


# IPv6 Readiness Report

kwongwah.com.my — kwongwah.com.my

Category: News Portal • Generated: 20 Apr 2026, 21:07 MYT • Last Checked: 07 Mar 2026, 01:18 MYT • Verification ID: 4cc49a51-fc28-404c-a769-cd9d5fc25e1c

Report generated from National IPv6 Readiness Monitor — <https://ipv6.my6.my>

Audit trail: <https://ipv6.my6.my/audit/4cc49a51-fc28-404c-a769-cd9d5fc25e1c>

 <b>Partially Compliant</b> <small>MGv6C-1.0</small>	<b>78%</b> <b>Partial Support</b>	<b>IPv6-ONLY READINESS</b> Website: <span style="color: green;">✓ Ready</span> DNS: <span style="color: green;">✓ Ready</span> Email: <span style="color: red;">✗ Not Ready</span>
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<b>IPv6 ADDRESSES</b> 2606:4700:20::681a:72b 2606:4700:20::681a:62b 2606:4700:20::ac43:49ab	<b>IPv4 ADDRESSES</b> 172.67.73.171 104.26.6.43 104.26.7.43
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## 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%) <span style="float: right;">8 / 8</span>			
#	CHECK	RESULT	DETAIL
1	<b>AAAA Record</b>	<span style="color: green;">PASS</span>	2606:4700:20::681a:72b, 2606:4700:20::681a:62b, 2606:4700:20::ac43:49ab
2	<b>Globally Routable IPv6</b>	<span style="color: green;">PASS</span>	All addresses are globally routable.
3	<b>HTTP over IPv6</b>	<span style="color: green;">PASS</span>	HTTP (port 80) responds over IPv6 — 161ms TTFB.
4	<b>HTTPS over IPv6</b>	<span style="color: green;">PASS</span>	HTTPS (port 443) responds over IPv6 — 332ms TTFB.
5	<b>IPv6-Only Reachability</b>	<span style="color: green;">PASS</span>	Site is fully reachable via IPv6-only.
6	<b>TLS Certificate Valid (IPv6)</b>	<span style="color: green;">PASS</span>	Certificate valid — issued by C = US, O = Google Trust Services, CN = WE1, expires Apr 14 13:35:00 2026 GMT
7	<b>Dual-Stack (IPv4 + IPv6)</b>	<span style="color: green;">PASS</span>	Domain has both A and AAAA records.
8	<b>HTTP/3 (QUIC)</b>	<span style="color: green;">PASS</span>	Alt-Svc: h3 header detected.

DNS & DNSSEC (25%) <span style="float: right;">3 / 5</span>			
#	CHECK	RESULT	DETAIL
1	<b>NS Has AAAA Record</b>	<span style="color: green;">PASS</span>	Nameserver has IPv6 address.
2	<b>NS Reachable via IPv6</b>	<span style="color: green;">PASS</span>	Nameserver is reachable via IPv6 on port 53.
3	<b>NS Answers Queries via IPv6</b>	<span style="color: green;">PASS</span>	DNS queries answered over IPv6.
4	<b>DNSSEC Validated</b>	<span style="color: red;">FAIL</span>	DNSSEC validation failed or zone is unsigned.
5	<b>Reverse DNS (PTR)</b>	<span style="color: red;">FAIL</span>	No PTR record found.
6	<b>DS Record at Parent</b>	<span style="color: red;">FAIL</span>	No DS record at parent.
7	<b>RRSIG Valid</b>	<span style="color: green;">PASS</span>	RRSIG signatures are current and valid.

#	CHECK	RESULT	DETAIL
8	<b>Signing Algorithm</b>	<b>INFO</b>	ECDSAP256SHA256

**Email Services** (25%) 3 / 6

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

**IPv4 Baseline** (15%) 3 / 3

#	CHECK	RESULT	DETAIL
1	<b>A Record</b>	<b>PASS</b>	172.67.73.171, 104.26.6.43, 104.26.7.43
2	<b>HTTP over IPv4</b>	<b>PASS</b>	HTTP (port 80) responds over IPv4 — 165ms TTFB.
3	<b>HTTPS over IPv4</b>	<b>PASS</b>	HTTPS (port 443) responds over IPv4 — 330ms TTFB.

### Audit Trail & Evidence Record

Verification ID	4cc49a51-fc28-404c-a769-cd9d5fc25e1c
Domain	kwongwah.com.my
Check Mode	Manual
Status	Completed
Started	07 Mar 2026, 01:18:02 MYT
Finished	07 Mar 2026, 01:18:10 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/4cc49a51-fc28-404c-a769-cd9d5fc25e1c

### Integrity Verification

<b>✓ INTEGRITY VERIFIED</b>	
Algorithm	hmac-sha256-v1
Root Hash	20c96cabcff5230371e46702b849737d418718efd6f82c25807588543d77ad31
http_headers	11673ce195a0fc2c49783920ebb92800f20445e8d628d5a620a0c0c872d04d69
dns_responses	94aec0552bcacf08dfbd4c6fcad67fd41244a1da97fdd17247709e0147d010986
tls_handshake	f7c83aff73b9d15102fa5608c906826044913e65efcfabb18a0e1856a322b4ca
connectivity_log	aa6e4a247d6741e5e30678500cbfc41b2454e8db9c32bb577d7e741142ca6cf8
dns_resolution_times	547f1fa1d314a3a93041dc7f2f777b87f1ff12cdb92a0fecb4aa21c5e5a86d43

### Test Node Identity

Os	Linux srv1440888 6.8.0-101-generic #101-Ubuntu SMP PREEMPT_DYNAMIC Mon Feb 9 10:15:05 UTC 2026 x86_64
Hostname	srv1440888
Php Version	8.3.30
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	16.78	16.93	6.03	6.97	-10.8
Google	IPv4	20.04	28.98	22.02	39.28	+2
Google	IPv6	28.33	45.24	21.94	25.14	-6.4
Cloudflare	IPv4	8.01	24.64	8.01	8.44	0
Cloudflare	IPv6	24.5	30.23	20.87	25.91	-3.6



## DNS Evidence

### A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 48885
;; flags: qr rd ra; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
kwongwah.com.my. 300 IN A 172.67.73.171
kwongwah.com.my. 300 IN A 104.26.6.43
kwongwah.com.my. 300 IN A 104.26.7.43
```

### DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 14475
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
com.my. 1800 IN SOA b.nic.my. hostmaster.nic.my. 2026018483 1800 900 604800 3600
```

### MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 17102
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
kwongwah.com.my. 300 IN MX 10 kmail3.kwongwah.com.my.
```

### NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 25220
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
kwongwah.com.my. 21600 IN NS tom.ns.cloudflare.com.
kwongwah.com.my. 21600 IN NS erin.ns.cloudflare.com.
```

### TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 53038
;; flags: qr rd ra; QUERY: 1, ANSWER: 6, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
kwongwah.com.my. 300 IN TXT "ca3-e3fc9f992e10459cbb34ad3981a26db6"
kwongwah.com.my. 300 IN TXT "google-site-verification=_gyj_DsMtYPS03-e79tNg3Rf1I4LREZ-r-C83b25pYA -all"
kwongwah.com.my. 300 IN TXT "google-site-verification=qHfJ0dw7asRGIKnQPAbavdr6zFjah7ULggYskVjN350"
kwongwah.com.my. 300 IN TXT "dailymotion-domain-verification=dmx76ndt4nkgcxnhd"
kwongwah.com.my. 300 IN TXT "v=spf1 include:se.mschosting.com -all"
kwongwah.com.my. 300 IN TXT "facebook-domain-verification=od0xvvoi4xnxuf3jy3t6zw2lxenca5"
```

### AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 23931
;; flags: qr rd ra; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
kwongwah.com.my. 300 IN AAAA 2606:4700:20::ac43:49ab
kwongwah.com.my. 300 IN AAAA 2606:4700:20::681a:72b
kwongwah.com.my. 300 IN AAAA 2606:4700:20::681a:62b
```

RRSIG

```
erin.ns.cloudflare.com. dns.cloudflare.com. 2397996451 10000 2400 604800 1800
SOA 13 3 1800 20260307101807 20260305081807 34505 kwongwah.com.my. 30cn/GwY9gA/85yedTEWg8HL1b86RHQESc0KgP7bLSz0QbdH3t55LtNo KVYrZWh2ZzG1cjkMVDmplgJ1DoEgtg==
```

DNSKEY

```
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 55175
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
kwongwah.com.my. 3600 IN DNSKEY 256 3 13 oJMR5z5E4gYzS/q6XDrvU1qMPYIjCwzJa0au8XNEZeqCYKD5ar0IRd8 KqXXFJkqmVfRvMGpM1x8fGAa2XhSA==
kwongwah.com.my. 3600 IN DNSKEY 257 3 13 mdsswUyr3DPW132m0i8V9xESWE8jTo0dxCjjnopKL+GqJxpVXckHAeF+ KkxLbxILfDLUT0rAK9iUzy1L53eKGQ==
```

DNSSEC\_VALIDATION

```
;; validating kwongwah.com.my/SOA: no valid signature found
; unsigned answer
kwongwah.com.my. 1800 IN SOA erin.ns.cloudflare.com. dns.cloudflare.com. 2397996451 10000 2400 604800 1800
kwongwah.com.my. 1800 IN RRSIG SOA 13 3 1800 20260307101806 20260305081806 34505 kwongwah.com.my. 2jJbaxQFxoG7eT3xfD+ncWxnC4tHo/0axL5bZlAKnRcMnb+4cvZrRIGK
3uYN/NFvUfinon/c0yB6ZK6axczBw==
```



TLS Handshake Evidence

IPV4 Connection

IP Used	172.67.73.171
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 = kwongwah.com.my
verify return:1
CONNECTED(00000010)
...
Certificate chain
0 s:CN = kwongwah.com.my
i:C = US, O = Google Trust Services, CN = WE1
a:PKKEY: id-ecPublicKey, 256 (bit); sigalg: ecdsa-with-SHA256
v:NotBefore: Jan 14 12:35:14 2026 GMT; NotAfter: Apr 14 13:35:00 2026 GMT
-----BEGIN CERTIFICATE-----
MIIDrzCCA1agAwIBAgIQ0e4v9jluFeA0q86TkGw/+zAKBggqhkJOPQDAjA7MQsw
CQYDVQQGEwJVUzEeMBwGA1UEChMVR29vZ2x1IFRydXN0IFNlcnZpY2VzMQwwCgYD
VQ0DEwNXRTEwHhcnMjYwMTE0MTIzNTE0WhcNMjYwNDE0MTMzNTAwWjAaMRgwFgYD
VQ0DEw9rd29uZ3dhaC5jb20ubXkwMTATBgqhkJOPQIBBggqhkJOPQMBBwNCAAT7
FhedKo9XQjCkRwKAZD5n5K8x3quubAlS9TYWAFm1ypz1t3f0hU6wK4ePuMh2tA3D
uBdz72Woes040NGX2TYpo4ICWzCCALcwDgYDVR0PAQH/BAQDAgeAMBGA1UdJQ0M
MAoGCCsGAQUFBwMBMAwGA1UdEwEB/wQCMAAwHQYDVRR0BBYEFD+40U1J6QHskwQk
AuPiJNRd7c73MB8GA1UdIwQYMBaAFJB3kjVnxP+ozKme9mAeXvMk/k4MF4GCCsG
AQUFBwEBBFIwUDAnBggRbGEBFQcAwYybaHR0cDovL28ucGtpLmdvb2cvcy93ZTEv
UWU0MCGCCsGAQUFBzACHhLodHRwOi8vaS5wa2kuZ29vZy93ZTEuY3J0MCGA1Ud
EQQmMCSd2t3b25nd2FolmNvbS5teYIRKi5rd29uZ3dhaC5jb20ubXkwEwYDVR0g
BAwwCjAIBgZngQwBAGewNgYDVR0fBCEwLTAroCmgJ4YlaHR0cDovL2MucGtpLmdv
b2cvd2UxL0VSNld5bzRUTTVrLmNybdCCAQQGCisGAQOB1nkCBAIEgfUEgfIA8AB2
AEmcm2neHXs/DbezYdkprhrbwqHgBnRVVL76esp3fjDAAABm7y3tFYAAQAQDAEw
R0IhA1sCIS86nx218m84J5nIvI1D4un0CQU8FzK7k5UpTcZDAiBmE/nxC+ITQIES
WoxqU65HuTiipSDL16c0ZpnokcRy0B2AA5XLLzrrqk+MxsmQez95dfm8I9cT1L
3SGpJaxhxU4hAAABm7y3tegAAAQDAEwRQIGWpbCE/zjBERUCUmCogIDtJJf85aq
706W0yQbJOUHbvcCIQCLN0vm5vjg2awidYKC+mpW0dgtiqBrixEGguETUMhYTAk
BggqhkJOPQDAgNHADBEAiAzNgyzR9VRLFwhj2Kxzh6JlYwG6VrNjMw8AQKXZMT
mwIguU0UozfTtcYQtITuUvSw7UUBpHLA6ZCdvV0UQyPss=
-----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:PKKEY: 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/MZd5csIkp2FV0TttaF4zAKBggqhkJOPQDAzBHM0sw
CQYDVQQGEwJVUzEiMCAgA1UEChMZR29vZ2x1IFRydXN0IFNlcnZpY2VzIExMQzEU
MBIGA1UEAxMLR1RTIFJvb3Q0UjQwHhcnMjYwMjMxMjE0MDEwMDEwMDEwMDEwMDEw
MDAwWjA7MQswCQYDVQQGEwJVUzEeMBwGA1UEChMVR29vZ2x1IFRydXN0IFNlcnZp
Y2VzMQwwCgYDVQQDEwNXRTEwHhcnMjYwMjMxMjE0MDEwMDEwMDEwMDEwMDEwMDEw
Z1dhTCEhdUCR127WecPQMFcF4XGGTfn1XzthkubgdnXGh0LCgP4mMTG6J7/EFmP
LCaY9eYmJbsPAvpw04H+MIH7MA4GA1UdDwEB/wQEAwIBhAdBgNVHSUEFjAUBgggr
BgEFBQcDAQYIKwYBBQUHAwIwEgYDVR0TAQH/BAgwBgEB/wIBADAdBgNVHQ4EFgQU
kHeSNwFE/6jMqeZ72YB5e8yT+TgwhYDVR0jBBgwFoAUgEw63T/Staj1dj8tT7F
avCUHYwMAYIKwYBBQUHAQEEDAmMCGCCsGAQUFBzACHhLodHRwOi8vaS5wa2ku
Z29vZy9yNC5jcnQwKwYDVR0fBCEwLTAroCmgJ4YlaHR0cDovL2MucGtpLmdvb2cv
ci9yNC5jcmwwEwYDVR0gBAwwCjAIBgZngQwBAGewNgYDVR0fBCEwLTAroCmgJ4Y
A0cCq1HW90VznX+0RGU1cxAQXomvtgM8zItPZCUF08jSBJSjz5keR0v9aYsAm5V
sQIwJonMaAFi54mrfhfFNZEfuNMSQ6/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:PKKEY: 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+UwvzMT077dghYQST2KGzANBggqhkiG9w0BAQsFADBX
M0swCQYDVQQGEwJCRTEZMBCGA1UEChMQR29vZ2x1IFRydXN0IFNlcnZpY2VzIEY0MA4GA1UE
CxMHUm9vdCBDQTEbMBkGA1UEAxMSR29vZ2x1IFRydXN0IFNlcnZpY2VzIEY0MDEwMDEw
NTA2NDMyMVoXDTI4MDEyODAwMDA0MDEwRzELMakGA1UEBHMVVMxIjAgBgNVBAoT
GUdvd2dsZSBSU0Vnd2ZlZ29uZ3dhaC5jb20ubXkwMTATBgqhkJOPQIBBggqhkJOPQ
MGBBwNCAAT7FhedKo9XQjCkRwKAZD5n5K8x3quubAlS9TYWAFm1ypz1t3f0hU6wK4e
PuMh2tA3DuBdz72Woes040NGX2TYpo4ICWzCCALcwDgYDVR0PAQH/BAQDAgeAMBGA1U
dJQ0MMAoGCCsGAQUFBwMBMAwGA1UdEwEB/wQCMAAwHQYDVRR0BBYEFD+40U1J6QHskwQk
AuPiJNRd7c73MB8GA1UdIwQYMBaAFJB3kjVnxP+ozKme9mAeXvMk/k4MF4GCCsG
AQUFBwEBBFIwUDAnBggRbGEBFQcAwYybaHR0cDovL28ucGtpLmdvb2cvcy93ZTEv
UWU0MCGCCsGAQUFBzACHhLodHRwOi8vaS5wa2kuZ29vZy93ZTEuY3J0MCGA1Ud
EQQmMCSd2t3b25nd2FolmNvbS5teYIRKi5rd29uZ3dhaC5jb20ubXkwEwYDVR0g
BAwwCjAIBgZngQwBAGewNgYDVR0fBCEwLTAroCmgJ4YlaHR0cDovL2MucGtpLmdv
b2cvd2UxL0VSNld5bzRUTTVrLmNybdCCAQQGCisGAQOB1nkCBAIEgfUEgfIA8AB2
AEmcm2neHXs/DbezYdkprhrbwqHgBnRVVL76esp3fjDAAABm7y3tFYAAQAQDAEw
R0IhA1sCIS86nx218m84J5nIvI1D4un0CQU8FzK7k5UpTcZDAiBmE/nxC+ITQIES
WoxqU65HuTiipSDL16c0ZpnokcRy0B2AA5XLLzrrqk+MxsmQez95dfm8I9cT1L
3SGpJaxhxU4hAAABm7y3tegAAAQDAEwRQIGWpbCE/zjBERUCUmCogIDtJJf85aq
706W0yQbJOUHbvcCIQCLN0vm5vjg2awidYKC+mpW0dgtiqBrixEGguETUMhYTAk
BggqhkJOPQDAgNHADBEAiAzNgyzR9VRLFwhj2Kxzh6JlYwG6VrNjMw8AQKXZMT
mwIguU0UozfTtcYQtITuUvSw7UUBpHLA6ZCdvV0UQyPss=
-----END CERTIFICATE-----
```

```

0i8vaS5wa2kuZ29vZy9nc3IxLmNydDAtBgNVHR8EJjAKMCKgIKAEhhxodHRwOi8v
Yy5wa2kuZ29vZy9yL2dzcjEuY3JsMBMGA1UdIAQMAowCAYGZ4EMAQIBMA0GCSqG
S1b3DQEBQwUAA4IBAQAQYQrsPBtYDh5bjP20BDwmkwlhIDDkic574y04tfzHpn+cJ
odID24Ssees06bDrarZ7C30ddLibZatoKivs3UL9xnELz4ct92vID24FfVbiI1hY
+5W6FoVhKNeWIP0GCBaM4C6uVdF5dTuSMVs/ZbzNnIdCp5Gxmx5eJvEau8otR/Cs
kGN+hr/W5GvT1tMBjgWKZ114//emhA1JG1BbPzoLJQvyEotc03LXjTaCzv8mEbeb
8RqZ7a2CPsgrBuvTPBwcOMBmUFeU88+FSBX6+7iP0i18b4Z0QFqIwMHfs/L6K1
vepuoxtGzi4CZ68zJpiq1UvSqTbFJjtbd4seiMHL
-----END CERTIFICATE-----
---
Server certificate
subject=CN = kwongwah.com.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 2835 bytes and written 397 bytes
Verification: OK
---
New, TLSv1.3, Cipher is TLS_AES_256_GCM_SHA384
Server public key is 256 bit
Secure Renegotiation IS NOT supported
Compression: NONE
Expansion: NONE
No ALPN negotiated

```

IPv6 Connection

IP Used	2606:4700:20::681a:72b
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 = kwongwah.com.my
verify return:1
CONNECTED(00000010)
---
Certificate chain
0 s:CN = kwongwah.com.my
  i:C = US, O = Google Trust Services, CN = WE1
  a:PKEY: id-ecPublicKey, 256 (bit); sigalg: ecdsa-with-SHA256
  v:NotBefore: Jan 14 12:35:14 2026 GMT; NotAfter: Apr 14 13:35:00 2026 GMT
-----BEGIN CERTIFICATE-----
MIIDrzCCA1agAwIBAgIQ0e4v9j1uFeA0q86TkGw/+zAKBggqhkJOPQ0DAjA7M0sw
CQYDVQQGEwJVUzEeMBwGA1UEChMVR29vZ2x1IFRydXN0IFNlcnZpY2VzMQwwCgYD
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-----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
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```

```

Z1dHTCEDhUDCR127WecPQMFcF4XGGTfn1XzthkubgdnXGh0LCgP4mMTG6J7/EFmP
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7uJW
-----END CERTIFICATE-----
2 s:C = US, 0 = Google Trust Services LLC, CN = GTS Root R4
i:C = BE, 0 = GlobalSign nv-sa, OU = Root CA, CN = GlobalSign Root CA
a:PKKEY: 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-----
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sQIUwJonMaAFi54mrfhf0FNZEfuNMSQ6/bIBiNLiyoX46FohQvKeIoJ99cx7sUkFN
7uJW
-----END CERTIFICATE-----
---
Server certificate
subject=CN = kwongwah.com.my
issuer=C = US, 0 = 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 2834 bytes and written 397 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

```





```
nel\", \"max_age\":604800, \"endpoints\": [{\"url\": \"https://a.nel.cloudflare.com/report/v4?s=gUT74SWIRA1pJnvgw%2BXnm6igyallEjwxK3nbLyXD1%2FYuQoT5j0Uy%2FG4ojQnTe%2FONPqeYiAPKRRMOg...\"},
  \"64\": \"nel: {\\\"report_to\\\": \\\"cf-nel\\\", \\\"success_fraction\\\": 0.0, \\\"max_age\\\": 604800}\",
  \"65\": \"content-security-policy: upgrade-insecure-requests\",
  \"66\": \"permissions-policy: geolocation=self\",
  \"67\": \"referrer-policy: no-referrer-when-downgrade\",
  \"68\": \"strict-transport-security: max-age=31536000\",
  \"69\": \"cf-ray: 9d80457b7a47f9e6-SIN\",
  \"70\": \"alt-svc: h3=\\\":443\\\": ma=86400\"
}
```

IPv6 HTTP (port 80)

HTTP Status	200
Connected IP	2606:4700:20::681a:62b
Connect Time	34.47 ms
TTFB	333.69 ms
Total Time	333.85 ms

Response Headers:

```
{
  \"0\": \"HTTP/1.1 301 Moved Permanently\",
  \"1\": \"Date: Fri, 06 Mar 2026 09:18:07 GMT\",
  \"2\": \"Connection: keep-alive\",
  \"3\": \"Location: https://kwongwah.com.my/\",
  \"4\": \"Speculation-Rules: \\\"/cdn-cgi/speculation\\\"\",
  \"5\": \"Report-To: {\\\"group\\\": \\\"cf-nel\\\", \\\"max_age\\\": 604800, \\\"endpoints\\\": [{\\\"url\\\": \"https://a.nel.cloudflare.com/report/v4?s=T42CFN9hmJ1Qum10yVV7tt2xtuHn%2FAt1tkaoUL8ZKj2q8%2Fk%2FGt1prX95UVXkiMG%2Fct0WALKRGi0meq...\"}]}\",
  \"6\": \"Nel: {\\\"report_to\\\": \\\"cf-nel\\\", \\\"success_fraction\\\": 0.0, \\\"max_age\\\": 604800}\",
  \"7\": \"content-security-policy: upgrade-insecure-requests\",
  \"8\": \"permissions-policy: geolocation=self\",
  \"9\": \"referrer-policy: no-referrer-when-downgrade\",
  \"10\": \"strict-transport-security: max-age=31536000\",
  \"11\": \"x-content-type-options: nosniff\",
  \"12\": \"Server: cloudflare\",
  \"13\": \"CF-RAY: 9d8045734ddcef6e-SIN\",
  \"14\": \"alt-svc: h3=\\\":443\\\": ma=86400\",
  \"16\": \"HTTP/2 301\",
  \"17\": \"date: Fri, 06 Mar 2026 09:18:07 GMT\",
  \"18\": \"content-type: text/html\",
  \"19\": \"location: http://www.kwongwah.com.my/\",
  \"20\": \"server: cloudflare\",
  \"21\": \"x-content-type-options: nosniff\",
  \"22\": \"x-frame-options: SAMEORIGIN\",
  \"23\": \"cf-cache-status: DYNAMIC\",
  \"24\": \"speculation-rules: \\\"/cdn-cgi/speculation\\\"\",
  \"25\": \"report-to: {\\\"group\\\": \\\"cf-nel\\\", \\\"max_age\\\": 604800, \\\"endpoints\\\": [{\\\"url\\\": \"https://a.nel.cloudflare.com/report/v4?s=NVNE1vMt1J32eI%2B2yND9ozmvzWGvnPtbKBFU9DI44Qaw%2FyE49uHLqcy6zimQD3i4aU5%2F4Dbq8fG0xRv6...\"}]}\",
  \"26\": \"nel: {\\\"report_to\\\": \\\"cf-nel\\\", \\\"success_fraction\\\": 0.0, \\\"max_age\\\": 604800}\",
  \"27\": \"content-security-policy: upgrade-insecure-requests\",
  \"28\": \"permissions-policy: geolocation=self\",
  \"29\": \"referrer-policy: no-referrer-when-downgrade\",
  \"30\": \"strict-transport-security: max-age=31536000\",
  \"31\": \"cf-ray: 9d8045737c4bce11-SIN\",
  \"32\": \"alt-svc: h3=\\\":443\\\": ma=86400\",
  \"34\": \"HTTP/1.1 301 Moved Permanently\",
  \"35\": \"Date: Fri, 06 Mar 2026 09:18:07 GMT\",
  \"36\": \"Connection: keep-alive\",
  \"37\": \"Location: https://www.kwongwah.com.my/\",
  \"38\": \"Speculation-Rules: \\\"/cdn-cgi/speculation\\\"\",
  \"39\": \"Report-To: {\\\"group\\\": \\\"cf-nel\\\", \\\"max_age\\\": 604800, \\\"endpoints\\\": [{\\\"url\\\": \"https://a.nel.cloudflare.com/report/v4?s=1h28PKDUm%2BP%2BswWiihgCixQtgsa32AAAAB0KoMl6pBajyFCCBmp69Y4PDVrfTJcUvnIp0hLwnT7ZJPr...\"}]}\",
  \"40\": \"Nel: {\\\"report_to\\\": \\\"cf-nel\\\", \\\"success_fraction\\\": 0.0, \\\"max_age\\\": 604800}\",
  \"41\": \"content-security-policy: upgrade-insecure-requests\",
  \"42\": \"permissions-policy: geolocation=self\",
  \"43\": \"referrer-policy: no-referrer-when-downgrade\",
  \"44\": \"strict-transport-security: max-age=31536000\",
  \"45\": \"x-content-type-options: nosniff\",
  \"46\": \"Server: cloudflare\",
  \"47\": \"CF-RAY: 9d804573cc3745df-SIN\",
  \"48\": \"alt-svc: h3=\\\":443\\\": ma=86400\",
  \"50\": \"HTTP/2 200\",
  \"51\": \"date: Fri, 06 Mar 2026 09:18:08 GMT\",
  \"52\": \"content-type: text/html; charset=utf-8\",
  \"53\": \"server: cloudflare\",
  \"54\": \"vary: Accept-Encoding\",
  \"55\": \"vary: Accept-Encoding\",
}
```



```

nel\,\max_age\":604800,\endpoints\":{\url\":"https://a.nel.cloudflare.com/report/v4?s=briBhNnMnR3hMoBCUinKmXvW3bn06JY7iSNxYg0do%2BPvrx325rmGbbiu4FXciRDBwAAZixBW2KobgfwzYR
"48": "nel: {\report_to\":"cf-nel\,\success_fraction\":0.0,\max_age\":604800}",
"49": "content-security-policy: upgrade-insecure-requests",
"50": "permissions-policy: geolocation=self",
"51": "referrer-policy: no-referrer-when-downgrade",
"52": "strict-transport-security: max-age=31536000",
"53": "cf-ray: 9d80457f59a18f82-SIN",
"54": "alt-svc: h3=\":443\"; ma=86400"
}

```

IPv6 HTTPS (port 443)

HTTP Status	200
Connected IP	2606:4700:20::681a:62b
Connect Time	26.03 ms
TTFB	333.45 ms
Total Time	333.56 ms

Response Headers:

```

{
  "0": "HTTP/2 301",
  "1": "date: Fri, 06 Mar 2026 09:18:08 GMT",
  "2": "content-type: text/html",
  "3": "location: http://www.kwongwah.com.my/",
  "4": "server: cloudflare",
  "5": "x-content-type-options: nosniff",
  "6": "x-frame-options: SAMEORIGIN",
  "7": "cf-cache-status: DYNAMIC",
  "8": "speculation-rules: \"/cdn-cgi/speculation\"",
  "9": "report-to: {\group\":"cf-
nel\,\max_age\":604800,\endpoints\":{\url\":"https://a.nel.cloudflare.com/report/v4?s=B%2BzyDPZK4XqiWTE0w5%2F160NMk0arJBBxhdL8lRIEwFLJ%2FySeJ11uwoiWeTL3K0wNngNajumjL9Q
"10": "nel: {\report_to\":"cf-nel\,\success_fraction\":0.0,\max_age\":604800}",
"11": "content-security-policy: upgrade-insecure-requests",
"12": "permissions-policy: geolocation=self",
"13": "referrer-policy: no-referrer-when-downgrade",
"14": "strict-transport-security: max-age=31536000",
"15": "cf-ray: 9d8045778effda7-SIN",
"16": "alt-svc: h3=\":443\"; ma=86400",
"18": "HTTP/1.1 301 Moved Permanently",
"19": "Date: Fri, 06 Mar 2026 09:18:08 GMT",
"20": "Connection: keep-alive",
"21": "Location: https://www.kwongwah.com.my/",
"22": "Speculation-Rules: \"/cdn-cgi/speculation\"",
"23": "Report-To: {\group\":"cf-
nel\,\max_age\":604800,\endpoints\":{\url\":"https://a.nel.cloudflare.com/report/v4?s=5h6G9TaEg%2F54WQgkSiad5q3uABrga9fHxaWIMlbf90i5rb0zo%2BwkLWWCaEeJgBnvoLy8F6hJnn8KnWmU
"24": "Nel: {\report_to\":"cf-nel\,\success_fraction\":0.0,\max_age\":604800}",
"25": "content-security-policy: upgrade-insecure-requests",
"26": "permissions-policy: geolocation=self",
"27": "referrer-policy: no-referrer-when-downgrade",
"28": "strict-transport-security: max-age=31536000",
"29": "x-content-type-options: nosniff",
"30": "Server: cloudflare",
"31": "CF-RAY: 9d804577b978f2-SIN",
"32": "alt-svc: h3=\":443\"; ma=86400",
"34": "HTTP/2 200",
"35": "date: Fri, 06 Mar 2026 09:18:08 GMT",
"36": "content-type: text/html; charset=utf-8",
"37": "server: cloudflare",
"38": "vary: Accept-Encoding",
"39": "vary: Accept-Encoding",
"40": "x-powered-by: PHP/7.2.16",
"41": "kw: alpha01",
"42": "x-cache-status: HIT",
"43": "x-content-type-options: nosniff",
"44": "x-frame-options: SAMEORIGIN",
"45": "cf-cache-status: DYNAMIC",
"46": "speculation-rules: \"/cdn-cgi/speculation\"",
"47": "report-to: {\group\":"cf-
nel\,\max_age\":604800,\endpoints\":{\url\":"https://a.nel.cloudflare.com/report/v4?s=VgWck%2FdJAVEEYmd478AKCpzPG7ZeRT2Ek5mYz0KivKgvhBDPEwdaTZdmXIjm31y3P%2BJa020dtVIzkH%2B
"48": "nel: {\report_to\":"cf-nel\,\success_fraction\":0.0,\max_age\":604800}",
"49": "content-security-policy: upgrade-insecure-requests",
"50": "permissions-policy: geolocation=self",
"51": "referrer-policy: no-referrer-when-downgrade",
"52": "strict-transport-security: max-age=31536000",
"53": "cf-ray: 9d804577fc23c6f6-SIN",
"54": "alt-svc: h3=\":443\"; ma=86400"

```

}

### Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	301 0.008316 0.035572
TCP Connect IPv6 → port 80	301 0.008463 0.025190
TCP Connect IPv4 → port 443	301 0.009603 0.111632
TCP Connect IPv6 → port 443	301 0.007365 0.128194

### Test Node Network Evidence

Node Profile	dual stack
--------------	------------

### Egress Connectivity

IPv4 Egress	76.13.221.142
IPv6 Egress	2a02:4780:5e:2789::1

### Sysctl IPv6 Flags

net.ipv6.conf.all.disable_ipv6	0
--------------------------------	---

### IPv6 Routes

```
2a02:4780:5e::/48 dev eth0 proto kernel metric 256 pref medium
fe80::/64 dev eth0 proto kernel metric 256 pref medium
default via 2a02:4780:5e::1 dev eth0 proto static metric 1024 pref medium
```

### IPv4 Routes

```
default via 76.13.221.254 dev eth0 proto static
76.13.221.0/24 dev eth0 proto kernel scope link src 76.13.221.142
```