IPv6 Readiness Report

nottingham.edu.my — nottingham.edu.my

Scan to verify

Category: Education • Generated: 02 Nov 2026, 03:04 MYT • Last Checked: 08 Aug 2026, 18:33 MYT • Verification ID: 5f9caac1-5669-41b6-a4af-74570d00d753
Report generated from National IPv6 Readiness Monitor — https://ipv6.my6.my
Audit trail: https://ipv6.my6.my/audit/5f9caac1-5669-41b6-a4af-74570d00d753

✗

Non-Compliant

MGv6C-1.0

55%

No IPv6 Support

IPV6-ONLY READINESS

Website: ✗ **Not Ready**

DNS: ✓ **Ready**

Email: ✗ **Not Ready**

IPV4 ADDRESSES

54.169.224.24

Network Information (WHOIS / RDAP)

	IPv4 Network
Organization	Amazon Technologies Inc.
Country	US
ASN	AS16509
ASN Name	AMAZON-02 - Amazon.com, Inc., US
Network (CIDR)	54.144.0.0/12

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	54.169.224.24
2	**HTTP over IPv4**	PASS	HTTP (port 80) responds over IPv4 — 302ms TTFB.
3	**HTTPS over IPv4**	PASS	HTTPS (port 443) responds over IPv4 — 88ms TTFB.

Audit Trail & Evidence Record

Verification ID	5f9caac1-5669-41b6-a4af-74570d00d753
Domain	nottingham.edu.my
Check Mode	Manual
Status	Completed
Started	08 Aug 2026, 18:32:50 MYT
Finished	08 Aug 2026, 18:33:09 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/5f9caac1-5669-41b6-a4af-74570d00d753

Integrity Verification

✓ **INTEGRITY VERIFIED**

Algorithm	hmac-sha256-v1
Root Hash	fa7b1ba0040795178b4f3959946a2bed8f19ea2ed4657d4a836df85013ce9661
http_headers	7bbfe7b884644c28d21499b79b0690ff5c929b3d4754a3656d9757ccd74662d2
dns_responses	5d10d7e6b08cf07c1d2ca30846084945a6f857cadea682ffd381a40e66ca6be8
tls_handshake	0fd7a55346657ba7c497489857a086ad78178c5ef6df4d23f80dd7a8c8fe95f8
connectivity_log	1ff3985a218fa4b9ce8b00b84f91e6d575486371b5975d760ca84d3f3804a2ab
dns_resolution_times	3e3460a4c96e2b6ecb4e460f6cea28186b6188e059dd5c155653214bf16e8bda

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	21.86	23.82	25.25	25.27	+3.4
Google	IPv4	80.99	84.11	87.05	101.96	+6.1
Google	IPv6	89.89	90.77	87.4	93.26	-2.5
Cloudflare	IPv4	25.78	25.89	24.18	25.03	-1.6
Cloudflare	IPv6	21.95	107.55	24.85	32.88	+2.9

DNS Evidence

A

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 21021
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
nottingham.edu.my.	3600	IN	A	54.169.224.24
```

DS

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 33695
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
edu.my.		3565	IN	SOA	e.nic.my. hostmaster.nic.my. 2026062863 1800 900 604800 3600
```

MX

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 32740
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

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

NS

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 33181
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
nottingham.edu.my.	59581	IN	NS	ns-1194.awsdns-21.org.
nottingham.edu.my.	59581	IN	NS	ns-1605.awsdns-08.co.uk.
nottingham.edu.my.	59581	IN	NS	ns-270.awsdns-33.com.
nottingham.edu.my.	59581	IN	NS	ns-728.awsdns-27.net.
```

TXT

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 30412
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
nottingham.edu.my.	300	IN	TXT	"v=spf1 ip4:203.217.128.25 ip4:203.217.128.2 ip4:128.243.0.0/16 ip4:117.20.42.12 ip4:54.206.1.219 include:_spf.google.com
include:t1cloud.com include:spf.protection.outlook.com include:aspmx.pardot.com include:_spf0000000.nottingham.ac.uk -all"
nottingham.edu.my.	300	IN	TXT	"e47m0d931vrqt3d5v8oh9cjgk2"
```

AAAA

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 50604
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
nottingham.edu.my.	883	IN	SOA	ns-270.awsdns-33.com. awsdns-hostmaster.amazon.com. 1 7200 900 1209600 86400
```

RRSIG

```
ns-270.awsdns-33.com. awsdns-hostmaster.amazon.com. 1 7200 900 1209600 86400
```

DNSKEY

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 61608
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
nottingham.edu.my.	883	IN	SOA	ns-270.awsdns-33.com. awsdns-hostmaster.amazon.com. 1 7200 900 1209600 86400
```

DNSSEC_VALIDATION

```
; unsigned answer
nottingham.edu.my.	883	IN	SOA	ns-270.awsdns-33.com. awsdns-hostmaster.amazon.com. 1 7200 900 1209600 86400
```

TLS Handshake Evidence

IPV4 Connection

IP Used	54.169.224.24
IP Version	4

```
depth=2 C = US, ST = Arizona, L = Scottsdale, O = "Starfield Technologies, Inc.", CN = Starfield Root Certificate Authority - G2
verify return:1
depth=1 C = US, ST = Arizona, L = Scottsdale, O = "Starfield Technologies, Inc.", OU = http://certs.starfieldtech.com/repository/, CN = Starfield Secure Certificate
Authority - G2
verify return:1
depth=0 CN = www.nottingham.edu.my
verify return:1
CONNECTED(00000010)
---
Certificate chain
 0 s:CN = www.nottingham.edu.my
   i:C = US, ST = Arizona, L = Scottsdale, O = "Starfield Technologies, Inc.", OU = http://certs.starfieldtech.com/repository/, CN = Starfield Secure Certificate
Authority - G2
   a:PKEY: rsaEncryption, 4096 (bit); sigalg: RSA-SHA256
   v:NotBefore: Apr 30 05:27:04 2026 GMT; NotAfter: Nov 14 05:27:04 2026 GMT
-----BEGIN CERTIFICATE-----
MIIHzDCCBrSgAwIBAgIJAPd4vQD67k2rMA0GCSqGSIb3DQEBCwUAMIHGMQswCQYD
VQQGEwJVUzEQMA4GA1UECBMHQXJpem9uYTETMBEGA1UEBxMKU2NvdHRzZGFsZTEl
MCMGA1UEChMcU3RhcmZpZWxkIFRlY2hub2xvZ2llcywgSW5jLjEzMDEGA1UECxMq
aHR0cDovL2NlcnRzLnN0YXJmaWVsZHRlY2guY29tL3JlcG9zaXRvcnkvMTQwMgYD
VQQDEytTdGFyZmllbGQgU2VjdXJlIENlcnRpZmljYXRlIEF1dGhvcml0eSAtIEcy
MB4XDTI2MDQzMDA1MjcwNFoXDTI2MTExNDA1MjcwNFowIDEeMBwGA1UEAxMVd3d3
Lm5vdHRpbmdoYW0uZWR1Lm15MIICIjANBgkqhkiG9w0BAQEFAAOCAg8AMIICCgKC
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8nQtXLmJJGFsWZ+0v1W1IFnqPBNnvhkWvxAQq634bl77A/eTds0w38rvO7TfnJ3w
3dSulWJQdi0WouQugHRYRAMVL2cMHOiK3hytC9+COTsC541Ut3qYzjcfNf9pET+u
j4uzE7+qJ5zEAE7DjEJMbSLo+xBk4X6ZefAdm4WlOtV+nCvueg7ux+GwDJWv4j9w
SINmcgi3Y/XBpHQ4T5c6s/04E8hBL7cR4fUiDuQzE0/M19yIZbFLfCbPhPNoPd0H
q8DgCVIGFrTgiMeSJAmhYFSmn4LNLiMEwzLaxkflLMVPO4Jq7wH2sv2ukNF0FKIW
9TYIyCapBGA1l1wnZBWYMOR6z4WfcWGh8senvHbxzCuMwgFi7fDaipvpQkk+SnAO
B2S1QM0wLHZ9XoQmD2tRXTaJTQTroeJrN1Mwf2aOPAQVLwp52B0561q4IxicTXGq
TGlolKP0wBLxReF/8ub9z7kiZ6y7IFOYUmf71oqQDg3YxF3+++kbl5UQmKFm9fwQ
g+duv2LlUMHEpDrU73j3bLS0HcKBaU5PbkOfQObj9r4VZowObHCBWe1EfUH/gl/K
cO/ppM/ngRkyfbOBwcYWPetLlkLNraJs5j18rQc/3WYtsz0CAwEAAaOCA2AwggNc
MAwGA1UdEwEB/wQCMAAwHQYDVR0lBBYwFAYIKwYBBQUHAwEGCCsGAQUFBwMCMA4G
A1UdDwEB/wQEAwIFoDA9BgNVHR8ENjA0MDKgMKAuhixodHRwOi8vY3JsLnN0YXJm
aWVsZHRlY2guY29tL3NmaWcyczEtOTQxLmNybDBjBgNVHSAEXDBaMAgGBmeBDAEC
ATBOBgtghkgBhv1uAQcXATA/MD0GCCsGAQUFBwIBFjFodHRwOi8vY2VydGlmaWNh
dGVzLnN0YXJmaWVsZHRlY2guY29tL3JlcG9zaXRvcnkvMIGCBggrBgEFBQcBAQR2
MHQwRgYIKwYBBQUHMAKGOmh0dHA6Ly9jZXJ0aWZpY2F0ZXMuc3RhcmZpZWxkdGVj
aC5jb20vcmVwb3NpdG9yeS9zZmlnMi5jcnQwKgYIKwYBBQUHMAGGHmh0dHA6Ly9v
Y3NwLnN0YXJmaWVsZHRlY2guY29tLzAfBgNVHSMEGDAWgBQlRYFoUCY4PTstLL7N
atm2PbNmYzAzBgNVHREELDAqghV3d3cubm90dGluZ2hhbS5lZHUubXmCEW5vdHRp
bmdoYW0uZWRlLm15MB0GA1UdDgQWBBQxEd1gXHVSL1/3uxONol4VU45RKjCCAX0G
CisGAQQB1nkCBAIEggFtBIIBaQFnAHYAwjF+V0UZo0XufzjespBB68fCIVoiv3/V
ta12mtkOUs0AAAGd3NrgNgAABAMARzBFAiAHxJuiG04UVgudZS1QIv1Fy3r6tOQ8
yp1VPFnFlOrkwwIhAPpTLwPGMQK8Cao6QR+qxfrTco1x494MuFk7f1g8YQIfAHYA
lE5Dh/rswe+B8xkkJqgYZQHH0184AgE/cmd9VTcuGdgAAAGd3NrhBgAABAMARzBF
AiBThuszwZTSVzzYchSfV7nRCw9d2fTw0odD2zJvDlxz1wIhAN+qsAuBWxuTKfWw
1CFkxRk5BSiK6gcuPAC/H8Q1a6AkAHUAyzj3FYl8hKFEX1vB3fvJbvKaWc1HCmkF
hbDLFMMUWOcAAAGd3Nrh4gAABAMARjBEAiAlQz2qAguVGhA9dc5ThIzC477mCM7+
CKc8Bm211EJP2QIgT8+TsjyqMOE25zEb3/ss031tMQkzaONOgQrQpfTA3kswDQYJ
KoZIhvcNAQELBQADggEBAMe3+MaKcUF7+SYmv9fcrb3FmcL/NQieI/bVYoxKJxwF
9y0lrWdhYedlJisfsuUKmcoXRD2/Jp6WL9eDW6y4l4PoiH6NYLUPK6ekUyFTIn3Y
NVMbs5xzt8v55M7rBZF4f1ujDQjz0bZx/Hg+QrXsHGokZ55Qft/nQK3c1JKZ5r72
1mVPIjbXl5LhiqmrT44WLhsVqeN+vp23leJ6Rdv0AhEYu7Kxi8QYGimzUlDRNeFY
j1ngVshpkw+hYG66TV9IFGTxz0/+cI5qVFUEfgzUu+rCk0bCU6+srBrWg0EouqtN
dtoFZeK8BaVyfVTpgXWPIQ5b52a2znKfcFqyO6PAcCQ=
-----END CERTIFICATE-----
 1 s:C = US, ST = Arizona, L = Scottsdale, O = "Starfield Technologies, Inc.", OU = http://certs.starfieldtech.com/repository/, CN = Starfield Secure Certificate
Authority - G2
   i:C = US, ST = Arizona, L = Scottsdale, O = "Starfield Technologies, Inc.", CN = Starfield Root Certificate Authority - G2
   a:PKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA256
   v:NotBefore: May  3 07:00:00 2011 GMT; NotAfter: May  3 07:00:00 2031 GMT
-----BEGIN CERTIFICATE-----
MIIFADCCA+igAwIBAgIBBzANBgkqhkiG9w0BAQsFADCBjzELMAkGA1UEBhMCVVMx
EDAOBgNVBAgTB0FyaXpvbmExEzARBgNVBAcTClNjb3R0c2RhbGUxJTAjBgNVBAoT
HFN0YXJmaWVsZCBUZWNobm9sb2dpZXMsIEluYy4xMjAwBgNVBAMTKVN0YXJmaWVs
ZCBSb290IENlcnRpZmljYXRlIEF1dGhvcml0eSAtIEcyMB4XDTExMDUwMzA3MDAw
MFoXDTMxMDUwMzA3MDAwMFowgcYxCzAJBgNVBAYTAlVTMRAwDgYDVQQIEwdBcml6
b25hMRMwEQYDVQQHEwpTY290dHNkYWxlMSUwIwYDVQQKExxTdGFyZmllbGQgVGVj
aG5vbG9naWVzLCBJbmMuMTMwMQYDVQQLEypodHRwOi8vY2VydHMuc3RhcmZpZWxk
dGVjaC5jb20vcmVwb3NpdG9yeS8xNDAyBgNVBAMTK1N0YXJmaWVsZCBTZWN1cmUg
```

```
Q2VydGlmaWNhdGUgQXV0aG9yaXR5IC0gRzIwggEiMA0GCSqGSIb3DQEBAQUAA4IB
DwAwggEKAoIBAQDlkGZL7PlGcakgg77pbL9KyUhpgXVObST2yxcT+LBxWYR6ayuF
pDS1FuXLzOlBcCykLtb6Mn3hqN6UEKwxwcDYav9ZJ6t21vwLdGu4p64/xFT0tDFE
3ZNWjKRMXpuJyySDm+JXfbfYEh/JhW300YDxUJuHrtQLEAX7J7oobRfpDtZNuTlV
Bv8KJAV+L8YdcmzUiymMV33a2etmGtNPp99/UsQwxaXJDgLFU793OGgGJMNmyDd+
MB5FcSM1/5DYKp2N57CSTTx/KgqT3M0WRmX3YISLdkuRJ3MUkuDq7o8W6o0OPnYX
v32JgIBEQ+ct4EMJddo26K3biTr1XRKOIwSDAgMBAAGjggEsMIIBKDAPBgNVHRMB
Af8EBTADAQH/MA4GA1UdDwEB/wQEAwIBBjAdBgNVHQ4EFgQUJUWBaFAmOD07LSy+
zWrZtj2zZmMwHwYDVR0jBBgwFoAUfAwyH6fZMH/EfWijYqihzqsHWycwOgYIKwYB
BQUHAQEELjAsMCoGCCsGAQUFBzABhh5odHRwOi8vb2NzcC5zdGFyZmllbGR0ZWNo
LmNvbS8wOwYDVR0fBDQwMjAwoC6gLIYqaHR0cDovL2NybC5zdGFyZmllbGR0ZWNo
LmNvbS9zZnJvb3QtZzIuY3JsMEwGA1UdIARFMEMwQQYEVR0gADA5MDcGCCsGAQUF
BwIBFitodHRwczovL2NlcnRzLnN0YXJmaWVsZHRlY2guY29tL3JlcG9zaXRvcnkv
MA0GCSqGSIb3DQEBCwUAA4IBAQBWZcr+8z8KqJOLGMfeQ2kTNCC+Tl94qGuc22pN
QdvBE+zcMQAiXvcAngzgNGU0+bE6TkjIEoGIXFs+CFN69xpk37hQYcxTUUApS8L0
rjpf5MqtJsxOYUPl/VemN3DOQyuwlMOS6eFfqhBJt2nk4NAfZKQrzR9voPiEJBjO
eT2pkb9UGBOJmVQRDVXFJgt5T1ocbvlj2xSApAer+rKluYjdkf5lO6Sjeb6JTeHQ
sPTIFwwKlhR8Cbds4cLYVdQYoKpBaXAko7nv6VrcPuuUSvC33l8Odvr7+2kDRUBQ
7nIMpBKGgc0T0U7EPMpODdIm8QC3tKai4W56gf0wrHofx1l7
-----END CERTIFICATE-----
---
Server certificate
subject=CN = www.nottingham.edu.my
issuer=C = US, ST = Arizona, L = Scottsdale, O = "Starfield Technologies, Inc.", OU = http://certs.starfieldtech.com/repository/, CN = Starfield Secure Certificate
Authority - G2
---
No client certificate CA names sent
Peer signing digest: SHA256
Peer signature type: RSA
Server Temp Key: ECDH, prime256v1, 256 bits
---
```

HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	200
Connected IP	54.169.224.24
Connect Time	18.42 ms
TTFB	65.43 ms
Total Time	65.55 ms

Response Headers:


```
{
    "0": "HTTP/1.1 301 Moved Permanently",
    "1": "content-length: 0",
    "2": "location: https://www.nottingham.edu.my/",
    "3": "Date: Sat, 08 Aug 2026 10:38:20 GMT",
    "4": "x-url: /",
    "5": "x-host: nottingham.edu.my",
    "6": "x-grace: 24h",
    "7": "X-TTL: 28800.000",
    "8": "X-Cacheable: YES",
    "9": "X-Varnish: 65659 294915",
    "10": "Age: 432",
    "11": "Via: 1.1 varnish-v4",
    "12": "x-edge-age: 432",
    "13": "Cache-Control: no-cache",
    "14": "Pragma: no-cache",
    "15": "X-Cache-ASPX: true",
    "16": "Expires: -1",
    "18": "HTTP/1.1 200 OK",
    "19": "content-type: text/html; charset=utf-8",
    "20": "x-contensis-viewer-groups: 0",
    "21": "x-node: 9692839",
    "22": "surrogate-control: max-age=3601",
    "23": "date: Sat, 08 Aug 2026 10:05:28 GMT",
    "24": "x-origin-server: z-uon-WEB2",
    "25": "x-backend-ttl: 3601.000",
    "26": "x-varnish: 672821679 668916225",
    "27": "x-varnish-authentication: skip",
    "28": "x-age: 1197",
    "29": "x-server-name: z-uon-CACHE1",
    "30": "strict-transport-security: max-age=15768000",
    "31": "x-geoip-country-code: SG",
    "32": "x-url: /",
    "33": "x-host: www.nottingham.edu.my",
    "34": "x-grace: 24h",
    "35": "X-TTL: 3601.000",
    "36": "X-Cacheable: Refetch forced by user",
    "37": "Vary: Accept-Encoding",
    "38": "X-Varnish: 590051 65551",
    "39": "Age: 461",
    "40": "Via: 1.1 varnish-v4",
    "41": "x-edge-age: 461",
    "42": "Cache-Control: no-cache",
    "43": "Pragma: no-cache",
    "44": "X-Cache-ASPX: true",
    "45": "Expires: -1",
    "46": "Accept-Ranges: bytes"
}
```


IPv4 HTTPS (port 443)

HTTP Status	200
Connected IP	54.169.224.24
Connect Time	17.57 ms
TTFB	95.03 ms
Total Time	95.15 ms

Response Headers:


```
{
    "0": "HTTP/1.1 301 Moved Permanently",
    "1": "content-length: 0",
```

```
    "2": "location: https://www.nottingham.edu.my/",
    "3": "Date: Sat, 08 Aug 2026 10:38:20 GMT",
    "4": "x-url: /",
    "5": "x-host: nottingham.edu.my",
    "6": "x-grace: 24h",
    "7": "X-TTL: 28800.000",
    "8": "X-Cacheable: YES",
    "9": "X-Varnish: 65661 294915",
    "10": "Age: 433",
    "11": "Via: 1.1 varnish-v4",
    "12": "x-edge-age: 433",
    "13": "Cache-Control: no-cache",
    "14": "Pragma: no-cache",
    "15": "X-Cache-ASPX: true",
    "16": "Expires: -1",
    "18": "HTTP/1.1 200 OK",
    "19": "content-type: text/html; charset=utf-8",
    "20": "x-contensis-viewer-groups: 0",
    "21": "x-node: 9692839",
    "22": "surrogate-control: max-age=3601",
    "23": "date: Sat, 08 Aug 2026 10:05:28 GMT",
    "24": "x-origin-server: z-uon-WEB2",
    "25": "x-backend-ttl: 3601.000",
    "26": "x-varnish: 672821679 668916225",
    "27": "x-varnish-authentication: skip",
    "28": "x-age: 1197",
    "29": "x-server-name: z-uon-CACHE1",
    "30": "strict-transport-security: max-age=15768000",
    "31": "x-geoip-country-code: SG",
    "32": "x-url: /",
    "33": "x-host: www.nottingham.edu.my",
    "34": "x-grace: 24h",
    "35": "X-TTL: 3601.000",
    "36": "X-Cacheable: Refetch forced by user",
    "37": "Vary: Accept-Encoding",
    "38": "X-Varnish: 622844 65551",
    "39": "Age: 461",
    "40": "Via: 1.1 varnish-v4",
    "41": "x-edge-age: 461",
    "42": "Cache-Control: no-cache",
    "43": "Pragma: no-cache",
    "44": "X-Cache-ASPX: true",
    "45": "Expires: -1",
    "46": "Accept-Ranges: bytes"
}
```


Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	301 0.007669 0.015442
TCP Connect IPv4 → port 443	301 0.007658 0.044167

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
```