# IPv6 Readiness Report

**guardian.com.my — guardian.com.my**

Scan to verify

Category: E-commerce • Generated: 02 Nov 2026, 02:47 MYT • Last Checked: 08 Aug 2026, 18:28 MYT • Verification ID: 8f7236a5-f9c3-49c0-b201-d91d0a121e50
Report generated from National IPv6 Readiness Monitor — https://ipv6.my6.my
Audit trail: https://ipv6.my6.my/audit/8f7236a5-f9c3-49c0-b201-d91d0a121e50

⚠
**Partially Compliant**
MGv6C-1.0

**73%**
**Partial Support**

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

**IPV6 ADDRESSES**
2a04:4e42::380
2a04:4e42:200::380
2a04:4e42:400::380
2a04:4e42:600::380

**IPV4 ADDRESSES**
151.101.193.124
151.101.129.124
151.101.1.124
151.101.65.124

## Network Information (WHOIS / RDAP)

| | IPv6 Network | IPv4 Network |
|---|---|---|
| Organization | FASTLY | Fastly, Inc. |
| Country | US | US |
| ASN | AS54113 | AS54113 |
| ASN Name | FASTLY - Fastly, Inc., US | FASTLY - Fastly, Inc., US |
| Network (CIDR) | 2a04:4e42::/32 | 151.101.0.0/16 |

## Web Services (35%) 7 / 8

| # | CHECK | RESULT | DETAIL |
|---|---|---|---|
| 1 | **AAAA Record** | **PASS** | 2a04:4e42::380, 2a04:4e42:200::380, 2a04:4e42:400::380, 2a04:4e42:600::380 |
| 2 | **Globally Routable IPv6** | **PASS** | All addresses are globally routable. |
| 3 | **HTTP over IPv6** | **PASS** | HTTP (port 80) responds over IPv6. |
| 4 | **HTTPS over IPv6** | **PASS** | HTTPS (port 443) responds over IPv6 — 9ms 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 = YR2, expires Oct 5 11:36:58 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%) — 3 / 6

| # | CHECK | RESULT | DETAIL |
|---|---|---|---|
| 1 | **MX Record Exists** | PASS | MX record found. |
| 2 | **MX Server Has IPv6** | FAIL | MX server has no IPv6 address. |
| 3 | **SMTP Reachable via IPv6** | FAIL | SMTP is not reachable over IPv6. |
| 4 | **STARTTLS over IPv6** | FAIL | STARTTLS not available over IPv6. |
| 5 | **SPF Record** | PASS | SPF record found. |
| 6 | **DKIM Selector** | INFO | No common DKIM selector found. |
| 7 | **DMARC Record** | PASS | DMARC record found. |

## IPv4 Baseline (15%) — 3 / 3

| # | CHECK | RESULT | DETAIL |
|---|---|---|---|
| 1 | **A Record** | PASS | 151.101.193.124, 151.101.129.124, 151.101.1.124, 151.101.65.124 |
| 2 | **HTTP over IPv4** | PASS | HTTP (port 80) responds over IPv4 — 16ms TTFB. |
| 3 | **HTTPS over IPv4** | PASS | HTTPS (port 443) responds over IPv4 — 8ms TTFB. |

## Audit Trail & Evidence Record

| | |
|---|---|
| **Verification ID** | 8f7236a5-f9c3-49c0-b201-d91d0a121e50 |
| **Domain** | guardian.com.my |
| **Check Mode** | Manual |
| **Status** | Completed |
| **Started** | 08 Aug 2026, 18:28:52 MYT |
| **Finished** | 08 Aug 2026, 18:28:57 MYT |
| **Test Node Profile** | dual stack |
| **Engine Version** | 2.0.0 |
| **MGv6C Version** | 1.0.0 |
| **Audit URL** | https://ipv6.my6.my/audit/8f7236a5-f9c3-49c0-b201-d91d0a121e50 |

## Integrity Verification

✓ **INTEGRITY VERIFIED**

| | |
|---|---|
| **Algorithm** | hmac-sha256-v1 |
| **Root Hash** | 5163c63b1b8f569698be1086e7469d6a95a90aec6ba081f65b83404eb17b6bc3 |
| **http_headers** | 56608f538c2373108839bbf07d9cede96396ee3e7e21efe90a5fdff4b2423e9c |
| **dns_responses** | bec09f46dd29ac93be1b5f565de37c7776f392b7fc391f2b281ca8b04570f47f |
| **tls_handshake** | 6519d0776ccc4d097a268c80f4424a854c70fefcb7aac22a6ada01d185d04667 |
| **connectivity_log** | f4145f811584f1ba969655bdb6b45476366f22d67ff0d0d94c7844be6871d63d |
| **dns_resolution_times** | c1f4de982f9f96ce0011eb6a3c97ab2063d1b98674fa80ef7a1ffe843a5f94ae |

## 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 | 23.02 | 23.86 | 22.38 | 29.32 | -0.6 |
| **Google** | IPv4 | 94.32 | 104.56 | 39.19 | 77.88 | -55.1 |
| **Google** | IPv6 | 84.06 | 90.73 | 36.47 | 92.89 | -47.6 |
| **Cloudflare** | IPv4 | 20.8 | 29.31 | 20.15 | 21.72 | -0.7 |
| **Cloudflare** | IPv6 | 32.27 | 32.56 | 22.94 | 33.29 | -9.3 |

## DNS Evidence

### A

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 26289
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
guardian.com.my.□300□IN□A□151.101.193.124
guardian.com.my.□300□IN□A□151.101.129.124
guardian.com.my.□300□IN□A□151.101.65.124
guardian.com.my.□300□IN□A□151.101.1.124
```

### DS

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 10452
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
com.my.□□□3151□IN□SOA□e.nic.my. hostmaster.nic.my. 2026062862 1800 900 604800 3600
```

### MX

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 21308
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
guardian.com.my.□300□IN□MX□10 au-smtp-inbound-2.mimecast.com.
guardian.com.my.□300□IN□MX□10 au-smtp-inbound-1.mimecast.com.
```

### NS

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 14718
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
guardian.com.my.□59526□IN□NS□dara.ns.cloudflare.com.
guardian.com.my.□59526□IN□NS□clay.ns.cloudflare.com.
```

### TXT

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 51436
;; flags: qr rd ra; QUERY: 1, ANSWER: 7, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
guardian.com.my.□300□IN□TXT□"_globalsign-domain-verification=C6G_1zguDMGI00D0HQ29xNpCzGKtB-L5tj4PidLRhl"
guardian.com.my.□300□IN□TXT□"_globalsign-domain-verification=a5IOzXY3fA84qiVO0MTeVhhM_2kzIuaaJrRMCZgHTO"
guardian.com.my.□300□IN□TXT□"google-site-verification=GX0P5tYa5mZ3_2lSAv5bwUuQ9_lvEbreW19ks_QaWmA"
guardian.com.my.□300□IN□TXT□"v=spf1 include:spf.mandrillapp.com include:au._netblocks.mimecast.com include:spf.protection.outlook.com ~all"
guardian.com.my.□300□IN□TXT□"MS=ms22897116"
guardian.com.my.□300□IN□TXT□"_globalsign-domain-verification=7Qv66RL6KnXT3GdKm0SOV58dv-rhdm9crLa4iAtNUw"
guardian.com.my.□300□IN□TXT□"_globalsign-domain-verification=8IkrogqRmoeSpJ_RGFaVc7jrHcwKBL_6gibufnvjjJ"
```

### AAAA

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 58105
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
guardian.com.my.	1797	IN	SOA	clay.ns.cloudflare.com. dns.cloudflare.com. 2410195052 10000 2400 604800 1800
```

### RRSIG

```
clay.ns.cloudflare.com. dns.cloudflare.com. 2410195052 10000 2400 604800 1800
```

### DNSKEY

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 54986
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
guardian.com.my.	1797	IN	SOA	clay.ns.cloudflare.com. dns.cloudflare.com. 2410195052 10000 2400 604800 1800
```

### DNSSEC_VALIDATION

```
; unsigned answer
guardian.com.my.	1797	IN	SOA	clay.ns.cloudflare.com. dns.cloudflare.com. 2410195052 10000 2400 604800 1800
```

## TLS Handshake Evidence

### IPV4 Connection

| | |
|---|---|
| **IP Used** | 151.101.193.124 |
| **IP Version** | 4 |

```
depth=3 C = US, O = Internet Security Research Group, CN = ISRG Root X1
verify return:1
depth=2 C = US, O = ISRG, CN = Root YR
verify return:1
depth=1 C = US, O = Let's Encrypt, CN = YR2
verify return:1
depth=0 CN = guardian.com.my
verify return:1
CONNECTED(00000010)
---
Certificate chain
 0 s:CN = guardian.com.my
   i:C = US, O = Let's Encrypt, CN = YR2
   a:PKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA256
   v:NotBefore: Jul  7 11:36:59 2026 GMT; NotAfter: Oct  5 11:36:58 2026 GMT
-----BEGIN CERTIFICATE-----
MIIFJjCCBA6gAwIBAgISBcDBsicfRU1k20KoSebUIl+cMA0GCSqGSIb3DQEBCwUA
MDMxCzAJBgNVBAYTAlVTMRYwFAYDVQQKEw1MZXQncyBFbmNyeXB0MQwwCgYDVQQD
EwNZUjIwHhcNMjYwNzA3MTEzNjU5WhcNMjYxMDA1MTEzNjU4WjAaMRgwFgYDVQQD
Ew9ndWFyZGlhbi5jb20ubXkwggEiMA0GCSqGSIb3DQEBAQUAA4IBDwAwggEKAoIB
AQDRRxyMnq18D/dWTcZlZals1BtucWdN4vAffgkmPoX38hUL7YLSLFllzDXm3NL+
KzHEHIq0lTIfrkiqp6nWRRNnmUiRX0XsdTVH71l/m5M1adg5DxyU/tdfDPyP/Nn2
xCQ3uRMV7q6lDWgyXAJmL9F7merrAdZybvYPuz5wahtUa8d9zsjqefjgCUFOep9H
mUa37XbW2gDUlshAa2/RqQtfWlV71WeLiV97QyjYdi9H8qX4eLQFiqgmZyjU/dv6
Zl/xGCpvZRk3VCqH2dDgzG8vuY8Dp1I1avM+cPlB93gK2pDNRHutBjwyMQF92EVZ
JyIW0d+o2CeVAFfa5WoN+OqhAgMBAAGjggJLMIICRzAOBgNVHQ8BAf8EBAMCBaAw
EwYDVR0lBAwwCgYIKwYBBQUHAwEwDAYDVR0TAQH/BAIwADAdBgNVHQ4EFgQUvt/r
rVX0hAWLhzLkFXC8PpmXYaswHwYDVR0jBBgwFoAUQBUtJnntMiCe35pyHdYyH4EM
gQwwMwYIKwYBBQUHAQEEJzAlMCMGCCsGAQUFBzAChhdodHRwOi8veXIyLmkubGVu
Y3Iub3JnLzBHBgNVHREEQDA+gg9ndWFyZGlhbi5jb20ubXmCFm1jcHJvZC5ndWFy
ZGlhbi5jb20ubXmCE3d3dy5ndWFyZGlhbi5jb20ubXkwEwYDVR0gBAwwCjAIBgZn
gQwBAgEwLgYDVR0fBCcwJTAjoCGgH4YdaHR0cDovL3lyMi5jLmxlbmNyLm9yZy8y
OS5jcmwwggENBgorBgEEAdZ5AgQCBIH+BIH7APkAdgCvZ4g7V7BO3Y+m2X72Lqjr
gQrHcWDwJF5V1gwv54WHOgAAAZ88k4pmAAAEAwBHMEUCIQDfa32BsedA3yp+fChB
kh5TKBUl6luASBhEppW22CB2xwIgES3Xxiv9onBfKVeYo8qEqC3DcII8JmwJL+/K
ucreQAAAfwAm42RuWGkhI7w0P0ckNZs3ks0kWojYFdOTM/2ZGKtHIwAAAZ88k4dv
AAgAAAUAJneZmAQDAEgwRgIhAJuaOyeU0iRGcaa9SsANo5LQG9hwibuNqzse20l/
OoIuAiEAznwgIQsr3cC0joH6uL9mdTzVGv5cTHiag4zSPhxHXdAwDQYJKoZIhvcN
AQELBQADggEBAIZ4DT+Simd5FRnyn8c/qOFoVQzrZJul3SRJSykbbkayHO2UIkGU
e1GR9iIZh+BwJLrO+O3wszJNuIeTJh0QQlKRMtG4viij7yJZCiNvuWusA5A+1Jx5
SY6bHZcKGVxGQjVImX4agTP9aYuiaQeBs8YWFvPiVLWr7qIqOEMUdrPC2fEAEQ5w
TCMMgM5Rml6S/kIalcIJ21Mgmh82IgFOwff4xWTvfGEDQj8LVXbfCWkRzAW03KYn
X04hJlinkFj0byjgdc0LO/0koN7MfnStCPAIfhXDCnfq5LT46Qff909vMK9Ytn77
p4YjKODyY1km9p7LBZ0NF+gYFaFMVB581Os=
-----END CERTIFICATE-----
 1 s:C = US, O = Let's Encrypt, CN = YR2
   i:C = US, O = ISRG, CN = Root YR
   a:PKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA256
   v:NotBefore: Sep  3 00:00:00 2025 GMT; NotAfter: Sep  2 23:59:59 2028 GMT
-----BEGIN CERTIFICATE-----
MIIE2jCCAsKgAwIBAgIQTr0klH4k05SALYSlL9WzGTANBgkqhkiG9w0BAQsFADAu
MQswCQYDVQQGEwJVUzENMAsGA1UEChMESVNSRzEQMA4GA1UEAxMHUm9vdCBZUjAe
Fw0yNTA5MDMwMDAwMDBaFw0yODA5MDIyMzU5NTlaMDMxCzAJBgNVBAYTAlVTMRYw
FAYDVQQKEw1MZXQncyBFbmNyeXB0MQwwCgYDVQQDEwNZUjIwggEiMA0GCSqGSIb3
DQEBAQUAA4IBDwAwggEKAoIBAQDZ0LxwBppqh84luqMerV/eeL/fXQ7mLQQv1Lnp
WKZbyvGpx6wh6AfnslAnF6ewTkcHA+gSOoBvm3Dfm06AuGiF+KRut4fAcowqnAQQ
CW98+QPP/eOv/wug7Iyk4NkOxf2I6g2f55T6nJoOTLFcukeRq80JGQEYan+dPFr9
OGUgQK2hGKgNkW87pappsOAuUJcroYhRt5uUis4qaZireiseu32gzDJNBAiKtsvd
6HX4v25bpkRNcS/B/Gtc9kVbUpD+2PLPxdei3Tim55k4tfAEXwD2qyiPTxrTNq6l
N+AMr5g2c1dNqkOTwjxeV6L5lpP1rGiYvLnRaPlOqyZRPW+5AgMBAAGjge4wgesw
DgYDVR0PAQH/BAQDAgGGMBMGA1UdJQQMMAoGCCsGAQUFBwMBMBIGA1UdEwEB/wQI
MAYBAf8CAQAwHQYDVR0OBBYEFEAVLSZ57TIgnt+ach3WMh+BDIEMMB8GA1UdIwQY
MBaAFN7nW2DQIm1AKH0/DQH+pLVStFGUMDIGCCsGAQUFBwEBBCYwJDAiBggrBgEF
BQcwAoYWaHR0cDovL3lyLmkubGVuY3Iub3JnLzATBgNVHSAEDDAKMAgGBmeBDAEC
ATAnBgNVHR8EIDAeMBygGqAYhhZodHRwOi8veXIuYy5sZW5jci5vcmcvMA0GCSqG
SIb3DQEBCwUAA4ICAQB0ZUQWZ9/Yn9COEpo+JfecMnB0h0vwDm/M66IqXqw3LoaL
mx9lZvRTeDIS67PUeI3yCA2W6PKRD0/FE/G57lOmS+Xy5AaaL00ICGOqjNcCaMWW
8o8nevHOd4i4lqgtznE/28QwlcdJyF8yBiWHpnyjhEpmNWJURgOCOg2xpwRMBCsj
MScqYPtOhBeuYQvSwAEeTML2Ukh6uGuX4E14q65Ja8cdjF5bAldnP1eE4FBaAwsZ
G2fOqqrKV03Y85Nw2btedP1AtliQuJZs/Jo/gXxXdc7LrH3McgnpnbTiAncX7yES
hP6kzQejllqMCIt52HOjxDGWafS7Xw+DKwqmH+Eqy8dcbOuag/1AYlQoKNVK3F5q
Hh6tEDiMqQcLIibGKteE6iHo4A/bISCbzrhXUYuism42ZYzmc48FMVIH3qy4L84E
```

```
TdAH2gtxw0PAhvRVXp8HP7wfngpzsN/8xOTpeRSbM4+Qbc56G6+Bifmv6sk1ieQb
NA3wJdl4DDUuQSV8hBgx6zoI1ZSGORprDFux7c6rhc77QZMSRrEgomBeklervEve
86ylWmZ3WWHV6RLMi8xNvjd71r4EPIGgY7BZU/VPBkq+uA7Gb6mbJnFgV43uh3xy
LRFgxIAphIukwTGSMZZR+AI+Qnp0BYTWovHXozOf3H8r6hozEoT02JHn0AeTfA==
-----END CERTIFICATE-----
 2 s:C = US, O = ISRG, CN = Root YR
   i:C = US, O = Internet Security Research Group, CN = ISRG Root X1
   a:PKEY: rsaEncryption, 4096 (bit); sigalg: RSA-SHA256
   v:NotBefore: May 13 00:00:00 2026 GMT; NotAfter: Sep  2 23:59:59 2032 GMT
-----BEGIN CERTIFICATE-----
MIIF9DCCA9ygAwIBAgIRAPJLbRf52a18scn+p4eCaZ8wDQYJKoZIhvcNAQELBQAw
TzELMAkGA1UEBhMCVVMxKTAnBgNVBAoTIEludGVybmV0IFNlY3VyaXR5IFJlc2Vh
cmNoIEdyb3VwMRUwEwYDVQQDEwxJU1JHIFJvb3QgWDEwHhcNMjYwNTEzMDAwMDAw
WhcNMzIwOTAyMjM1OTU5WjAuMQswCQYDVQQGEwJVUzENMAsGA1UEChMESVNSRzEQ
MA4GA1UEAxMHUm9vdCBZUjCCAiIwDQYJKoZIhvcNAQEBBQADggIPADCCAgoCggIB
ANvGJnN78CTJdWL3+eGfsLN5TrNBJs+VH9hRXqRbwxu9sGNiB0BD1fcOxbSUQCJI
M1xE13Db+5Cw1w0s0EBYsvuIP/6joF0w8cuImbgR1OGgYbSQ4OpzI+DG8SGuTlcE
873OCS+kh3srlo6vl43M5OJg4Aeo1sfHp6kTJDoIiFBNJAY+OKfX/FUvYKuhjT+n
o49lmqmupSBI5PkBQiqrEGtWU5uxU/cQWHGu8jSjFBznZqvbNPLMXMLFxCb3WTfr
JBXXjqvWG+v4bjzxjjeAtOlU7qarRDvNOyAuQYLln904M+faKx8hnLCpJ15ZqaEg
cNlY+9MMWcC5yvL2A2j3l9+2buggZX+dOE91zYmIdawTvSZuVvlbRrAlLxIB6pwM
BjneXCjYQ8+3BCCjssbSNpZU3hTcBDdhfAlEDlYr6pEatnMdmDT5BqnKC92bd0Eh
M1fbLHioLccLCuievT8ZkPhZrq7Mii7gNXAcUEAR8+lzYal+9zTg7C5DALyVOeG/
CqfRAMn1KSHCR0NSA6P8tn/mGRlnCct5rtVCLnVySVpU6H1qGg3DgTOuskf8eahT
MiYbI5ezPJmO5ertalskQ1utp74+eDy92PI4ftHKTbq9IWhH4YZKh3WnJEIt+oQv
lYZbY8tpEroKrFB6PFGzrJIDRyts4HqvuH52RFj2zv/BAgMBAAGjgeswgegwDgYD
VR0PAQH/BAQDAgEGMBMGA1UdJQQMMAoGCCsGAQUFBwMBMA8GA1UdEwEB/wQFMAMB
Af8wHQYDVR0OBBYEFN7nW2DQIm1AKH0/DQH+pLVStFGUMB8GA1UdIwQYMBaAFHm0
```

### IPV6 Connection

| | |
|---|---|
| **IP Used** | 2a04:4e42::380 |
| **IP Version** | 6 |

```
depth=3 C = US, O = Internet Security Research Group, CN = ISRG Root X1
verify return:1
depth=2 C = US, O = ISRG, CN = Root YR
verify return:1
depth=1 C = US, O = Let's Encrypt, CN = YR2
verify return:1
depth=0 CN = guardian.com.my
verify return:1
CONNECTED(00000010)
---
Certificate chain
 0 s:CN = guardian.com.my
   i:C = US, O = Let's Encrypt, CN = YR2
   a:PKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA256
   v:NotBefore: Jul  7 11:36:59 2026 GMT; NotAfter: Oct  5 11:36:58 2026 GMT
-----BEGIN CERTIFICATE-----
MIIFJjCCBA6gAwIBAgISBcDBsicfRU1k20KoSebUIl+cMA0GCSqGSIb3DQEBCwUA
MDMxCzAJBgNVBAYTAlVTMRYwFAYDVQQKEw1MZXQncyBFbmNyeXB0MQwwCgYDVQQD
EwNZUjIwHhcNMjYwNzA3MTEzNjU5WhcNMjYxMDA1MTEzNjU4WjAaMRgwFgYDVQQD
Ew9ndWFyZGlhbi5jb20ubXkwggEiMA0GCSqGSIb3DQEBAQUAA4IBDwAwggEKAoIB
AQDRRxyMnq18D/dWTcZlZals1BtucWdN4vAffgkmPoX38hUL7YLSLFllzDXm3NL+
KzHEHIq0lTIfrkiqp6nWRRNnmUiRX0XsdTVH71l/m5M1adg5DxyU/tdfDPyP/Nn2
xCQ3uRMV7q6lDWgyXAJmL9F7merrAdZybvYPuz5wahtUa8d9zsjqefjgCUFOep9H
mUa37XbW2gDUlshAa2/RqQtfW1V71WeLiV97QyjYdi9H8qX4eLQFiqgmZyjU/dv6
Z1/xGCpvZRk3VCqH2dDgzG8vuY8Dp1I1avM+cPlB93gK2pDNRHutBjwyMQF92EVZ
JyIW0d+o2CeVAFfa5WoN+OqhAgMBAAGjggJLMIICRzAOBgNVHQ8BAf8EBAMCBaAw
EwYDVR0lBAwwCgYIKwYBBQUHAwEwDAYDVR0TAQH/BAIwADAdBgNVHQ4EFgQUvt/r
rVX0hAWLhzLkFXC8PpmXYaswHwYDVR0jBBgwFoAUQBUtJnntMiCe35pyHdYyH4EM
gQwwMwYIKwYBBQUHAQEEJzAlMCMGCCsGAQUFBzAChhdodHRwOi8veXIyLmkubGVu
Y3Iub3JnLzBHBgNVHREEQDA+gg9ndWFyZGlhbi5jb20ubXmCFm1jcHJvZC5ndWFy
ZGlhbi5jb20ubXmCE3d3dy5ndWFyZGlhbi5jb20ubXkwEwYDVR0gBAwwCjAIBgZn
gQwBAgEwLgYDVR0fBCcwJTAjoCGgH4YdaHR0cDovL3lyMi5jLmxlbmNyLm9yZy8y
OS5jcmwwggENBgorBgEEAdZ5AgQCBIH+BIH7APkAdgCvZ4g7V7BO3Y+m2X72Lqjr
gQrHcWDwJF5V1gwv54WHOgAAAZ88k4pmAAAEAwBHMEUCIQDfa32BsedA3yp+fChB
kh5TKBUl6luASBhEppW22CB2xwIgES3Xxiv9onBfKVeYo8qEqC3DcII8JmwJL+/K
ucreQAAAfwAm42RuWGkhI7w0P0ckNZs3ks0kWojYFdOTM/2ZGKtHIwAAAZ88k4dv
AAgAAAUAJneZmAQDAEgwRgIhAJuaOyeU0iRGcaa9SsANo5LQG9hwibuNqzse20l/
OoIuAiEAznwgIQsr3cC0joH6uL9mdTzVGv5cTHiag4zSPhxHXdAwDQYJKoZIhvcN
AQELBQADggEBAIZ4DT+Simd5FRnyn8c/qOFoVQzrZJul3SRJSykbbkayHO2UIkGU
e1GR9iIZh+BwJLrO+O3wszJNuIeTJh0QQlkRMtG4viij7yJZCiNvuWusA5A+1Jx5
SY6bHZcKGVxGQjVImX4agTP9aYuiaQeBs8YWFvPiVLWr7qIqOEMUdrPC2fEAEQ5w
TCMMgM5Rml6S/kIalcIJ21Mgmh82IgFOwff4xWTvfGEDQj8LVXbfCWkRzAW03KYn
X04hJlinkFj0byjgdc0LO/0koN7MfnStCPAIfhXDCnfq5LT46Qff909vMK9Ytn77
p4YjKODyY1km9p7LBZ0NF+gYFaFMVB581Os=
-----END CERTIFICATE-----
```

```
 1 s:C = US, O = Let's Encrypt, CN = YR2
   i:C = US, O = ISRG, CN = Root YR
   a:PKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA256
   v:NotBefore: Sep  3 00:00:00 2025 GMT; NotAfter: Sep  2 23:59:59 2028 GMT
-----BEGIN CERTIFICATE-----
MIIE2jCCAsKgAwIBAgIQTr0klH4k05SALYSlL9WzGTANBgkqhkiG9w0BAQsFADAu
MQswCQYDVQQGEwJVUzENMAsGA1UEChMESVNSRzEQMA4GA1UEAxMHUm9vdCBZUjAe
Fw0yNTA5MDMwMDAwMDBaFw0yODA5MDIyMzU5NTlaMDMxCzAJBgNVBAYTAlVTMRYw
FAYDVQQKEw1MZXQncyBFbmNyeXB0MQwwCgYDVQQDEwNZUjIwggEiMA0GCSqGSIb3
DQEBAQUAA4IBDwAwggEKAoIBAQDZ0LxwBppqh84luqMerV/eeL/fXQ7mLQQv1Lnp
WKZbyvGpx6wh6AfnslAnF6ewTkcHA+gSOoBvm3Dfm06AuGiF+KRut4fAcowqnAQQ
CW98+QPP/eOv/wug7Iyk4NkOxf2I6g2f55T6nJoOTLFcukeRq80JGQEYan+dPFr9
OGUgQK2hGKgNkW87pappsOAuUJcroYhRt5uUis4qaZireiseu32gzDJNBAiKtsvd
6HX4v25bpkRNcS/B/Gtc9kVbUpD+2PLPxdei3Tim55k4tfAEXwD2qyiPTxrTNq6l
N+AMr5g2c1dNqkOTwjxeV6L5lpP1rGiYvLnRaPlOqyZRPW+5AgMBAAGjge4wgesw
DgYDVR0PAQH/BAQDAgGGMBMGA1UdJQQMMAoGCCsGAQUFBwMBMBIGA1UdEwEB/wQI
MAYBAf8CAQAwHQYDVR0OBBYEFEAVLSZ57TIgnt+ach3WMh+BDIEMMB8GA1UdIwQY
MBaAFN7nW2DQIm1AKH0/DQH+pLVStFGUMDIGCCsGAQUFBwEBBCYwJDAiBggrBgEF
BQcwAoYWaHR0cDovL3lyLmkubGVuY3Iub3JnLzATBgNVHSAEDDAKMAgGBmeBDAEC
ATAnBgNVHR8EIDAeMBygGqAYhhZodHRwOi8veXIuYy5sZW5jci5vcmcvMA0GCSqG
SIb3DQEBCwUAA4ICAQB0ZUQWZ9/Yn9COEpo+JfecMnB0h0vwDm/M66IqXqw3LoaL
mx9lZvRTeDIS67PUeI3yCA2W6PKRD0/FE/G57lOmS+Xy5AaaL00ICGOqjNcCaMWW
8o8nevHOd4i4lqgtznE/28QwlcdJyF8yBiWHpnyjhEpmNWJURgOCOg2xpwRMBCsj
MScqYPtOhBeuYQvSwAEeTML2Ukh6uGuX4E14q65Ja8cdjF5bAldnP1eE4FBaAwsZ
G2fOqqrKV03Y85Nw2btedP1AtliQuJZs/Jo/gXxXdc7LrH3McgnpnbTiAncX7yES
hP6kzQejllqMCIt52HOjxDGWafS7Xw+DKwqmH+Eqy8dcbOuag/1AYlQoKNVK3F5q
Hh6tEDiMqQcLIibGKteE6iHo4A/bIScbzrhXUYuism42ZYzmc48FMVIH3qy4L84E
TdAH2gtxw0PAhvRVXp8HP7wfngpzsN/8xOTpeRSbM4+Qbc56G6+Bifmv6sk1ieQb
NA3wJdl4DDUuQSV8hBgx6zoI1ZSGORprDFux7c6rhc77QZMSRrEgomBeklervEve
86ylWmZ3WWHV6RLMi8xNvjd71r4EPIGgY7BZU/VPBkq+uA7Gb6mbJnFgV43uh3xy
LRFgxIAphIukwTGSMZZR+AI+Qnp0BYTWovHXozOf3H8r6hozEoT02JHn0AeTfA==
-----END CERTIFICATE-----
 2 s:C = US, O = ISRG, CN = Root YR
   i:C = US, O = Internet Security Research Group, CN = ISRG Root X1
   a:PKEY: rsaEncryption, 4096 (bit); sigalg: RSA-SHA256
   v:NotBefore: May 13 00:00:00 2026 GMT; NotAfter: Sep  2 23:59:59 2032 GMT
-----BEGIN CERTIFICATE-----
MIIF9DCCA9ygAwIBAgIRAPJLbRf52a18scn+p4eCaZ8wDQYJKoZIhvcNAQELBQAw
TzELMAkGA1UEBhMCVVMxKTAnBgNVBAoTIEludGVybmV0IFNlY3VyaXR5IFJlc2Vh
cmNoIEdyb3VwMRUwEwYDVQQDEwxJU1JHIFJvb3QgWDEwHhcNMjYwNTEzMDAwMDAw
WhcNMzIwOTAyMjM1OTU5WjAuMQswCQYDVQQGEwJVUzENMAsGA1UEChMESVNSRzEQ
MA4GA1UEAxMHUm9vdCBZUjCCAiIwDQYJKoZIhvcNAQEBBQADggIPADCCAgoCggIB
ANvGJnN78CTJdWL3+eGfsLN5TrNBJs+VH9hRXqRbwxu9sGNiB0BD1fcOxbSUQCJI
M1xE13Db+5Cw1w0s0EBYsvuIP/6joF0w8cuImbgR1OGgYbSQ4OpzI+DG8SGuTlcE
873OCS+kh3srlo6vl43M5OJg4Aeo1sfHp6kTJDoIiFBNJAY+OKfX/FUvYKuhjT+n
o49lmqmupSBI5PkBQiqrEGtWU5uxU/cQWHGu8jSjFBznZqvbNPLMXMLFxCb3WTfr
JBXXjqvWG+v4bjzxjjeAtOlU7qarRDvNOyAuQYLln904M+faKx8hnLCpJ15ZqaEg
cNlY+9MMWcC5yvL2A2j3l9+2buggZX+dOE91zYmIdawTvSZuVvlbRrAlLxIB6pwM
BjneXCjYQ8+3BCCjssbSNpZU3hTcBDdhfAlEDlYr6pEatnMdmDT5BqnKC92bd0Eh
M1fbLHioLccLCuievT8ZkPhZrq7Mii7gNXAcUEAR8+lzYal+9zTg7C5DALyVOeG/
CqfRAMn1KSHCR0NSA6P8tn/mGRlnCct5rtVCLnVySVpU6H1qGg3DgTOuskf8eahT
MiYbI5ezPJmO5ertalskQ1utp74+eDy92PI4ftHKTbq9IWhH4YZKh3WnJEIt+oQv
lYZbY8tpEroKrFB6PFGzrJIDRyts4HqvuH52RFj2zv/BAgMBAAGjgeswgegwDgYD
VR0PAQH/BAQDAgEGMBMGA1UdJQQMMAoGCCsGAQUFBwMBMA8GA1UdEwEB/wQFMAMB
Af8wHQYDVR0OBBYEFN7nW2DQIm1AKH0/DQH+pLVStFGUMB8GA1UdIwQYMBaAFHm0
```

## HTTP Response Evidence

### IPv4 HTTP (port 80)

| | |
|---|---|
| **HTTP Status** | 200 |
| **Connected IP** | 151.101.1.124 |
| **Connect Time** | 3.87 ms |
| **TTFB** | 13.13 ms |
| **Total Time** | 13.28 ms |

**Response Headers:**


```
{
    "0": "HTTP/1.1 301 Moved Permanently",
    "1": "Connection: close",
    "2": "Content-Length: 0",
    "3": "Retry-After: 0",
    "4": "Location: https://guardian.com.my/",
    "5": "Accept-Ranges: bytes",
    "6": "Date: Sat, 08 Aug 2026 10:28:57 GMT",
    "7": "X-Served-By: cache-kul9820-KUL",
    "8": "X-Cache: HIT",
    "9": "X-Cache-Hits: 0",
    "10": "X-Timer: S1786184937.054890,VS0,VE0",
    "11": "Vary:",
    "12": "Strict-Transport-Security: max-age=31557600",
    "14": "HTTP/2 200",
    "15": "x-frame-options: SAMEORIGIN",
    "16": "x-platform-server: i-0b4f8253f2c58ab2d",
    "17": "x-platform-server: i-0b4f8253f2c58ab2d",
    "18": "x-content-type-options: nosniff",
    "19": "cache-control: max-age=259200",
    "20": "traceresponse: 00-18c962692af9379df47bb69716222ff7-0c0d3ed9a7d8fc42-01",
    "21": "x-debug-info: eyJyZXRyaWVzIjowfQ==",
    "22": "x-xss-protection: 1; mode=block",
    "23": "content-security-policy: script-src http: https: https://guardian.com.my  'unsafe-eval' 'unsafe-inline' https://connect.facebook.net
https://static.zdassets.com https://ekr.zdassets.com https://ekr.zendesk.com https://123456.zendesk.com https://*.zopim.com https://zendesk-eu.my.sentry.io
https://v2assets.zopim.io wss://123456.zendesk.com https://analytics.tiktok.com wss://*.zopim.com *.qgr.ph *.scarabresearch.com https://www.instagram.com
https://www.tiktok.com wss://*.tiktok.com; style-src 'self' blob: https: 'unsafe-inline' https://guardian.com.my; img-src data: http: https:; object-src 'none';
base-uri 'none'; child-src 'self'; font-src data: 'self' fonts.gstatic.com  dsf-cdn.loreal.io; frame-src *.facebook.com *.google.com assets.braintreegateway.com
*.youtube.com *.youtu.be *.vimeo.com *.guardianmy.me play.guardian.com.my dsf-cdn-staging.loreal.io 6493187.fls.doubleclick.net *.tiktok.com *.instagram.com
guardiancatalogue.com online.fliphtml5.com/zzjmp/dkbh/;",
    "24": "x-robots-tag: INDEX,FOLLOW",
    "25": "x-timer: S1786066931.060533,VS0,VE80",
    "26": "content-type: text/html;charset=UTF-8",
    "27": "accept-ranges: bytes",
    "28": "date: Sat, 08 Aug 2026 10:28:57 GMT",
    "29": "age: 118006",
    "30": "x-served-by: cache-sin-wsat1880075-SIN, cache-sin-wsat1880075-SIN, cache-sin-wsat1880075-SIN, cache-kul9826-KUL",
    "31": "x-cache: MISS, HIT, HIT",
    "32": "x-cache-hits: 0, 50, 2",
    "33": "vary: Accept-Encoding,Cookie",
    "34": "strict-transport-security: max-age=31557600",
    "35": "content-length: 95599"
}
```


### IPv6 HTTP (port 80)

| | |
|---|---|
| **HTTP Status** | 301 |
| **Connected IP** | 2a04:4e42::380 |
| **Connect Time** | 0.94 ms |
| **TTFB** | 3.54 ms |
| **Total Time** | 4.72 ms |
| **Error** | Could not resolve host: guardian.com.my |

**Response Headers:**


```
[
    "HTTP/1.1 301 Moved Permanently",
    "Connection: close",
    "Content-Length: 0",
    "Retry-After: 0",
    "Location: https://guardian.com.my/",
```

```
    "Accept-Ranges: bytes",
    "Date: Sat, 08 Aug 2026 10:28:57 GMT",
    "X-Served-By: cache-kul9825-KUL",
    "X-Cache: HIT",
    "X-Cache-Hits: 0",
    "X-Timer: S1786184937.038967,VS0,VE0",
    "Vary:",
    "Strict-Transport-Security: max-age=31557600"
]
```


### IPv4 HTTPS (port 443)

| | |
|---|---|
| **HTTP Status** | 200 |
| **Connected IP** | 151.101.193.124 |
| **Connect Time** | 0.71 ms |
| **TTFB** | 5.83 ms |
| **Total Time** | 5.85 ms |

**Response Headers:**


```
[
    "HTTP/2 200",
    "x-frame-options: SAMEORIGIN",
    "x-platform-server: i-0b4f8253f2c58ab2d",
    "x-platform-server: i-0b4f8253f2c58ab2d",
    "x-content-type-options: nosniff",
    "cache-control: max-age=259200",
    "traceresponse: 00-18c962692af9379df47bb69716222ff7-0c0d3ed9a7d8fc42-01",
    "x-debug-info: eyJyZXRyaWVzIjowfQ==",
    "x-xss-protection: 1; mode=block",
    "content-security-policy: script-src http: https: https://guardian.com.my  'unsafe-eval' 'unsafe-inline' https://connect.facebook.net https://static.zdassets.com
https://ekr.zdassets.com https://ekr.zendesk.com https://123456.zendesk.com https://*.zopim.com https://zendesk-eu.my.sentry.io https://v2assets.zopim.io
wss://123456.zendesk.com https://analytics.tiktok.com wss://*.zopim.com *.qgr.ph *.scarabresearch.com https://www.instagram.com https://www.tiktok.com
wss://*.tiktok.com; style-src 'self' blob: https: 'unsafe-inline' https://guardian.com.my; img-src data: http: https:; object-src 'none'; base-uri 'none'; child-src
'self'; font-src data: 'self' fonts.gstatic.com  dsf-cdn.loreal.io; frame-src *.facebook.com *.google.com assets.braintreegateway.com *.youtube.com *.youtu.be
*.vimeo.com *.guardianmy.me play.guardian.com.my dsf-cdn-staging.loreal.io 6493187.fls.doubleclick.net *.tiktok.com *.instagram.com guardiancatalogue.com
online.fliphtml5.com/zzjmp/dkbh/;",
    "x-robots-tag: INDEX,FOLLOW",
    "x-timer: S1786066931.060533,VS0,VE80",
    "content-type: text/html;charset=UTF-8",
    "accept-ranges: bytes",
    "date: Sat, 08 Aug 2026 10:28:57 GMT",
    "age: 118005",
    "x-served-by: cache-sin-wsat1880075-SIN, cache-sin-wsat1880075-SIN, cache-sin-wsat1880075-SIN, cache-kul9825-KUL",
    "x-cache: MISS, HIT, HIT",
    "x-cache-hits: 0, 50, 3",
    "vary: Accept-Encoding,Cookie",
    "strict-transport-security: max-age=31557600",
    "content-length: 95599"
]
```


### IPv6 HTTPS (port 443)

| | |
|---|---|
| **HTTP Status** | 200 |
| **Connected IP** | 2a04:4e42::380 |
| **Connect Time** | 0.86 ms |
| **TTFB** | 10.05 ms |
| **Total Time** | 10.11 ms |

**Response Headers:**


```
[
    "HTTP/2 200",
    "x-frame-options: SAMEORIGIN",
    "x-platform-server: i-0b4f8253f2c58ab2d",
    "x-platform-server: i-0b4f8253f2c58ab2d",
    "x-content-type-options: nosniff",
    "cache-control: max-age=259200",
    "traceresponse: 00-18c962692af9379df47bb69716222ff7-0c0d3ed9a7d8fc42-01",
    "x-debug-info: eyJyZXRyaWVzIjowfQ==",
    "x-xss-protection: 1; mode=block",
    "content-security-policy: script-src http: https: https://guardian.com.my  'unsafe-eval' 'unsafe-inline' https://connect.facebook.net https://static.zdassets.com
https://ekr.zdassets.com https://ekr.zendesk.com https://123456.zendesk.com https://*.zopim.com https://zendesk-eu.my.sentry.io https://v2assets.zopim.io
```

wss://123456.zendesk.com https://analytics.tiktok.com wss://*.zopim.com *.qgr.ph *.scarabresearch.com https://www.instagram.com https://www.tiktok.com wss://*.tiktok.com; style-src 'self' blob: https: 'unsafe-inline' https://guardian.com.my; img-src data: http: https:; object-src 'none'; base-uri 'none'; child-src 'self'; font-src data: 'self' fonts.gstatic.com  dsf-cdn.loreal.io; frame-src *.facebook.com *.google.com assets.braintreegateway.com *.youtube.com *.youtu.be *.vimeo.com *.guardianmy.me play.guardian.com.my dsf-cdn-staging.loreal.io 6493187.fls.doubleclick.net *.tiktok.com *.instagram.com guardiancatalogue.com online.fliphtml5.com/zzjmp/dkbh/;",
    "x-robots-tag: INDEX,FOLLOW",
    "x-timer: S1786066931.060533,VS0,VE80",
    "content-type: text/html;charset=UTF-8",
    "accept-ranges: bytes",
    "date: Sat, 08 Aug 2026 10:28:57 GMT",
    "age: 118005",
    "x-served-by: cache-sin-wsat1880075-SIN, cache-sin-wsat1880075-SIN, cache-sin-wsat1880075-SIN, cache-kul9829-KUL",
    "x-cache: MISS, HIT, HIT",
    "x-cache-hits: 0, 50, 1",
    "vary: Accept-Encoding,Cookie",
    "strict-transport-security: max-age=31557600",
    "content-length: 95599"
]

## Connectivity Test Evidence

| Test | Result |
|---|---|
| **TCP Connect IPv4 → port 80** | 301 0.001757 0.008235 |
| **TCP Connect IPv6 → port 80** | 301 0.000909 0.003053 |
| **TCP Connect IPv4 → port 443** | 200 0.000886 0.019391 |
| **TCP Connect IPv6 → port 443** | 200 0.000821 0.019071 |

## Test Node Network Evidence

| | |
|---|---|
| **Node Profile** | dual stack |

### Egress Connectivity

| | |
|---|---|
| **IPv4 Egress** | unreachable |
| **IPv6 Egress** | unreachable |

### 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
```