

IPv6 Readiness Report

nottingham.edu.my — nottingham.edu.my



Scan to verify

Category: Education • Generated: 30 Jul 2026, 07:48 MYT • Last Checked: 04 Jul 2026, 03:53 MYT • Verification ID: 92f17013-679b-4c10-aaa6-0f18bf2638fa
Report generated from National IPv6 Readiness Monitor — <https://ipv6.my6.my>
Audit trail: <https://ipv6.my6.my/audit/92f17013-679b-4c10-aaa6-0f18bf2638fa>

X

Non-Compliant

MGv6C-1.0

47%

No IPv6 Support

IPv6-ONLY READINESS

Website: X Not Ready

DNS: ✓ Ready

Email: X 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 / 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	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 — 63ms TTFB.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 95ms TTFB.

Audit Trail & Evidence Record

Verification ID	92f17013-679b-4c10-aaa6-0f18bf2638fa
Domain	nottingham.edu.my
Check Mode	Manual
Status	Completed
Started	04 Jul 2026, 03:52:55 MYT
Finished	04 Jul 2026, 03:53:19 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/92f17013-679b-4c10-aaa6-0f18bf2638fa

Integrity Verification

✓ INTEGRITY VERIFIED	
Algorithm	hmac-sha256-v1
Root Hash	0c75748ea957ee63bcb026047e270d4fde29127a1b01a675c719fdc88bc0953a
http_headers	106fbab48b6718999a2b503d639da3eb2a3cb424a80cda4d59693f1fca0ac9f9
dns_responses	2426249bb5ed6ed8b49394bcf5436c4ee599b65e15b6083941a44222b0dae443
tls_handshake	53cf8de1ddbb6fd03b2759d38d0bc73f362a64ad5a22a8450be9ba9d5b985f85
connectivity_log	006b5a043947963afd384fa1299024f450807fd18c4e07aadbf1f9ee0d6ea8c48
dns_resolution_times	bc8bf4ec47ce45fcd03b740b497347221b4b267ca4c6d4dfae5954ec7c72f591

Test Node Identity

Os	Linux srv1440888 6.8.0-124-generic #124-Ubuntu SMP PREEMPT_DYNAMIC Tue May 26 13:00:45 UTC 2026 x86_64
Hostname	srv1440888
Php Version	8.3.32
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	23.04	25.98	10.33	21.12	-12.7
Google	IPv4	28.95	37.15	19.99	21.19	-9
Google	IPv6	37.99	54	29.12	42.81	-8.9
Cloudflare	IPv4	22.63	22.75	20.17	20.62	-2.5
Cloudflare	IPv6	26.05	32.77	13.45	23.61	-12.6

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 46213
;; 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: 11613
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags;; udp: 1232
;; AUTHORITY SECTION:
edu.my. 2802 IN SOA e.nic.my. hostmaster.nic.my. 2026052757 1800 900 604800 3600
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 57399
;; 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: 20095
;; 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. 86400 IN NS ns-1194.awsdns-21.org.
nottingham.edu.my. 86400 IN NS ns-1605.awsdns-08.co.uk.
nottingham.edu.my. 86400 IN NS ns-270.awsdns-33.com.
nottingham.edu.my. 86400 IN NS ns-728.awsdns-27.net.
```

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 44710
;; 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:tlcloud.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: 47564
;; 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. 878 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: 55649
;; 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. 877 IN SOA ns-270.awsdns-33.com. awsdns-hostmaster.amazon.com. 1 7200 900 1209600 86400
```

DNSSEC_VALIDATION

```
; unsigned answer
nottingham.edu.my. 877 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:PKKEY: 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-----
MIHHzDCCBrSgAwIBAgIJAPd4vQD67k2rMA0GCSqGSIb3DQEBChUAMIHGMQswCQYD
VQQGEwJVUzEQMA4GA1UECBMHQXJpem9uYTETMBEGA1UEBxMKU2NvdHRzZGFsZTEl
MCMGA1UEChMcU3RhcmZpZWxkIFRlY2hub2xvZ2llcywgSW51LjEzMDEGA1UECmMq
aHR0cDovL2NlcnRzLnN0YXJmaWVsZHRlY2guY29tL3JlcG9zaXRvcnkxMTQwMgYD
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atmZ2PbNmYzAzBgNVHREELDAqghV3d3cubm90dGluZ2hnbS51ZHUubXmCEW5vdHRp
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1E5Dh/rswe+B8xkkJqgY2QH0184AgE/cmd9VTcuGdgAAAGd3NrhBgAABAMARzBF
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ccb8Bm211EjP2QIGT8+TsjyqMOE25zEb3/ss031tMQkzAN0gQrQpftA3kswdQYJ
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dt0fZeK8BavYfVtpgXWPIQ5b52a2znKfcFqy06PacCQ=
-----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:PKKEY: 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+igAwIBAgIBBzANBgkqhkiG9w0BAQ0SFADCBjzELMAKGA1UEBhMCMX
EAD0BgNVBAgTB0FyaXpvcnRlcjEzZDQ6Y29tL3JlcG9zaXRvcnkxMTQwMgYD
VQQGEwJVUzEQMA4GA1UECBMHQXJpem9uYTETMBEGA1UEBxMKU2NvdHRzZGFsZTEl
MCMGA1UEChMcU3RhcmZpZWxkIFRlY2hub2xvZ2llcywgSW51LjEzMDEGA1UECmMq
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VQQDEytdGFyZmllbG0gU2VjdXJlIENlcnRpZmljYXRlIEF1dGhvcml0eSAtIEcy
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atmZ2PbNmYzAzBgNVHREELDAqghV3d3cubm90dGluZ2hnbS51ZHUubXmCEW5vdHRp
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ccb8Bm211EjP2QIGT8+TsjyqMOE25zEb3/ss031tMQkzAN0gQrQpftA3kswdQYJ
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NVMbs5xzt8v55M7rBZF4f1ujDQjz0bZx/Hg+QrXsHGokZ55Qft/nQK3c1JKZ5r72
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```



```
Q2Vy dGlmawNhdGUGuQXV0aG9yaXR5IC0gRzIwggE1MA0GCSqGSIb3DQEBAQUAA4IB
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pD51FuXLz0lBcCyKltb6Mn3hqN6UEKwxwCDYav9ZJ6t21vwLdGu4p64/xFT0tDFE
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LmNvbS9zZnJvb3QtZzIuY3J3sMEwGA1UdIARFMEMwQQYEVROgADA5MDcGCCsGAQUF
BwIBFitodHRwczovL2NlcnRzLnN0YXJmaWVsZHRlY2guY29tL3JlcG9zaXRvcnkx
MA0GCSqGSIb3DQEBCwUAA4IBAQBWZcr+8z8KqJOLGMfeQ2kTNCC+Tl94qGuc22pN
QdvBE+zcMQAiXvcAngzgNGU0+bE6TkjIEoGIXFs+CFN69xpK37hQYcxTUUApS8L0
rjpf5MqtJsxOYUPL/VemN3D0QyuwLM0S6eFfqhBJt2nk4NAfZKQrzR9voPiEJBj0
eT2pkb9UGB0JmVQRDVXFJgt5T1ocbvLj2xSApAer+rKluYjdkf5l06Sjeb6JTeHQ
sPTIFwWKLhR8Cbds4cLYVdQYoKpBaXako7nv6VrcPuuUSvC33l80dvr7+2kDRUBQ
7nImPBKGgcT0U7EPmp0DdIm8QC3tKai4W56gf0wrHofx1l7
-----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	17.27 ms
TTFB	62.3 ms
Total Time	62.42 ms

Response Headers:

```
{
  "0": "HTTP/1.1 301 Moved Permanently",
  "1": "content-length: 0",
  "2": "location: https://www.nottingham.edu.my/",
  "3": "Date: Fri, 03 Jul 2026 19:47:41 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: 33138 229402",
  "10": "Age: 1007",
  "11": "Via: 1.1 varnish-v4",
  "12": "x-edge-age: 1007",
  "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: Fri, 03 Jul 2026 19:05:21 GMT",
  "24": "x-origin-server: z-uon-WEB2",
  "25": "x-backend-ttl: 3601.000",
  "26": "x-varnish: 594944419 593450001",
  "27": "x-varnish-authentication: skip",
  "28": "x-age: 1807",
  "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: 622813 6",
  "39": "Age: 1068",
  "40": "Via: 1.1 varnish-v4",
  "41": "x-edge-age: 1068",
  "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	18.46 ms
TTFB	94.08 ms
Total Time	94.19 ms

Response Headers:

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

```
"2": "location: https://www.nottingham.edu.my/",
"3": "Date: Fri, 03 Jul 2026 19:47:41 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: 33140 229402",
"10": "Age: 1007",
"11": "Via: 1.1 varnish-v4",
"12": "x-edge-age: 1007",
"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: Fri, 03 Jul 2026 19:05:21 GMT",
"24": "x-origin-server: z-uon-WEB2",
"25": "x-backend-ttl: 3601.000",
"26": "x-varnish: 594944419 593450001",
"27": "x-varnish-authentication: skip",
"28": "x-age: 1807",
"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: 622815 6",
"39": "Age: 1068",
"40": "Via: 1.1 varnish-v4",
"41": "x-edge-age: 1068",
"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 0.009141 0.018422
TCP Connect IPv4 → port 443	301 0.008140 0.046405

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
fe80::/64 dev eth0 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