXGhOlCgP4mMTG6J7/EFmP
LCaY9eYmJbsPAvpWo4H+MIH7MA4GA1UdDwEB/wQEAwIBhjAdBgNVHSUEFjAUBggr
BgEFBQcDAQYIKwYBBQUHAwIwEgYDVR0TAQH/BAgwBgEB/wIBADAdBgNVHQ4EFgQU
kHeSNWfE/6jMqeZ72YB5e8yT+TgwHwYDVR0jBBgwFoAUgEzW63T/STaj1dj8tT7F
avCUHYwwNAYIKwYBBQUHAQEEKDAmMCQGCCsGAQUFBzAChhhodHRwOi8vaS5wa2ku
Z29vZy9yNC5jcnQwKwYDVR0fBCQwIjAgoB6gHIYaaHR0cDovL2MucGtpLmdvb2cv
ci9yNC5jcmwwEwYDVR0gBAwwCjAIBgZngQwBAgEwCgYIKoZIzj0EAwMDaAAwZQIx
AOcCq1HW90OVznX+0RGU1cxAQXomvtgM8zItPZCuFQ8jSBJSjz5keROv9aYsAm5V
sQIwJonMaAFi54mrfhfoFNZEfuNMSQ6/bIBiNLiyoX46FohQvKeIoJ99cx7sUkFN
7uJW
-----END CERTIFICATE-----
 2 s:C = US, O = Google Trust Services LLC, CN = GTS Root R4
   i:C = BE, O = GlobalSign nv-sa, OU = Root CA, CN = GlobalSign Root CA
   a:PKEY: id-ecPublicKey, 384 (bit); sigalg: RSA-SHA256
   v:NotBefore: Nov 15 03:43:21 2023 GMT; NotAfter: Jan 28 00:00:42 2028 GMT
-----BEGIN CERTIFICATE-----
MIIDejCCAmKgAwIBAgIQf+UwvzMTQ77dghYQST2KGzANBgkqhkiG9w0BAQsFADBX
MQswCQYDVQQGEwJCRTEZMBcGA1UEChMQR2xvYmFsU2lnbiBudi1zYTEQMA4GA1UE
CxMHUm9vdCBDQTEbMBkGA1UEAxMSR2xvYmFsU2lnbiBSb290IENBMB4XDTIzMTEx
NTAzNDMyMVoXDTI4MDEyODAwMDA0MlowRzELMAkGA1UEBhMCVVMxIjAgBgNVBAoT
GUdvb2dsZSBUcnVzdCBTZXJ2aWNlcyBMTEMxFDASBgNVBAMTC0dUUyBSb290IFI0
MHYwEAYHKoZIzj0CAQYFK4EEACIDYgAE83Rzp2iLYK5DuDXFgTB7S0md+8Fhzube
Rr1r1WEYNa5A3XP3iZEwWus87oV8okB2O6nGuEfYKueSkWpz6bFyOZ8pn6KY019e
WIZlD6GEZQbR3IvJx3PIjGov5cSr0R2Ko4H/MIH8MA4GA1UdDwEB/wQEAwIBhjAd
BgNVHSUEFjAUBggrBgEFBQcDAQYIKwYBBQUHAwIwDwYDVR0TAQH/BAUwAwEB/zAd
BgNVHQ4EFgQUgEzW63T/STaj1dj8tT7FavCUHYwwHwYDVR0jBBgwFoAUYHtmGkUN
l8qJUC99BM00qP/8/UswNgYIKwYBBQUHAQEEKjAoMCYGCCsGAQUFBzAChhpodHRw
Oi8vaS5wa2kuZ29vZy9nc3IxLmNydDAtBgNVHR8EJjAkMCKgIKAehhxodHRwOi8v
Yy5wa2kuZ29vZy9yL2dzcjEuY3JsMBMGA1UdIAQMMAowCAYGZ4EMAQIBMA0GCSqG
SIb3DQEBCwUAA4IBAQAYQrsPBtYDh5bjP2OBDwmkoWhIDDkic574y04tfzHpn+cJ
odI2D4SseesQ6bDrarZ7C30ddLibZatoKiws3UL9xnELz4ct92vID24FfVbiI1hY
+SW6FoVHkNeWIP0GCbaM4C6uVdF5dTUsMVs/ZbzNnIdCp5Gxmx5ejvEau8otR/Cs
kGN+hr/W5GvT1tMBjgWKZ1i4//emhA1JG1BbPzoLJQvyEotc03lXjTaCzv8mEbep
8RqZ7a2CPsgRbuvTPBwcOMBBmuFeU88+FSBX6+7iP0il8b4Z0QFqIwwMHfs/L6K1
vepuoxtGzi4CZ68zJpiq1UvSqTbFJjtbD4seiMHl
-----END CERTIFICATE-----
---
Server certificate
subject=CN = mahsa.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 2827 bytes and written 394 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
```

HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	200
Connected IP	104.26.0.144
Connect Time	18.15 ms
TTFB	358.29 ms
Total Time	358.39 ms

Response Headers:


```
{
    "0": "HTTP/1.1 302 Found",
    "1": "Date: Fri, 03 Jul 2026 19:53:53 GMT",
    "2": "Content-Type: text/html; charset=iso-8859-1",
    "3": "Connection: keep-alive",
    "4": "Server: cloudflare",
    "5": "Location: https://mahsa.edu.my/",
    "6": "Nel: {\"report_to\":\"cf-nel\",\"success_fraction\":0.0,\"max_age\":604800}",
    "7": "Cf-Cache-Status: DYNAMIC",
    "8": "Report-To: {\"group\":\"cf-
nel\",\"max_age\":604800,\"endpoints\":[{\"url\":\"https://a.nel.cloudflare.com/report/v4?s=6cprvMiuIxSm%2BiBsgykIvxPK3UmwtdGFUwxXUcFIyCsF3v3%2FCjW%2FDxwLjcH1W4obpG%2BMb%2FXGxTjEn
    "9": "CF-RAY: a158705fff24601d-SIN",
    "11": "HTTP/2 200",
    "12": "date: Fri, 03 Jul 2026 19:53:54 GMT",
    "13": "content-type: text/html; charset=UTF-8",
    "14": "server: cloudflare",
    "15": "expires: Thu, 19 Nov 1981 08:52:00 GMT",
    "16": "cache-control: no-store, no-cache, must-revalidate",
    "17": "pragma: no-cache",
    "18": "set-cookie: PHPSESSID=36ce8760cb281d1102d4173a8212bb08; path=/",
    "19": "nel: {\"report_to\":\"cf-nel\",\"success_fraction\":0.0,\"max_age\":604800}",
    "20": "cf-cache-status: DYNAMIC",
    "21": "report-to: {\"group\":\"cf-
nel\",\"max_age\":604800,\"endpoints\":[{\"url\":\"https://a.nel.cloudflare.com/report/v4?s=e5dcwB0Tw%2BebRPVz4xKUVq%2BxX%2Fkv8t%2FfOuP1PXGyighAkkkebiO02Sn%2BairWUQ%2BqZkT4H0Frlfu
    "22": "cf-ray: a15870609c4ffcf6-SIN"
}
```


IPv6 HTTP (port 80)

HTTP Status	200
Connected IP	2606:4700:20::681a:90
Connect Time	19.21 ms
TTFB	404.23 ms
Total Time	404.33 ms

Response Headers:


```
{
    "0": "HTTP/1.1 302 Found",
    "1": "Date: Fri, 03 Jul 2026 19:53:53 GMT",
    "2": "Content-Type: text/html; charset=iso-8859-1",
    "3": "Connection: keep-alive",
    "4": "Server: cloudflare",
    "5": "Location: https://mahsa.edu.my/",
    "6": "Nel: {\"report_to\":\"cf-nel\",\"success_fraction\":0.0,\"max_age\":604800}",
    "7": "Cf-Cache-Status: DYNAMIC",
    "8": "Report-To: {\"group\":\"cf-
nel\",\"max_age\":604800,\"endpoints\":[{\"url\":\"https://a.nel.cloudflare.com/report/v4?s=0nuU8OQvv5wKwKYfYz8d6I2i%2Bl2RF%2FBXAvHh4J8lHUY9KR8lZBge2FVt1%2FsmjE2Z08VtnLPKb9YxQ5%2F
    "9": "CF-RAY: a158705bda996bc9-SIN",
    "11": "HTTP/2 200",
    "12": "date: Fri, 03 Jul 2026 19:53:53 GMT",
    "13": "content-type: text/html; charset=UTF-8",
    "14": "server: cloudflare",
    "15": "expires: Thu, 19 Nov 1981 08:52:00 GMT",
    "16": "cache-control: no-store, no-cache, must-revalidate",
    "17": "pragma: no-cache",
    "18": "set-cookie: PHPSESSID=bc0df6ed81a68878d9dda7695ef03cdb; path=/",
    "19": "nel: {\"report_to\":\"cf-nel\",\"success_fraction\":0.0,\"max_age\":604800}",
    "20": "cf-cache-status: DYNAMIC",
    "21": "report-to: {\"group\":\"cf-
nel\",\"max_age\":604800,\"endpoints\":[{\"url\":\"https://a.nel.cloudflare.com/report/v4?s=nhuN%2F%2FutXLfXm5P%2F1zQ0HTTKdcljn%2FpRecja1cp3D5N0hObetUzo0FQxBGjFWE%2BkFKNRZTS%2BS2
```

```
    "22": "cf-ray: a158705c8bdbce21-SIN"
}
```


IPv4 HTTPS (port 443)

HTTP Status	200
Connected IP	104.26.0.144
Connect Time	7.18 ms
TTFB	250.82 ms
Total Time	250.86 ms

Response Headers:


```
[
    "HTTP/2 200",
    "date: Fri, 03 Jul 2026 19:53:54 GMT",
    "content-type: text/html; charset=UTF-8",
    "server: cloudflare",
    "expires: Thu, 19 Nov 1981 08:52:00 GMT",
    "cache-control: no-store, no-cache, must-revalidate",
    "pragma: no-cache",
    "set-cookie: PHPSESSID=c802a5d5a254823fd08ee81feb94ed7a; path=/",
    "nel: {\"report_to\":\"cf-nel\",\"success_fraction\":0.0,\"max_age\":604800}",
    "cf-cache-status: DYNAMIC",
    "report-to: {\"group\":\"cf-
nel\",\"max_age\":604800,\"endpoints\":[{\"url\":\"https://a.nel.cloudflare.com/report/v4?s=YVNejVDp6Aa5s9KQDtCw4iXggos1eU2a9wDIwD6webs%2FofnjHHB9jEqtqyfTMK3EPPoGnF8IIjvn3yjDtLqNH
    "cf-ray: a15870624c20c63b-SIN"
]
```


IPv6 HTTPS (port 443)

HTTP Status	200
Connected IP	2606:4700:20::ac43:4543
Connect Time	7.14 ms
TTFB	255.88 ms
Total Time	255.92 ms

Response Headers:


```
[
    "HTTP/2 200",
    "date: Fri, 03 Jul 2026 19:53:53 GMT",
    "content-type: text/html; charset=UTF-8",
    "server: cloudflare",
    "expires: Thu, 19 Nov 1981 08:52:00 GMT",
    "cache-control: no-store, no-cache, must-revalidate",
    "pragma: no-cache",
    "set-cookie: PHPSESSID=dc20dab9c85dd3e1eec5063fd4074078; path=/",
    "nel: {\"report_to\":\"cf-nel\",\"success_fraction\":0.0,\"max_age\":604800}",
    "cf-cache-status: DYNAMIC",
    "report-to: {\"group\":\"cf-
nel\",\"max_age\":604800,\"endpoints\":[{\"url\":\"https://a.nel.cloudflare.com/report/v4?s=7%2FRl%2BJwJow5rtAqGpFq8TKTqB8q1vPi4mOH76eTOu9k7eiSSemxaLtnYXtE36V5TIhB3bIOkFf1nlnBcDMH
    "cf-ray: a158705e79fa4490-SIN"
]
```


Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	302 0.007720 0.047754
TCP Connect IPv6 → port 80	302 0.008621 0.071909
TCP Connect IPv4 → port 443	200 0.007310 0.254314
TCP Connect IPv6 → port 443	200 0.008000 0.243293

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
```