IPv6 Readiness Report

swinburne.edu.my — swinburne.edu.my

Scan to verify

Category: Education • Generated: 02 Nov 2026, 03:08 MYT • Last Checked: 08 Aug 2026, 18:32 MYT • Verification ID: 6cea76ae-b4d1-4e5b-9117-b43b605d3ea4
Report generated from National IPv6 Readiness Monitor — https://ipv6.my6.my
Audit trail: https://ipv6.my6.my/audit/6cea76ae-b4d1-4e5b-9117-b43b605d3ea4

⚠
Partially Compliant
MGv6C-1.0

78%
Partial Support

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

IPV6 ADDRESSES
2606:4700:10::ac42:a483
2606:4700:10::6814:1c5e

IPV4 ADDRESSES
104.20.28.94
172.66.164.131

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	104.16.0.0/12

Web Services (35%) — 8 / 8

#	CHECK	RESULT	DETAIL
1	**AAAA Record**	PASS	2606:4700:10::ac42:a483, 2606:4700:10::6814:1c5e
2	**Globally Routable IPv6**	PASS	All addresses are globally routable.
3	**HTTP over IPv6**	PASS	HTTP (port 80) responds over IPv6 — 107ms TTFB.
4	**HTTPS over IPv6**	PASS	HTTPS (port 443) responds over IPv6 — 68ms TTFB.
5	**IPv6-Only Reachability**	PASS	Site is fully reachable via IPv6-only.
6	**TLS Certificate Valid (IPv6)**	PASS	Certificate valid — issued by C = GB, O = Sectigo Limited, CN = Sectigo Public Server Authentication CA OV R36, expires Oct 8 23:59:59 2026 GMT
7	**Dual-Stack (IPv4 + IPv6)**	PASS	Domain has both A and AAAA records.
8	**HTTP/3 (QUIC)**	PASS	Alt-Svc: h3 header 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.

#	CHECK	RESULT	DETAIL
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	DKIM selector found: selector2._domainkey
7	**DMARC Record**	PASS	DMARC record found.

IPv4 Baseline (15%) — 3 / 3

#	CHECK	RESULT	DETAIL
1	**A Record**	PASS	104.20.28.94, 172.66.164.131
2	**HTTP over IPv4**	PASS	HTTP (port 80) responds over IPv4 — 109ms TTFB.
3	**HTTPS over IPv4**	PASS	HTTPS (port 443) responds over IPv4 — 73ms TTFB.

Audit Trail & Evidence Record

Verification ID	6cea76ae-b4d1-4e5b-9117-b43b605d3ea4
Domain	swinburne.edu.my
Check Mode	Manual
Status	Completed
Started	08 Aug 2026, 18:32:51 MYT
Finished	08 Aug 2026, 18:32:57 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/6cea76ae-b4d1-4e5b-9117-b43b605d3ea4

Integrity Verification

✓ **INTEGRITY VERIFIED**

Algorithm	hmac-sha256-v1
Root Hash	ee3cba34c3633fee56c8d362a3bd74d3adaf708e887861a7b748b0bd36e0f587
http_headers	cf25f3eb1977bea11dbd3e9d72996c0b43114047f56f270e18e2c2c8881b4f67
dns_responses	c1159e9b653622fcf7ab68ce9e9726a06e7c0adeae6ffc278b41e8de34031633
tls_handshake	2a13c5f340ec9fc30af54e30b3cf07f920f3ea1fbe93b925308d10131d32ad3b
connectivity_log	ba0ea755e2c0a75940332d3f67407153930fe0e433c7a57aaee97d68ab63700c
dns_resolution_times	74dcbd1586c0a4ad75e90a223d6c74911a54354ee8448e8b7fb23884cbacb3ad

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	21.65	24.14	22.92	25.47	+1.3
Google	IPv4	89.83	89.88	89.64	99.97	-0.2
Google	IPv6	81.1	86.6	84.26	100.4	+3.2
Cloudflare	IPv4	23.77	31.91	20.28	21.23	-3.5
Cloudflare	IPv6	31.53	32.97	41.31	45.35	+9.8

DNS Evidence

A

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 18025
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
swinburne.edu.my.□300□IN□A□172.66.164.131
swinburne.edu.my.□300□IN□A□104.20.28.94
```

DS

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 38497
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
edu.my.□□□3578□IN□SOA□e.nic.my. hostmaster.nic.my. 2026062863 1800 900 604800 3600
```

MX

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 19771
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
swinburne.edu.my.□300□IN□MX□50 swinburne-edu-my.mail.protection.outlook.com.
swinburne.edu.my.□300□IN□MX□0 swinburnesarawak.in.tmes-sg.trendmicro.com.
```

NS

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 29622
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
swinburne.edu.my.□59610□IN□NS□achiel.ns.cloudflare.com.
swinburne.edu.my.□59610□IN□NS□erin.ns.cloudflare.com.
```

TXT

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 48204
;; flags: qr rd ra; QUERY: 1, ANSWER: 5, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
swinburne.edu.my.□300□IN□TXT□"v=spf1 include:spf.tmes.trendmicro.com include:spf.tmes-sg.trendmicro.com include:spf.protection.outlook.com
include:spf.watermarkinsights.com include:eskerondemand.com include:servers.mcsv.net ip4:58.26.207.18 ip4:58.26.207.29 ip4:58.26.207.250 " "ip4:159.183.168.142
ip4:167.89.6.85 -all"
swinburne.edu.my.□300□IN□TXT□"vviioj42ipu8tr1slgmn06cgu7"
swinburne.edu.my.□300□IN□TXT□"brevo-code:36e1956fe2ddd61a47cc1feb68228821"
swinburne.edu.my.□300□IN□TXT□"bw=f9XDhRwp6NXrhunRx61GyA1bA0GApqCkk65V8gfTidGz"
swinburne.edu.my.□300□IN□TXT□"google-site-verification=dDjcPtQD3L2b2Dzgiq9OCKet358A2Ivgir2MO_36ev4"
```

AAAA

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 56932
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
swinburne.edu.my.□300□IN□AAAA□2606:4700:10::ac42:a483
swinburne.edu.my.□300□IN□AAAA□2606:4700:10::6814:1c5e
```

RRSIG

```
achiel.ns.cloudflare.com. dns.cloudflare.com. 2410790987 10000 2400 604800 1800
```

DNSKEY

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 61911
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
swinburne.edu.my.□1797□IN□SOA□achiel.ns.cloudflare.com. dns.cloudflare.com. 2410790987 10000 2400 604800 1800
```

DNSSEC_VALIDATION

```
; unsigned answer
swinburne.edu.my.□1797□IN□SOA□achiel.ns.cloudflare.com. dns.cloudflare.com. 2410790987 10000 2400 604800 1800
```

TLS Handshake Evidence

IPV4 Connection

IP Used	104.20.28.94
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 = Sarawak, O = SWINBURNE UNIVERSITY OF TECHNOLOGY, CN = *.swinburne.edu.my
verify return:1
CONNECTED(00000010)
---
Certificate chain
 0 s:C = MY, ST = Sarawak, O = SWINBURNE UNIVERSITY OF TECHNOLOGY, CN = *.swinburne.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: Oct 13 00:00:00 2025 GMT; NotAfter: Oct  8 23:59:59 2026 GMT
-----BEGIN CERTIFICATE-----
MIIHMTCCBZmgAwIBAgIQMll1FjU1q2oIdzKq/EgakBzANBgkqhkiG9w0BAQsFADBg
MQswCQYDVQQGEwJHQjEYMBYGA1UEChMPU2VjdGlnbyBMaW1pdGVkMTcwNQYDVQQD
Ey5TZWN0aWdvIFB1YmxpYyBTZXJ2ZXIgQXV0aGVudGljYXRpb24gQ0EgT1YgUjM2
MB4XDTI1MTAxMzAwMDAwMFoXDTI2MTAwODIzNTk1OVowaTELMAkGA1UEBhMCTVkx
EDAOBgNVBAgTB1NhcmF3YWsxKzApBgNVBAoTIlNXSU5CVVJORSBVTklWRVJTSVRZ
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DQYJKoZIhvcNAQEBBQADggEPADCCAQoCggEBAMMvc0xsH1jDekw/eYCAiw0cDQVa
8LGtnok62pyWhX8NlyhIqfeYnNSQuLMnc6eDIs4OBww4a9Q/BwVHfnTjin63Z6LD
/9PNLKiWknTIyxWF7g+a8cwd/Xq8mG2qUgxoh783ng1/Jpb+BIORqlcIuMPMweiM
mcdkPHYBUGH/70IAPAi8hcgIR33BKzCcoMLCPAznkAUE57biPJD10ZDv3NIubVkm
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djCzcBeN9vIpDC2jaDp70ZyAGz1R3INUNQ+Phogrp/ZYx/eT+VzrV0pFtWsCAwEA
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DgQWBBS/A4w/qobKo3o8Aw7kB0SkJLXK9jAOBgNVHQ8BAf8EBAMCBaAwDAYDVR0T
AQH/BAIwADAdBgNVHSUEFjAUBggrBgEFBQcDAQYIKwYBBQUHAwIwSgYDVR0gBEMw
QTA1BgwrBgEEAbIxAQIBAwQwJTAjBggrBgEFBQcCARYXaHR0cHM6Ly9zZWN0aWdv
LmNvbS9DUFMwCAYGZ4EMAQICMFQGA1UdHwRNMEswSaBHoEWGQ2h0dHA6Ly9jcmwu
c2VjdGlnby5jb20vU2VjdGlnb1B1YmxpY1NlcnZlckF1dGhlbnRpY2F0aW9uQ0FP
VlIzNi5jcmwwgYQGCCsGAQUFBwEBBHgwdjBPBggrBgEFBQcwAoZDaHR0cDovL2Ny
dC5zZWN0aWdvLmNvbS9TZWN0aWdvUHVibGljU2VydmVyQXV0aGVudGljYXRpb25D
QU9WUjM2LmNydDAjBggrBgEFBQcwAYYXaHR0cDovL29jc3Auc2VjdGlnby5jb20w
LwYDVR0RBCgwJoISKi5zd2luYnVybmUuZWR1Lm15ghBzd2luYnVybmUuZWR1Lm15
MIIBfQYKKwYBBAHWeQIEAgSCAW0EggFpAWcAdgDYCVU7lE96/8gWGW+UT4WrsPj8
XodVJg8V0S5yu0VLFAAAAZncy1xMAAAEAwBHMEUCIBlOikLfYhdBV8AGQVb0j4wV
78dr37zfP12GPkJqanNKAiEAlyLh2yaX7eAmLZDiVP56vvRNS8M9Sy9/6QOmGmb8
28QAdgCvZ4g7V7BO3Y+m2X72LqjrgQrHcWDwJF5V1gwv54WHOgAAAZncy1ynAAAE
AwBHMEUCIFUDIpYjGG7hkozlu6K/Igj4pGxKVkdXY7Okszq+h1tuAiEA+OPgPIkH
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Q7HypoxPPCs7px4CwwAAAZncy1xOAAAEAwBGMEQCID/gjZ/W5je7vGcxMEGNmqX+
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KTANBgkqhkiG9w0BAQsFAAOCAYEAdENGPAK1I0QK04bpbrTxpsv1DEPD2VUztDDR
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0WDewljnjd0rVD2VYSbGKMb9yBI8LLzzBSjKQqh1ZTM36KQMYtye2jtcdnUpxffM
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HsW/KAw/eks7T5oLYdH8FdxJlUAcsaL7ubD0XeYkfQNzXwqbD27krK1mZsaaoXqL
pJwoU+IbPF91d3OP4ZfNSH2J1HCjrEtK5IomirQvGCSi9dDE4WcRw8lclBD11dUD
UvR2RgAOKXhVgaIy2g3jM0Ew7L8gI+OeX2IfGXl3lyLIWjPRfmaJqBLftaY1kR1g
eWxH/7XEO5tF+hhr76cqc6hX7Lx47WkPS0IDp1MPvpwZJKrb0FBdlkAGAYdgoBbP
cjrMo9hC2kkiIWOqsp7RQ0wdaGsB
-----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
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```

bt47u68ZFCD/ac55I0DNHkCpaPruj6e9Rmr7K46wZDAYXuEAqB7tGG/jd6JAA+H2
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lfmSGrASKgRieaFAFYghSTAdBgNVHQ4EFgQU42Z0u3BojSxdTg6mSo+bNyKcgpIw
DgYDVR0PAQH/BAQDAgGGMBIGA1UdEwEB/wQIMAYBAf8CAQAwHQYDVR0lBBYwFAYI
KwYBBQUHAwEGCCsGAQUFBwMCMBsGA1UdIAQUMBIwBgYEVR0gADAIBgZngQwBAgIw
VAYDVR0fBE0wSzBJoEegRYZDaHR0cDovL2NybC5zZWN0aWdvLmNvbS9TZWN0aWdv
UHVibGljU2VydmVyQXV0aGVudGljYXRpb25Sb290UjQ2LmNybDChBhAYIKwYBBQUH
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

IPV6 Connection

IP Used	2606:4700:10::ac42:a483
IP Version	6

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 = Sarawak, O = SWINBURNE UNIVERSITY OF TECHNOLOGY, CN = *.swinburne.edu.my
verify return:1
CONNECTED(00000010)

Certificate chain
 0 s:C = MY, ST = Sarawak, O = SWINBURNE UNIVERSITY OF TECHNOLOGY, CN = *.swinburne.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: Oct 13 00:00:00 2025 GMT; NotAfter: Oct 8 23:59:59 2026 GMT
-----BEGIN CERTIFICATE-----
MIIHMTCCBZmgAwIBAgIQMl1FjU1q2oIdzKq/EgakBzANBgkqhkiG9w0BAQsFADBg
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Ey5TZWN0aWdvIFB1YmxpYyBTZXJ2ZXIgQXV0aGVudGljYXRpb24gQ0EgT1YgUjM2
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-----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
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-----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	104.20.28.94
Connect Time	24.28 ms
TTFB	84.37 ms
Total Time	84.64 ms

Response Headers:


```
{
    "0": "HTTP/1.1 301 Moved Permanently",
    "1": "Date: Sat, 08 Aug 2026 10:32:56 GMT",
    "2": "Content-Type: text/html; charset=UTF-8",
    "3": "Connection: keep-alive",
    "4": "Location: https://swinburne.edu.my/",
    "5": "X-Content-Type-Options: nosniff",
    "6": "Server: cloudflare",
    "7": "CF-RAY: a27ddc2a7b45ce32-SIN",
    "8": "alt-svc: h3=\":443\"; ma=86400",
    "10": "HTTP/2 301",
    "11": "date: Sat, 08 Aug 2026 10:32:56 GMT",
    "12": "content-type: text/html; charset=UTF-8",
    "13": "location: https://www.swinburne.edu.my/",
    "14": "strict-transport-security: max-age=15552000; includeSubDomains; preload",
    "15": "x-content-type-options: nosniff",
    "16": "server: cloudflare",
    "17": "cf-ray: a27ddc2aaf53fe87-SIN",
    "18": "alt-svc: h3=\":443\"; ma=86400",
    "20": "HTTP/2 403",
    "21": "date: Sat, 08 Aug 2026 10:32:56 GMT",
    "22": "content-type: text/html; charset=UTF-8",
    "23": "content-length: 5219",
    "24": "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",
    "25": "cf-mitigated: challenge",
    "26": "content-security-policy: default-src 'none'; script-src 'nonce-Nu6Na2fBXF0wlL3looPquz' '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'",
    "27": "server: cloudflare",
    "28": "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",
    "29": "cross-origin-embedder-policy: require-corp",
    "30": "cross-origin-opener-policy: same-origin",
    "31": "cross-origin-resource-policy: same-origin",
    "32": "origin-agent-cluster: ?1",
    "33": "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=*",
    "34": "referrer-policy: same-origin",
    "35": "server-timing: chlray;desc=\"a27ddc2adefc5880\"",
    "36": "x-content-type-options: nosniff",
    "37": "x-frame-options: SAMEORIGIN",
    "38": "strict-transport-security: max-age=15552000; includeSubDomains; preload",
    "39": "cf-ray: a27ddc2adefc5880-SIN",
    "40": "alt-svc: h3=\":443\"; ma=86400"
}
```


IPv6 HTTP (port 80)

HTTP Status	403
Connected IP	2606:4700:10::6814:1c5e
Connect Time	39.73 ms
TTFB	112.97 ms
Total Time	113.14 ms

Response Headers:


```
{
    "0": "HTTP/1.1 301 Moved Permanently",
    "1": "Date: Sat, 08 Aug 2026 10:32:56 GMT",
```

```
    "2": "Content-Type: text/html; charset=UTF-8",
    "3": "Connection: keep-alive",
    "4": "Location: https://swinburne.edu.my/",
    "5": "X-Content-Type-Options: nosniff",
    "6": "Server: cloudflare",
    "7": "CF-RAY: a27ddc295876b251-SIN",
    "8": "alt-svc: h3=\":443\"; ma=86400",
    "10": "HTTP/2 301",
    "11": "date: Sat, 08 Aug 2026 10:32:56 GMT",
    "12": "content-type: text/html; charset=UTF-8",
    "13": "location: https://www.swinburne.edu.my/",
    "14": "strict-transport-security: max-age=15552000; includeSubDomains; preload",
    "15": "x-content-type-options: nosniff",
    "16": "server: cloudflare",
    "17": "cf-ray: a27ddc299840c887-SIN",
    "18": "alt-svc: h3=\":443\"; ma=86400",
    "20": "HTTP/2 403",
    "21": "date: Sat, 08 Aug 2026 10:32:56 GMT",
    "22": "content-type: text/html; charset=UTF-8",
    "23": "content-length: 5240",
    "24": "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",
    "25": "cf-mitigated: challenge",
    "26": "content-security-policy: default-src 'none'; script-src 'nonce-HBAihr10V5rNTbjXKSLk3L' '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'",
    "27": "server: cloudflare",
    "28": "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",
    "29": "cross-origin-embedder-policy: require-corp",
    "30": "cross-origin-opener-policy: same-origin",
    "31": "cross-origin-resource-policy: same-origin",
    "32": "origin-agent-cluster: ?1",
    "33": "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=*",
    "34": "referrer-policy: same-origin",
    "35": "server-timing: chlray;desc=\"a27ddc29ecc2ff85\"",
    "36": "x-content-type-options: nosniff",
    "37": "x-frame-options: SAMEORIGIN",
    "38": "strict-transport-security: max-age=15552000; includeSubDomains; preload",
    "39": "cf-ray: a27ddc29ecc2ff85-SIN",
    "40": "alt-svc: h3=\":443\"; ma=86400"
}
```


IPv4 HTTPS (port 443)

HTTP Status	403
Connected IP	104.20.28.94
Connect Time	15.75 ms
TTFB	67.64 ms
Total Time	67.75 ms

Response Headers:


```
{
    "0": "HTTP/2 301",
    "1": "date: Sat, 08 Aug 2026 10:32:56 GMT",
    "2": "content-type: text/html; charset=UTF-8",
    "3": "location: https://www.swinburne.edu.my/",
    "4": "strict-transport-security: max-age=15552000; includeSubDomains; preload",
    "5": "x-content-type-options: nosniff",
    "6": "server: cloudflare",
    "7": "cf-ray: a27ddc2b1f713de1-SIN",
    "8": "alt-svc: h3=\":443\"; ma=86400",
    "10": "HTTP/2 403",
    "11": "date: Sat, 08 Aug 2026 10:32:56 GMT",
    "12": "content-type: text/html; charset=UTF-8",
    "13": "content-length: 5219",
    "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-4XEsVNhZhDOZBTCrCxmT16' '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=\"a27ddc2b4fe08823\"",
"26": "x-content-type-options: nosniff",
"27": "x-frame-options: SAMEORIGIN",
"28": "strict-transport-security: max-age=15552000; includeSubDomains; preload",
"29": "cf-ray: a27ddc2b4fe08823-SIN",
"30": "alt-svc: h3=\":443\"; ma=86400"
}

IPv6 HTTPS (port 443)

HTTP Status	403
Connected IP	2606:4700:10::6814:1c5e
Connect Time	16.67 ms
TTFB	69.07 ms
Total Time	69.16 ms

Response Headers:

{
"0": "HTTP/2 301",
"1": "date: Sat, 08 Aug 2026 10:32:56 GMT",
"2": "content-type: text/html; charset=UTF-8",
"3": "location: https://www.swinburne.edu.my/",
"4": "strict-transport-security: max-age=15552000; includeSubDomains; preload",
"5": "x-content-type-options: nosniff",
"6": "server: cloudflare",
"7": "cf-ray: a27ddc2a19d89daa-SIN",
"8": "alt-svc: h3=\":443\"; ma=86400",
"10": "HTTP/2 403",
"11": "date: Sat, 08 Aug 2026 10:32:56 GMT",
"12": "content-type: text/html; charset=UTF-8",
"13": "content-length: 5240",
"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-JYM3lPEpmXI12vfh85h2UJ' '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=\"a27ddc2a5bc96141\"",
"26": "x-content-type-options: nosniff",
"27": "x-frame-options: SAMEORIGIN",
"28": "strict-transport-security: max-age=15552000; includeSubDomains; preload",
"29": "cf-ray: a27ddc2a5bc96141-SIN",
"30": "alt-svc: h3=\":443\"; ma=86400"
}

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	301 0.007112 0.027062
TCP Connect IPv6 → port 80	301 0.006628 0.036400
TCP Connect IPv4 → port 443	301 0.007100 0.043698
TCP Connect IPv6 → port 443	301 0.007312 0.046675

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
```