IPv6 Readiness Report

malaysiakini.com — malaysiakini.com

Scan to verify

Category: News Portal • Generated: 02 Nov 2026, 03:13 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
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-----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-----
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NTA5MDMwMDAwMDBaFw0yODA5MDIyMzU5NTlaMDMxCzAJBgNVBAYTAlVTMRYwFAYD
```

```
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-----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
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dHRwOi8veDIuaS5sZW5jci5vcmcvMBMGA1UdIAQMMAowCAYGZ4EMAQIBMCcGA1Ud
HwQgMB4wHKAaoBiGFmh0dHA6Ly94Mi5jLmxlbmNyLm9yZy8wCgYIKoZIzj0EAwMD
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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
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Y2ggR3JvdXAxFTATBgNVBAMTDElTUkcgUm9vdCBYMTAeFw0yNjA1MTMwMDAwMDBa
Fw0zMjA5MDIyMzU5NTlaME8xCzAJBgNVBAYTAlVTMSkwJwYDVQQKEyBJbnRlcm5l
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BgNVHQ4EFgQUfEKWrt5LSDv6kviejM9ti6lyN5UwHwYDVR0jBBgwFoAUebRZ5nu2
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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
```