IPv6 Readiness Report

malaysiakini.com — malaysiakini.com

Scan to verify

Category: News Portal • Generated: 02 Nov 2026, 03:14 MYT • Last Checked: 08 Aug 2026, 18:21 MYT • Verification ID: b64fcae0-d20d-43b2-b44a-3acf77d4d241
Report generated from National IPv6 Readiness Monitor — https://ipv6.my6.my
Audit trail: https://ipv6.my6.my/audit/b64fcae0-d20d-43b2-b44a-3acf77d4d241

⚠

Partially Compliant

MGv6C-1.0

86%

Partial Support

IPV6-ONLY READINESS

Website: ✓ **Ready**

DNS: ✓ **Ready**

Email: ✓ **Ready**

IPV6 ADDRESSES

2606:4700:10::ac42:9843
2606:4700:10::6814:25a8

IPV4 ADDRESSES

172.66.152.67
104.20.37.168

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	172.64.0.0/13

Web Services (35%) — 7 / 8

#	CHECK	RESULT	DETAIL
1	**AAAA Record**	PASS	2606:4700:10::ac42:9843, 2606:4700:10::6814:25a8
2	**Globally Routable IPv6**	PASS	All addresses are globally routable.
3	**HTTP over IPv6**	PASS	HTTP (port 80) responds over IPv6 — 95ms TTFB.
4	**HTTPS over IPv6**	PASS	HTTPS (port 443) responds over IPv6 — 67ms 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 = Let's Encrypt, CN = YE1, expires Nov 1 14:33:17 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.
6	**DS Record at Parent**	FAIL	No DS record at parent.
7	**RRSIG Valid**	FAIL	No valid RRSIG found.

#	CHECK	RESULT	DETAIL
8	**Signing Algorithm**	INFO	No DNSKEY record found.

Email Services (25%) — 6 / 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**	PASS	SMTP port 25 responds over IPv6.
4	**STARTTLS over IPv6**	PASS	STARTTLS supported over IPv6.
5	**SPF Record**	PASS	SPF record found.
6	**DKIM Selector**	INFO	DKIM selector found: google._domainkey
7	**DMARC Record**	PASS	DMARC record found.

IPv4 Baseline (15%) — 3 / 3

#	CHECK	RESULT	DETAIL
1	**A Record**	PASS	172.66.152.67, 104.20.37.168
2	**HTTP over IPv4**	PASS	HTTP (port 80) responds over IPv4 — 90ms TTFB.
3	**HTTPS over IPv4**	PASS	HTTPS (port 443) responds over IPv4 — 74ms TTFB.

Audit Trail & Evidence Record

Verification ID	b64fcae0-d20d-43b2-b44a-3acf77d4d241
Domain	malaysiakini.com
Check Mode	Manual
Status	Completed
Started	08 Aug 2026, 18:21:25 MYT
Finished	08 Aug 2026, 18:21:31 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/b64fcae0-d20d-43b2-b44a-3acf77d4d241

Integrity Verification

✓ **INTEGRITY VERIFIED**

Algorithm	hmac-sha256-v1
Root Hash	187e9878cce2f4c1eb4e6a959729c0f2ad918de51b090d1f057e851a696ce95b
http_headers	a528deafeafba2486ebc761745fdb972d04810e7abfb2ea0e834bc1e6a028a26
dns_responses	d7e41fd0e8c4dcbe6d50b2cd6f6d1375e62befc4a8d5c432c4fdf185c6f43521
tls_handshake	8eef66db3a6ac1f2e94f8acc9c84557f21e97594c765a61ae8f3e905a35c0d8a
connectivity_log	ab1ea430c94b2b045284f8d092d3ecdccfe660ed76649914655903468d079d61
dns_resolution_times	6d26952d05cc5dec98282eb4ba8be824174e54ca3ec177b31411afae8d67034f

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	22.07	23.65	25.52	27.75	+3.5
Google	IPv4	83.47	88.21	91.17	105.53	+7.7
Google	IPv6	75.78	94.49	91.97	96.03	+16.2
Cloudflare	IPv4	21.92	32.26	23.19	30.87	+1.3
Cloudflare	IPv6	18.42	20.7	20.08	22.12	+1.7

DNS Evidence

A

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 35453
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
malaysiakini.com.	300	IN	A	104.20.37.168
malaysiakini.com.	300	IN	A	172.66.152.67
```

DS

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 49626
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
com.		865	IN	SOA	a.gtld-servers.net. nstld.verisign-grs.com. 1786184434 1800 900 604800 900
```

MX

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 9078
;; flags: qr rd ra; QUERY: 1, ANSWER: 7, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
malaysiakini.com.	300	IN	MX	30 aspmx3.googlemail.com.
malaysiakini.com.	300	IN	MX	30 aspmx4.googlemail.com.
malaysiakini.com.	300	IN	MX	30 aspmx5.googlemail.com.
malaysiakini.com.	300	IN	MX	10 aspmx.l.google.com.
malaysiakini.com.	300	IN	MX	20 alt1.aspmx.l.google.com.
malaysiakini.com.	300	IN	MX	20 alt2.aspmx.l.google.com.
malaysiakini.com.	300	IN	MX	30 aspmx2.googlemail.com.
```

NS

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 58672
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
malaysiakini.com.	59185	IN	NS	erin.ns.cloudflare.com.
malaysiakini.com.	59185	IN	NS	dan.ns.cloudflare.com.
```

TXT

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 64702
;; flags: qr rd ra; QUERY: 1, ANSWER: 11, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
malaysiakini.com.	300	IN	TXT	"atlassian-domain-verification=NRv8oqfXeD8RvaGYxY+Lpv/dBU/Mi0Ri+NShXtQ1iKYJ1EjXENMkyY8GixtbD+fS"
malaysiakini.com.	300	IN	TXT	"facebook-domain-verification=3cc0bqy9bed09mee64q4y8bcuz7hik"
malaysiakini.com.	300	IN	TXT	"google-site-verification=-o-Dm3S_IK9a26rkqn5GDp8gy4KAemWGgMYmYD7MFyU"
malaysiakini.com.	300	IN	TXT	"google-site-verification=325Vd2uoVwInsdWLqJIUa9ylERIRvlHMPR9ur57xBkY"
malaysiakini.com.	300	IN	TXT	"google-site-verification=8zurrtmOl1AJhm5yQ20fTguLM9tfqWHI9lx265FRXd8"
malaysiakini.com.	300	IN	TXT	"google-site-verification=OPjO5UFAlKlSOGj8wEWYT54Qse_U7VEI_HYPvq7jFzM"
malaysiakini.com.	300	IN	TXT	"google-site-verification=PFasLkpkUNd280iRjSBhgi8l7c3iiV1ejfMgQtjf6po"
malaysiakini.com.	300	IN	TXT	"google-site-verification=Y4p1liHDvi6QscEh_GJxgTXbVDjh0gkZsIXKOSxlVPI"
malaysiakini.com.	300	IN	TXT	"google-site-verification=me-NPUhNkQPtkx3X8tHfso0lIyXs1f4MV5n2R5ngi9s"
malaysiakini.com.	300	IN	TXT	"v=spf1 ip4:170.187.231.128 ip6:2400:8901::f03c:93ff:feea:f784 mx:mailgun.org include:_spf.google.com include:_spf.mail.yahoo.com ~all"
malaysiakini.com.	300	IN	TXT	"atlassian-domain-verification=LyIUKm4r24RuC9zTdNiL2VoXgsmhBvIqZtRQEW1RxFAu8ofxEx6iKB7vUfGS9maX"
```

AAAA

```
;; Got answer:
```

```
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 12558
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
malaysiakini.com.□300□IN□AAAA□2606:4700:10::ac42:9843
malaysiakini.com.□300□IN□AAAA□2606:4700:10::6814:25a8
```

RRSIG

```
dan.ns.cloudflare.com. dns.cloudflare.com. 2411256820 10000 2400 604800 1800
```

DNSKEY

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 17451
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
malaysiakini.com.□1797□IN□SOA□dan.ns.cloudflare.com. dns.cloudflare.com. 2411256820 10000 2400 604800 1800
```

DNSSEC_VALIDATION

```
; unsigned answer
malaysiakini.com.□1796□IN□SOA□dan.ns.cloudflare.com. dns.cloudflare.com. 2411256820 10000 2400 604800 1800
```

TLS Handshake Evidence

IPV4 Connection

IP Used	172.66.152.67
IP Version	4

```
depth=3 C = US, O = Internet Security Research Group, CN = ISRG Root X2
verify return:1
depth=2 C = US, O = ISRG, CN = Root YE
verify return:1
depth=1 C = US, O = Let's Encrypt, CN = YE1
verify return:1
depth=0 CN = malaysiakini.com
verify return:1
CONNECTED(00000010)
---
Certificate chain
 0 s:CN = malaysiakini.com
   i:C = US, O = Let's Encrypt, CN = YE1
   a:PKEY: id-ecPublicKey, 256 (bit); sigalg: ecdsa-with-SHA384
   v:NotBefore: Aug  3 14:33:18 2026 GMT; NotAfter: Nov  1 14:33:17 2026 GMT
-----BEGIN CERTIFICATE-----
MIIDojCCAyigAwIBAgISBYmeREEVSEORyLVzbSjvRjHDMAoGCCqGSM49BAMDMDMx
CzAJBgNVBAYTAlVTMRYwFAYDVQQKEw1MZXQncyBFbmNyeXB0MQwwCgYDVQQDEwNZ
RTEwHhcNMjYwODAzMTQzMzE4WhcNMjYxMTAxMTQzMzE3WjAbMRkwFwYDVQQDExBt
YWxheXNpYWtpbmkuY29tMFkwEwYHKoZIzj0CAQYIKoZIzj0DAQcDQgAEASWQugjC
RA4k1oHv5ws/5jPHNzRBOQv0xr4PRyfZuowoCbGi1FLUmkMNa0p5qItJig6H3wqq
+DUD6gTw98gERqOCAjIwggIuMA4GA1UdDwEB/wQEAwIHgDATBgNVHSUEDDAKBggr
BgEFBQcDATAMBgNVHRMBAf8EAjAAMB0GA1UdDgQWBBSo2UamW0hcdNEv7gtx9hq9
vRETyzAfBgNVHSMEGDAWgBS7IMpHC/7X5Zz5jwkqo4w3RbG82DAzBggrBgEFBQcB
AQQnMCUwIwYIKwYBBQUHMAKGF2h0dHA6Ly95ZTEuaS5sZW5jci5vcmcvMC8GA1Ud
EQQoMCaCEioubWFsYXlzaWFraW5pLmNvbYIQbWFsYXlzaWFraW5pLmNvbTATBgNV
HSAEDDAKMAgGBmeBDAECATAuBgNVHR8EJzAlMCOgIaAfhh1odHRwOi8veWUxLmMu
bGVuY3Iub3JnLzY4LmNybDCCAQwGCisGAQQB1nkCBAIEgf0EgfoA+AB3ANgJVTuU
T3r/yBYZb5RPhauw+Pxeh1UmDxXRLnK7RUsUAAABn8hAqT0AAAQDAEgwRgIhAPuV
8eiZ9jygKMzw2PiIWOQByI4LKtw06SqEgTwwZ0IMAiEApLHy0dAHHnUanbwuxv3p
aTxdiA5B2fIyyqYBldgETqgAfQAm42RuWGkhI7w0P0ckNZs3ks0kWojYFdOTM/2Z
GKtHIwAAAZ/IQKSDAAgAAAUAMK4WvgQDAEYwRAIgZ0TExFZq/PaWuyJZJU7oN1mh
SeS09K+Bm1yXkp0BBwQCIBG9Zu8F6klHhoVFWgQO0TQLjruJT19r0syzmcKs6Qw/
MAoGCCqGSM49BAMDA2gAMGUCMFjc3zR/tcwxueSYgQwpftTDkK1fLmXDFBb3SBV8
3Uwd5pxcoqshEbflrmwqXdhGOAIxAOXQVDYzpII+48FI95oSACaN3kIuPlGYzird
U8TTNFKkomiA6UT+BpjBnJyMee25uA==
-----END CERTIFICATE-----
 1 s:C = US, O = Let's Encrypt, CN = YE1
   i:C = US, O = ISRG, CN = Root YE
   a:PKEY: id-ecPublicKey, 384 (bit); sigalg: ecdsa-with-SHA384
   v:NotBefore: Sep  3 00:00:00 2025 GMT; NotAfter: Sep  2 23:59:59 2028 GMT
-----BEGIN CERTIFICATE-----
MIICizCCAhGgAwIBAgIQXd1w3TH4AchcGGp6BLgK/jAKBggqhkjOPQQDAzAuMQsw
CQYDVQQGEwJVUzENMAsGA1UEChMESVNSRzEQMA4GA1UEAxMHUm9vdCBZRTAeFw0y
NTA5MDMwMDAwMDBaFw0yODA5MDIyMzU5NTlaMDMxCzAJBgNVBAYTAlVTMRYwFAYD
VQQKEw1MZXQncyBFbmNyeXB0MQwwCgYDVQQDEwNZRTEwdjAQBgcqhkjOPQIBBgUr
gQQAIgNiAAQHZVB1/mimla2hfSurylScjPMZaOJXLz/NnAc2sylm8WDyhU9Ccp+z
ASQi5vSwGGJjSGklkD9fdPR8GpyDIOIjCEfrnbt/v+ZSEPLLEGbaM6EccDbN7p9x
teIm2Avf+ryjge4wgeswDgYDVR0PAQH/BAQDAgGGMBMGA1UdJQQMMAoGCCsGAQUF
BwMBMBIGA1UdEwEB/wQIMAYBAf8CAQAwHQYDVR0OBBYEFLsgykcL/tflnPmPCSqj
jDdFsbzYMB8GA1UdIwQYMBaAFKPIJlqOoUzQNWP8myPIOq5W809WMDIGCCsGAQUF
BwEBBCYwJDAiBggrBgEFBQcwAoYWaHR0cDovL3llLmkubGVuY3Iub3JnLzATBgNV
HSAEDDAKMAgGBmeBDAECATAnBgNVHR8EIDAeMBygGqAYhhZodHRwOi8veWUuYy5s
ZW5jci5vcmcvMAoGCCqGSM49BAMDA2gAMGUCMQDgjUEahFT/h3DRakqiPZpLvPgf
Zwkt6K2EOMmh1nvEzl83eMLYcod4GCl3b0J1Nn0CMBNYmEQJb4CEG5WoOe7aRn/L
VKu6saHmHEynI7ysIPd8zQsK1HdmhlHKlw9Z5GpGvA==
-----END CERTIFICATE-----
 2 s:C = US, O = ISRG, CN = Root YE
   i:C = US, O = Internet Security Research Group, CN = ISRG Root X2
   a:PKEY: id-ecPublicKey, 384 (bit); sigalg: ecdsa-with-SHA384
   v:NotBefore: May 13 00:00:00 2026 GMT; NotAfter: Sep  2 23:59:59 2032 GMT
-----BEGIN CERTIFICATE-----
MIICpjCCAiugAwIBAgIRAIchZfw0tuX7qK3Vs3BftTowCgYIKoZIzj0EAwMwTzEL
MAkGA1UEBhMCVVMxKTAnBgNVBAoTIEludGVybmV0IFNlY3VyaXR5IFJlc2VhcmNo
IEdyb3VwMRUwEwYDVQQDEwxJU1JHIFJvb3QgWDIwHhcNMjYwNTEzMDAwMDAwWhcN
MzIwOTAyMjM1OTU5WjAuMQswCQYDVQQGEwJVUzENMAsGA1UEChMESVNSRzEQMA4G
A1UEAxMHUm9vdCBZRTB2MBAGByqGSM49AgEGBSuBBAAiA2IABDwS/6vhrcVqcbBo
+wgdI3fwn9x7DNJJOY/lTOti0vkwuRN87RhEhTH17E7XyFjWsPYhIPt/wzOqxTd2
b+4ZJNy9ID04YywF9U5zasDVyGSNErVNtz8uSGh5izW87j77GaOB6zCB6DAOBgNV
HQ8BAf8EBAMCAQYwEwYDVR0lBAwwCgYIKwYBBQUHAwEwDwYDVR0TAQH/BAUwAwEB
/zAdBgNVHQ4EFgQUo8gmWo6hTNAlY/ybI8g6rlbzT1YwHwYDVR0jBBgwFoAUfEKW
rt5LSDv6kviejM9ti6lyN5UwMgYIKwYBBQUHAQEEJjAkMCIGCCsGAQUFBzAChhZo
```

```
dHRwOi8veDIuaS5sZW5jci5vcmcvMBMGA1UdIAQMMAowCAYGZ4EMAQIBMCcGA1Ud
HwQgMB4wHKAaoBiGFmh0dHA6Ly94Mi5jLmxlbmNyLm9yZy8wCgYIKoZIzj0EAwMD
aQAwZgIxAMU19WCtmxVND8UHBZRoma49Z7jPs64Dma0eTu1OChVbB/2J7GV3nvYK
Ax54uk1G9QIxAO0miLVJu8PLNiXXXkiE/gsK3CTRTF/aeo4bMX42Zw40csRU6AC2
6hSW1/IWaas6dg==
-----END CERTIFICATE-----
 3 s:C = US, O = Internet Security Research Group, CN = ISRG Root X2
   i:C = US, O = Internet Security Research Group, CN = ISRG Root X1
   a:PKEY: id-ecPublicKey, 384 (bit); sigalg: RSA-SHA256
   v:NotBefore: May 13 00:00:00 2026 GMT; NotAfter: Sep  2 23:59:59 2032 GMT
-----BEGIN CERTIFICATE-----
MIIEcDCCAligAwIBAgIQbI8dxyfHEX97r4U6yYD5zTANBgkqhkiG9w0BAQsFADBP
MQswCQYDVQQGEwJVUzEpMCcGA1UEChMgSW50ZXJuZXQgU2VjdXJpdHkgUmVzZWFy
Y2ggR3JvdXAxFTATBgNVBAMTDElTUkcgUm9vdCBYMTAeFw0yNjA1MTMwMDAwMDBa
Fw0zMjA5MDIyMzU5NTlaME8xCzAJBgNVBAYTAlVTMSkwJwYDVQQKEyBJbnRlcm5l
dCBTZWN1cml0eSBSZXNlYXJjaCBHcm91cDEVMBMGA1UEAxMMSVNSRyBSb290IFgy
MHYwEAYHKoZIzj0CAQYFK4EEACIDYgAEzZvVn4CDCuwJSvMWSj5cz3es3mcFDR0H
ttwW+1qLFNvicWDEukWVEYmO6gbf9yoWHKS5xcUy4APgHoIYOIvXRdgKam7mAHf7
AlF9ItgKbppbd9/w+kHsOdx1ymgHDB/qo4H1MIHyMA4GA1UdDwEB/wQEAwIBBjAd
BgNVHSUEFjAUBggrBgEFBQcDAQYIKwYBBQUHAwIwDwYDVR0TAQH/BAUwAwEB/zAd
BgNVHQ4EFgQUfEKWrt5LSDv6kviejM9ti6lyN5UwHwYDVR0jBBgwFoAUebRZ5nu2
5eQBc4AIiMgaWPbpm24wMgYIKwYBBQUHAQEEJjAkMCIGCCsGAQUFBzAChhZodHRw
Oi8veDEuaS5sZW5jci5vcmcvMBMGA1UdIAQMMAowCAYGZ4EMAQIBMCcGA1UdHwQg
MB4wHKAaoBiGFmh0dHA6Ly94MS5jLmxlbmNyLm9yZy8wDQYJKoZIhvcNAQELBQAD
ggIBAD2/e9frmMxNpCV03qUHegg+MV2wz9644YoXdqtH8RyWYcBO7xfjjGEXdU1e
/o0OkEFiynUCOSIk/vLLo7ttz6CPAeNlWfC0XNkoGeWgK6jjXvozBaGuGH5n0Ufo
shMeWTuURqNN5G00sSXDTBrpp2+mgvdZQjb8K11TYMA25QA+YHNfbIEL0BniAhKS
2gsnJjSzrdZLI+EZ7SEyqdR2rkjd1KutLDU+n3TFyxjniZVGur4YlhMP3mY/dV95
```

IPV6 Connection

IP Used	2606:4700:10::ac42:9843
IP Version	6

```
depth=3 C = US, O = Internet Security Research Group, CN = ISRG Root X2
verify return:1
depth=2 C = US, O = ISRG, CN = Root YE
verify return:1
depth=1 C = US, O = Let's Encrypt, CN = YE1
verify return:1
depth=0 CN = malaysiakini.com
verify return:1
CONNECTED(00000010)
---
Certificate chain
 0 s:CN = malaysiakini.com
   i:C = US, O = Let's Encrypt, CN = YE1
   a:PKEY: id-ecPublicKey, 256 (bit); sigalg: ecdsa-with-SHA384
   v:NotBefore: Aug  3 14:33:18 2026 GMT; NotAfter: Nov  1 14:33:17 2026 GMT
-----BEGIN CERTIFICATE-----
MIIDojCCAyigAwIBAgISBYmeREEVSEORyLVzbSjvRjHDMAoGCCqGSM49BAMDMDMx
CzAJBgNVBAYTAlVTMRYwFAYDVQQKEw1MZXQncyBFbmNyeXB0MQwwCgYDVQQDEwNZ
RTEwHhcNMjYwODAzMTQzMzE4WhcNMjYxMTAxMTQzMzE3WjAbMRkwFwYDVQQDExBt
YWxheXNpYWtpbmkuY29tMFkwEwYHKoZIzj0CAQYIKoZIzj0DAQcDQgAEASWQugjC
RA4k1oHv5ws/5jPHNzRBOQv0xr4PRyfZuowoCbGi1FLUmkMNa0p5qItJig6H3wqq
+DUD6gTw98gERqOCAjIwggIuMA4GA1UdDwEB/wQEAwIHgDATBgNVHSUEDDAKBggr
BgEFBQcDATAMBgNVHRMBAf8EAjAAMB0GA1UdDgQWBBSo2UamW0hcdNEv7gtx9hq9
vRETyzAfBgNVHSMEGDAWgBS7IMpHC/7X5Zz5jwkqo4w3RbG82DAzBggrBgEFBQcB
AQQnMCUwIwYIKwYBBQUHMAKGF2h0dHA6Ly95ZTEuaS5sZW5jci5vcmcvMC8GA1Ud
EQQoMCaCEioubWFsYXlzaWFraW5pLmNvbYIQbWFsYXlzaWFraW5pLmNvbTATBgNV
HSAEDDAKMAgGBmeBDAECATAuBgNVHR8EJzAlMCOgIaAfhh1odHRwOi8veWUxLmMu
bGVuY3Iub3JnLzY4LmNybDCCAQwGCisGAQQB1nkCBAIEgf0EgfoA+AB3ANgJVTuU
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SeS09K+Bm1yXkp0BBwQCIBG9Zu8F6klHhoVFWgQO0TQLjruJT19r0syzmcKs6Qw/
MAoGCCqGSM49BAMDA2gAMGUCMFjc3zR/tcwxueSYgQwpftTDkK1fLmXDFBb3SBV8
3Uwd5pxcoqshEbflrmwqXdhGOAIxAOXQVDYzpII+48FI95oSACaN3kIuPlGYzird
U8TTNFKkomiA6UT+BpjBnJyMee25uA==
-----END CERTIFICATE-----
 1 s:C = US, O = Let's Encrypt, CN = YE1
   i:C = US, O = ISRG, CN = Root YE
   a:PKEY: id-ecPublicKey, 384 (bit); sigalg: ecdsa-with-SHA384
   v:NotBefore: Sep  3 00:00:00 2025 GMT; NotAfter: Sep  2 23:59:59 2028 GMT
-----BEGIN CERTIFICATE-----
MIICizCCAhGgAwIBAgIQXd1w3TH4AchcGGp6BLgK/jAKBggqhkjOPQQDAzAuMQsw
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NTA5MDMwMDAwMDBaFw0yODA5MDIyMzU5NTlaMDMxCzAJBgNVBAYTAlVTMRYwFAYD
```

```
VQQKEw1MZXQncyBFbmNyeXB0MQwwCgYDVQQDEwNZRTEwdjAQBgcqhkjOPQIBBgUr
gQQAIgNiAAQHZVB1/mimla2hfSurylScjPMZaOJXLz/NnAc2sylm8WDyhU9Ccp+z
ASQi5vSwGGJjSGklkD9fdPR8GpyDIOIjCEfrnbt/v+ZSEPLLEGbaM6EccDbN7p9x
teIm2Avf+ryjge4wgeswDgYDVR0PAQH/BAQDAgGGMBMGA1UdJQQMMAoGCCsGAQUF
BwMBMBIGA1UdEwEB/wQIMAYBAf8CAQAwHQYDVR0OBBYEFLsgykcL/tflnPmPCSqj
jDdFsbzYMB8GA1UdIwQYMBaAFKPIJlqOoUzQNWP8myPIOq5W809WMDIGCCsGAQUF
BwEBBCYwJDAiBggrBgEFBQcwAoYWaHR0cDovL3llLmkubGVuY3Iub3JnLzATBgNV
HSAEDDAKMAgGBmeBDAECATAnBgNVHR8EIDAeMBygGqAYhhZodHRwOi8veWUuYy5s
ZW5jci5vcmcvMAoGCCqGSM49BAMDA2gAMGUCMQDgjUEahFT/h3DRakqiPZpLvPgf
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VKu6saHmHEynI7ysIPd8zQsK1HdmhlHKlw9Z5GpGvA==
-----END CERTIFICATE-----
 2 s:C = US, O = ISRG, CN = Root YE
   i:C = US, O = Internet Security Research Group, CN = ISRG Root X2
   a:PKEY: id-ecPublicKey, 384 (bit); sigalg: ecdsa-with-SHA384
   v:NotBefore: May 13 00:00:00 2026 GMT; NotAfter: Sep  2 23:59:59 2032 GMT
-----BEGIN CERTIFICATE-----
MIICpjCCAiugAwIBAgIRAIchZfw0tuX7qK3Vs3BftTowCgYIKoZIzj0EAwMwTzEL
MAkGA1UEBhMCVVMxKTAnBgNVBAoTIEludGVybmV0IFNlY3VyaXR5IFJlc2VhcmNo
IEdyb3VwMRUwEwYDVQQDEwxJU1JHIFJvb3QgWDIwHhcNMjYwNTEzMDAwMDAwWhcN
MzIwOTAyMjM1OTU5WjAuMQswCQYDVQQGEwJVUzENMAsGA1UEChMESVNSRzEQMA4G
A1UEAxMHUm9vdCBZRTB2MBAGByqGSM49AgEGBSuBBAAiA2IABDwS/6vhrcVqcbBo
+wgdI3fwn9x7DNJJOY/lTOti0vkwuRN87RhEhTH17E7XyFjWsPYhIPt/wzOqxTd2
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HQ8BAf8EBAMCAQYwEwYDVR0lBAwwCgYIKwYBBQUHAwEwDwYDVR0TAQH/BAUwAwEB
/zAdBgNVHQ4EFgQUo8gmWo6hTNA1Y/ybI8g6rlbzT1YwHwYDVR0jBBgwFoAUfEKW
rt5LSDv6kviejM9ti6lyN5UwMgYIKwYBBQUHAQEEJjAkMCIGCCsGAQUFBzAChhZo
dHRwOi8veDIuaS5sZW5jci5vcmcvMBMGA1UdIAQMMAowCAYGZ4EMAQIBMCcGA1Ud
HwQgMB4wHKAaoBiGFmh0dHA6Ly94Mi5jLmxlbmNyLm9yZy8wCgYIKoZIzj0EAwMD
aQAwZgIxAMU19WCtmxVND8UHBZRoma49Z7jPs64Dma0eTu1OChVbB/2J7GV3nvYK
Ax54uk1G9QIxAO0miLVJu8PLNiXXXkiE/gsK3CTRTF/aeo4bMX42Zw40csRU6AC2
6hSW1/IWaas6dg==
-----END CERTIFICATE-----
 3 s:C = US, O = Internet Security Research Group, CN = ISRG Root X2
   i:C = US, O = Internet Security Research Group, CN = ISRG Root X1
   a:PKEY: id-ecPublicKey, 384 (bit); sigalg: RSA-SHA256
   v:NotBefore: May 13 00:00:00 2026 GMT; NotAfter: Sep  2 23:59:59 2032 GMT
-----BEGIN CERTIFICATE-----
MIIEcDCCAligAwIBAgIQbI8dxyfHEX97r4U6yYD5zTANBgkqhkiG9w0BAQsFADBP
MQswCQYDVQQGEwJVUzEpMCcGA1UEChMgSW50ZXJuZXQgU2VjdXJpdHkgUmVzZWFy
Y2ggR3JvdXAxFTATBgNVBAMTDElTUkcgUm9vdCBYMTAeFw0yNjA1MTMwMDAwMDBa
Fw0zMjA5MDIyMzU5NTlaME8xCzAJBgNVBAYTAlVTMSkwJwYDVQQKEyBJbnRlcm5l
dCBTZWN1cml0eSBSZXNlYXJjaCBHcm91cDEVMBMGA1UEAxMMSVNSRyBSb290IFgy
MHYwEAYHKoZIzj0CAQYFK4EEACIDYgAEzZvVn4CDCuwJSvMWSj5cz3es3mcFDR0H
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AlF9ItgKbppbd9/w+kHsOdx1ymgHDB/qo4H1MIHyMA4GA1UdDwEB/wQEAwIBBjAd
BgNVHSUEFjAUBggrBgEFBQcDAQYIKwYBBQUHAwIwDwYDVR0TAQH/BAUwAwEB/zAd
BgNVHQ4EFgQUfEKWrt5LSDv6kviejM9ti6lyN5UwHwYDVR0jBBgwFoAUebRZ5nu2
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/o0OkEFiynUCOSIk/vLLo7ttz6CPAeNlWfC0XNkoGeWgK6jjXvozBaGuGH5n0Ufo
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2gsnJjSzrdZLI+EZ7SEyqdR2rkjd1KutLDU+n3TFyxjniZVGur4YlhMP3mY/dV95
```

HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	200
Connected IP	172.66.152.67
Connect Time	25.51 ms
TTFB	88.18 ms
Total Time	88.29 ms

Response Headers:


```
{
    "0": "HTTP/1.1 301 Moved Permanently",
    "1": "Date: Sat, 08 Aug 2026 10:21:30 GMT",
    "2": "Content-Type: text/html; charset=UTF-8",
    "3": "Connection: keep-alive",
    "4": "Location: https://malaysiakini.com/",
    "5": "Server: cloudflare",
    "6": "CF-RAY: a27dcb6bd8b540e0-SIN",
    "8": "HTTP/2 302",
    "9": "date: Sat, 08 Aug 2026 10:21:30 GMT",
    "10": "content-type: text/html; charset=UTF-8",
    "11": "location: https://www.malaysiakini.com/",
    "12": "strict-transport-security: max-age=0",
    "13": "server: cloudflare",
    "14": "cf-ray: a27dcb6c1c36ce7e-SIN",
    "16": "HTTP/2 200",
    "17": "date: Sat, 08 Aug 2026 10:21:30 GMT",
    "18": "content-type: text/html; charset=utf-8",
    "19": "strict-transport-security: max-age=0",
    "20": "age: 337",
    "21": "x-powered-by: Next.js",
    "22": "cache-control: private, max-age=30, must-revalidate",
    "23": "vary: Accept-Encoding",
    "24": "cf-cache-status: HIT",
    "25": "server: cloudflare",
    "26": "cf-ray: a27dcb6c498da17f-SIN"
}
```


IPv6 HTTP (port 80)

HTTP Status	200
Connected IP	2606:4700:10::6814:25a8
Connect Time	24.46 ms
TTFB	95.23 ms
Total Time	95.34 ms

Response Headers:


```
{
    "0": "HTTP/1.1 301 Moved Permanently",
    "1": "Date: Sat, 08 Aug 2026 10:21:30 GMT",
    "2": "Content-Type: text/html; charset=UTF-8",
    "3": "Connection: keep-alive",
    "4": "Location: https://malaysiakini.com/",
    "5": "Server: cloudflare",
    "6": "CF-RAY: a27dcb6ad9f2fcea-SIN",
    "8": "HTTP/2 302",
    "9": "date: Sat, 08 Aug 2026 10:21:30 GMT",
    "10": "content-type: text/html; charset=UTF-8",
    "11": "location: https://www.malaysiakini.com/",
    "12": "strict-transport-security: max-age=0",
    "13": "server: cloudflare",
    "14": "cf-ray: a27dcb6b0f22fe00-SIN",
    "16": "HTTP/2 200",
    "17": "date: Sat, 08 Aug 2026 10:21:30 GMT",
    "18": "content-type: text/html; charset=utf-8",
    "19": "strict-transport-security: max-age=0",
    "20": "age: 337",
    "21": "x-powered-by: Next.js",
    "22": "cache-control: private, max-age=30, must-revalidate",
    "23": "vary: Accept-Encoding",
```

```
    "24": "cf-cache-status: HIT",
    "25": "server: cloudflare",
    "26": "cf-ray: a27dcb6b4d4a3883-SIN"
}
```


IPv4 HTTPS (port 443)

HTTP Status	200
Connected IP	104.20.37.168
Connect Time	16.81 ms
TTFB	74.44 ms
Total Time	74.53 ms

Response Headers:


```
{
    "0": "HTTP/2 302",
    "1": "date: Sat, 08 Aug 2026 10:21:30 GMT",
    "2": "content-type: text/html; charset=UTF-8",
    "3": "location: https://www.malaysiakini.com/",
    "4": "strict-transport-security: max-age=0",
    "5": "server: cloudflare",
    "6": "cf-ray: a27dcb6c8b51577a-SIN",
    "8": "HTTP/2 200",
    "9": "date: Sat, 08 Aug 2026 10:21:31 GMT",
    "10": "content-type: text/html; charset=utf-8",
    "11": "strict-transport-security: max-age=0",
    "12": "age: 337",
    "13": "x-powered-by: Next.js",
    "14": "cache-control: private, max-age=30, must-revalidate",
    "15": "vary: Accept-Encoding",
    "16": "cf-cache-status: HIT",
    "17": "server: cloudflare",
    "18": "cf-ray: a27dcb6cbbe51902-SIN"
}
```


IPv6 HTTPS (port 443)

HTTP Status	200
Connected IP	2606:4700:10::6814:25a8
Connect Time	15.5 ms
TTFB	64.95 ms
Total Time	65.02 ms

Response Headers:


```
{
    "0": "HTTP/2 302",
    "1": "date: Sat, 08 Aug 2026 10:21:30 GMT",
    "2": "content-type: text/html; charset=UTF-8",
    "3": "location: https://www.malaysiakini.com/",
    "4": "strict-transport-security: max-age=0",
    "5": "server: cloudflare",
    "6": "cf-ray: a27dcb6b8a72fd0b-SIN",
    "8": "HTTP/2 200",
    "9": "date: Sat, 08 Aug 2026 10:21:30 GMT",
    "10": "content-type: text/html; charset=utf-8",
    "11": "strict-transport-security: max-age=0",
    "12": "age: 337",
    "13": "x-powered-by: Next.js",
    "14": "cache-control: private, max-age=30, must-revalidate",
    "15": "vary: Accept-Encoding",
    "16": "cf-cache-status: HIT",
    "17": "server: cloudflare",
    "18": "cf-ray: a27dcb6bbce69e18-SIN"
}
```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	301 0.008635 0.046068
TCP Connect IPv6 → port 80	301 0.007574 0.023108
TCP Connect IPv4 → port 443	302 0.007094 0.039349
TCP Connect IPv6 → port 443	302 0.007569 0.060214

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
```