

IPv6 Readiness Report

mmu.edu.my — mmu.edu.my



Scan to verify

Category: Education • Generated: 30 Jul 2026, 07:48 MYT • Last Checked: 04 Jul 2026, 03:50 MYT • Verification ID: 3442d15a-ce9c-488b-83aa-d1c60914ecaa  
Report generated from National IPv6 Readiness Monitor — <https://ipv6.my6.my>  
Audit trail: <https://ipv6.my6.my/audit/3442d15a-ce9c-488b-83aa-d1c60914ecaa>



**Partially Compliant**

MGv6C-1.0

**73%**

**Partial Support**

**IPv6-ONLY READINESS**

Website: ✓ Ready

DNS: ✓ Ready

Email: ✗ Not Ready

**IPv6 ADDRESSES**

2a02:e980:b3::dc

2a02:e980:b5::dc

**IPv4 ADDRESSES**

45.60.13.220

45.60.15.220

Network Information (WHOIS / RDAP)

|                | IPv6 Network                  | IPv4 Network                  |
|----------------|-------------------------------|-------------------------------|
| Organization   | IMPERVA-MNT                   | Incapsula Inc                 |
| Country        | US                            | US                            |
| ASN            | AS19551                       | AS19551                       |
| ASN Name       | INCAPSULA - Incapsula Inc, US | INCAPSULA - Incapsula Inc, US |
| Network (CIDR) | 2a02:e980::/32                | 45.60.0.0/16                  |

| Web Services (35%) |                              |        |                                                                                                                                          | 7 / 8 |
|--------------------|------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------|-------|
| #                  | CHECK                        | RESULT | DETAIL                                                                                                                                   |       |
| 1                  | AAAA Record                  | PASS   | 2a02:e980:b3::dc, 2a02:e980:b5::dc                                                                                                       |       |
| 2                  | Globally Routable IPv6       | PASS   | All addresses are globally routable.                                                                                                     |       |
| 3                  | HTTP over IPv6               | PASS   | HTTP (port 80) responds over IPv6 — 37ms TTFB.                                                                                           |       |
| 4                  | HTTPS over IPv6              | PASS   | HTTPS (port 443) responds over IPv6 — 121ms TTFB.                                                                                        |       |
| 5                  | IPv6-Only Reachability       | PASS   | Site is fully reachable via IPv6-only.                                                                                                   |       |
| 6                  | TLS Certificate Valid (IPv6) | PASS   | Certificate valid — issued by C = BE, O = GlobalSign nv-sa, CN = GlobalSign Atlas R46 DV TLS CA 2026 Q2, expires Oct 1 18:42:27 2026 GMT |       |
| 7                  | Dual-Stack (IPv4 + IPv6)     | PASS   | Domain has both A and AAAA records.                                                                                                      |       |
| 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.                       |       |

| # | 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   | No common DKIM selector found.    |
| 7                    | DMARC Record            | PASS   | DMARC record found.               |

| IPv4 Baseline (15%) |                 |        | 3 / 3                                              |
|---------------------|-----------------|--------|----------------------------------------------------|
| #                   | CHECK           | RESULT | DETAIL                                             |
| 1                   | A Record        | PASS   | 45.60.13.220, 45.60.15.220                         |
| 2                   | HTTP over IPv4  | PASS   | HTTP (port 80) responds over IPv4 — 657ms TTFB.    |
| 3                   | HTTPS over IPv4 | PASS   | HTTPS (port 443) responds over IPv4 — 1079ms TTFB. |

Audit Trail & Evidence Record

|                   |                                                                |
|-------------------|----------------------------------------------------------------|
| Verification ID   | 3442d15a-ce9c-488b-83aa-d1c60914ecaa                           |
| Domain            | mmu.edu.my                                                     |
| Check Mode        | Manual                                                         |
| Status            | Completed                                                      |
| Started           | 04 Jul 2026, 03:50:16 MYT                                      |
| Finished          | 04 Jul 2026, 03:50:24 MYT                                      |
| Test Node Profile | dual stack                                                     |
| Engine Version    | 2.0.0                                                          |
| MGv6C Version     | 1.0.0                                                          |
| Audit URL         | https://ipv6.my6.my/audit/3442d15a-ce9c-488b-83aa-d1c60914ecaa |

Integrity Verification

|                      |                                                                  |
|----------------------|------------------------------------------------------------------|
| ✓ INTEGRITY VERIFIED |                                                                  |
| Algorithm            | hmac-sha256-v1                                                   |
| Root Hash            | 84e51e5ede825b78b0995fe72dfb87015e6e302a7661ed7b4eefe548af6c5965 |
| http_headers         | 9a6c88f54887547517d39b633179d0866eb466d6130384c1e07d9d8d0c47467b |
| dns_responses        | 6d3d83d02ed559c4e430a4135a2c8fec1f5753c62c8c7aa66ed4443e14ec0fdf |
| tls_handshake        | 2f8e804fa865668d669651550f324ffb1fa3b968071cdae503f40adfce1a8e68 |
| connectivity_log     | 61a58780ad253f9fb1f27eab53c4ba278eed4aab55243a449cb2d7ebd0b85cf4 |
| dns_resolution_times | 2b7d14cd0309f77f0f2a7d4f7f2196acc35b80156d5f47329baea3ebc9c140f1 |

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   | 9          | 22.62      | 11.46         | 23.02         | +2.5       |
| Google     | IPv4      | 18.76      | 19.27      | 18.96         | 19.98         | +0.2       |
| Google     | IPv6      | 19.18      | 32.65      | 29.86         | 31.04         | +10.7      |
| Cloudflare | IPv4      | 8.86       | 20.19      | 9.81          | 20.18         | +1         |
| Cloudflare | IPv6      | 11.8       | 24.13      | 21.11         | 28.66         | +9.3       |



DNS Evidence

A

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 16659
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
mmu.edu.my. 3600 IN A 45.60.13.220
mmu.edu.my. 3600 IN A 45.60.15.220
```

DS

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 8389
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
edu.my. 2978 IN SOA e.nic.my. hostmaster.nic.my. 2026052757 1800 900 604800 3600
```

MX

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 53895
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
mmu.edu.my. 3600 IN MX 10 ext-mail-1.mmu.edu.my.
mmu.edu.my. 3600 IN MX 10 ext-mail-2.mmu.edu.my.
mmu.edu.my. 3600 IN MX 20 ext-mail-3.mmu.edu.my.
mmu.edu.my. 3600 IN MX 20 ext-mail-4.mmu.edu.my.
```

NS

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 20313
;; flags: qr rd ra; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
mmu.edu.my. 3600 IN NS ns1.a0.impervasecuredns.net.
mmu.edu.my. 3600 IN NS ns1.a2.impervasecuredns.net.
mmu.edu.my. 3600 IN NS ns1.a1.impervasecuredns.net.
```

TXT

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 20613
;; flags: qr rd ra; QUERY: 1, ANSWER: 5, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
mmu.edu.my. 3600 IN TXT "rovag_verification_token=68B2530FEA434E38AB72A93A484425BD"
mmu.edu.my. 3600 IN TXT "globalsign-domain-verification=A4747BBDA8198FD217FDCCCF0F90C29"
mmu.edu.my. 3600 IN TXT "globalsign-domain-verification=0cHR2oEfzwiTfjQtJ3jn4WrkNenDJhyXYk_iDMRscd"
mmu.edu.my. 3600 IN TXT "globalsign-domain-verification=4EF9CC38CBA8724615D4907A5F316AC2"
mmu.edu.my. 3600 IN TXT "v=spf1 include:spf.protection.outlook.com include:one.zoho.com ip4:203.106.60.32/28 ip4:203.106.61.32/28 ip4:203.106.62.32/28 ip4:203.106.63.32/28 -all"
```

AAAA

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 57943
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
mmu.edu.my. 3600 IN AAAA 2a02:e980:b5::dc
```

mmu.edu.my.0036000INAAAA2a02:e980:b3::dc

RRSIG

ns1.a0.impervasecuredns.net. hostmaster.mmu.edu.my. 2026061602 14400 3600 1209600 86400

DNSKEY

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 2748
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
mmu.edu.my.0035950INSOA0ns1.a0.impervasecuredns.net. hostmaster.mmu.edu.my. 2026061602 14400 3600 1209600 86400
```

DNSSEC\_VALIDATION

```
; unsigned answer
mmu.edu.my.0035950INSOA0ns1.a0.impervasecuredns.net. hostmaster.mmu.edu.my. 2026061602 14400 3600 1209600 86400
```



TLS Handshake Evidence

IPV4 Connection

|            |              |
|------------|--------------|
| IP Used    | 45.60.13.220 |
| IP Version | 4            |

```
depth=2 C = BE, O = GlobalSign nv-sa, CN = GlobalSign Root R46
verify return:1
depth=1 C = BE, O = GlobalSign nv-sa, CN = GlobalSign Atlas R46 DV TLS CA 2026 Q2
verify return:1
depth=0 CN = imperva.com
verify return:1
CONNECTED(00000010)
---
Certificate chain
 0 s:CN = imperva.com
   i:C = BE, O = GlobalSign nv-sa, CN = GlobalSign Atlas R46 DV TLS CA 2026 Q2
   a:PKKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA256
   v:NotBefore: Jul  3 18:42:27 2026 GMT; NotAfter: Oct  1 18:42:27 2026 GMT
-----BEGIN CERTIFICATE-----
MIIVTCCBqWgAwIBAgIQAdGjZR8fQo6MlsY1v+3YgTANBgkqhkiG9w0BAQsFADBZ
MQswCQYDVQQGEwJCRTEZMBcGA1UEChMQR2xvYmFsU2lnbiBudilzYTEvMC0GA1UE
AxMmR2xvYmFsU2lnbiBBdGxhcysBSNDYgRfYgVExTIENBIDIwMjYgUTIwHhcNMjYw
NzAzMTg0MjYzWhcNMjYxMDAxMTg0MjYzI3wjAWMRQwEgYDVQQDDAtpbXB1cnZlLnMnV
bTCCASIAwDQYJKoZIhvcNAQEBBQADggEPADCCAAoCggEBAL6Iiwj05MPQI1LeBXTv
0bL0wexb7MQhrcP+e3W9IKafBzOPySqMHw26HXN0RNCwabLxpV/nj9whYlzcP+r
g10U6YP9bmXJTs17i7v0TBjPPWTwvmBkoNWT/M3GfZQAlagBu2BqvMTEAmQTxh55
3GXRbL7sb0dfw05hn9X3DKp7X4NLtIgg244RF4yZ60B615lmHLnXhYxf3qXAh+S
EwpkdIzP0tTN+W5zBYTBHUoSbjXWkXEDX5agp/HyV06CTDL0HWSwIs2S24unNNYM
fPjws7lQnzcY22wZUVbEv5z2qVCyEwHwEeQ9I1terhDovZtyWQdsGZPUmaBnUTE/
BQECaWEAAa0CBMIwggS+MIIB9wYDVR0RBIIb7jCCAeqCFHJld2FyZHMudW5pZmku
Y29tLm15gg4qLnRtb2RzLmNvbS5teYIRKi5maWJlcmFpbC5jb20ubXmCDioudG1y
bmQuY29tLm15ggtnaXRuLmNvbS5teYITKi5hZHN0b3JlLnRtLmNvbS5teYIOKi5t
bXVwcmVzcy5jb22CESoubXlnb3ZuZXQvZ292Lm15gg0qLnRtY2EuY29tLm15ghIq
LmZpYnJlY29tbS5uZXQubXmCm1tdS5lZHUubXmCD3RtZ2xvYmFsLmNvbS5teYIL
aWlWZXJlY2Y55jb22CDcoubW1lLmVkdS5teYIKKi51bmLmaS5teYIUki5zZXJ2aWwL
cy5wMS5jb20ubXmCEyouYXBpZ2F0ZS50bS5jb20ubXmCDioudW5pZmkuY29tLm15
gg0qLmdpdG4uY29tLm15ggxtbXVwcmVzcy5jb22CCSouaHlwC50doIPbXlnb3Zu
ZXQvZ292Lm15ghEqLnRtZ2xvYmFsLmNvbS5teYIMKi50YWIuY29tLm15gg9maWJl
cmFpbC5jb20ubXmCEiouZW5nYWdlMnRtLmNvbS5teYILdG1jY55jb20ubXmCECou
ZXB0dy50bS5jb20ubXmCDioudG1vbmUuY29tLm15gg0qLnZhZHMuY29tMA4GA1Ud
DwEB/wQEAwIFoDATBgNVHUEDDABGgrBgEFBQcDATAdBgNVHQ4EFgQUpubcsMVv
pBbT2o0eI1KAtFZCYXwwVwYDVR0gBFAwTjAIBgZngOwAgEwQgYKKwYBBAggMgoB
AzA0MDIGCCsGAQFBwIBFIzodHRwczovL3d3dy5nbG91YXwzaWduLmNvbS9yZXBv
c2l0b3J5LzAMBgNVHRMBAf8EAjAAMIgBggrBgEFBQcBAQSBkzCBkDBBBggrBgEF
BQcwAYY1aHR0cDovL29j3cAU2ZxvYmFsc2lnbi5jb20vY2EvZ293NhdGxhc3I0NmR2
dGxzY2EyMDI2cTIwSwYIKwYBBQUHMAKGP2h0dHA6Ly9zZWNLcmUuZ2xvYmFsc2ln
bi5jb20vY2FjZXJ0L2dzYXR5YXNyNDZkdnRsc2NhMjYyNnEyLmNydDAfBgNVHSME
GDAlgbR5H0PnXofOPtes10RVYBdK7+UIRTBJBgNVHR8EQjBAMD6gPKA6hjodHRw
0i8vY3JsLmdsb2JhbHNpZ24uY29tL2NhL2dzYXR5YXNyNDZkdnRsc2NhMjYyNnEy
LmNybDCCAQUGCisGAQOB1nkCBAIEgfYEgfMA8QB3AndtfrDRp/V3wspX9cAv/mC
yTNaZeHQswFzF8DIxwL3AAABylKJVAAAAQDAEgwRgIhAPqePxHP3TDbmGCVV0iP
cv46JMZITUmBo3jHi0vUnpwcAiEAgr4+x1070TEK8iAxF2W9IjraE662yiEoV4NZ
DV302/8AdgDCMX5XRrmjReS/ON6yKEHrX8IhWiK/f9W1rXaa2Q5S4QAAAZ8pSiVp
AAAEAwBHEUEUCIQdiUfPQcF5cxy96wDwGK++7MwBLJNHVU8I6h0WHD/JgIgb4Sh
ejdJbaAccVs7fPTzn+mht6B8PwL95lc+dUg0UH4wDQYJKoZIhvcNAQELBQADggIB
ACTSKUjYjT48+rHIE2wS0tamB1r3dE005vMSWrm7X18ztcRXHISrpL5etCPXV8ge
oEIUGiLEhLlSmh+S+qZKM7PmX7gwMAXxRIaKpATIL9ZyGQFZfQJttfy1lzjHzCp
/T4tsxHTekEjXgDAKXfP98By610h0UBgm7vWVgcMiRwVSWi6EbdUFnXoRc6ZGYGu
m0FdCXRqVS24syB1NyjqRoamdEbAlXqcFwKGrvH1kCbxRZB12qBMcZW5Vw6MjWlM
4Ba1lXndfYyRRNUeV+q4Zd88pMu0gyyK2794oJj/dzJe22dLRVtbAqSHlq0P+lAoK
cBUHDbL1ku9RykPxTDkFsL9yueC6i7L40WbwHzonlTN2nssFUhFv8eG1LZiHDrSA
70bp+WUvZbSKLl6kroB3kU8GEvLsdZc958iSaXk6C+o174JhhLkHmcDRN8AF1l01
/RsFGXwoMzmTLRpVDYFE5UMA4D3a8GGXJluwD0+9o5J/SMio05F6r7STeH6uk2fv
8g4QJNqtKDun4eaq3xBd5tGYQI1wPY+d0A9eYhxhU4R/S4uBajaTaUgKMwZwEaI
sZ+zi+j+4sWexXATiqHnWLQDkQfatv/RLwtC/4RzKmEb7EpoSRKQCatA4ShC+61RLK
efVDAT53eJgvMnEo7ND9AC7Sy9Q9sh7Mp6X47pPTLGsme
-----END CERTIFICATE-----
1 s:C = BE, O = GlobalSign nv-sa, CN = GlobalSign Atlas R46 DV TLS CA 2026 Q2
   i:C = BE, O = GlobalSign nv-sa, CN = GlobalSign Root R46
   a:PKKEY: rsaEncryption, 4096 (bit); sigalg: RSA-SHA384
   v:NotBefore: Jan 21 02:59:58 2026 GMT; NotAfter: Jan 21 00:00:00 2028 GMT
-----BEGIN CERTIFICATE-----
MIIGgTCCBmgAwIBAgIRAIUVA9p8GXzCwsWrxGtXKxEwDQYJKoZIhvcNAQEMBQAw
RjELMAkGA1UEBhMCQkUxGTAxBGNVBA0TEEdsb2JhbFNPZ24gbnYtc2ExHDAAgBNV
BAMTEodsB2JhbFNPZ24gUm9vdCBSNDYwHhcNMjYwMTIxMDI0TU4wHhcNMjgwMTIx
MDAwMDAwWjBZMQswCQYDVQQGEwJCRTEZMBcGA1UEChMQR2xvYmFsU2lnbiBudilz
YTEvMC0GA1UEAxMmR2xvYmFsU2lnbiBBdGxhcysBSNDYgRfYgVExTIENBIDIwMjYg
YTEvMC0GA1UEAxMmR2xvYmFsU2lnbiBBdGxhcysBSNDYgRfYgVExTIENBIDIwMjYg
```



UTIWggIiMA0GCSqGSiB3DQEBAQUAA4ICDwAwggIKAoICAQCGp2+oBJ9nuYrgewFQv240b2FhmGK0AK0+0LzWmJf2xNXyVzBDQFdzoM0/GKEA1xXNL CZJfDfK/8XvGPBe vLFwJua5qm1oqqV+M617vu5A2khp7bqMjdUPEd+jhPebXxsRAiy/9P1t1lhJMKo5uzyfV i8Pr3jWt tL46H2Lw2ef/xhSDjcsYs14Gz5gpMvRAc znfI32i2i0zMjFzUEOoVAUnQQ+1gy2P8eELHaH1BLb1BuHA8V0q9dFF1ReRLcyk8esrEfI0rcDGV0AZD4WjTpi bELyxYppInKw r1XbaxCaH2u6bE+/o5mmgwVqU4XgUwai0p iSd8tAmGYWLSr001VENr0ILQnwQie5Gfwm9jFHuXQ8+dNMR6qzi0VYP0QARLiCiBt l0HmsG16TTZ43E4ZMUz23u3IPnSs/NXDH1jYg f x4hRsM6upM06t83V5lmcBcZk2ZSAGk+/MvSFB5P3nKqH2/8WBwwU0Jq80owYwwdZJG0Ll iXVvafHEDId2jplw iVKzJ4EuBi l m8wkoVzSZxjHzTRzaJ0wnQpS1p fA+LLVZ/t8vT7FKFqu4RJNf7h nj iSTsHIvhnUSHfjLSBdAvw85qgfWZugi i+zTj8B/x0tvedsiJvCtFJobFJwSsaBI l le2n2KrA2C0KXVHkg2aqjBpijMJ7Ju00f5b xjCu06ep l l wIDAQABo4IBVTCCAVeWdgYDVR0PAQH/BAQDAgGgMBMGA1UdJQQMMAoGCCsGAQUFBwMBMBIGA1UdEwEB/wQIMAYBAf8CAQAwHQYDVR00BBYEFHkfQ+deh84+16zXRFVgF0rv5QhFMB8GA1UdIwQYMBaAFANcq30Bh6jMsKbVl0I2lKn/BZksMHsGCCsGAQUFBwEBBG8wbTAUBggrBgEFBQcwAYYiaHR0cDovL29j3AuZ2xvYmFsc2lnbi5jb20vc m9vdHI0NjA7BggrBgEFBQcwAoYvaHR0cDovL3NlY3VyZS5nbG9iYWxzawduLmNvbS9jYWNlcnQvc m9vdHI0Ni5jcnQwNgYDVR0fBC8wLTArCmGj4YlAHR0cDovL2NybC5nbG9iYWxzawduLmNvbS9yb290cjQ2LmNy bDAhBgNVHSAEGjAYMAgGBmeBDAECATAMBgorBgEEAaAyCgEDMA0GCSqGSiB3DQEBDUAUA4ICAQBkNmxs7DAkdPyA0cuhi r1CooxdI6bT0Q5f0fHxA13t6L0sx CmM0I0gwOZ8B3IUM1yRkz gkpqzYcmYw7BuNM4q5EF1rUnuI4JrcjgbA6NtaMCo4ikpdwYtHMDtoqJj nNjqPsVaIxzk6rgRRw6n3Am6wtDKvA/w3dFa2PI7QgXDYYnVc8wSghx7VQUe0UwbKaIkeH3DsJS/swcLiUs24SdzswKhXB47woAK9eqg7emr+n8m3U7shp2oA0Dz6nSBfRr7M8+l+Ni+r19Nq4L0GKFpFS4prNgpzn04e0ACRHIqR184m4AISf5Gvb5IVsLokuf+n4VZtKkS5/zTqCzjIocv3Kt+gKK7SofZXh/MdiT+LAJFmVQfs2zLD7Xb0Is00eduII1UOUKLfQUWMU9x4hNJPTTm8Ln5xrdCqg+ftgAWYxPp/xTQKzJg2nzY7YPDVhA4x5pjd0ZKmS5bQL/f+Ypg2RjgGiq6bN0o4XmMoRm ixiNonoM0kU/ngz5USDc+3btw9z/0IiSYRU65WBvd6XtykVLCmVZDhy i jVMFK8WCzzYGG4ubu2B

IPv6 Connection

|            |                  |
|------------|------------------|
| IP Used    | 2a02:e980:b3::dc |
| IP Version | 6                |

```
depth=2 C = BE, 0 = GlobalSign nv-sa, CN = GlobalSign Root R46
verify return:1
depth=1 C = BE, 0 = GlobalSign nv-sa, CN = GlobalSign Atlas R46 DV TLS CA 2026 Q2
verify return:1
depth=0 CN = imperva.com
verify return:1
CONNECTED(00000010)
---
Certificate chain
0 s:CN = imperva.com
  i:C = BE, 0 = GlobalSign nv-sa, CN = GlobalSign Atlas R46 DV TLS CA 2026 Q2
  a:PKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA256
  v:NotBefore: Jul  3 18:42:27 2026 GMT; NotAfter: Oct  1 18:42:27 2026 GMT
-----BEGIN CERTIFICATE-----
MIIIvTCBqWgAwIBAgIQAdGjZRBf0o6Ml sY1v+3YgTANBgqhkiG9w0BAQsFADBZ
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bi5jb20vY2FjZXJ0L2dzYXR5YXNyNDZkdnRsc2NhMjAyNnEyLmNyYDAfBgNVHSME
GDAAgBR5H0PnXo fOPtes10RVYBdK+U lRTBJBgNVHR8EQjBAMD6gPKA6hj hodHRw
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```

```
yTNaZeHQswFzF8DIxwL3AAABnyLKJVAAAAQDAEgwRgIhAPqePxHP3TDbmGCVV0iP
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efVDAtS3eJgvMnEo7ND9AC7S9q5sh7Mp6X47pPTLGsme
-----END CERTIFICATE-----
1 s:C = BE, 0 = GlobalSign nv-sa, CN = GlobalSign Atlas R46 DV TLS CA 2026 Q2
i:C = BE, 0 = GlobalSign nv-sa, CN = GlobalSign Root R46
a:PKKEY: rsaEncryption, 4096 (bit); sigalg: RSA-SHA384
v:NotBefore: Jan 21 02:59:58 2026 GMT; NotAfter: Jan 21 00:00:00 2028 GMT
-----BEGIN CERTIFICATE-----
MIIGgTCCBgmgAwIBAgIRAIUVA9p8GXzCwsWrxGtXKxEwDQYJKoZIhvcNAQEMBAQw
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BAMTE0dsb2JhbFNPZ24gUm9vdCBSNDYwHhcNMjYwMTI0MTU0WmcNMjYwMTI0
MDAwMDAwWjBZMQswCQYDVQQGEwJCRTEZMBcGA1UEChMQR2xvYmFsuZlmbiBudilz
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ngz5USDc+3btW9z/0IiSYRUB5WBvsd6XtykVLcmVZDhyijVMFK8WCzzYG64ubu2B
```



HTTP Response Evidence

IPv4 HTTP (port 80)

|              |              |
|--------------|--------------|
| HTTP Status  | 400          |
| Connected IP | 45.60.13.220 |
| Connect Time | 163.81 ms    |
| TTFB         | 499.74 ms    |
| Total Time   | 499.79 ms    |

Response Headers:

```
[
  "HTTP/1.1 400 Bad Request",
  "Content-Type: text/html",
  "Cache-Control: no-cache, no-store",
  "Connection: close",
  "Content-Length: 868",
  "X-Info: 51-24505621-0 NNNY RT(1783108222754 0) q(0 0 0 -1) r(1 -1) b3 U6",
  "Set-Cookie: visid_incap_2990630=qAMPhC5LSBaew5AXvfVRU34SSGoAAAAQUIPAAAAAACyPGEu0z803km2xLT633Eu; expires=Fri, 02 Jul 2027 22:38:02 GMT; HttpOnly; path=/; Domain=.mmu.edu.my",
  "Set-Cookie: incap_ses_569_2990630=xP0+FFr4dTCQuSneLX7LB34SSGoAAAAAPWu49R1zqC5jOVJKlpKXu==; path=/; Domain=.mmu.edu.my"
]
```

IPv6 HTTP (port 80)

|              |                  |
|--------------|------------------|
| HTTP Status  | 400              |
| Connected IP | 2a02:e980:b3::dc |
| Connect Time | 7.91 ms          |
| TTFB         | 30.43 ms         |
| Total Time   | 30.49 ms         |

Response Headers:

```
[
  "HTTP/1.1 400 Bad Request",
  "Content-Type: text/html",
  "Cache-Control: no-cache, no-store",
  "Connection: close",
  "Content-Length: 876",
  "X-Info: 53-126945661-0 NNNY RT(1783108222409 0) q(0 0 0 -1) r(0 -1) b3 U6",
  "Set-Cookie: visid_incap_2990630=34Zx53+VSEmLtxzmfiqNln0SSGoAAAAQUIPAAAAABA7YDA/jbk0ISRaLwn+0jz; expires=Sat, 03 Jul 2027 15:55:13 GMT; HttpOnly; path=/; Domain=.mmu.edu.my",
  "Set-Cookie: incap_ses_795_2990630=mWEsWsvMe3i+xipyVWgIC30SSGoAAAAAdAUeczRTEl3jc5bf/xUMDQ==; path=/; Domain=.mmu.edu.my"
]
```

IPv4 HTTPS (port 443)

|              |              |
|--------------|--------------|
| HTTP Status  | 200          |
| Connected IP | 45.60.15.220 |
| Connect Time | 170.17 ms    |
| TTFB         | 715.43 ms    |
| Total Time   | 715.54 ms    |

Response Headers:

```
{
  "0": "HTTP/2 301",
  "1": "date: Fri, 03 Jul 2026 19:50:23 GMT",
  "2": "server: Apache",
  "3": "x-frame-options: SAMEORIGIN",
  "4": "content-security-policy: frame-ancestors 'self';",
  "5": "location: https://www.mmu.edu.my/",
  "6": "content-type: text/html; charset=iso-8859-1",
  "7": "set-cookie: visid_incap_2990630=aSgrm2JeTsaT7lybbwRSwn8SSGoAAAAQUIPAAAAAB9mRzrSSaDqMoapZEig4t0; expires=Fri, 02 Jul 2027 22:35:01 GMT; HttpOnly; path=/; Domain=.mmu.edu.my; Secure; SameSite=None",
  "8": "set-cookie: nlbi_2990630=2D54H2daPgFjbRGZFJgT7gAAACrDqq6HXhLz6WMjbs33akz; HttpOnly; path=/; Domain=.mmu.edu.my; Secure; SameSite=None",
  "9": "set-cookie: incap_ses_569_2990630=QmK0ey4ALDGyuyneLX7LB38SSGoAAAAAQ6WwB0T9t9+D+oJ0ivgRqA==; path=/; Domain=.mmu.edu.my; Secure; SameSite=None",
  "10": "strict-transport-security: max-age=31536000",
  "11": "x-cdn: Imperva",
}
```

```
"12": "x-iinfo: 53-29933977-29934040 NNNY CT(174 178 0) RT(1783108223255 166) q(0 0 0 -1) r(0 2) U6",
"14": "HTTP/2 200",
"15": "date: Fri, 03 Jul 2026 19:50:23 GMT",
"16": "server: Apache",
"17": "x-frame-options: SAMEORIGIN",
"18": "content-security-policy: frame-ancestors 'self';",
"19": "last-modified: Fri, 03 Jul 2026 09:12:30 GMT",
"20": "accept-ranges: bytes",
"21": "content-length: 91660",
"22": "vary: Accept-Encoding",
"23": "cache-control: max-age=0, no-cache, no-store, must-revalidate",
"24": "pragma: no-cache",
"25": "expires: Mon, 29 Oct 1923 20:30:00 GMT",
"26": "content-type: text/html; charset=UTF-8",
"27": "set-cookie: visid_incap_2990630=HNR04YogQ82NqfXNnpAfHXoSSGoAAAAAQUIPAAAAAACbw39d4znoP7ZqLqf6mJ0E; expires=Sat, 03 Jul 2027 16:41:53 GMT; HttpOnly; path=/; Domain=.mmu.edu.my; Secure; SameSite=None",
"28": "set-cookie: incap_ses_1671_2990630=8f/HNcEyHr4SzkNQZYwF38SSGoAAAAAYLxarfRGj4DN6wiTJPdHkQ==; path=/; Domain=.mmu.edu.my; Secure; SameSite=None",
"29": "strict-transport-security: max-age=31536000",
"30": "x-cdn: Imperva",
"31": "x-iinfo: 13-15919127-15919129 NNNY CT(5 12 0) RT(1783108223699 5) q(0 0 0 0) r(0 0) U6"
}
```

IPv6 HTTPS (port 443)

|              |                  |
|--------------|------------------|
| HTTP Status  | 200              |
| Connected IP | 2a02:e980:b5::dc |
| Connect Time | 12.96 ms         |
| TTFB         | 79.33 ms         |
| Total Time   | 79.43 ms         |

Response Headers:

```
{
  "0": "HTTP/2 301",
  "1": "date: Fri, 03 Jul 2026 19:50:22 GMT",
  "2": "server: Apache",
  "3": "x-frame-options: SAMEORIGIN",
  "4": "content-security-policy: frame-ancestors 'self';",
  "5": "location: https://www.mmu.edu.my/",
  "6": "content-type: text/html; charset=iso-8859-1",
  "7": "set-cookie: visid_incap_2990630=yDRj2ImXtVxK4xoM2tN0F9X0SSGoAAAAAQUIPAAAAAADfZRVwh7x1FwDcp7Zy9mYg; expires=Sat, 03 Jul 2027 15:55:13 GMT; HttpOnly; path=/; Domain=.mmu.edu.my; Secure; SameSite=None",
  "8": "set-cookie: nlbi_2990630=0yAQH81VZRGaNebAFJgT7gAAAAAm6Dk4T6VG/LgIyy0wbbiG; HttpOnly; path=/; Domain=.mmu.edu.my; Secure; SameSite=None",
  "9": "set-cookie: incap_ses_795_2990630=2eUZAowk0V8MxypyVWgIC30SSGoAAAAAEiP1loIbynoPvmLBnk52g==; path=/; Domain=.mmu.edu.my; Secure; SameSite=None",
  "10": "strict-transport-security: max-age=31536000",
  "11": "x-cdn: Imperva",
  "12": "x-iinfo: 48-73207485-73207492 NNNY CT(10 13 0) RT(1783108222440 10) q(0 0 0 -1) r(0 0) U6",
  "14": "HTTP/2 200",
  "15": "date: Fri, 03 Jul 2026 19:50:22 GMT",
  "16": "server: Apache",
  "17": "x-frame-options: SAMEORIGIN",
  "18": "content-security-policy: frame-ancestors 'self';",
  "19": "last-modified: Fri, 03 Jul 2026 09:12:30 GMT",
  "20": "accept-ranges: bytes",
  "21": "content-length: 91660",
  "22": "vary: Accept-Encoding",
  "23": "cache-control: max-age=0, no-cache, no-store, must-revalidate",
  "24": "pragma: no-cache",
  "25": "expires: Mon, 29 Oct 1923 20:30:00 GMT",
  "26": "content-type: text/html; charset=UTF-8",
  "27": "set-cookie: visid_incap_2990630=dqsnG2GgQWy1jQRTDnS8EXgSSGoAAAAAQUIPAAAAAAB/N0o1hfWdaWmj7N0dkSuA; expires=Sat, 03 Jul 2027 15:39:43 GMT; HttpOnly; path=/; Domain=.mmu.edu.my; Secure; SameSite=None",
  "28": "set-cookie: incap_ses_1132_2990630=ITHuTPa8JFmeZVBLmqy1D34SSGoAAAAAlxuNs8l6XfT3VBX3RAAQtw==; path=/; Domain=.mmu.edu.my; Secure; SameSite=None",
  "29": "strict-transport-security: max-age=31536000",
  "30": "x-cdn: Imperva",
  "31": "x-iinfo: 4-18459486-18459488 NNNY CT(4 10 0) RT(1783108222479 6) q(0 0 0 0) r(0 0) U6"
}
```

Connectivity Test Evidence

| Test                        | Result                |
|-----------------------------|-----------------------|
| TCP Connect IPv4 → port 80  | 400 0.164290 0.495474 |
| TCP Connect IPv6 → port 80  | 400 0.007544 0.026958 |
| TCP Connect IPv4 → port 443 | 301 0.164590 0.668289 |
| TCP Connect IPv6 → port 443 | 301 0.007487 0.049187 |

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                                  |