# IPv6 Readiness Report

**monash.edu.my — monash.edu.my**

Scan to verify

Category: Education • Generated: 02 Nov 2026, 03:00 MYT • Last Checked: 08 Aug 2026, 18:32 MYT • Verification ID: 19ee3e49-2a77-4f82-858e-019c6551fe99
Report generated from National IPv6 Readiness Monitor — https://ipv6.my6.my
Audit trail: https://ipv6.my6.my/audit/19ee3e49-2a77-4f82-858e-019c6551fe99

✗
**Non-Compliant**
MGv6C-1.0

**40%**
**No IPv6 Support**

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

**IPV4 ADDRESSES**
43.245.41.240

## Network Information (WHOIS / RDAP)

| | IPv4 Network |
|---|---|
| Organization | Squiz Pty Ltd |
| Country | AU |
| ASN | AS55532 |
| ASN Name | SQUIZ-AS-AP - Squiz Pty Ltd, AU |
| Network (CIDR) | 43.245.40.0/22 |

## 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 | 43.245.41.240 |
| 2 | **HTTP over IPv4** | PASS | HTTP (port 80) responds over IPv4 — 18ms TTFB. |
| 3 | **HTTPS over IPv4** | PASS | HTTPS (port 443) responds over IPv4 — 25ms TTFB. |

## Audit Trail & Evidence Record

| | |
|---|---|
| **Verification ID** | 19ee3e49-2a77-4f82-858e-019c6551fe99 |
| **Domain** | monash.edu.my |
| **Check Mode** | Manual |
| **Status** | Completed |
| **Started** | 08 Aug 2026, 18:32:10 MYT |
| **Finished** | 08 Aug 2026, 18:32:13 MYT |
| **Test Node Profile** | dual stack |
| **Engine Version** | 2.0.0 |
| **MGv6C Version** | 1.0.0 |
| **Audit URL** | https://ipv6.my6.my/audit/19ee3e49-2a77-4f82-858e-019c6551fe99 |

## Integrity Verification

✓ **INTEGRITY VERIFIED**

| | |
|---|---|
| **Algorithm** | hmac-sha256-v1 |
| **Root Hash** | 8c1f85cf4b6ca61082b5bc6545537dd8a40e8b681f7d9ac30d0d1be16094023e |
| **http_headers** | 64422173a7a69cc152100fc9db0892b7c5e212acfdfbd99ecb70ce0f0a531676 |
| **dns_responses** | c7a98551827a172b412b815ef07ccdc24a760c257159ed7a7c78675ac0622404 |
| **tls_handshake** | 0b17a2c2f1e87c331da0df149b0c601d12ecbd5e6574fe907e9716756996816c |
| **connectivity_log** | e143e3433c337b1a968ed31d5c1d2557b6a18fda90fd0996e74ded9292acbd33 |
| **dns_resolution_times** | 02cf4177c95a2f5f2cb2c0b9b147b3ff46b8fb0a31052a913f218632278e9f09 |

## 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 | 22.21 | 23.18 | 10.08 | 21.36 | -12.1 |
| **Google** | IPv4 | 141.37 | 152.35 | 158.29 | 160.51 | +16.9 |
| **Google** | IPv6 | 96.15 | 170.36 | 146.04 | 221.82 | +49.9 |
| **Cloudflare** | IPv4 | 21.93 | 22.82 | 22.22 | 25.28 | +0.3 |
| **Cloudflare** | IPv6 | 22.7 | 44.19 | 21.04 | 21.43 | -1.7 |

## DNS Evidence

### A

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 2489
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
monash.edu.my.□□600□IN□A□43.245.41.240
```

### DS

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 10209
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
edu.my.□□□3599□IN□SOA□e.nic.my. hostmaster.nic.my. 2026062863 1800 900 604800 3600
```

### MX

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 21014
;; flags: qr rd ra; QUERY: 1, ANSWER: 5, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
monash.edu.my.□□900□IN□MX□1 aspmx.l.google.com.
monash.edu.my.□□900□IN□MX□5 alt2.aspmx.l.google.com.
monash.edu.my.□□900□IN□MX□5 alt1.aspmx.l.google.com.
monash.edu.my.□□900□IN□MX□10 alt4.aspmx.l.google.com.
monash.edu.my.□□900□IN□MX□10 alt3.aspmx.l.google.com.
```

### NS

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 20273
;; flags: qr rd ra; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 4

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
monash.edu.my.□□900□IN□NS□ns3.its.monash.edu.my.
monash.edu.my.□□900□IN□NS□ns5.its.monash.edu.my.
monash.edu.my.□□900□IN□NS□ns4.its.monash.edu.my.
```

### TXT

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 42755
;; flags: qr rd ra; QUERY: 1, ANSWER: 11, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
monash.edu.my.□□900□IN□TXT□"google-site-verification=IChoZgzbh8zx_V4L9njllzomS6AnHkofZ0b6B-baEH4"
monash.edu.my.□□900□IN□TXT□"GoDaddy=tffhaol2kfur94d4a7lj6d8tp6"
monash.edu.my.□□900□IN□TXT□"MS=ms30170482"
monash.edu.my.□□900□IN□TXT□"ADBA36DF-39E9-419D-B342-B609397BAA7E"
monash.edu.my.□□900□IN□TXT□"v=spf1 include:_spf.google.com -all"
monash.edu.my.□□900□IN□TXT□"google-site-verification=yFiHhU6C-sQI9U9Qbh05GvtDBzJProHq07NC0iyHl8w"
monash.edu.my.□□900□IN□TXT□"globalsign-domain-verification=8D2AE46F271B5609801F024A0EEB68B2"
monash.edu.my.□□900□IN□TXT□"google-site-verification=k3CE6U5bZ6D3QsBKqpCMBLVUuWKnVvHYdFl0fXPlliE"
monash.edu.my.□□900□IN□TXT□"QuoVadis=9df39435-6f43-4a72-991e-aeea9a481141"
monash.edu.my.□□900□IN□TXT□"facebook-domain-verification=689y0i5w4obvjhnbqj5mhifu2yl6bz"
monash.edu.my.□□900□IN□TXT□"MS=ms85332005"
```

### AAAA

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 56083
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1
```

```
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
monash.edu.my.□□899□IN□SOA□ns4.its.monash.edu.my. hostmaster.monash.edu.my. 2023033239 1800 900 1209600 900
```

### RRSIG

```
ns4.its.monash.edu.my. hostmaster.monash.edu.my. 2023033239 1800 900 1209600 900
```

### DNSKEY

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 22209
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
monash.edu.my.□□899□IN□SOA□ns4.its.monash.edu.my. hostmaster.monash.edu.my. 2023033239 1800 900 1209600 900
```

### DNSSEC_VALIDATION

```
; unsigned answer
monash.edu.my.□□899□IN□SOA□ns4.its.monash.edu.my. hostmaster.monash.edu.my. 2023033239 1800 900 1209600 900
```

## TLS Handshake Evidence

### IPV4 Connection

| | |
|---|---|
| **IP Used** | 43.245.41.240 |
| **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 = AU, ST = Victoria, O = Monash University, CN = monash.edu.my
verify return:1
CONNECTED(00000010)
---
Certificate chain
 0 s:C = AU, ST = Victoria, O = Monash University, CN = monash.edu.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: Jun 10 00:00:00 2026 GMT; NotAfter: Dec 25 23:59:59 2026 GMT
-----BEGIN CERTIFICATE-----
MIIHITCCBYmgAwIBAgIRAJspiwdl4L7oPwJCQBXVZz0wDQYJKoZIhvcNAQELBQAw
YDELMAkGA1UEBhMCR0IxGDAWBgNVBAoTD1NlY3RpZ28gTGltaXRlZDE3MDUGA1UE
AxMuU2VjdGlnbyBQdWJsaWMgU2VydmVyIEF1dGhlbnRpY2F0aW9uIENBIE9WIFIz
NjAeFw0yNjA2MTAwMDAwMDBaFw0yNjEyMjUyMzU5NTlaMFQxCzAJBgNVBAYTAkFV
MREwDwYDVQQIEwhWaWN0b3JpYTEaMBgGA1UEChMRTW9uYXNoIFVuaXZlcnNpdHkx
FjAUBgNVBAMTDW1vbmFzaC5lZHUubXkwggEiMA0GCSqGSIb3DQEBAQUAA4IBDwAw
ggEKAoIBAQDLSAZd5LNl47UeV43mMFgLdZI6wErRTf2BgBVuHrCDookCr17mHYkw
f7YfsUXm9XfGIIv85anXUKt7DPblfoxhJ49cD/vJggUE31ejyh2nc/0Q36m0/Oo/
z4S7EN2RblAhmmTjb5LaEKOFCLLXoSgsqwYL8rd6dZIbwh1DH9bZ0Z5/wcIM2aEJ
54hTqwSnSRlnwX8Q9rCvNOfCGUaXEBSOMuSAAdHuzRn0N0tI2srgfL/bjKWeeCik
jmDZn03BwLEz3zCl6jGUdqeN6E9XHHW/rhbZARZ0PFbX42k+XU5GKLc1MYi8fcM6
PqOmEa0gA+Qdj8S7lMH6mOfbMbwiAP+RAgMBAAGjggNgMIIDXDAfBgNVHSMEGDAW
gBTjZnS7cGiNLF1ODqZKj5s3IpyCkjAdBgNVHQ4EFgQUr9Ic6kk6roPYYMvLnDSH
osjsvUIwDgYDVR0PAQH/BAQDAgWgMAwGA1UdEwEB/wQCMAAwHQYDVR0lBBYwFAYI
KwYBBQUHAwEGCCsGAQUFBwMCMEoGA1UdIARDMEEwNQYMKwYBBAGyMQECAQMEMCUw
IwYIKwYBBQUHAgEWF2h0dHBzOi8vc2VjdGlnby5jb20vQ1BTMAgGBmeBDAECAjBU
BgNVHR8ETTBLMEmgR6BFhkNodHRwOi8vY3JsLnNlY3RpZ28uY29tL1NlY3RpZ29Q
dWJsaWNTZXJ2ZXJBdXRoZW50aWNhdGlvbkNBT1ZSMzYuY3JsMIGEBggrBgEFBQcB
AQR4MHYwTwYIKwYBBQUHMAKGQ2h0dHA6Ly9jcnQuc2VjdGlnby5jb20vU2VjdGln
b1B1YmxpY1NlcnZlckF1dGhlbnRpY2F0aW9uQ0FPVlIzNi5jcnQwIwYIKwYBBQUH
MAGGF2h0dHA6Ly9vY3NwLnNlY3RpZ28uY29tMIIBhQYKKwYBBAHWeQIEAgSCAXUE
ggFxAW8AdQDXbX0Q0af1d8LH6V/XAL/5gskzWmXh0LMBcxfAyMVpdwAAAZ6wXhhg
AAAEAwBGMEQCIGuo5G2/iP+U5VgvY5WGRAndTIkbFvJzyj7YKjZ/8iMbAiAqSSNE
xV4sRYhK4/6d00jn0nDCuxo6htHnpGjp39NGaQB2AMijxH/Hs625NWsBP2p6Em3j
Ok5DpcZG+ZetOXWZHc+aAAABnrBeGAYAAAQDAEcwRQIhAJNYZCBuBJyCEqLzD23R
M+BXF+2qs8boVG1c7LiIA5oIAiAj6Sc1sw6f7PXBw6eCzoRmw+gFEyQGv0zZFSeX
qd3pnQB+AI7KRwus3mrzogawpHqEt0b+H8a/lT4l5ptO5AJI88boAAABnrBeGDMA
CAAABQADjmbXBAMARzBFAiAVvgWKwCD0uz4z6NSVbbk4hetRSGq7z1BToPSSzgg2
pgIhAJhwX3yJsisR5FB4SEEkmwx+gA7+rGglyyqy+pDBgbudMCsGA1UdEQQkMCKC
DW1vbmFzaC5lZHUubXmCEXd3dy5tb25hc2guZWR1Lm15MA0GCSqGSIb3DQEBCwUA
A4IBgQCbma4bkgjU1iFbfhsPG60fvObl60DKL7ZG8zaUNy9eV2DTF8epmLIz2ARI
utYxlsVBbMZxWbq9mY8Kc3E0h4v1ae+lIcW6RfSQBunph1arLlTImeVEnPbdsrLl
4fXflyYPnugjmWxPT1NRcg+AOsdpM4n3mS4A4IssENXPGv8GEZQyoW9Blq3NwMuj
g0hNkOg+kNggABig/askMV5MKkzbuC2qlvpQ7i1bAowCBG+lPqABC1tvlq/EHAEp
0EOMDJIqXr1LLJ/wlK8NrmqmAIAo+j4G0APuVEuJA5Cz56bJmV6ugo3zJQazsWNF
23DsZQgP2DFghVgr8S1l3mLHJWwnQ/ABI83uIPr2spJj1FR+pIvKwXQi090+1qll
Xl3AuhdpI7GsMXwGhq0He4vJpxontgmMVxXvAELGApA65kFjiPOmySqPJeCXH4AN
6UmtaG7Hl3r6F6GTPb8aiJxsDPuqVXZOMQf4U4sQLPhBBXe7FdmwN3M4lQeggfIM
ultQ2VI=
-----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** | 403 |
| **Connected IP** | 2.58.104.10 |
| **Connect Time** | 3.78 ms |
| **TTFB** | 17.14 ms |
| **Total Time** | 17.22 ms |

**Response Headers:**


```
{
    "0": "HTTP/1.1 301 Moved Permanently",
    "1": "Date: Sat, 08 Aug 2026 10:32:13 GMT",
    "2": "Content-Type: text/html; charset=UTF-8",
    "3": "Connection: keep-alive",
    "4": "Location: https://www.monash.edu.my/",
    "5": "X-Content-Type-Options: nosniff",
    "6": "Server: cloudflare",
    "7": "CF-RAY: a27ddb1bf9c5c7bd-KUL",
    "8": "alt-svc: h3=\":443\"; ma=86400",
    "10": "HTTP/2 403",
    "11": "date: Sat, 08 Aug 2026 10:32:13 GMT",
    "12": "content-type: text/html; charset=UTF-8",
    "13": "content-length: 5301",
    "14": "accept-ch: Sec-CH-UA-Bitness, Sec-CH-UA-Arch, Sec-CH-UA-Full-Version, Sec-CH-UA-Mobile, Sec-CH-UA-Model, Sec-CH-UA-Platform-Version, Sec-CH-UA-Full-
Version-List, Sec-CH-UA-Platform, Sec-CH-UA, UA-Bitness, UA-Arch, UA-Full-Version, UA-Mobile, UA-Model, UA-Platform-Version, UA-Platform, UA",
    "15": "cf-mitigated: challenge",
    "16": "content-security-policy: default-src 'none'; script-src 'nonce-LyOwPhJURbc0O17xcjCURo' 'unsafe-eval' https://challenges.cloudflare.com; script-src-attr
'none'; style-src 'unsafe-inline'; img-src 'self' https://challenges.cloudflare.com; connect-src 'self' https://challenges.cloudflare.com; frame-src 'self'
https://challenges.cloudflare.com blob:; child-src 'self' https://challenges.cloudflare.com blob:; worker-src blob:; form-action http: https:; base-uri 'self'",
    "17": "server: cloudflare",
    "18": "critical-ch: Sec-CH-UA-Bitness, Sec-CH-UA-Arch, Sec-CH-UA-Full-Version, Sec-CH-UA-Mobile, Sec-CH-UA-Model, Sec-CH-UA-Platform-Version, Sec-CH-UA-Full-
Version-List, Sec-CH-UA-Platform, Sec-CH-UA, UA-Bitness, UA-Arch, UA-Full-Version, UA-Mobile, UA-Model, UA-Platform-Version, UA-Platform, UA",
    "19": "cross-origin-embedder-policy: require-corp",
    "20": "cross-origin-opener-policy: same-origin",
    "21": "cross-origin-resource-policy: same-origin",
    "22": "origin-agent-cluster: ?1",
    "23": "permissions-policy: accelerometer=(),camera=(),clipboard-read=(),clipboard-
write=(),geolocation=(),gyroscope=(),hid=(),magnetometer=(),microphone=(),payment=(),publickey-credentials-get=(),screen-wake-lock=(),serial=(),sync-
xhr=(),usb=(),xr-spatial-tracking=*",
    "24": "referrer-policy: same-origin",
    "25": "server-timing: chlray;desc=\"a27ddb1c0a733cd8\"",
    "26": "x-content-type-options: nosniff",
    "27": "x-frame-options: SAMEORIGIN",
    "28": "strict-transport-security: max-age=31536000",
    "29": "set-cookie: __cf_bm=rtmoc8bUjXF37U8hTGNqEKcVHMEWtjxvZDJUZ9mbAjI-1786185133.4430285-1.0.1.1-
Vs930VopZxn318hKBKIPlVigtK38fPZjuaAzxcDwbX8wDajT6z1HZA2aoRNKjEK3.ViAMUkfsHhXBdVSHa1ejdBlBe2jH76gy49V6Bs_fiw1g7IqPkLVi.EaDEtwzL4b; HttpOnly; Secure; Path=/;
Domain=www.monash.edu.my; Expires=Sat, 08 Aug 2026 11:02:13 GMT",
    "30": "cf-ray: a27ddb1c0a733cd8-KUL",
    "31": "alt-svc: h3=\":443\"; ma=86400"
}
```


### IPv4 HTTPS (port 443)

| | |
|---|---|
| **HTTP Status** | 403 |
| **Connected IP** | 2.58.104.11 |
| **Connect Time** | 3.93 ms |
| **TTFB** | 24.52 ms |
| **Total Time** | 24.6 ms |

**Response Headers:**


```
{
    "0": "HTTP/2 301",
    "1": "date: Sat, 08 Aug 2026 10:32:13 GMT",
    "2": "content-type: text/html; charset=UTF-8",
    "3": "location: https://www.monash.edu.my/",
    "4": "strict-transport-security: max-age=31536000",
    "5": "x-content-type-options: nosniff",
    "6": "server: cloudflare",
    "7": "cf-ray: a27ddb1c1cf06b5d-KUL",
    "8": "alt-svc: h3=\":443\"; ma=86400",
```

```
    "10": "HTTP/2 403",
    "11": "date: Sat, 08 Aug 2026 10:32:13 GMT",
    "12": "content-type: text/html; charset=UTF-8",
    "13": "content-length: 5301",
    "14": "accept-ch: Sec-CH-UA-Bitness, Sec-CH-UA-Arch, Sec-CH-UA-Full-Version, Sec-CH-UA-Mobile, Sec-CH-UA-Model, Sec-CH-UA-Platform-Version, Sec-CH-UA-Full-
Version-List, Sec-CH-UA-Platform, Sec-CH-UA, UA-Bitness, UA-Arch, UA-Full-Version, UA-Mobile, UA-Model, UA-Platform-Version, UA-Platform, UA",
    "15": "cf-mitigated: challenge",
    "16": "content-security-policy: default-src 'none'; script-src 'nonce-yM3msxj1V2n1yJkLy2c4Jo' 'unsafe-eval' https://challenges.cloudflare.com; script-src-attr
'none'; style-src 'unsafe-inline'; img-src 'self' https://challenges.cloudflare.com; connect-src 'self' https://challenges.cloudflare.com; frame-src 'self'
https://challenges.cloudflare.com blob:; child-src 'self' https://challenges.cloudflare.com blob:; worker-src blob:; form-action http: https:; base-uri 'self'",
    "17": "server: cloudflare",
    "18": "critical-ch: Sec-CH-UA-Bitness, Sec-CH-UA-Arch, Sec-CH-UA-Full-Version, Sec-CH-UA-Mobile, Sec-CH-UA-Model, Sec-CH-UA-Platform-Version, Sec-CH-UA-Full-
Version-List, Sec-CH-UA-Platform, Sec-CH-UA, UA-Bitness, UA-Arch, UA-Full-Version, UA-Mobile, UA-Model, UA-Platform-Version, UA-Platform, UA",
    "19": "cross-origin-embedder-policy: require-corp",
    "20": "cross-origin-opener-policy: same-origin",
    "21": "cross-origin-resource-policy: same-origin",
    "22": "origin-agent-cluster: ?1",
    "23": "permissions-policy: accelerometer=(),camera=(),clipboard-read=(),clipboard-
write=(),geolocation=(),gyroscope=(),hid=(),magnetometer=(),microphone=(),payment=(),publickey-credentials-get=(),screen-wake-lock=(),serial=(),sync-
xhr=(),usb=(),xr-spatial-tracking=*",
    "24": "referrer-policy: same-origin",
    "25": "server-timing: chlray;desc=\"a27ddb1c2ad18117\"",
    "26": "x-content-type-options: nosniff",
    "27": "x-frame-options: SAMEORIGIN",
    "28": "strict-transport-security: max-age=31536000",
    "29": "set-cookie: __cf_bm=gwiXxQqOapa3n408htg5nWfqDyO_gvIsad5tJgQYE5s-1786185133.4679663-1.0.1.1-
QngMh_tu2GMGe_wvUD1zQBNBK_RUiiiAg5X2fQgCrZXGr8V_C6useD98zXPc3F6dOd3K4_mAtwrac51WaTGlYCw80T0lhnJ9VHUfmUyYh7ZYnSLbPk2MMiTssVLmFQjW; HttpOnly; Secure; Path=/;
Domain=www.monash.edu.my; Expires=Sat, 08 Aug 2026 11:02:13 GMT",
    "30": "cf-ray: a27ddb1c2ad18117-KUL",
    "31": "alt-svc: h3=\":443\"; ma=86400"
}
```


## Connectivity Test Evidence

| Test | Result |
|---|---|
| **TCP Connect IPv4 → port 80** | 301 0.000997 0.006081 |
| **TCP Connect IPv4 → port 443** | 301 0.001006 0.024252 |

## 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
```