# IPv6 Readiness Report

**sunway.edu.my — sunway.edu.my**

Scan to verify

Category: Education • Generated: 02 Nov 2026, 02:53 MYT • Last Checked: 08 Aug 2026, 18:31 MYT • Verification ID: e51f503d-339d-4a0b-9b43-53349eca9383
Report generated from National IPv6 Readiness Monitor — https://ipv6.my6.my
Audit trail: https://ipv6.my6.my/audit/e51f503d-339d-4a0b-9b43-53349eca9383

✗
**Non-Compliant**
MGv6C-1.0

**55%**
**No IPv6 Support**

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

**IPV4 ADDRESSES**
113.23.129.48
182.173.73.176

## Network Information (WHOIS / RDAP)

| | IPv4 Network |
|---|---|
| Organization | SUNWAY-UNIVERSITY |
| Country | MY |
| ASN | AS38182 |
| ASN Name | EXTREMEBB-AS-MY - Extreme Broadband - Total Broadband Experience, MY |
| Network (CIDR) | 113.23.129.0/24 |

## 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%) — 3 / 5

| # | CHECK | RESULT | DETAIL |
|---|---|---|---|
| 1 | **NS Has AAAA Record** | PASS | Nameserver has IPv6 address. |
| 2 | **NS Reachable via IPv6** | PASS | Nameserver is reachable via IPv6 on port 53. |
| 3 | **NS Answers Queries via IPv6** | PASS | DNS queries answered over IPv6. |
| 4 | **DNSSEC Validated** | FAIL | DNSSEC validation failed or zone is unsigned. |
| 5 | **Reverse DNS (PTR)** | FAIL | No PTR record found. |
| 6 | **DS Record at Parent** | FAIL | No DS record at parent. |
| 7 | **RRSIG Valid** | FAIL | No valid RRSIG found. |

| # | CHECK | RESULT | DETAIL |
|---|---|---|---|
| 8 | **Signing Algorithm** | INFO | No DNSKEY record found. |

## Email Services (25%) — 4 / 4

| # | 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** | 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 | DKIM selector found: selector1._domainkey |
| 7 | **DMARC Record** | PASS | DMARC record found. |

## IPv4 Baseline (15%) — 3 / 3

| # | CHECK | RESULT | DETAIL |
|---|---|---|---|
| 1 | **A Record** | PASS | 113.23.129.48, 182.173.73.176 |
| 2 | **HTTP over IPv4** | PASS | HTTP (port 80) responds over IPv4 — 144ms TTFB. |
| 3 | **HTTPS over IPv4** | PASS | HTTPS (port 443) responds over IPv4 — 119ms TTFB. |

## Audit Trail & Evidence Record

| | |
|---|---|
| **Verification ID** | e51f503d-339d-4a0b-9b43-53349eca9383 |
| **Domain** | sunway.edu.my |
| **Check Mode** | Manual |
| **Status** | Completed |
| **Started** | 08 Aug 2026, 18:31:21 MYT |
| **Finished** | 08 Aug 2026, 18:31:40 MYT |
| **Test Node Profile** | dual stack |
| **Engine Version** | 2.0.0 |
| **MGv6C Version** | 1.0.0 |
| **Audit URL** | https://ipv6.my6.my/audit/e51f503d-339d-4a0b-9b43-53349eca9383 |

## Integrity Verification

✓ **INTEGRITY VERIFIED**

| | |
|---|---|
| **Algorithm** | hmac-sha256-v1 |
| **Root Hash** | a1dfe9e3fee1e04e7dd9c8b8f2e442eb11739b95f27a011aeba45c2a93b5ba24 |
| **http_headers** | 3482667bd9c26d0d77b3d015f4c2536748cbfcb3e9a55cdffdc65cd8c4c26182 |
| **dns_responses** | 57264ce93f08e8d358604d68d6bbf9315cd30cbf1962fa31e12d8c54d485c3b0 |
| **tls_handshake** | d4b53ea1dc1c7417bd2c9aef6822c4645a5781539780aaa1aae04721dfcf6aff |
| **connectivity_log** | e9b35ecda0255d3047c589c3e1fefdcba275f147f34cf16b955827371959a9ca |
| **dns_resolution_times** | 06034ed52ca77dbcd1e194c8b4a172eaba2a15116ae26b28f70e5d0357df8863 |

## 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 | 25.99 | 26.02 | 22.19 | 25.56 | -3.8 |
| **Google** | IPv4 | 92.58 | 104.72 | 91.84 | 96.46 | -0.7 |
| **Google** | IPv6 | 89.23 | 94.55 | 79.79 | 89.21 | -9.4 |
| **Cloudflare** | IPv4 | 21.35 | 23.1 | 22.96 | 25.01 | +1.6 |
| **Cloudflare** | IPv6 | 29.75 | 30.48 | 36.86 | 37.7 | +7.1 |

## DNS Evidence

### A

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 2494
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
sunway.edu.my.□□3600□IN□A□113.23.129.48
sunway.edu.my.□□3600□IN□A□182.173.73.176
```

### DS

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 37876
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
edu.my.□□□3590□IN□SOA□e.nic.my. hostmaster.nic.my. 2026062863 1800 900 604800 3600
```

### MX

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 61507
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
sunway.edu.my.□□3600□IN□MX□0 sunway-edu-my.mail.protection.outlook.com.
```

### NS

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 35189
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
sunway.edu.my.□□3600□IN□NS□dns5.cloudns.net.
sunway.edu.my.□□3600□IN□NS□dns1.cloudns.net.
sunway.edu.my.□□3600□IN□NS□dns6.cloudns.net.
sunway.edu.my.□□3600□IN□NS□dns2.cloudns.net.
```

### TXT

```
;; Truncated, retrying in TCP mode.
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 5703
;; flags: qr rd ra; QUERY: 1, ANSWER: 18, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
sunway.edu.my.□□3600□IN□TXT□"HSL7JLYJ8LT29B7AKT5638I0WGTVHICNZHHEQNOJ"
sunway.edu.my.□□3600□IN□TXT□"v=spf1 include:_spf.mlsend.com include:amazonses.com include:spf.au-1.a.mimecastprotect.com include:_spf.salesforce.com
include:spf.protection.outlook.com ip4:182.173.73.141 ip4:113.23.129.24 -all"
sunway.edu.my.□□3600□IN□TXT□"google-gws-recovery-domain-verification=70292276"
sunway.edu.my.□□3600□IN□TXT□"autodesk-domain-verification=uiOeptc-qfNQkqPOpbHD"
sunway.edu.my.□□3600□IN□TXT□"google-site-verification=vsxO9upGX1EP8iPXV777X7vTjxK1ccAPeh8rHOvBmUM"
sunway.edu.my.□□3600□IN□TXT□"hvmrl2hclghwmbjp3tngq6k65r42rw1f"
sunway.edu.my.□□3600□IN□TXT□"trend-micro-v1-domain-verification.459af999d6f64208f72446737898a924=ccf12b89-7d59-4689-9642-52353accd377"
sunway.edu.my.□□3600□IN□TXT□"MS=ms55710812"
sunway.edu.my.□□3600□IN□TXT□"MS=ms46718954"
sunway.edu.my.□□3600□IN□TXT□"_w7yvirupu4iqemnki0yj1zv6kqlktbz"
sunway.edu.my.□□3600□IN□TXT□"_ssyfylvhgohswzl7n1zuldfrc38v5o8"
sunway.edu.my.□□3600□IN□TXT□"MS=ms92449402"
sunway.edu.my.□□3600□IN□TXT□"_my73mbwagkd4438v3adnsiw8l9l6fok"
sunway.edu.my.□□3600□IN□TXT□"brevo-code:b1414e0a234265a2faa294058248ae06"
sunway.edu.my.□□3600□IN□TXT□"google-gws-recovery-domain-verification=70410564"
sunway.edu.my.□□3600□IN□TXT□"google-site-verification=bkHdhB4XEiKzQSIkTBc0ojQBw9BUFcHkVvAgaxCWTvo"
sunway.edu.my.□□3600□IN□TXT□"adobe-idp-site-verification=2495a19aec5048a1446029a0086c3b9d9c4223dcb8b2d12f1e92c0a4927140aa"
```

```
sunway.edu.my.□□3600□IN□TXT□"brevo-code:a17dd4153ca0e51fe0ab834bd5a763da"
```

### AAAA

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 54695
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
sunway.edu.my.□□3584□IN□SOA□ns1.cloudns.net. support.cloudns.net. 2026072701 7200 1800 1209600 3600
```

### RRSIG

```
ns1.cloudns.net. support.cloudns.net. 2026072701 7200 1800 1209600 3600
```

### DNSKEY

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 42503
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
sunway.edu.my.□□3584□IN□SOA□ns1.cloudns.net. support.cloudns.net. 2026072701 7200 1800 1209600 3600
```

### DNSSEC_VALIDATION

```
; unsigned answer
sunway.edu.my.□□3584□IN□SOA□ns1.cloudns.net. support.cloudns.net. 2026072701 7200 1800 1209600 3600
```

## TLS Handshake Evidence

### IPV4 Connection

| | |
|---|---|
| **IP Used** | 113.23.129.48 |
| **IP Version** | 4 |

```
depth=2 C = US, O = DigiCert Inc, OU = www.digicert.com, CN = DigiCert Global Root G2
verify return:1
depth=1 C = US, O = DigiCert Inc, CN = DigiCert Global G2 TLS RSA SHA256 2020 CA1
verify return:1
depth=0 C = MY, ST = Selangor, L = Subang Jaya, O = SUNWAY UNIVERSITY SDN. BHD., CN = *.sunway.edu.my
verify return:1
CONNECTED(00000010)
---
Certificate chain
 0 s:C = MY, ST = Selangor, L = Subang Jaya, O = SUNWAY UNIVERSITY SDN. BHD., CN = *.sunway.edu.my
   i:C = US, O = DigiCert Inc, CN = DigiCert Global G2 TLS RSA SHA256 2020 CA1
   a:PKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA256
   v:NotBefore: Jul 31 00:00:00 2026 GMT; NotAfter: Feb  7 23:59:59 2027 GMT
-----BEGIN CERTIFICATE-----
MIIHUjCCBjqgAwIBAgIQDMzALwbfzo6aPHnUD5Pf+TANBgkqhkiG9w0BAQsFADBZ
MQswCQYDVQQGEwJVUzEVMBMGA1UEChMMRGlnaUNlcnQgSW5jMTMwMQYDVQQDEypE
aWdpQ2VydCBHbG9iYWwgRzIgVExTIFJTQSBTSEEyNTYgMjAyMCBDQTEwHhcNMjYw
NzMxMDAwMDAwWhcNMjcwMjA3MjM1OTU5WjB2MQswCQYDVQQGEwJNWTERMA8GA1UE
CBMIU2VsYW5nb3IxFDASBgNVBAcTC1N1YmFuZyBKYXlhMSQwIgYDVQQKExtTVU5X
QVkgVU5JVkVSU0lUWSBTRE4uIEJIRC4xGDAWBgNVBAMMDyouc3Vud2F5LmVkdS5t
eTCCASIwDQYJKoZIhvcNAQEBBQADggEPADCCAQoCggEBAOag4RXhii4a/MALDeck
QvUoHuGyH/koSzSo38lTJ7+9e53oBqrFQ4FLZgOqjjTeQY6MjepBUtO8/6RE2Abf
ZSwOtZRfeZgcw+xZXRJfn7G5VG81NKmRNdeM3ATE5JdWX/R9Qler+Ei1GWLDtpyB
VZ2yU3pBTz1k4ITC7GmVhVovduEuT7Oe5gkeh5+R3qk5J6v+MJQ1WB8lAycckWfl
TcZD0kE5W40AG90M4VNSn5KQs6Qa6lPJsb0tqUQQbez9qlEwrsFqboGfu6iStyXv
4n82HNfwDffRHqeJmfaq6fII7Law8qJmqS6/rF6z6rpyHckk0pyOJGmX/rxz5UFH
ngUCAwEAAaOCA/cwggPzMB8GA1UdIwQYMBaAFHSFgMBmx9833s+9KTeqAx2+7c0X
MB0GA1UdDgQWBBQ15pk8/AzY4yoAyGrYxhcRWJggozCBhAYDVR0RBH0we4IPKi5z
dW53YXkuZWRlLm15ghF3d3cuc3Vud2F5LmVkdS5teYIUYWx1bW5pLnN1bndheS5l
ZHUubXmCFXN0dWRlbnQuc3Vud2F5LmVkdS5teYINc3Vud2F5LmVkdS5teYIZc2No
b2xhcnNoaXAuc3Vud2F5LmVkdS5teTA+BgNVHSAENzA1MDMGBmeBDAECAjApMCcG
CCsGAQUFBwIBFhtodHRwOi8vd3d3LmRpZ2ljZXJ0LmNvbS9DUFMwDgYDVR0PAQH/
BAQDAgWgMB0GA1UdJQQWMBQGCCsGAQUFBwMBBggrBgEFBQcDAjCBnwYDVR0fBIGX
MIGUMEigRqBEhkJodHRwOi8vY3JsMy5kaWdpY2VydC5jb20vRGlnaUNlcnRHbG9i
YWxHMlRMU1JTQVNIQTI1NjIwMjBDQTEtMS5jcmwwSKBGoESGQmh0dHA6Ly9jcmw0
LmRpZ2ljZXJ0LmNvbS9EaWdpQ2VydEdsb2JhbEcyVExTUlNBU0hBMjU2MjAyMENB
MS0xLmNybDCBhwYIKwYBBQUHAQEEezB5MCQGCCsGAQUFBzABhhhodHRwOi8vb2Nz
cC5kaWdpY2VydC5jb20wUQYIKwYBBQUHMAKGRWh0dHA6Ly9jYWNlcnRzLmRpZ2lj
ZXJ0LmNvbS9EaWdpQ2VydEdsb2JhbEcyVExTUlNBU0hBMjU2MjAyMENBMS0xLmNy
dDAMBgNVHRMBAf8EAjAAMIIBfwYKKwYBBAHWeQIEAgSCAW8EggFrAWkAdwBMY9yY
5Zwdq4j2Hoo93q6Pq0SjN3tfm5TD+6Gc/MG+JgAAAZ+25A5lAAAEAwBIMEYCIQC8
wfooLnW+JB7gaTxviK996wrchSNzZbl0PfhmlTMGmAIhAInTKFTpQmK/crE/pADr
eHhZiBuX0uflr+J3QS5uexyJAHYARMK9DOkUDmSlyUoBkwpaobs1lw4A7hEWiWgq
HETXtWYAAAGftuQOvgAABAMARzBFAiBnzKMiwVsIsftzWOXkO5X4l6qGmdYAbtqK
cAnniz9zfgIhAIaHpvq2d9a+NbQemChmAuK9Gx+EmmkC15lcbNKYs5+lAHYAHJ9o
LOn68EVpUPgbloqH3dsyENhM5siy44JSSsTPWZ8AAAGftuQOzwAABAMARzBFAiEA
02Gu+XS+4zqIg2tqITDAXulboOQQC9ZlRGk7DnI9FhUCIA5/s11ZS5Izszm+ntyH
4Dni8OvAEDEDvABqSg7aUJzPMA0GCSqGSIb3DQEBCwUAA4IBAQAs4g4/sl8AzFPU
1XTmRBzryl0JwO4+SkWAtZolC0Q9E3Iifb/n8GDM6r/l00FbF8Z1/dYWJtnPeLoN
gRBi1KWyaxPV5lX9xBBBsKb6O1zy/BxsYih1lV/yNa/1hdzJjWop9aVtelhJdNQT
xc/PID+pAsvVQlxToL/KixTXI8cM26p4wbcmgtV9KFp0jRDmY9WNyzB4rX5qe305
PLz0YImb3d5aZDIANc4yegIx8BzTVZcJ8K5I5E2io5I/nZ6QP7Vaw5kNZU6lKXXg
qn3SdM9fBTbZLTVojh9R4tQKo/wFTtYRFsojNNpUzgNVTnUIlL2Vbxpqm7koXCly
I6dMkhuC
-----END CERTIFICATE-----
 1 s:C = US, O = DigiCert Inc, CN = DigiCert Global G2 TLS RSA SHA256 2020 CA1
   i:C = US, O = DigiCert Inc, OU = www.digicert.com, CN = DigiCert Global Root G2
   a:PKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA256
   v:NotBefore: Mar 30 00:00:00 2021 GMT; NotAfter: Mar 29 23:59:59 2031 GMT
-----BEGIN CERTIFICATE-----
MIIEyDCCA7CgAwIBAgIQDPW9BitWAvR6uFAsI8zwZjANBgkqhkiG9w0BAQsFADBh
MQswCQYDVQQGEwJVUzEVMBMGA1UEChMMRGlnaUNlcnQgSW5jMRkwFwYDVQQLExB3
d3cuZGlnaWNlcnQuY29tMSAwHgYDVQQDExdEaWdpQ2VydCBHbG9iYWwgUm9vdCBH
MjAeFw0yMTAzMzAwMDAwMDBaFw0zMTAzMjkyMzU5NTlaMFkxCzAJBgNVBAYTAlVT
MRUwEwYDVQQKEwxEaWdpQ2VydCBJbmMxMzAxBgNVBAMTKkRpZ2lDZXJ0IEdsb2Jh
bCBHMiBUTFMgUlNBIFNIQTI1NiAyMDIwIENBMTCCASIwDQYJKoZIhvcNAQEBBQAD
ggEPADCCAQoCggEBAMz3EGJPprtjb+2QUlbFbSd7ehJWivH0+dbn4Y+9lavyYEEV
cNsSAPonCrVXOFt9slGTcZUOakGUWzUb+nv6u8W+JDD+Vu/E832X4xT1FE3LpxDy
FuqrIvAxIhFhaZAmunjZlx/jfWardUSVc8is/+9dCopZQ+GssjoP80j812s3wWPc
3kbW20X+fSP9kOhRBx5Ro1/tSUZUfyyIxfQTnJcVPAPooTncaQwywa8WV0yUR0J8
osicfebUTVSvQpmowQTCd5zWSOTOEeAqgJnwQ3DPP3Zr0UxJqyRewg2C/Uaoq2yT
zGJSQnWS+Jr6Xl6ysGHlHx+5fwmY6D36g39HaaECAwEAAaOCAYIwggF+MBIGA1Ud
EwEB/wQIMAYBAf8CAQAwHQYDVR0OBBYEFHSFgMBmx9833s+9KTeqAx2+7c0XMB8G
```

```
A1UdIwQYMBaAFE4iVCAYlebjbuYP+vq5Eu0GF485MA4GA1UdDwEB/wQEAwIBhjAd
BgNVHSUEFjAUBggrBgEFBQcDAQYIKwYBBQUHAwIwdgYIKwYBBQUHAQEEajBoMCQG
CCsGAQUFBzABhhhodHRwOi8vb2NzcC5kaWdpY2VydC5jb20wQAYIKwYBBQUHMAKG
NGh0dHA6Ly9jYWNlcnRzLmRpZ2ljZXJ0LmNvbS9EaWdpQ2VydEdsb2JhbFJvb3RH
Mi5jcnQwQgYDVR0fBDswOTA3oDWgM4YxaHR0cDovL2NybDMuZGlnaWNlcnQuY29t
L0RpZ2lDZXJ0R2xvYmFsUm9vdEcyLmNybDA9BgNVHSAENjA0MAsGCWCGSAGG/WwC
ATAHBgVngQwBATAIBgZngQwBAgEwCAYGZ4EMAQICMAgGBmeBDAECAzANBgkqhkiG
9w0BAQsFAAOCAQEAkPFwyyiXaZd8dP3A+iZ7U6utzWX9upwGnIrXWkOH7U1MVl+t
wcW1BSAuWdH/SvWgKtiwla3JLko716f2b4gp/DA/JIS7w7d7kwcsr4drdjPtAFVS
slme5LnQ89/nD/7d+MS5EHKBCQRfz5eeLjJ1js+aWNJXMX43AYGyZm0pGrFmCW3R
bpD0ufovARTFXFZkAdl9h6g4U5+LXUZtXMYnhIHUfoyMo5tS58aI7Dd8KvvwVVo4
chDYABPPTHPbqjc1qCmBaZx2vN4Ye5DUys/vZwP9BFohFrH/6j/f3IL16/RZkiMN
JCqVJUzKoZHm1Lesh3Sz8W2jmdv51b2EQJ8HmA==
-----END CERTIFICATE-----
---
Server certificate
subject=C = MY, ST = Selangor, L = Subang Jaya, O = SUNWAY UNIVERSITY SDN. BHD., CN = *.sunway.edu.my
issuer=C = US, O = DigiCert Inc, CN = DigiCert Global G2 TLS RSA SHA256 2020 CA1
---
No client certificate CA names sent
Peer signing digest: SHA256
Peer signature type: RSA-PSS
Server Temp Key: X25519, 253 bits
---
SSL handshake has read 3683 bytes and written 395 bytes
Verification: OK
---
```

## HTTP Response Evidence

### IPv4 HTTP (port 80)

| | |
|---|---|
| **HTTP Status** | 200 |
| **Connected IP** | 113.23.129.48 |
| **Connect Time** | 18.73 ms |
| **TTFB** | 128.6 ms |
| **Total Time** | 128.71 ms |

**Response Headers:**


```
{
    "0": "HTTP/1.1 301 Moved Permanently",
    "1": "Content-Type: text/html",
    "2": "Content-length: 0",
    "3": "Connection: Close",
    "4": "Location: https://sunway.edu.my:443/",
    "6": "HTTP/1.1 200 OK",
    "7": "Date: Thu, 06 Aug 2026 08:28:27 GMT",
    "8": "Cache-Control: must-revalidate, no-cache, private",
    "9": "X-Drupal-Dynamic-Cache: MISS",
    "10": "Content-language: en",
    "11": "X-Content-Type-Options: nosniff",
    "12": "X-Frame-Options: DENY",
    "13": "Expires: Sun, 19 Nov 1978 05:00:00 GMT",
    "14": "X-Generator: Drupal 10 (https://www.drupal.org)",
    "15": "Content-Security-Policy: report-uri /report-csp-violation",
    "16": "Strict-Transport-Security: max-age=31536000",
    "17": "X-Drupal-Cache: HIT",
    "18": "Content-Type: text/html; charset=UTF-8",
    "19": "Transfer-Encoding: chunked",
    "20": "Strict-Transport-Security:  max-age=31536000"
}
```


### IPv4 HTTPS (port 443)

| | |
|---|---|
| **HTTP Status** | 200 |
| **Connected IP** | 113.23.129.48 |
| **Connect Time** | 13.24 ms |
| **TTFB** | 124.26 ms |
| **Total Time** | 124.3 ms |

**Response Headers:**


```
[
    "HTTP/1.1 200 OK",
    "Date: Thu, 06 Aug 2026 08:28:27 GMT",
    "Cache-Control: must-revalidate, no-cache, private",
    "X-Drupal-Dynamic-Cache: MISS",
    "Content-language: en",
    "X-Content-Type-Options: nosniff",
    "X-Frame-Options: DENY",
    "Expires: Sun, 19 Nov 1978 05:00:00 GMT",
    "X-Generator: Drupal 10 (https://www.drupal.org)",
    "Content-Security-Policy: report-uri /report-csp-violation",
    "Strict-Transport-Security: max-age=31536000",
    "X-Drupal-Cache: HIT",
    "Content-Type: text/html; charset=UTF-8",
    "Transfer-Encoding: chunked",
    "Strict-Transport-Security:  max-age=31536000"
]
```


## Connectivity Test Evidence

| Test | Result |
|---|---|
| **TCP Connect IPv4 → port 80** | 301 0.012169 0.022297 |
| **TCP Connect IPv4 → port 443** | 200 0.003995 0.105244 |

## 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
```