IPv6 Readiness Report

ukm.my — ukm.my

Scan to verify

Category: Education • Generated: 02 Nov 2026, 03:08 MYT • Last Checked: 08 Aug 2026, 18:15 MYT • Verification ID: c5db0056-9e7e-4e35-9ebc-4993f24b7b54
Report generated from National IPv6 Readiness Monitor — https://ipv6.my6.my
Audit trail: https://ipv6.my6.my/audit/c5db0056-9e7e-4e35-9ebc-4993f24b7b54

✗
Non-Compliant
MGv6C-1.0

40%
No IPv6 Support

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

IPV4 ADDRESSES
`103.219.237.14`

Network Information (WHOIS / RDAP)

	IPv4 Network
Organization	UNIVERSITI KEBANGSAAN MALAYSIA
Country	MY
ASN	AS135496
ASN Name	UKM-AS-AP - UNIVERSITI KEBANGSAAN MALAYSIA, MY
Network (CIDR)	103.219.236.0/23

Web Services (35%) — 0 / 8

#	CHECK	RESULT	DETAIL
1	**AAAA Record**	FAIL	No AAAA record found in DNS.
2	**Globally Routable IPv6**	FAIL	IPv6 address is not globally routable.
3	**HTTP over IPv6**	FAIL	HTTP is not accessible over IPv6.
4	**HTTPS over IPv6**	FAIL	HTTPS is not accessible over IPv6.
5	**IPv6-Only Reachability**	FAIL	Site is not reachable when limited to IPv6-only.
6	**TLS Certificate Valid (IPv6)**	FAIL	TLS certificate is invalid, expired, or hostname mismatch over IPv6.
7	**Dual-Stack (IPv4 + IPv6)**	FAIL	Domain is IPv6-only or IPv4-only.
8	**HTTP/3 (QUIC)**	FAIL	No HTTP/3 support detected.

DNS & DNSSEC (25%) — 0 / 5

#	CHECK	RESULT	DETAIL
1	**NS Has AAAA Record**	FAIL	No nameserver has an AAAA record.
2	**NS Reachable via IPv6**	FAIL	No nameserver is reachable over IPv6.
3	**NS Answers Queries via IPv6**	FAIL	Nameserver does not answer queries 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	103.219.237.14
2	**HTTP over IPv4**	PASS	HTTP (port 80) responds over IPv4 — 1089ms TTFB.
3	**HTTPS over IPv4**	PASS	HTTPS (port 443) responds over IPv4 — 107ms TTFB.

Audit Trail & Evidence Record

Verification ID	c5db0056-9e7e-4e35-9ebc-4993f24b7b54
Domain	ukm.my
Check Mode	Manual
Status	Completed
Started	08 Aug 2026, 18:15:27 MYT
Finished	08 Aug 2026, 18:15:32 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/c5db0056-9e7e-4e35-9ebc-4993f24b7b54

Integrity Verification

✓ **INTEGRITY VERIFIED**

Algorithm	hmac-sha256-v1
Root Hash	f1210e15df116c72641c2d94900c34c5a78a71cd7406433a7f8223327dbf407e
http_headers	fe80db9bbe5a13377e8a494d890110b1194bc0af76ce785f64de2fbdc21eae3f
dns_responses	15dca7d056243284137 58f1dd245668e5cf7a20f1c3f8d00becb5fc127f4a7f6
tls_handshake	8612ba6a3fe359d7959fd9a3046d286df7f7345f82160cd667232585f15d4821
connectivity_log	2fe6fcf951c14821cb141354b3a537cf60388e7c6cfe6153ecfd29c8c53cf718
dns_resolution_times	5dc3eed53209cec442a085ba80fb041d71e49f2f3e530f59dfda248b0168eae8

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	24.18	24.6	24.97	25	+0.8
Google	IPv4	48.2	170.46	47.96	59.32	-0.2
Google	IPv6	42.15	156.85	42.28	45.42	+0.1
Cloudflare	IPv4	21.93	23.62	30.68	33.61	+8.8
Cloudflare	IPv6	39.29	43.64	29.52	40.64	-9.8

DNS Evidence

A

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 56179
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
ukm.my.□□□59040□IN□A□103.219.237.14
```

DS

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 4475
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
my.□□□3595□IN□SOA□e.nic.my. hostmaster.nic.my. 2026062860 1800 900 604800 3600
```

MX

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 9259
;; flags: qr rd ra; QUERY: 1, ANSWER: 5, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
ukm.my.□□□59040□IN□MX□10 ASPMX2.GOOGLEMAIL.COM.
ukm.my.□□□59040□IN□MX□5 ALT1.ASPMX.L.GOOGLE.COM.
ukm.my.□□□59040□IN□MX□5 ALT2.ASPMX.L.GOOGLE.COM.
ukm.my.□□□59040□IN□MX□10 ASPMX3.GOOGLEMAIL.COM.
ukm.my.□□□59040□IN□MX□1 ASPMX.L.GOOGLE.COM.
```

NS

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 19954
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 3

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
ukm.my.□□□59018□IN□NS□dns1.ukm.my.
ukm.my.□□□59018□IN□NS□dns2.ukm.my.
```

TXT

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 56799
;; flags: qr rd ra; QUERY: 1, ANSWER: 6, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
ukm.my.□□□59040□IN□TXT□"google-site-verification=vRaL7svRL_SSrqW_I7eCJlI0KBKVQeO4cPkz1YKeqTY"
ukm.my.□□□59040□IN□TXT□"google-site-verification=Nx-3VrBzA7qQ0XPaouxzTWRwHmAU8RehgzHh4yrFO6U"
ukm.my.□□□59040□IN□TXT□"MS=1394E7C154EB8B4D57F869DFE6998030FCE213FB"
ukm.my.□□□59040□IN□TXT□"brevo-code:ed12f0b80d894445ef0715485137c221"
ukm.my.□□□59040□IN□TXT□"KxM7BzX015q8k8mQ+8EbB7OvAkYvSo2sY30dscOsK/U="
ukm.my.□□□59040□IN□TXT□"v=spf1 a:smtp.ukm.my include:_spf.google.com include:spf.brevo.com include:_spf.ps.publicknowledgeproject.org ~all"
```

AAAA

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 29822
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
ukm.my.□□□3598□IN□SOA□dns1.ukm.my. server.ukm.edu.my. 2026080601 7200 1800 1209600 86400
```

RRSIG

```
dns1.ukm.my. server.ukm.edu.my. 2026080601 7200 1800 1209600 86400
```

DNSKEY

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 47324
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
ukm.my.□□□3598□IN□SOA□dns1.ukm.my. server.ukm.edu.my. 2026080601 7200 1800 1209600 86400
```

DNSSEC_VALIDATION

```
; unsigned answer
ukm.my.□□□59017□IN□SOA□dns1.ukm.my. server.ukm.edu.my. 2026080601 7200 1800 1209600 86400
```

TLS Handshake Evidence

IPV4 Connection

IP Used	103.219.237.14
IP Version	4

```
depth=2 C = GB, O = Sectigo Limited, CN = Sectigo Public Server Authentication Root R46
verify return:1
depth=1 C = GB, O = Sectigo Limited, CN = Sectigo Public Server Authentication CA OV R36
verify return:1
depth=0 C = MY, ST = Selangor, O = UNIVERSITI KEBANGSAAN MALAYSIA, CN = *.ukm.my
verify return:1
CONNECTED(00000010)
---
Certificate chain
 0 s:C = MY, ST = Selangor, O = UNIVERSITI KEBANGSAAN MALAYSIA, CN = *.ukm.my
   i:C = GB, O = Sectigo Limited, CN = Sectigo Public Server Authentication CA OV R36
   a:PKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA256
   v:NotBefore: Dec  5 00:00:00 2025 GMT; NotAfter: Jan  4 23:59:59 2027 GMT
-----BEGIN CERTIFICATE-----
MIIHIDCCBYigAwIBAgIQYj+7p3Lld41b/zISSU1fUDANBgkqhkiG9w0BAQsFADBg
MQswCQYDVQQGEwJHQjEYMBYGA1UEChMPU2VjdGlnbyBMaW1pdGVkMTcwNQYDVQQD
Ey5TZWN0aWdvIFB1YmxpYyBTZXJ2ZXIgQXV0aGVudGljYXRpb24gQ0EgT1YgUjM2
MB4XDTI1MTIwNTAwMDAwMFoXDTI3MDEwNDIzNTk1OVowXDELMAkGA1UEBhMCTVkx
ETAPBgNVBAgTCFNlbGFuZ29yMScwJQYDVQQKEx5VTklWRVJTSVRJIEtFQkFOR1NB
QU4gTUFMQVlTSUExETAPBgNVBAMMCCoudWttLm15MIIBIjANBgkqhkiG9w0BAQEF
AAOCAQ8AMIIBCgKCAQEA1XF5/kfiIImOt99Ijq8lzHiJDrI+DgiDZmqYJP7JCOUl
qhZROgVED9dEy9qjZ2qrAAC1DZzdRUth8mDOPcPEkbQ3lF6Il0d21UJ4B7rqSufR
lbYIbbuOCTXi1Y4YByHDERHnmb0Mzlxjl5sJTYPzMPF3jVNynnbu2Avfpta6uDKG
5LXVDPh9VZ7tRnG49u1YtU3KWE1jAz72lm7nxp74n5c4EoffNphfwKjjfxh7g8Hx
FH/B3t1+NftAMLtv87WeOJQx6QAvDGzEHdpJ2ze+jklXwUuNehMTpcTZRrOCLIXz
u0wTE+dHzTSQJfmoDyrbucHdJe/5De+FYsHdHIto1wIDAQABo4IDWDCCA1QwHwYD
VR0jBBgwFoAU42Z0u3BojSxdTg6mSo+bNyKcgpIwHQYDVR0OBBYEFDee20IkI6Sh
QCe8kubPGJl8vd+3MA4GA1UdDwEB/wQEAwIFoDAMBgNVHRMBAf8EAjAAMB0GA1Ud
JQQWMBQGCCsGAQUFBwMBBggrBgEFBQcDAjBKBgNVHSAEQzBBMDUGDCsGAQQBsjEB
AgEDBDAlMCMGCCsGAQUFBwIBFhdodHRwczovL3NlY3RpZ28uY29tL0NQUzAIBgZn
gQwBAgIwVAYDVR0fBE0wSzBJoEegRYZDaHR0cDovL2NybC5zZWN0aWdvLmNvbS9T
ZWN0aWdvUHVibGljU2VydmVyQXV0aGVudGljYXRpb25DQU9WUjM2LmNybDCBhAYI
KwYBBQUHAQEEeDB2ME8GCCsGAQUFBzAChkNodHRwOi8vY3J0LnNlY3RpZ28uY29t
L1NlY3RpZ29QdWJsaWNTZXJ2ZXJBdXRoZW50aWNhdGlvbkNBT1ZSMzYuY3J0MCMG
CCsGAQUFBzABhhdodHRwOi8vb2NzcC5zZWN0aWdvLmNvbTAbBgNVHREEFDASgggq
LnVrbS5teYIGdWttLm15MIIBjQYKKwYBBAHWeQIEAgSCAX0EggF5AXcAdgBgTJqv
en93XwHUBvySDciZ6wscffjJUhv6+hd3O5eLyQAAAZru3tISAAAEAwBHMEUCIDBr
iMoCAykV2lINRgh8U0a9SI9t+V/lhob8NHJX0Ay6AiEA4VUeHimzDjCL4MZIzpfe
xa2QgPz9GPqloK2EoUwlK3IAfgCOykcLrN5q86IGsKR6hLdG/h/Gv5U+JeabTuQC
SPPG6AAAAZru3tSaAAgAAAUAAFUdTwQDAEcwRQIhAK+arkCd19FQQw8vXCGkzgDF
JFl7yGBlxZ43HK6rb/yRAiAM6mwXOqZiQGA1pv9zhhY/hEbL8BZPbLl3m0fl39Bo
ZgB9AFlubDOGlLJZcqJWyKDo3ZBKdugIPdqHOwEIOCgUPO5ZAAABmu7e0boACAAA
BQAAAJLKBAMARjBEAiB2e7aJplMnO0uN3dfm8KvgNuWzIgYlzWgwlZ0dZWzERAIg
NrjCJkA0HJ3XilHn5xb5vEH7SrKfZeRa90pIMhI2keswDQYJKoZIhvcNAQELBQAD
ggGBAJXm4o47+iQF31RqNjwVlERZ0BS+OkWVyYUxvW4ssXyzFN5sSEdApyHyMQg8
VH24eIrZ0ir+sHDrgOstR3+f3Vc4ZkhENzYUTChH1G9k3Z8NmAyyBfjVU9qUMlH+
f77GIYZbaMkRN12450/PRMuAoqZFf3T8hOwjg5L0P7dfrrbUrw2X/f1gphw4H1vI
QRr8I2ZJDmsAjiujdBexVPI4YyVU50SECPw60AgOm6OfCUFdMi31IjdrDHr4VZGA
vLlVNsIM7ik0K3aytKEfYTC8RaYFPrX9j1HoK79AHarMCCNDfkwiMpWxQHpWWOLH
pInLhO9Wy96z+Je+WyrV5Q6xC/6u5gMW/sja/8dXWIYCZrZGrh/IdONyGuFFi7aN
7P6o7K0zmpImYC3ezr5jbXrh9b3NN+AkV9FePPqkKqb8I/XI6nXh5BbLk6CeyLR9
lBvz+td3gFbmGLRbEZxwwR7q1CUZp0B9okjt9CsArKTdAlpfA6RXMCWG0xey9Wq5
rcijYA==
-----END CERTIFICATE-----
 1 s:C = GB, O = Sectigo Limited, CN = Sectigo Public Server Authentication CA OV R36
   i:C = GB, O = Sectigo Limited, CN = Sectigo Public Server Authentication Root R46
   a:PKEY: rsaEncryption, 3072 (bit); sigalg: RSA-SHA384
   v:NotBefore: Mar 22 00:00:00 2021 GMT; NotAfter: Mar 21 23:59:59 2036 GMT
-----BEGIN CERTIFICATE-----
MIIGTDCCBDSgAwIBAgIQLBo8dulD3d3/GRsxiQrtcTANBgkqhkiG9w0BAQwFADBf
MQswCQYDVQQGEwJHQjEYMBYGA1UEChMPU2VjdGlnbyBMaW1pdGVkMTYwNAYDVQQD
Ey1TZWN0aWdvIFB1YmxpYyBTZXJ2ZXIgQXV0aGVudGljYXRpb24gUm9vdCBSNDYw
HhcNMjEwMzIyMDAwMDAwWhcNMzYwMzIxMjM1OTU5WjBgMQswCQYDVQQGEwJHQjEY
MBYGA1UEChMPU2VjdGlnbyBMaW1pdGVkMTcwNQYDVQQDEy5TZWN0aWdvIFB1Ymxp
YyBTZXJ2ZXIgQXV0aGVudGljYXRpb24gQ0EgT1YgUjM2MIIBojANBgkqhkiG9w0B
AQEFAAOCAY8AMIIBigKCAYEApkMtJ3R06jo0fceI0M52B7K+TyMeGcv2BQ5AVc3j
lYt76TvHIu/nNe22W/RJXX9rWUD/2GE6GF5x0V4bsY7K3IeJ8E7+KzG/TGboySfD
u+F52jqQBbY62ofhYjMeiAbLI02+FqwHeM8uIrUtcX8b2RCxF358TB0NHVccAXZc
FYgZndZCeXxjuca7pJJ20LLUnXtgXcjAE1vY4WvbReW0W6mkeZyNGdmpTcFs5Y+s
yy6LtE5Zocji9J9NlNnReox2RWVyEXpA1ChZ4gqN+ZpVSIQ0HBorVFbBKyhdZyEX
gZgNSNtBRwxqwIzJePJhYd4ZUhO1vk+/uP3nwDk0p95q/j7naXNCSvESnrHPypaB
WRK066nKfPRPi9m9kIOhMdYfS8giFRTcdgL24Ycilj7ecAK9Trh0VbjwouJ4WH+x
bt47u68ZFCD/ac55I0DNHkCpaPruj6e9Rmr7K46wZDAYXuEAqB7tGG/jd6JAA+H2
```

```
O44CV98NRsU213f1kScIZntNAgMBAAGjggGBMIIBfTAfBgNVHSMEGDAWgBRWc1hk
lfmSGrASKgRieaFAFYghSTAdBgNVHQ4EFgQU42Z0u3BojSxdTg6mSo+bNyKcgpIw
DgYDVR0PAQH/BAQDAgGGMBIGA1UdEwEB/wQIMAYBAf8CAQAwHQYDVR0lBBYwFAYI
KwYBBQUHAwEGCCsGAQUFBwMCMBsGA1UdIAQUMBIwBgYEVR0gADAIBgZngQwBAgIw
VAYDVR0fBE0wSzBJoEegRYZDaHR0cDovL2NybC5zZWN0aWdvLmNvbS9TZWN0aWdv
UHVibGljU2VydmVyQXV0aGVudGljYXRpb25Sb290UjQ2LmNybDCBhAYIKwYBBQUH
AQEEeDB2ME8GCCsGAQUFBzAChkNodHRwOi8vY3J0LnNlY3RpZ28uY29tL1NlY3Rp
Z29QdWJsaWNTZXJ2ZXJBdXRoZW50aWNhdGlvblJvb3RSNDYucDdjMCMGCCsGAQUF
BzABhhdodHRwOi8vb2NzcC5zZWN0aWdvLmNvbTANBgkqhkiG9w0BAQwFAAOCAgEA
BZXWDHWC3cubb/e1I1kzi8lPFiK/ZUoH09ufmVOrc5ObYH/XKkWUexSPqRkwKFKr
7r8OuG+p7VNB8rifX6uopqKAgsvZtZsq7iAFw04To6vNcxeBt1Eush3cQ4b8nbQR
MQLChgEAqwhuXp9P48T4QEBSksYav7+aFjNySsLYlPzNqVM3RNwvBdvp6vgDtGwc
xlKQZVuuNVIaoYyls8swhxDeSHKpRdxRauTLZ+pl+wGvy0pnrLEJGSz9mOEmfbod
e/XopR2NGqaHJ6bIjyxPu6UtyQGI26En7UAEozACrHz06Nx2jTAY9E6NeB6XuobE
wLK025ZRmvglcURG1BrV24tGHHTgxCe8M3oGlpUSMTKQ2dkgljZVYt+gKdFtWELZ
MuRdi+X3XsrR8LFz+aLUiDRfQqhmw3RxjIyVKvvu9UPYY1nsvxYmFnUSeM+2q1z/
iPUry+xDY9MC6+IhleKT094VKdFVp7LXH42+wvU+17lRolQ2mK2N/nBLVBwaIhib
QXw4VYKwB86Bc6eS6iqsc94KEgD/U4VsjmgfhK+Xp4NM+VYzTTa3QeV3p8xOM0cw
q1p8oZFA+OBcz3FYWpDIe5j0NWKlw9hXsTyPY/HeZUV59akskSOSRSmDfe8wJDPX
58uB9/7lud0G3x0pxQAcffP0ayKavNwDTw4UfJ34cEw=
-----END CERTIFICATE-----
 2 s:C = GB, O = Sectigo Limited, CN = Sectigo Public Server Authentication Root R46
   i:C = US, ST = New Jersey, L = Jersey City, O = The USERTRUST Network, CN = USERTrust RSA Certification Authority
   a:PKEY: rsaEncryption, 4096 (bit); sigalg: RSA-SHA384
   v:NotBefore: Mar 22 00:00:00 2021 GMT; NotAfter: Jan 18 23:59:59 2038 GMT
-----BEGIN CERTIFICATE-----
MIIGlTCCBH2gAwIBAgIRANJ/u8HeNZ5SFq1hSVhgmcQwDQYJKoZIhvcNAQEMBQAw
```

HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	200
Connected IP	103.219.237.14
Connect Time	25.53 ms
TTFB	974.87 ms
Total Time	975.12 ms

Response Headers:


```
{
    "0": "HTTP/1.1 301 Moved Permanently",
    "1": "Date: Sat, 08 Aug 2026 10:15:31 GMT",
    "2": "Location: http://www.ukm.my/portal",
    "3": "Cache-Control: max-age=604800",
    "4": "Expires: Sat, 15 Aug 2026 10:15:31 GMT",
    "5": "Connection: close",
    "6": "Content-Type: text/html; charset=UTF-8",
    "8": "HTTP/1.1 301 Moved Permanently",
    "9": "Date: Sat, 08 Aug 2026 10:15:31 GMT",
    "10": "Location: http://www.ukm.my/portal/",
    "11": "Cache-Control: max-age=604800",
    "12": "Expires: Sat, 15 Aug 2026 10:15:31 GMT",
    "13": "Connection: close",
    "14": "Content-Type: text/html; charset=iso-8859-1",
    "16": "HTTP/1.1 301 Moved Permanently",
    "17": "Date: Sat, 08 Aug 2026 10:15:31 GMT",
    "18": "Vary: Accept-Encoding,Cookie",
    "19": "X-Redirect-By: WordPress",
    "20": "Location: https://www.ukm.my/portal/",
    "21": "Cache-Control: max-age=604800",
    "22": "Expires: Sat, 15 Aug 2026 10:15:31 GMT",
    "23": "Connection: close",
    "24": "Content-Type: text/html; charset=UTF-8",
    "26": "HTTP/1.1 200 OK",
    "27": "Date: Sat, 08 Aug 2026 10:15:32 GMT",
    "28": "Vary: Accept-Encoding,Cookie",
    "29": "Cache-Control: max-age=3, must-revalidate",
    "30": "Cache-Control: max-age=604800",
    "31": "Expires: Sat, 15 Aug 2026 10:15:32 GMT",
    "32": "Content-Type: text/html; charset=UTF-8",
    "33": "Transfer-Encoding: chunked",
    "34": "Strict-Transport-Security:  max-age=31536000"
}
```


IPv4 HTTPS (port 443)

HTTP Status	200
Connected IP	103.219.237.14
Connect Time	19.29 ms
TTFB	113.44 ms
Total Time	113.72 ms

Response Headers:


```
{
    "0": "HTTP/1.1 301 Moved Permanently",
    "1": "Date: Sat, 08 Aug 2026 10:15:32 GMT",
    "2": "Cache-Control: max-age=604800",
    "3": "Expires: Sat, 15 Aug 2026 10:15:32 GMT",
    "4": "Connection: close",
    "5": "Content-Type: text/html; charset=UTF-8",
    "6": "Location: https://www.ukm.my/portal",
    "7": "Strict-Transport-Security:  max-age=31536000",
    "9": "HTTP/1.1 301 Moved Permanently",
    "10": "Date: Sat, 08 Aug 2026 10:15:32 GMT",
    "11": "Cache-Control: max-age=604800",
    "12": "Expires: Sat, 15 Aug 2026 10:15:32 GMT",
    "13": "Connection: close",
    "14": "Content-Type: text/html; charset=iso-8859-1",
    "15": "Location: https://www.ukm.my/portal/",
    "16": "Strict-Transport-Security:  max-age=31536000",
```

```
    "18": "HTTP/1.1 200 OK",
    "19": "Date: Sat, 08 Aug 2026 10:15:32 GMT",
    "20": "Vary: Accept-Encoding,Cookie",
    "21": "Cache-Control: max-age=3, must-revalidate",
    "22": "Cache-Control: max-age=604800",
    "23": "Expires: Sat, 15 Aug 2026 10:15:32 GMT",
    "24": "Content-Type: text/html; charset=UTF-8",
    "25": "Transfer-Encoding: chunked",
    "26": "Strict-Transport-Security:  max-age=31536000"
}
```


Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	301 0.005088 0.011843
TCP Connect IPv4 → port 443	301 0.005026 0.026799

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
```