# IPv6 Readiness Report

**nst.com.my — nst.com.my**

Scan to verify

Category: News Portal • Generated: 02 Nov 2026, 03:11 MYT • Last Checked: 08 Aug 2026, 18:21 MYT • Verification ID: 44989ba3-0ecc-4fe3-9e7d-268655225e69
Report generated from National IPv6 Readiness Monitor — https://ipv6.my6.my
Audit trail: https://ipv6.my6.my/audit/44989ba3-0ecc-4fe3-9e7d-268655225e69

✓
**Compliant**
MGv6C-1.0

**90%**
**Fully IPv6 Ready**

**IPV6-ONLY READINESS**
Website: ✓ **Ready**
DNS: ✓ **Ready**
Email: ✓ **Ready**

**IPV6 ADDRESSES**
2606:4700::6812:51c
2606:4700::6812:41c

**IPV4 ADDRESSES**
35.241.55.113

## Network Information (WHOIS / RDAP)

| | IPv6 Network | IPv4 Network |
|---|---|---|
| Organization | Cloudflare, Inc. | Google LLC |
| Country | US | US |
| ASN | AS13335 | AS396982 |
| ASN Name | CLOUDFLARENET - Cloudflare, Inc., US | GOOGLE-CLOUD-PLATFORM - Google LLC, US |
| Network (CIDR) | 2606:4700::/32 | 35.208.0.0/12 |

## Web Services (35%) — 8 / 8

| # | CHECK | RESULT | DETAIL |
|---|---|---|---|
| 1 | **AAAA Record** | PASS | 2606:4700::6812:51c, 2606:4700::6812:41c |
| 2 | **Globally Routable IPv6** | PASS | All addresses are globally routable. |
| 3 | **HTTP over IPv6** | PASS | HTTP (port 80) responds over IPv6. |
| 4 | **HTTPS over IPv6** | PASS | HTTPS (port 443) responds over IPv6 — 76ms TTFB. |
| 5 | **IPv6-Only Reachability** | PASS | Site is fully reachable via IPv6-only. |
| 6 | **TLS Certificate Valid (IPv6)** | PASS | Certificate valid — issued by C = US, O = Google Trust Services, CN = WE1, expires Sep 16 07:15:07 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%) — 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 | 35.241.55.113 |
| 2 | **HTTP over IPv4** | PASS | HTTP (port 80) responds over IPv4 — 36ms TTFB. |
| 3 | **HTTPS over IPv4** | PASS | HTTPS (port 443) responds over IPv4 — 52ms TTFB. |

## Audit Trail & Evidence Record

| | |
|---|---|
| **Verification ID** | 44989ba3-0ecc-4fe3-9e7d-268655225e69 |
| **Domain** | nst.com.my |
| **Check Mode** | Manual |
| **Status** | Completed |
| **Started** | 08 Aug 2026, 18:21:32 MYT |
| **Finished** | 08 Aug 2026, 18:21:39 MYT |
| **Test Node Profile** | dual stack |
| **Engine Version** | 2.0.0 |
| **MGv6C Version** | 1.0.0 |
| **Audit URL** | https://ipv6.my6.my/audit/44989ba3-0ecc-4fe3-9e7d-268655225e69 |

## Integrity Verification

✓ **INTEGRITY VERIFIED**

| | |
|---|---|
| **Algorithm** | hmac-sha256-v1 |
| **Root Hash** | fc7f9b021e830cefebe97716d665bba55760803cea04d5c0a8756a9305f0a21e |
| **http_headers** | 09b19bc1cc70b756300612d3419c1c4bd5ff14f656124235a350d4112524ff80 |
| **dns_responses** | 563402e7f1575f62a2cf46bab49ff4ab6cc04a70a5702efedc8aebecfacde06d |
| **tls_handshake** | a397fcb088c2ed742f97567508617ec21d297f8572c41af407bb3ccb3a71a8de |
| **connectivity_log** | ae5ac614688b5106341702c5081417b77b0a5653a11d32b081d5cb236c3a1289 |
| **dns_resolution_times** | b4c611a2d4c17449d158e26c8a9747cf9c9260e5eaf034ca8ea5dd9a2b50c965 |

## 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 | 22.48 | 22.6 | 24.44 | 27.28 | +2 |
| **Google** | IPv4 | 88.43 | 98.05 | 95.65 | 101.53 | +7.2 |
| **Google** | IPv6 | 87.46 | 93.26 | 88.04 | 108.1 | +0.6 |
| **Cloudflare** | IPv4 | 31.35 | 32.36 | 27.66 | 33.67 | -3.7 |
| **Cloudflare** | IPv6 | 34.83 | 38.81 | 23.49 | 24.57 | -11.3 |

## DNS Evidence

### A

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 48527
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
nst.com.my.□□300□IN□A□35.241.55.113
```

### DS

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 13220
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
com.my.□□□3589□IN□SOA□e.nic.my. hostmaster.nic.my. 2026062862 1800 900 604800 3600
```

### MX

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 56118
;; flags: qr rd ra; QUERY: 1, ANSWER: 5, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
nst.com.my.□□300□IN□MX□10 alt3.aspmx.l.google.com.
nst.com.my.□□300□IN□MX□10 alt4.aspmx.l.google.com.
nst.com.my.□□300□IN□MX□5 alt2.aspmx.l.google.com.
nst.com.my.□□300□IN□MX□5 alt1.aspmx.l.google.com.
nst.com.my.□□300□IN□MX□1 aspmx.l.google.com.
```

### NS

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 12890
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
nst.com.my.□□21600□IN□NS□ns-cloud-b1.googledomains.com.
nst.com.my.□□21600□IN□NS□ns-cloud-b2.googledomains.com.
nst.com.my.□□21600□IN□NS□ns-cloud-b4.googledomains.com.
nst.com.my.□□21600□IN□NS□ns-cloud-b3.googledomains.com.
```

### TXT

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 30444
;; flags: qr rd ra; QUERY: 1, ANSWER: 14, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
nst.com.my.□□300□IN□TXT□"google-site-verification=eG4kmzLimVvC6jVDRPKI7YN5gzFhOUccgR4DPHO1m8w"
nst.com.my.□□300□IN□TXT□"v=spf1 include:_spf.google.com include:sendgrid.net ~all"
nst.com.my.□□300□IN□TXT□"google-site-verification=24dZsqRAYS-Y3uE4uho0JEC0NBufRxX6AVbDEG_OZeg"
nst.com.my.□□300□IN□TXT□"google-site-verification=2nqvL8T_WK1FIxBryPQq9dusp4Lx93gT6t-s8FOwXOs"
nst.com.my.□□300□IN□TXT□"knowbe4-site-verification=85754b622d39b55681a28a12ea584aff"
nst.com.my.□□300□IN□TXT□"google-site-verification=CEis1AT4OS7QVUY_i3PWXAhlmjmB6SQRh76bS1q18z0"
nst.com.my.□□300□IN□TXT□"MS=ms11155859"
nst.com.my.□□300□IN□TXT□"ppe-626f2fe8a3e72a51179e346cf7eba5ddb19cf58f"
nst.com.my.□□300□IN□TXT□"google-site-verification=qd149hYT582uWaHh-10qoovxMYCqyBH0BwpE1jNIyzk"
nst.com.my.□□300□IN□TXT□"google-site-verification=rrVGysoXtkfbzfvhG8M-XymWavKPSxK57lqR4S5FfsE"
nst.com.my.□□300□IN□TXT□"google-site-verification=RQ8XloaLBw5UN0w1rPWMwq2o6C-5antniiGm_uL5BPc"
nst.com.my.□□300□IN□TXT□"google-site-verification=hzu9AeK9c_Ku0U6jF5Cl9DrleWILFtsmc4M4osZKfx4"
nst.com.my.□□300□IN□TXT□"mMFlT4KwGfxneqlMxBveQ4rt5MIfD3cDiDz7LmyafDlrW72kiNj4Fr5rLo4L4OxVKVWOr6Tf9jHiZKyn2uGWYg=="
nst.com.my.□□300□IN□TXT□"dailymotion-domain-verification=dm917h2s8qj3gmyec"
```

### AAAA

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 27824
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
nst.com.my.□□297□IN□SOA□ns-cloud-b1.googledomains.com. cloud-dns-hostmaster.google.com. 2 21600 3600 259200 300
```

### RRSIG

```
ns-cloud-b1.googledomains.com. cloud-dns-hostmaster.google.com. 2 21600 3600 259200 300
```

### DNSKEY

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 64350
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
nst.com.my.□□296□IN□SOA□ns-cloud-b1.googledomains.com. cloud-dns-hostmaster.google.com. 2 21600 3600 259200 300
```

### DNSSEC_VALIDATION

```
; unsigned answer
nst.com.my.□□21596□IN□SOA□ns-cloud-b1.googledomains.com. cloud-dns-hostmaster.google.com. 2 21600 3600 259200 300
```

## TLS Handshake Evidence

### IPV4 Connection

| | |
|---|---|
| **IP Used** | 35.241.55.113 |
| **IP Version** | 4 |

```
depth=2 C = US, O = Google Trust Services LLC, CN = GTS Root R1
verify return:1
depth=1 C = US, O = Google Trust Services, CN = WR3
verify return:1
depth=0 CN = nst.com.my
verify return:1
CONNECTED(00000010)
---
Certificate chain
 0 s:CN = nst.com.my
   i:C = US, O = Google Trust Services, CN = WR3
   a:PKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA256
   v:NotBefore: Aug  8 06:55:17 2026 GMT; NotAfter: Nov  6 07:49:10 2026 GMT
-----BEGIN CERTIFICATE-----
MIIE9zCCA9+gAwIBAgIRAPBLlmw/guAFEAbr0Q4xPPMwDQYJKoZIhvcNAQELBQAw
OzELMAkGA1UEBhMCVVMxHjAcBgNVBAoTFUdvb2dsZSBUcnVzdCBTZXJ2aWNlczEM
MAoGA1UEAxMDV1IzMB4XDTI2MDgwODA2NTUxN1oXDTI2MTEwNjA3NDkxMFowFTET
MBEGA1UEAxMKbnN0LmNvbS5teTCCASIwDQYJKoZIhvcNAQEBBQADggEPADCCAQoC
ggEBAKoVyeAS+Qgz/EZLv/Hy/mmQjamoOPVWDPTOdHLJTNHDcpZVPkSn6IjfS3w3
WfxMUs0d6t/fx6akmAiTVyfTjr+le8pi/GGKDuaw1WYDBPG6TMK0JCRnD9lw+lRZ
tbAMaJ/Tjupsbkp+3G40hHSR983utr2bCo9If7tdN7pknBUgN26hbh4jgHbLa/U2
NSepe2RKLn3tY+tVcDn+K41p+aNL3fEL+JGNtvONINYqEM9LLuLiEkPYP6cPQO31
IL2Sls8UjyNvjXm/gk6r8En9RXe2j4LKmkU8ATl99JQQiGhFORcXWgE63HPUnf9m
VW7BCC/hWDo27XD2w68mgk049iUCAwEAAaOCAhowggIWMA4GA1UdDwEB/wQEAwIF
oDATBgNVHSUEDDAKBggrBgEFBQcDATAMBgNVHRMBAf8EAjAAMB0GA1UdDgQWBBSK
uUPJL0dJPKO0skqIDJUdRizDyTAfBgNVHSMEGDAWgBTHgfX9jojZADxNY6JQMSSg
ziP+IzA1BggrBgEFBQcBAQQpMCcwJQYIKwYBBQUHMAKGGWh0dHA6Ly9pLnBraS5n
b29nL3dyMy5jcnQwFQYDVR0RBA4wDIIKbnN0LmNvbS5teTATBgNVHSAEDDAKMAgG
BmeBDAECATA2BgNVHR8ELzAtMCugKaAnhiVodHRwOi8vYy5wa2kuZ29vZy93cjMv
OVYtTzFCU0lPWG8uY3JsMIIBBAYKKwYBBAHWeQIEAgSB9QSB8gDwAHYA2AlVO5RP
ev/IFhlvlE+Fq7D4/F6HVSYPFdEucrtFSxQAAAGf4F6DJQAABAMARzBFAiAguBUP
69maS9oYfHYDQFR2HrZpWOm2e2XKpaKw9q0t6gIhAIHC0KdpZrRI1AydDzBNphqf
fKScbUlvNdwMgyZtkCrAAHYAyKPEf8ezrbk1awE/anoSbeM6TkOlxkb5l605dZkd
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EH3BMv4CICRTFDdpIgGxa3U1FMnXii49O5iMKRk2Px+YwXPuxodbMA0GCSqGSIb3
DQEBCwUAA4IBAQAV0TcZ00Z0CzMBl33VvE06BwGF0CWrBhVjHN/2QNJkISqoHhdF
zNWMu/NUrZOryQadq+6SdDoN5VOU79YWtvhHXoFhJJ/NTKEhD11e4MJlDmXkx2bC
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RzNyAcdSq5LXEsJ5eGA0ohD/cnTFk79FcqRgvHMmquGbLEhIEOAJJNx7+rnuKz5g
o8rbA0QoEQTdZNOaAT6TBMo8I+gR569Hl3fN
-----END CERTIFICATE-----
 1 s:C = US, O = Google Trust Services, CN = WR3
   i:C = US, O = Google Trust Services LLC, CN = GTS Root R1
   a:PKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA256
   v:NotBefore: Dec 13 09:00:00 2023 GMT; NotAfter: Feb 20 14:00:00 2029 GMT
-----BEGIN CERTIFICATE-----
MIIFCzCCAvOgAwIBAgIQf/AFqRVo1jq8IoYWhKpLWjANBgkqhkiG9w0BAQsFADBH
MQswCQYDVQQGEwJVUzEiMCAGA1UEChMZR29vZ2xlIFRydXN0IFNlcnZpY2VzIExM
QzEUMBIGA1UEAxMLR1RTIFJvb3QgUjEwHhcNMjMxMjEzMDkwMDAwWhcNMjkwMjIw
MTQwMDAwWjA7MQswCQYDVQQGEwJVUzEeMBwGA1UEChMVR29vZ2xlIFRydXN0IFNl
cnZpY2VzMQwwCgYDVQQDEwNXUjMwggEiMA0GCSqGSIb3DQEBAQUAA4IBDwAwggEK
AoIBAQCPNHWHr4RyFI0HEJFvA6zx1Ag1mhnymxiJNGyYj3rU3eoF6N4bfIxUErp5
ivsYDQ18nPO9OOSoXsYzy0aJb0ag6TdjjdzM1ZdOMq17HSMFufV7SUOY0LxXx1N4
GLHtp1SyfIa+8FRFvIe6mVkd9LjbAPuBT0YrYl6xOqUqFyOsor7FjuVe/XEefaS0
I30EUrI00t+ZrIfGTFlf+OZPjnWSwrIwRpLQtg3H5Iln/z9UlCdl4wHISiyEL2Vf
za1c/aatQVvcTD8XlpF9qdg8Uyoc0ObUd+ZDSsK3+Eiiza1jtSVrlnIdgUVvhmnE
5OZ4TDHmoX+nAXMKh++HiXLM08WNAgMBAAGjgf4wgfswDgYDVR0PAQH/BAQDAgGG
MB0GA1UdJQQWMBQGCCsGAQUFBwMBBggrBgEFBQcDAjASBgNVHRMBAf8ECDAGAQH/
AgEAMB0GA1UdDgQWBBTHgfX9jojZADxNY6JQMSSgziP+IzAfBgNVHSMEGDAWgBTk
rysmcRorSCeFL1JmLO/wiRNxPjA0BggrBgEFBQcBAQQoMCYwJAYIKwYBBQUHMAKG
GGh0dHA6Ly9pLnBraS5nb29nL3IxLmNydDArBgNVHR8EJDAiMCCgHqAchhpodHRw
Oi8vYy5wa2kuZ29vZy9yL3IxLmNybDATBgNVHSAEDDAKMAgGBmeBDAECATANBgkq
hkiG9w0BAQsFAAOCAgEAnI1DlJQzSKcWbyXXrJSsgKMo6KG74TMqhsuTg67a0FX0
2752+eiJb5YsOJc8DVOHalwpOvbuPdl5BuAEgIK4Va7l9j3J9M1/EjeWjGTM3Ros
zmBJGu82oz6EWi5q75xeF+onJmh2Hm98a/yJAI/mODXq5LofYcQ9AffKP9ZMZu+Y
wW+/qHqyX2JhaOntvl7i8S+l1Y8CcKEqM1NFK4s4EBYPRFjZDawOHX7fSchbSMVP
n5Nu04lrU6xufuZqRosEQw2o0UAyzDoyA52NXzJTWr1G2FVg/0A9hdrQ/6fe9G31
67zKxNqXErs6MpHttEouGbpm2ftzrmcvruYxTfxc4G2GwBi3LFLozNpy042gDfXB
zDyn1staWsy7+QnzMlR59Fz6jBOk5R4LT+ma0+KjnfRhMh5T2ucm69HkvNQtDZlV
a1tLUlzs0zLEdQSehTCjZ6SYsGt2bMVK6dvtxzcyCP0QDUFnNXCwgw12+mGSkAuj
4ORi8kMRpnL8UEjkNbdw9KL1eYbEC3D0GPue2Yk2AGhxkmcdm1BoOp05kYw/Nnqg
```

```
h7QV8DKyBTUHbjH0pXlLiOsSOY+CLh1eTM+Do6rSjqGnDQeUXylZmPCmuveaw38I
VnBaa6Eiz6pngZ1u6OeO/1UzfhmyTm0n0G+9JZ3KS2Mq08isNgXHLnhlHJaphpE=
-----END CERTIFICATE-----
 2 s:C = US, O = Google Trust Services LLC, CN = GTS Root R1
   i:C = BE, O = GlobalSign nv-sa, OU = Root CA, CN = GlobalSign Root CA
   a:PKEY: rsaEncryption, 4096 (bit); sigalg: RSA-SHA256
   v:NotBefore: Jun 19 00:00:42 2020 GMT; NotAfter: Jan 28 00:00:42 2028 GMT
-----BEGIN CERTIFICATE-----
MIIFYjCCBEqgAwIBAgIQd70NbNs2+RrqIQ/E8FjTDTANBgkqhkiG9w0BAQsFADBX
MQswCQYDVQQGEwJCRTEZMBcGA1UEChMQR2xvYmFsU2lnbiBudi1zYTEQMA4GA1UE
CxMHUm9vdCBDQTEbMBkGA1UEAxMSR2xvYmFsU2lnbiBSb290IENBMB4XDTIwMDYx
OTAwMDA0MloXDTI4MDEyODAwMDA0MlowRzELMAkGA1UEBhMCVVMxIjAgBgNVBAoT
GUdvb2dsZSBUcnVzdCBTZXJ2aWNlcyBMTEMxFDASBgNVBAMTC0dUUyBSb290IFIx
MIICIjANBgkqhkiG9w0BAQEFAAOCAg8AMIICCgKCAgEAthECix7joXebO9y/lD63
ladAPKH9gvl9MgaCcfb2jH/76Nu8ai6Xl6OMS/kr9rH5zoQdsfnFl97vufKj6bwS
iV6nqlKr+CMny6SxnGPb15l+8Ape62im9MZaRw1NEDPjTrETo8gYbEvs/AmQ351k
KSUjB6G00j0uYODP0gmHu81I8E3CwnqIiru6z1kZ1q+PsAewnjHxgsHA3y6mbWwZ
DrXYfiYaRQM9sHmklCitD38m5agI/pboPGiUU+6DOogrFZYJsuB6jC511pzrp1Zk
j5ZPaK49l8KEj8C8QMALXL32h7M1bKwYUH+E4EzNktMg6TO8UpmvMrUpsyUqtEj5
cuHKZPfmghCN6J3Cioj6OGaK/GP5Afl4/Xtcd/p2h/rs37EOeZVXtL0m79YB0esW
CruOC7XFxYpVq9Os6pFLKcwZpDIlTirxZUTQAs6qzkm06p98g7BAe+dDq6dso499
iYH6TKX/1Y7DzkvgtdizjkXPdsDtQCv9Uw+wp9U7DbGKogPeMa3Md+pvez7W35Ei
Eua++tgy/BBjFFFy3l3WFpO9KWgz7zpm7AeKJt8T11dleCfeXkkUAKIAf5qoIbap
sZWwpbkNFhHax2xIPEDgfg1azVY80ZcFuctL7TlLnMQ/0lUTbiSw1nH69MG6zO0b
9f6BQdgAmD06yK56mDcYBZUCAwEAAaOCATgwggE0MA4GA1UdDwEB/wQEAwIBhjAP
BgNVHRMBAf8EBTADAQH/MB0GA1UdDgQWBBTkrysmcRorSCeFL1JmLO/wiRNxPjAf
BgNVHSMEGDAWgBRge2YaRQ2XyolQL30EzTSo//z9SzBgBggrBgEFBQcBAQRUMFIw
JQYIKwYBBQUHMAGGGWh0dHA6Ly9vY3NwLnBraS5nb29nL2dzcjEwKQYIKwYBBQUH
```

### IPV6 Connection

| | |
|---|---|
| **IP Used** | 2606:4700::6812:51c |
| **IP Version** | 6 |

```
depth=2 C = US, O = Google Trust Services LLC, CN = GTS Root R4
verify return:1
depth=1 C = US, O = Google Trust Services, CN = WE1
verify return:1
depth=0 CN = nst.com.my
verify return:1
CONNECTED(00000010)
---
Certificate chain
 0 s:CN = nst.com.my
   i:C = US, O = Google Trust Services, CN = WE1
   a:PKEY: id-ecPublicKey, 256 (bit); sigalg: ecdsa-with-SHA256
   v:NotBefore: Jun 18 06:15:13 2026 GMT; NotAfter: Sep 16 07:15:07 2026 GMT
-----BEGIN CERTIFICATE-----
MIIDnzCCA0agAwIBAgIQTzHQekKWkUMTuPeStS6IojAKBggqhkjOPQQDAjA7MQsw
CQYDVQQGEwJVUzEeMBwGA1UEChMVR29vZ2xlIFRydXN0IFNlcnZpY2VzMQwwCgYD
VQQDEwNXRTEwHhcNMjYwNjE4MDYxNTEzWhcNMjYwOTE2MDcxNTA3WjAVMRMwEQYD
VQQDEwpuc3QuY29tLm15MFkwEwYHKoZIzj0CAQYIKoZIzj0DAQcDQgAE9TEMlzNl
ZjGY3FZwAwpboECfjj7UPRniTCLm12P3VRQO23DnSJA+VS3RVDJb6mRysfR34WX6
VjD9fU2TeDmnb6OCAlAwggJMMA4GA1UdDwEB/wQEAwIHgDATBgNVHSUEDDAKBggr
BgEFBQcDATAMBgNVHRMBAf8EAjAAMB0GA1UdDgQWBBSLHSMEQFihohad7ojx9cXa
P6ssSzAfBgNVHSMEGDAWgBSQd5I1Z8T/qMyp5nvZgHl7zJP5ODBeBggrBgEFBQcB
AQRSMFAwJwYIKwYBBQUHMAGGG2h0dHA6Ly9vLnBraS5nb29nL3Mvd2UxL1R6RTAl
BggrBgEFBQcwAoYZaHR0cDovL2kucGtpLmdvb2cvd2UxLmNydDAjBgNVHREEHDAa
ggpuc3QuY29tLm15ggwqLm5zdC5jb20ubXkwEwYDVR0gBAwwCjAIBgZngQwBAgEw
NgYDVR0fBC8wLTAroCmgJ4YlaHR0cDovL2MucGtpLmdvb2cvd2UxL1I3TGdBbktE
NExrLmNybDCCAQMGCisGAQQB1nkCBAIEgfQEgfEA7wB2ANdtfRDRp/V3wsfpX9cA
v/mCyTNaZeHQswFzF8DIxWl3AAABntmVgXQAAAQDAEcwRQIhALLIhGzAlhOT2uRu
92nG6I4ceMsa+/MXNM6HMCIAR7rUAiBI3gQBbu3ljUdD9uHEM/3LAtHb2EX8aqYg
D1aqJyew5AB1AMIxfldFGaNF7n843rKQQevHwiFaIr9/1bWtdprZDlLNAAABntmV
gWEAAAQDAEYwRAIgRK/eSvELCF3OE69ncM2nWC6UEix+PAk0wsN6e/BtunICICnd
M3MUj/H0aJcY6CmceY5k4wK3YhboQW69Ms9eshfiMAoGCCqGSM49BAMCA0cAMEQC
IEftXaWwnUqCcLUuK88MfHMxg+0rUT1kjRYzoJwLHF1eAiAlh7wRkGxO6Dopmy+8
0t0kmpZNUKggOLgVegItTMW9Gg==
-----END CERTIFICATE-----
 1 s:C = US, O = Google Trust Services, CN = WE1
   i:C = US, O = Google Trust Services LLC, CN = GTS Root R4
   a:PKEY: id-ecPublicKey, 256 (bit); sigalg: ecdsa-with-SHA384
   v:NotBefore: Dec 13 09:00:00 2023 GMT; NotAfter: Feb 20 14:00:00 2029 GMT
-----BEGIN CERTIFICATE-----
MIICnzCCAiWgAwIBAgIQf/MZd5csIkp2FV0TttaF4zAKBggqhkjOPQQDAzBHMQsw
CQYDVQQGEwJVUzEiMCAGA1UEChMZR29vZ2xlIFRydXN0IFNlcnZpY2VzIExMQzEU
MBIGA1UEAxMLR1RTIFJvb3QgUjQwHhcNMjMxMjEzMDkwMDAwWhcNMjkwMjIwMTQw
MDAwWjA7MQswCQYDVQQGEwJVUzEeMBwGA1UEChMVR29vZ2xlIFRydXN0IFNlcnZp
Y2VzMQwwCgYDVQQDEwNXRTEwWTATBgcqhkjOPQIBBggqhkjOPQMBBwNCAARvzTr+
```

```
Z1dHTCEDhUDCR127WEcPQMFcF4XGGTfn1XzthkubgdnXGhOlCgP4mMTG6J7/EFmP
LCaY9eYmJbsPAvpWo4H+MIH7MA4GA1UdDwEB/wQEAwIBhjAdBgNVHSUEFjAUBggr
BgEFBQcDAQYIKwYBBQUHAwIwEgYDVR0TAQH/BAgwBgEB/wIBADAdBgNVHQ4EFgQU
kHeSNWfE/6jMqeZ72YB5e8yT+TgwHwYDVR0jBBgwFoAUgEzW63T/STaj1dj8tT7F
avCUHYwwNAYIKwYBBQUHAQEEKDAmMCQGCCsGAQUFBzAChhhodHRwOi8vaS5wa2ku
Z29vZy9yNC5jcnQwKwYDVR0fBCQwIjAgoB6gHIYaaHR0cDovL2MucGtpLmdvb2cv
ci9yNC5jcmwwEwYDVR0gBAwwCjAIBgZngQwBAgEwCgYIKoZIzj0EAwMDaAAwZQIx
AOcCq1HW90OVznX+0RGU1cxAQXomvtgM8zItPZCuFQ8jSBJSjz5keROv9aYsAm5V
sQIwJonMaAFi54mrfhfoFNZEfuNMSQ6/bIBiNLiyoX46FohQvKeIoJ99cx7sUkFN
7uJW
-----END CERTIFICATE-----
 2 s:C = US, O = Google Trust Services LLC, CN = GTS Root R4
   i:C = BE, O = GlobalSign nv-sa, OU = Root CA, CN = GlobalSign Root CA
   a:PKEY: id-ecPublicKey, 384 (bit); sigalg: RSA-SHA256
   v:NotBefore: Nov 15 03:43:21 2023 GMT; NotAfter: Jan 28 00:00:42 2028 GMT
-----BEGIN CERTIFICATE-----
MIIDejCCAmKgAwIBAgIQf+UwvzMTQ77dghYQST2KGzANBgkqhkiG9w0BAQsFADBX
MQswCQYDVQQGEwJCRTEZMBcGA1UEChMQR2xvYmFsU2lnbiBudi1zYTEQMA4GA1UE
CxMHUm9vdCBDQTEbMBkGA1UEAxMSR2xvYmFsU2lnbiBSb290IENBMB4XDTIzMTEx
NTAzNDMyMVoXDTI4MDEyODAwMDA0MlowRzELMAkGA1UEBhMCVVMxIjAgBgNVBAoT
GUdvb2dsZSBUcnVzdCBTZXJ2aWNlcyBMTEMxFDASBgNVBAMTC0dUUyBSb290IFI0
MHYwEAYHKoZIzj0CAQYFK4EEACIDYgAE83Rzp2iLYK5DuDXFgTB7S0md+8Fhzube
Rr1r1WEYNa5A3XP3iZEwWus87oV8okB2O6nGuEfYKueSkWpz6bFyOZ8pn6KY019e
WIZlD6GEZQbR3IvJx3PIjGov5cSr0R2Ko4H/MIH8MA4GA1UdDwEB/wQEAwIBhjAd
BgNVHSUEFjAUBggrBgEFBQcDAQYIKwYBBQUHAwIwDwYDVR0TAQH/BAUwAwEB/zAd
BgNVHQ4EFgQUgEzW63T/STaj1dj8tT7FavCUHYwwHwYDVR0jBBgwFoAUYHtmGkUN
l8qJUC99BM00qP/8/UswNgYIKwYBBQUHAQEEKjAoMCYGCCsGAQUFBzAChhpodHRw
Oi8vaS5wa2kuZ29vZy9nc3IxLmNydDAtBgNVHR8EJjAkMCKgIKAehhxodHRwOi8v
Yy5wa2kuZ29vZy9yL2dzcjEuY3JsMBMGA1UdIAQMMAowCAYGZ4EMAQIBMA0GCSqG
SIb3DQEBCwUAA4IBAQAYQrsPBtYDh5bjP2OBDwmkoWhIDDkic574y04tfzHpn+cJ
odI2D4SseesQ6bDrarZ7C30ddLibZatoKiws3UL9xnELz4ct92vID24FfVbiI1hY
+SW6FoVHkNeWIP0GCbaM4C6uVdF5dTUsMVs/ZbzNnIdCp5Gxmx5ejvEau8otR/Cs
kGN+hr/W5GvT1tMBjgWKZ1i4//emhA1JG1BbPzoLJQvyEotc03lXjTaCzv8mEbep
8RqZ7a2CPsgRbuvTPBwcOMBBmuFeU88+FSBX6+7iP0il8b4Z0QFqIwwMHfs/L6K1
vepuoxtGzi4CZ68zJpiq1UvSqTbFJjtbD4seiMHl
-----END CERTIFICATE-----
---
Server certificate
subject=CN = nst.com.my
issuer=C = US, O = Google Trust Services, CN = WE1
---
No client certificate CA names sent
Peer signing digest: SHA256
Peer signature type: ECDSA
Server Temp Key: X25519, 253 bits
---
SSL handshake has read 2820 bytes and written 392 bytes
Verification: OK
---
New, TLSv1.3, Cipher is TLS_AES_256_GCM_SHA384
Server public key is 256 bit
Secure Renegotiation IS NOT supported
Compression: NONE
Expansion: NONE
No ALPN negotiated
```

## HTTP Response Evidence

### IPv4 HTTP (port 80)

| | |
|---|---|
| **HTTP Status** | 200 |
| **Connected IP** | 104.18.5.28 |
| **Connect Time** | 13.59 ms |
| **TTFB** | 38.84 ms |
| **Total Time** | 39.08 ms |

**Response Headers:**


```
{
    "0": "HTTP/1.1 301 Moved Permanently",
    "1": "Server: nginx/1.24.0 (Ubuntu)",
    "2": "Date: Sat, 08 Aug 2026 10:21:38 GMT",
    "3": "Content-Type: text/html",
    "4": "Content-Length: 178",
    "5": "Location: https://www.nst.com.my/",
    "6": "Via: 1.1 google",
    "8": "HTTP/2 200",
    "9": "date: Sat, 08 Aug 2026 10:21:38 GMT",
    "10": "content-type: text/html; charset=UTF-8",
    "11": "server: cloudflare",
    "12": "cache-control: public, max-age=30",
    "13": "alt-svc: h3=\":443\"; ma=86400",
    "14": "x-frame-options: allow-from http://digital.nstp.com.my/",
    "15": "x-xss-protection: 1; mode=block",
    "16": "x-content-type-options: nosniff",
    "17": "strict-transport-security: max-age=31536000; includeSubDomains",
    "18": "referrer-policy: strict-origin-when-cross-origin",
    "19": "via: 1.1 google",
    "20": "vary: accept-encoding",
    "21": "age: 53",
    "22": "last-modified: Sat, 08 Aug 2026 10:21:16 GMT",
    "23": "expires: Sat, 08 Aug 2026 10:22:08 GMT",
    "24": "cf-cache-status: HIT",
    "25": "set-cookie: __cf_bm=G8qA0koPkfHn2yIk6JG8wV9T72dhtz5JWudEBICLaLg-1786184498.9120982-1.0.1.1-
cgBf41.1Fw0kIY7ZeNZsECgTzMN2Mb3564sA39xQxKFTBpKsC54Lsg8sE14IdHHT0mpsF8QayvhWrX3uW2mtRwPUTU7ZAeYyKTho87BCYiUJeZF2mXLaZho_6.YHzMJg; HttpOnly; Secure; Path=/;
Domain=nst.com.my; Expires=Sat, 08 Aug 2026 10:51:38 GMT",
    "26": "cf-ray: a27dcb9e3bbca483-KUL"
}
```


### IPv6 HTTP (port 80)

| | |
|---|---|
| **HTTP Status** | 301 |
| **Connected IP** | 2606:4700::6812:51c |
| **Connect Time** | 7.66 ms |
| **TTFB** | 22.93 ms |
| **Total Time** | 26.31 ms |
| **Error** | Could not resolve host: nst.com.my |

**Response Headers:**


```
[
    "HTTP/1.1 301 Moved Permanently",
    "Date: Sat, 08 Aug 2026 10:21:38 GMT",
    "Content-Type: text/html; charset=UTF-8",
    "Connection: keep-alive",
    "Location: https://nst.com.my/",
    "X-Content-Type-Options: nosniff",
    "set-cookie: __cf_bm=v.SJSEKi1nOw7EEZgOzqaB1gd7YjhaUPkWgwlcAoGyk-1786184498.7882633-1.0.1.1-
ksNesQis6WX9LdbV_mOsAzXWDck_oS7AYi2iWhbSXfTK8xvI6.sfeg1Ta9OmjZviL8_nO7_VmbdPiG2ejS_3tJdlsVMwbbLsRMkHLV9wJ3jE._5gFhovuMeeML0j30N6; HttpOnly; Path=/;
Domain=nst.com.my; Expires=Sat, 08 Aug 2026 10:51:38 GMT",
    "Referrer-Policy: strict-origin-when-cross-origin",
    "X-Frame-Options: allow-from http://digital.nstp.com.my/",
    "Server: cloudflare",
    "CF-RAY: a27dcb9d68f533d1-SIN",
    "alt-svc: h3=\":443\"; ma=86400"
]
```


### IPv4 HTTPS (port 443)

| | |
|---|---|
| **HTTP Status** | 200 |

| | |
|---|---|
| **Connected IP** | 104.18.4.28 |
| **Connect Time** | 10.47 ms |
| **TTFB** | 45.53 ms |
| **Total Time** | 45.62 ms |

**Response Headers:**


```
{
    "0": "HTTP/2 301",
    "1": "server: nginx/1.24.0 (Ubuntu)",
    "2": "date: Sat, 08 Aug 2026 10:21:38 GMT",
    "3": "content-type: text/html",
    "4": "content-length: 178",
    "5": "location: https://www.nst.com.my/",
    "6": "via: 1.1 google",
    "7": "alt-svc: h3=\":443\"; ma=2592000,h3-29=\":443\"; ma=2592000",
    "9": "HTTP/2 200",
    "10": "date: Sat, 08 Aug 2026 10:21:38 GMT",
    "11": "content-type: text/html; charset=UTF-8",
    "12": "server: cloudflare",
    "13": "cache-control: public, max-age=30",
    "14": "alt-svc: h3=\":443\"; ma=86400",
    "15": "x-frame-options: allow-from http://digital.nstp.com.my/",
    "16": "x-xss-protection: 1; mode=block",
    "17": "x-content-type-options: nosniff",
    "18": "strict-transport-security: max-age=31536000; includeSubDomains",
    "19": "referrer-policy: strict-origin-when-cross-origin",
    "20": "via: 1.1 google",
    "21": "vary: accept-encoding",
    "22": "age: 53",
    "23": "last-modified: Sat, 08 Aug 2026 10:21:16 GMT",
    "24": "expires: Sat, 08 Aug 2026 10:22:08 GMT",
    "25": "cf-cache-status: HIT",
    "26": "set-cookie: __cf_bm=fEpHNrSmYKobbkvwNZQk5lw3BNt39_ULTz26qLSj6N4-1786184498.9589825-1.0.1.1-
MgSxfG1U1dI0U4fWDxhyG_ljPQNR_N4S9LGzEJQQs23VE46T0aCzAfDmyPsLzrIsXMP4IG8GyPBQs7bZGMnVbGGFZMx_O6sPYKakPa6uSmfQeaU5dIDJogztvEPNQVVE; HttpOnly; Secure; Path=/;
Domain=nst.com.my; Expires=Sat, 08 Aug 2026 10:51:38 GMT",
    "27": "cf-ray: a27dcb9e7de5f50a-KUL"
}
```


### IPv6 HTTPS (port 443)

| | |
|---|---|
| **HTTP Status** | 200 |
| **Connected IP** | 2606:4700::6812:51c |
| **Connect Time** | 10.03 ms |
| **TTFB** | 76.29 ms |
| **Total Time** | 76.39 ms |

**Response Headers:**


```
{
    "0": "HTTP/2 301",
    "1": "date: Sat, 08 Aug 2026 10:21:38 GMT",
    "2": "content-type: text/html",
    "3": "location: https://www.nst.com.my/",
    "4": "server: cloudflare",
    "5": "via: 1.1 google",
    "6": "alt-svc: h3=\":443\"; ma=86400",
    "7": "cf-cache-status: DYNAMIC",
    "8": "strict-transport-security: max-age=31536000; includeSubDomains",
    "9": "x-content-type-options: nosniff",
    "10": "set-cookie: __cf_bm=kXsMOEhiyfY.9AQ7oVgGX6lFfrC34aP8aMhF3f8BqcE-1786184498.8092809-1.0.1.1-
1a8Q2O.NO.FVMa2Ra42Mdsk0PLzQ8hFH9Xo1c_luVkawcm8ecWuvY3UurACu4avkY6x8HdyW5dyYcS89TOkF2TKASM1pPV4R6JCl_NwHmZT2BmfpgixNMQbSKTX07rEE; HttpOnly; Secure; Path=/;
Domain=nst.com.my; Expires=Sat, 08 Aug 2026 10:51:38 GMT",
    "11": "referrer-policy: strict-origin-when-cross-origin",
    "12": "x-frame-options: allow-from http://digital.nstp.com.my/",
    "13": "cf-ray: a27dcb9d8c0a5664-KUL",
    "15": "HTTP/2 200",
    "16": "date: Sat, 08 Aug 2026 10:21:38 GMT",
    "17": "content-type: text/html; charset=UTF-8",
    "18": "server: cloudflare",
    "19": "cache-control: public, max-age=30",
    "20": "alt-svc: h3=\":443\"; ma=86400",
    "21": "x-frame-options: allow-from http://digital.nstp.com.my/",
    "22": "x-xss-protection: 1; mode=block",
```

```
    "23": "x-content-type-options: nosniff",
    "24": "strict-transport-security: max-age=31536000; includeSubDomains",
    "25": "referrer-policy: strict-origin-when-cross-origin",
    "26": "via: 1.1 google",
    "27": "age: 53",
    "28": "last-modified: Sat, 08 Aug 2026 10:20:45 GMT",
    "29": "expires: Sat, 08 Aug 2026 10:22:08 GMT",
    "30": "cf-cache-status: HIT",
    "31": "vary: accept-encoding",
    "32": "set-cookie: __cf_bm=gWqF2S0_hIoaIF0eaXOEZsyPsl8w4IzrFHBf_RT4.Z4-1786184498.864959-1.0.1.1-
mNNp9iDVn9lDePklHmvFTcgphcr3fI6t3eNjXdcsWZWo8ace.PxN5rSgWvJwtGoQVZZw7jzhiMkxBWNb5NH9BCS330cZVQyqCEPAFKpxCIYdBF4p5UcBfsE.X780znHU; HttpOnly; Secure; Path=/;
Domain=nst.com.my; Expires=Sat, 08 Aug 2026 10:51:38 GMT",
    "33": "cf-ray: a27dcb9dedf7f92e-SIN"
}
```


## Connectivity Test Evidence

| Test | Result |
|---|---|
| **TCP Connect IPv4 → port 80** | 301 0.008683 0.019852 |
| **TCP Connect IPv6 → port 80** | 301 0.000858 0.004602 |
| **TCP Connect IPv4 → port 443** | 301 0.006586 0.051966 |
| **TCP Connect IPv6 → port 443** | 301 0.006921 0.057413 |

## Test Node Network Evidence

| | |
|---|---|
| **Node Profile** | dual stack |

### Egress Connectivity

| | |
|---|---|
| **IPv4 Egress** | unreachable |
| **IPv6 Egress** | unreachable |

### 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
```