IPv6 Readiness Report

mahsa.edu.my — mahsa.edu.my

Scan to verify

Category: Education • Generated: 02 Nov 2026, 02:53 MYT • Last Checked: 08 Aug 2026, 18:33 MYT • Verification ID: dd6a5a55-2daf-4c40-9eea-5017ab2bf0eb
Report generated from National IPv6 Readiness Monitor — https://ipv6.my6.my
Audit trail: https://ipv6.my6.my/audit/dd6a5a55-2daf-4c40-9eea-5017ab2bf0eb

⚠
Partially Compliant
MGv6C-1.0

81%
Partial Support

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

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

IPV4 ADDRESSES
104.26.0.144
104.26.1.144
172.67.69.67

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:90, 2606:4700:20::ac43:4543, 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 — 42ms TTFB.
4	**HTTPS over IPv6**	PASS	HTTPS (port 443) responds over IPv6 — 31ms 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 Oct 17 12:34:32 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 / 4

#	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 — 29ms TTFB.
3	**HTTPS over IPv4**	PASS	HTTPS (port 443) responds over IPv4 — 48ms TTFB.

Audit Trail & Evidence Record

Verification ID	dd6a5a55-2daf-4c40-9eea-5017ab2bf0eb
Domain	mahsa.edu.my
Check Mode	Manual
Status	Completed
Started	08 Aug 2026, 18:32:56 MYT
Finished	08 Aug 2026, 18:33:17 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/dd6a5a55-2daf-4c40-9eea-5017ab2bf0eb

Integrity Verification

✓ **INTEGRITY VERIFIED**

Algorithm	hmac-sha256-v1
Root Hash	f58aa31b56cc6d68d96de6565222937dcf87e1afba3a96a5043583cdc280b60b
http_headers	6bf917dba90812d3fa35221a34a545f2cc14c7c44171821487e5e552862ba8f0
dns_responses	81c12aaf477490b5d279b42e81bf553a4a37a85d48c7fa0b527ddc8cc4189588
tls_handshake	e41b965c16e29c29c20b2ca64de1f3b7985dc5cf8fdf41f873dc00508d1aaab0
connectivity_log	6eacaddc02f4c32c59a0b1193559c5d064c5c060f39e6622e589bc884cb5175d
dns_resolution_times	2096171e195780bd0cb07e21e9735a1fc9ac6ef6441bda1800f418e4efe64b57

Test Node Identity

Os	Linux srv1440888 6.8.0-136-generic #136-Ubuntu SMP PREEMPT_DYNAMIC Wed Jul 1 21:53:05 UTC 2026 x86_64
Hostname	srv1440888
Php Version	8.3.33
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	31.45	32.31	46.93	56.36	+15.5
Google	IPv4	32.13	91.32	84.35	95.94	+52.2
Google	IPv6	81.47	91.2	83.17	91.4	+1.7
Cloudflare	IPv4	8.87	19.66	22.11	26.65	+13.2
Cloudflare	IPv6	33.3	41.24	22.78	37.54	-10.5

DNS Evidence

A

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 17602
;; 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□172.67.69.67
mahsa.edu.my.□□300□IN□A□104.26.1.144
mahsa.edu.my.□□300□IN□A□104.26.0.144
```

DS

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 45384
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
edu.my.□□□3557□IN□SOA□e.nic.my. hostmaster.nic.my. 2026062863 1800 900 604800 3600
```

MX

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 25587
;; 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: 38194
;; 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.□□59595□IN□NS□zara.ns.cloudflare.com.
mahsa.edu.my.□□59595□IN□NS□cody.ns.cloudflare.com.
```

TXT

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 61110
;; 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: 50660
;; 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::ac43:4543
mahsa.edu.my.□□300□IN□AAAA□2606:4700:20::681a:90
mahsa.edu.my.□□300□IN□AAAA□2606:4700:20::681a:190
```

RRSIG

```
cody.ns.cloudflare.com. dns.cloudflare.com. 2409950211 10000 2400 604800 1800
```

DNSKEY

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 42652
;; 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.□□1782□IN□SOA□cody.ns.cloudflare.com. dns.cloudflare.com. 2409950211 10000 2400 604800 1800
```

DNSSEC_VALIDATION

```
; unsigned answer
mahsa.edu.my.□□1782□IN□SOA□cody.ns.cloudflare.com. dns.cloudflare.com. 2409950211 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: Jul 19 11:34:49 2026 GMT; NotAfter: Oct 17 12:34:32 2026 GMT
-----BEGIN CERTIFICATE-----
MIIDfjCCAySgAwIBAgIRAMgGVE6tlSoHE12Qg2IWbU4wCgYIKoZIzj0EAwIwOzEL
MAkGA1UEBhMCVVMxHjAcBgNVBAoTFUdvb2dsZSBUcnVzdCBTZXJ2aWNlczEMMAoG
A1UEAxMDV0UxMB4XDTI2MDcxOTExMzQ0OVoXDTI2MTAxNzEyMzQzMlowFzEVMBMG
A1UEAxMMbWFoc2EuZWR1Lm15MFkwEwYHKoZIzj0CAQYIKoZIzj0DAQcDQgAEuwf+
rZaXmc9SfIqf1f49/tPr3a9Jd+VEta1rFoP0efKpHyzSYcRtzD+3eZZDpdKAFDnv
2MCN9QFivevd6dmlVqOCAiswggInMA4GA1UdDwEB/wQEAwIHgDATBgNVHSUEDDAK
BggrBgEFBQcDATAMBgNVHRMBAf8EAjAAMB0GA1UdDgQWBBSyTXsSFa2yy7KZ9icD
/EWjBSzyqDAfBgNVHSMEGDAWgBSQd5I1Z8T/qMyp5nvZgHl7zJP5ODA1BggrBgEF
BQcBAQQpMCcwJQYIKwYBBQUHMAKGGWh0dHA6Ly9pLnBraS5nb29nL3dlMS5jcnQw
JwYDVR0RBCAwHoIMbWFoc2EuZWR1Lm15gg4qLm1haHNhLmVkdS5teTATBgNVHSAE
DDAKMAgGBmeBDAECATA2BgNVHR8ELzAtMCugKaAnhiVodHRwOi8vYy5wa2kuZ29v
Zy93ZTEvMDhRVVVvNFJPOE0uY3JsMIIBAwYKKwYBBAHWeQIEAgSB9ASB8QDvAHUA
1219ENGn9XfCx+lf1wC/+YLJM1pl4dCzAXMXwMjFaXcAAAGfel9AAgAABAMARjBE
AiBSUXSpKpSBaXmy8GP5dBvGRDCkWBMsdKW7F+N97ZfDBQIgY6YjthnuaKnZQH9S
hJ5Ljxc2ieG06z15OeOfr9D1kVAAdgDCMX5XRRmjRe5/ON6ykEHrx8IhWiK/f9W1
rXaa2Q5SzQAAAZ96X0AeAAAEAwBHMEUCIQC9motihk0RfEJL0IbGBNkw1iDNwLR1
IvN3jMkQPH12mgIgVXrEetxety+aIiA5RGBJpFx3aDdvLa+ceq31+xj9OL8wCgYI
KoZIzj0EAwIDSAAwRQIgMxrX1IojKsG4EJJKTwNabJKZvQUA/AfuSJMp6NukNXMC
IQDrnv+8hRXM5coxxNQkYT0xtDqNzvmTC9gJDaIPlNp0qg==
-----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
Y2VzMQwwCgYDVQQDEwNXRTEwWTATBgcqhkjOPQIBBggqhkjOPQMBBwNCAARvzTr+
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 2785 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
Early data was not sent
```

IPV6 Connection

IP Used	2606:4700:20::681a:90
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: Jul 19 11:34:49 2026 GMT; NotAfter: Oct 17 12:34:32 2026 GMT
-----BEGIN CERTIFICATE-----
MIIDfjCCAySgAwIBAgIRAMgGVE6tlSoHE12Qg2IWbU4wCgYIKoZIzj0EAwIwOzEL
MAkGA1UEBhMCVVMxHjAcBgNVBAoTFUdvb2dsZSBUcnVzdCBTZXJ2aWNlczEMMAoG
A1UEAxMDV0UxMB4XDTI2MDcxOTExMzQ0OVoXDTI2MTAxNzEyMzQzMlowFzEVMBMG
A1UEAxMMbWFoc2EuZWR1Lm15MFkwEwYHKoZIzj0CAQYIKoZIzj0DAQcDQgAEuwf+
rZaXmc9SfIqf1f49/tPr3a9Jd+VEta1rFoP0efKpHyzSYcRtzD+3eZZDpdKAFDnv
2MCN9QFivevd6dmlVqOCAiswggInMA4GA1UdDwEB/wQEAwIHgDATBgNVHSUEDDAK
BggrBgEFBQcDATAMBgNVHRMBAf8EAjAAMB0GA1UdDgQWBBSyTXsSFa2yy7KZ9icD
/EWjBSzyqDAfBgNVHSMEGDAWgBSQd5I1Z8T/qMyp5nvZgHl7zJP5ODA1BggrBgEF
BQcBAQQpMCcwJQYIKwYBBQUHMAKGGWh0dHA6Ly9pLnBraS5nb29nL3dlMS5jcnQw
JwYDVR0RBCAwHoIMbWFoc2EuZWR1Lm15gg4qLm1haHNhLmVkdS5teTATBgNVHSAE
DDAKMAgGBmeBDAECATA2BgNVHR8ELzAtMCugKaAnhiVodHRwOi8vY2wa2kuZ29v
Zy93ZTEvMDhRVVVvNFJPOE0uY3JsMIIBAwYKKwYBBAHWeQIEAgSB9ASB8QDvAHUA
1219ENGn9XfCx+lf1wC/+YLJM1pl4dCzAXMXwMjFaXcAAAGfel9AAgAABAMARjBE
AiBSUXSpKpSBaXmy8GP5dBvGRDCkWBMsdKW7F+N97ZfDBQIgY6YjthnuaKnZQH9S
hJ5Ljxc2ieG06z15OeOfr9D1kVAAdgDCMX5XRRmjRe5/ON6ykEHrx8IhWiK/f9W1
rXaa2Q5SzQAAAZ96X0AeAAAEAwBHMEUCIQC9motihk0RfEJL0IbGBNkw1iDNwLR1
IvN3jMkQPHl2mgIgVXrEetxety+aIiA5RGBJpFx3aDdvLa+ceq31+xj9OL8wCgYI
KoZIzj0EAwIDSAAwRQIgMxrXlIojKsG4EJJKTwNabJKZvQUA/AfuSJMp6NukNXMC
IQDrnv+8hRXM5coxxNQkYT0xtDqNzvmTC9gJDaIPlNp0qg==
-----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 2785 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
Early data was not sent
```

HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	403
Connected IP	104.26.0.144
Connect Time	7.67 ms
TTFB	38.22 ms
Total Time	38.28 ms

Response Headers:


```
[
    "HTTP/1.1 403 Forbidden",
    "Date: Sat, 08 Aug 2026 10:33:17 GMT",
    "Content-Type: text/html; charset=UTF-8",
    "Content-Length: 5125",
    "Connection: close",
    "Accept-Ch: Sec-CH-UA-Bitness, Sec-CH-UA-Arch, Sec-CH-UA-Full-Version, Sec-CH-UA-Mobile, Sec-CH-UA-Model, Sec-CH-UA-Platform-Version, Sec-CH-UA-Full-Version-
List, Sec-CH-UA-Platform, Sec-CH-UA, UA-Bitness, UA-Arch, UA-Full-Version, UA-Mobile, UA-Model, UA-Platform-Version, UA-Platform, UA",
    "Cf-Mitigated: challenge",
    "Content-Security-Policy: default-src 'none'; script-src 'nonce-XDtmvW15hSmj7aXOthuVBo' 'unsafe-eval' https://challenges.cloudflare.com; script-src-attr 'none';
style-src 'unsafe-inline'; img-src 'self' https://challenges.cloudflare.com; connect-src 'self' https://challenges.cloudflare.com; frame-src 'self'
https://challenges.cloudflare.com blob:; child-src 'self' https://challenges.cloudflare.com blob:; worker-src blob:; form-action http: https:; base-uri 'self'",
    "Server: cloudflare",
    "Critical-Ch: Sec-CH-UA-Bitness, Sec-CH-UA-Arch, Sec-CH-UA-Full-Version, Sec-CH-UA-Mobile, Sec-CH-UA-Model, Sec-CH-UA-Platform-Version, Sec-CH-UA-Full-Version-
List, Sec-CH-UA-Platform, Sec-CH-UA, UA-Bitness, UA-Arch, UA-Full-Version, UA-Mobile, UA-Model, UA-Platform-Version, UA-Platform, UA",
    "Cross-Origin-Embedder-Policy: require-corp",
    "Cross-Origin-Opener-Policy: same-origin",
    "Cross-Origin-Resource-Policy: same-origin",
    "Origin-Agent-Cluster: ?1",
    "Permissions-Policy: accelerometer=(),camera=(),clipboard-read=(),clipboard-
write=(),geolocation=(),gyroscope=(),hid=(),magnetometer=(),microphone=(),payment=(),publickey-credentials-get=(),screen-wake-lock=(),serial=(),sync-
xhr=(),usb=(),xr-spatial-tracking=*",
    "Referrer-Policy: same-origin",
    "Server-Timing: chlray;desc=\"a27ddcac3cf24110\"",
    "X-Content-Type-Options: nosniff",
    "X-Frame-Options: SAMEORIGIN",
    "Report-To: {\"group\":\"cf-
nel\",\"max_age\":604800,\"endpoints\":[{\"url\":\"https://a.nel.cloudflare.com/report/v4?s=fb6dQulebvVJDjQVO%2FVQox0%2Bzt3bZmE0kTIz6ladUhURxAaR0jwByp9QSVspaTQmLZuAfDwEaMcQn%2Frj
    "Nel: {\"report_to\":\"cf-nel\",\"success_fraction\":0.0,\"max_age\":604800}",
    "CF-RAY: a27ddcac3cf24110-SIN"
]
```


IPv6 HTTP (port 80)

HTTP Status	403
Connected IP	2606:4700:20::681a:90
Connect Time	7.77 ms
TTFB	40.92 ms
Total Time	40.98 ms

Response Headers:


```
[
    "HTTP/1.1 403 Forbidden",
    "Date: Sat, 08 Aug 2026 10:33:17 GMT",
    "Content-Type: text/html; charset=UTF-8",
    "Content-Length: 5146",
    "Connection: close",
    "Accept-Ch: Sec-CH-UA-Bitness, Sec-CH-UA-Arch, Sec-CH-UA-Full-Version, Sec-CH-UA-Mobile, Sec-CH-UA-Model, Sec-CH-UA-Platform-Version, Sec-CH-UA-Full-Version-
List, Sec-CH-UA-Platform, Sec-CH-UA, UA-Bitness, UA-Arch, UA-Full-Version, UA-Mobile, UA-Model, UA-Platform-Version, UA-Platform, UA",
    "Cf-Mitigated: challenge",
    "Content-Security-Policy: default-src 'none'; script-src 'nonce-Vf3pMrTnuKtKiMaAjgjuL2' 'unsafe-eval' https://challenges.cloudflare.com; script-src-attr 'none';
style-src 'unsafe-inline'; img-src 'self' https://challenges.cloudflare.com; connect-src 'self' https://challenges.cloudflare.com; frame-src 'self'
https://challenges.cloudflare.com blob:; child-src 'self' https://challenges.cloudflare.com blob:; worker-src blob:; form-action http: https:; base-uri 'self'",
    "Server: cloudflare",
    "Critical-Ch: Sec-CH-UA-Bitness, Sec-CH-UA-Arch, Sec-CH-UA-Full-Version, Sec-CH-UA-Mobile, Sec-CH-UA-Model, Sec-CH-UA-Platform-Version, Sec-CH-UA-Full-Version-
List, Sec-CH-UA-Platform, Sec-CH-UA, UA-Bitness, UA-Arch, UA-Full-Version, UA-Mobile, UA-Model, UA-Platform-Version, UA-Platform, UA",
    "Cross-Origin-Embedder-Policy: require-corp",
    "Cross-Origin-Opener-Policy: same-origin",
    "Cross-Origin-Resource-Policy: same-origin",
    "Origin-Agent-Cluster: ?1",
```

"Permissions-Policy: accelerometer=(),camera=(),clipboard-read=(),clipboard-write=(),geolocation=(),gyroscope=(),hid=(),magnetometer=(),microphone=(),payment=(),publickey-credentials-get=(),screen-wake-lock=(),serial=(),sync-xhr=(),usb=(),xr-spatial-tracking=*",
"Referrer-Policy: same-origin",
"Server-Timing: chlray;desc=\"a27ddcabba2344bf\"",
"X-Content-Type-Options: nosniff",
"X-Frame-Options: SAMEORIGIN",
"Report-To: {\"group\":\"cf-nel\",\"max_age\":604800,\"endpoints\":[{\"url\":\"https://a.nel.cloudflare.com/report/v4?s=PAtBiMGjUrqBzGe0%2FTUZ8IWHQzjs7odiT9qVC8THUKLEGJ36Qg0Pzed5FN7z%2FY%2Bx1EO%2F%2Fra2M%2BL
"Nel: {\"report_to\":\"cf-nel\",\"success_fraction\":0.0,\"max_age\":604800}",
"CF-RAY: a27ddcabba2344bf-SIN"
]

IPv4 HTTPS (port 443)

HTTP Status	403
Connected IP	104.26.0.144
Connect Time	7.02 ms
TTFB	38.77 ms
Total Time	38.82 ms

Response Headers:

[
"HTTP/2 403",
"date: Sat, 08 Aug 2026 10:33:17 GMT",
"content-type: text/html; charset=UTF-8",
"content-length: 5168",
"accept-ch: Sec-CH-UA-Bitness, Sec-CH-UA-Arch, Sec-CH-UA-Full-Version, Sec-CH-UA-Mobile, Sec-CH-UA-Model, Sec-CH-UA-Platform-Version, Sec-CH-UA-Full-Version-List, Sec-CH-UA-Platform, Sec-CH-UA, UA-Bitness, UA-Arch, UA-Full-Version, UA-Mobile, UA-Model, UA-Platform-Version, UA-Platform, UA",
"cf-mitigated: challenge",
"content-security-policy: default-src 'none'; script-src 'nonce-CFUfksqGm13bZN2EE2y5WB' 'unsafe-eval' https://challenges.cloudflare.com; script-src-attr 'none'; style-src 'unsafe-inline'; img-src 'self' https://challenges.cloudflare.com; connect-src 'self' https://challenges.cloudflare.com; frame-src 'self' https://challenges.cloudflare.com blob:; child-src 'self' https://challenges.cloudflare.com blob:; worker-src blob:; form-action http: https:; base-uri 'self'",
"server: cloudflare",
"critical-ch: Sec-CH-UA-Bitness, Sec-CH-UA-Arch, Sec-CH-UA-Full-Version, Sec-CH-UA-Mobile, Sec-CH-UA-Model, Sec-CH-UA-Platform-Version, Sec-CH-UA-Full-Version-List, Sec-CH-UA-Platform, Sec-CH-UA, UA-Bitness, UA-Arch, UA-Full-Version, UA-Mobile, UA-Model, UA-Platform-Version, UA-Platform, UA",
"cross-origin-embedder-policy: require-corp",
"cross-origin-opener-policy: same-origin",
"cross-origin-resource-policy: same-origin",
"origin-agent-cluster: ?1",
"permissions-policy: accelerometer=(),camera=(),clipboard-read=(),clipboard-write=(),geolocation=(),gyroscope=(),hid=(),magnetometer=(),microphone=(),payment=(),publickey-credentials-get=(),screen-wake-lock=(),serial=(),sync-xhr=(),usb=(),xr-spatial-tracking=*",
"referrer-policy: same-origin",
"server-timing: chlray;desc=\"a27ddcac8a0881da\"",
"x-content-type-options: nosniff",
"x-frame-options: SAMEORIGIN",
"report-to: {\"group\":\"cf-nel\",\"max_age\":604800,\"endpoints\":[{\"url\":\"https://a.nel.cloudflare.com/report/v4?s=B9BVNbW0%2BI8rBWb%2B2FHtzC94gHeJocHF9lu5o1gKRXtLXvZAZB9lq2NCzKfNcmhdjikdN4VVY40CcSh3gZ5
"nel: {\"report_to\":\"cf-nel\",\"success_fraction\":0.0,\"max_age\":604800}",
"cf-ray: a27ddcac8a0881da-SIN"
]

IPv6 HTTPS (port 443)

HTTP Status	403
Connected IP	2606:4700:20::681a:90
Connect Time	7.17 ms
TTFB	38.1 ms
Total Time	38.15 ms

Response Headers:

[
"HTTP/2 403",
"date: Sat, 08 Aug 2026 10:33:17 GMT",
"content-type: text/html; charset=UTF-8",
"content-length: 5189",
"accept-ch: Sec-CH-UA-Bitness, Sec-CH-UA-Arch, Sec-CH-UA-Full-Version, Sec-CH-UA-Mobile, Sec-CH-UA-Model, Sec-CH-UA-Platform-Version, Sec-CH-UA-Full-Version-List, Sec-CH-UA-Platform, Sec-CH-UA, UA-Bitness, UA-Arch, UA-Full-Version, UA-Mobile, UA-Model, UA-Platform-Version, UA-Platform, UA",
"cf-mitigated: challenge",
"content-security-policy: default-src 'none'; script-src 'nonce-0STCCCdyBGhvkMbbsDIGGz' 'unsafe-eval' https://challenges.cloudflare.com; script-src-attr 'none';

```
style-src 'unsafe-inline'; img-src 'self' https://challenges.cloudflare.com; connect-src 'self' https://challenges.cloudflare.com; frame-src 'self'
https://challenges.cloudflare.com blob:; child-src 'self' https://challenges.cloudflare.com blob:; worker-src blob:; form-action http: https:; base-uri 'self'",
    "server: cloudflare",
    "critical-ch: Sec-CH-UA-Bitness, Sec-CH-UA-Arch, Sec-CH-UA-Full-Version, Sec-CH-UA-Mobile, Sec-CH-UA-Model, Sec-CH-UA-Platform-Version, Sec-CH-UA-Full-Version-
List, Sec-CH-UA-Platform, Sec-CH-UA, UA-Bitness, UA-Arch, UA-Full-Version, UA-Mobile, UA-Model, UA-Platform-Version, UA-Platform, UA",
    "cross-origin-embedder-policy: require-corp",
    "cross-origin-opener-policy: same-origin",
    "cross-origin-resource-policy: same-origin",
    "origin-agent-cluster: ?1",
    "permissions-policy: accelerometer=(),camera=(),clipboard-read=(),clipboard-
write=(),geolocation=(),gyroscope=(),hid=(),magnetometer=(),microphone=(),payment=(),publickey-credentials-get=(),screen-wake-lock=(),serial=(),sync-
xhr=(),usb=(),xr-spatial-tracking=*",
    "referrer-policy: same-origin",
    "server-timing: chlray;desc=\"a27ddcac0f8f87bd\"",
    "x-content-type-options: nosniff",
    "x-frame-options: SAMEORIGIN",
    "report-to: {\"group\":\"cf-
nel\",\"max_age\":604800,\"endpoints\":[{\"url\":\"https://a.nel.cloudflare.com/report/v4?s=zMLmsfiOG617HWph%2ByL4dXe6O%2Fi38xiybf8jtiAwtRImSDPTd7TnDb2Vk%2FVs4pCYaHVxLjroWCjzQlhwF
    "nel: {\"report_to\":\"cf-nel\",\"success_fraction\":0.0,\"max_age\":604800}",
    "cf-ray: a27ddcac0f8f87bd-SIN"
]
```


Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	403 0.007579 0.027508
TCP Connect IPv6 → port 80	403 0.007370 0.076341
TCP Connect IPv4 → port 443	403 0.006628 0.047605
TCP Connect IPv6 → port 443	403 0.006851 0.041808

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
fd7a:115c:a1e0::1136:5807 dev tailscale0 proto kernel metric 256 pref medium
fe80::/64 dev eth0 proto kernel metric 256 pref medium
fe80::/64 dev tailscale0 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
```