

IPv6 Readiness Report

ioigroup.com — ioigroup.com



Scan to verify

Category: Enterprise • Generated: 04 Jul 2026, 22:13 MYT • Last Checked: 04 Jul 2026, 03:45 MYT • Verification ID: 62450d24-5fd5-426e-9f4a-88c6f32558d4
Report generated from National IPv6 Readiness Monitor — <https://ipv6.my6.my>
Audit trail: <https://ipv6.my6.my/audit/62450d24-5fd5-426e-9f4a-88c6f32558d4>

<p>X</p> <p>Non-Compliant</p> <p>MGv6C-1.0</p>	<p>32%</p> <p>No IPv6 Support</p>	<p>IPv6-ONLY READINESS</p> <p>Website: X Not Ready</p> <p>DNS: X Not Ready</p> <p>Email: X Not Ready</p>
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<p>IPv4 ADDRESSES</p> <p>103.199.216.134</p>

Network Information (WHOIS / RDAP)

IPv4 Network	
Organization	ITSB-MY
Country	MY
ASN	AS134797
ASN Name	ITSB-AS-AP - Innet Technologies Sdn Bhd, MY
Network (CIDR)	103.199.216.0/24

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%) 0 / 5			
#	CHECK	RESULT	DETAIL
1	NS Has AAAA Record	FAIL	No nameserver has an AAAA record.
2	NS Reachable via IPv6	FAIL	No nameserver is reachable over IPv6.
3	NS Answers Queries via IPv6	FAIL	Nameserver does not answer queries 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	PASS	RRSIG signatures are current and valid.

#	CHECK	RESULT	DETAIL
8	Signing Algorithm	INFO	ECDSAP256SHA256

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	103.199.216.134
2	HTTP over IPv4	PASS	HTTP (port 80) responds over IPv4 — 73ms TTFB.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 71ms TTFB.

Audit Trail & Evidence Record

Verification ID	62450d24-5fd5-426e-9f4a-88c6f32558d4
Domain	ioigroup.com
Check Mode	Manual
Status	Completed
Started	04 Jul 2026, 03:45:18 MYT
Finished	04 Jul 2026, 03:45:41 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/62450d24-5fd5-426e-9f4a-88c6f32558d4

Integrity Verification

<p>✓ INTEGRITY VERIFIED</p>	
Algorithm	hmac-sha256-v1
Root Hash	80aa442a3d881c4250c5906df75eaa4fa4be47a51da606772ba480677ddbcab7
http_headers	08b0334cc48cee99f433ca5fae6264492b13864ca55846a67a12c5a7270006ee
dns_responses	bb454f2c30d16b4d4a0b38245dff61ec9a995fc6e7f42e39e0b9fc4856e99040
tls_handshake	10808b60dbd135bc49612cc871a16cb312a1806a4c63521c2fa69e7b20c6c400
connectivity_log	955034865805a54d95a203cdef3d7186cf0eba3adf9f81b335dbd62f0e9005d3
dns_resolution_times	2089ec058c00fcf37211ceed726fb17638939a6d6c7424c11132f5682830973f

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	10.1	21.86	21.5	23.46	+11.4
Google	IPv4	25.06	32.07	36.19	53.15	+11.1
Google	IPv6	37.61	42.61	28.35	41.69	-9.3
Cloudflare	IPv4	9.86	10.52	10.17	21.22	+0.3
Cloudflare	IPv6	11.52	40.32	46	54.34	+34.5

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 37612
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
ioigroup.com. 86400 IN A 103.199.216.134
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 33474
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
com. 878 IN SOA a.gtld-servers.net. nstld.verisign-grs.com. 1783107891 1800 900 604800 900
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 38673
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
ioigroup.com. 3600 IN MX 5 ioigroup-com.mail.protection.outlook.com.
```

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 9373
;; flags: qr rd ra; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 4

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
ioigroup.com. 86400 IN NS ns.ioigroup.com.
ioigroup.com. 86400 IN NS ns2.ioigroup.com.
ioigroup.com. 86400 IN NS ns3.ioigroup.com.
```

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 2956
;; flags: qr rd ra; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
ioigroup.com. 86400 IN TXT "google-site-verification=XeDjYjEWY85NbE-ow9CdBka05rSjrgjkEeuyeB-cqM"
ioigroup.com. 86400 IN TXT "MS=ms80478749"
ioigroup.com. 86400 IN TXT "v=spf1 ip4:116.204.202.96/29 ip4:27.131.42.192/27 ip4:203.121.118.128/27 ip4:103.12.66.96/27 ip4:34.143.217.0/24 ip4:135.84.81.0/24 include:one.zoho.com include:asp-spf1.yardi.com include:asp-spf2.yardi.com include:spf.protection.outlook.com -all"
```

AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 36212
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
ioigroup.com. 3600 IN SOA ns.ioigroup.com. hostmaster.ioigroup.com. 2026022617 28800 7200 604800 86400
```

RRSIG

```
ns.ioigroup.com. hostmaster.ioigroup.com. 2026022615 28800 7200 604800 86400
SOA 13 2 86400 20260716194922 20260702184922 63148 ioigroup.com. y6JitySbWZrunTZepSyHrBU8tLu9QwQWXSMBaNX5dUWmWBuuN0K8Fg 50pm1vv8Hc3++0cUraqqHyY4GbtP4A==
```

DNSKEY

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 36980
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
ioigroup.com. 3578 IN DNSKEY 257 3 13 0HtMH7d8lft/LPfbUaKn0UajmbnFrAYZToIn+CtsYHuMaX9APuYnQK9b GEPRu09QVKmPtk47M2ZffDX2yZLq0Q==
```

DNSSEC_VALIDATION

```
;; validating ioigroup.com/SOA: no valid signature found
; unsigned answer
ioigroup.com. 86378 IN SOA ns.ioigroup.com. hostmaster.ioigroup.com. 2026022615 28800 7200 604800 86400
ioigroup.com. 86378 IN RRSIG SOA 13 2 86400 20260716194922 20260702184922 63148 ioigroup.com. y6JitySbWZrunTZepSyHrBU8tLu9QwQWXSMBaNX5dUWmWBuuN0K8Fg
50pm1vv8Hc3++0cUraqqHyY4GbtP4A==
```



```

osicfebUTVSvQpmowQTCd5zW50T0EeAqgJnwQ3DPP3Zr0UxJqyRwg2C/Uaoq2yT
zGJSQnWS+Jr6XL6ysGHLHx+5fwmY6D36g39HaaECAwEAa0CAYIwggF+MBIGAlUd
EwEB/wQIMAYBAf8CAQAwHQYDVROBBYEFH5FgMBmx9833s+9KTeqAx2+7c0XMB8G
A1UdIwQYMBaAFE4iVCAyLejbuYP+vg5Eu0GF485MA4GA1UdDwEB/wQEAwIBhJAd
BgNVHSUEfjAUBggrBgEFBQcDAQYIKwYBBQUHAWIwdgYIKwYBBQUHAQEaJBoMCQG
CCsGAQUFBzABhhodHRwOi8vb2NzcC5kaWdpY2VydC5jb20wQAYIKwYBBQUHMAKG
NGh0dHA6Ly9jYWNlcnRzLmRpZ2ljZXJ0LmNvbS59EaWdpQ2VydEdsb2JhbFJvb3RH
Mi5jcnQwQgYDVROfBDswOTA3oDWgM4YxaHR0cDovL2NybmDMuZGlnaWNLcnQuY29t
L0RpZ2ljZXJ0R2xvYmFsUm9vdEcyLmNybDA9BgNVHSAENjA0MASGCWCGSAGG/WwC
ATAHBgVngQwBATAIBgZngQwBAGAwEwCAyGZ4EMAQICMAgGBmeBDAECAzANBgkqhkiG
9w0BAQsFAAOCAQEAKPFwyyiXaZd8dP3A+iZ7U6utzWX9upwGnIRXWk0H7U1MVL+t
wcWBSAuWdH/SvWgKtiwla3JLko716f2b4gp/DA/JIS7w7d7kwcsr4drdjPtAFVS
sLme5LnQ89/nD/7d+MS5EHKBCQRfz5eelJljs+aWNJXMX43AYGyZm0pGrFmCW3R
bpD0ufovARTFXfZkAdl9h6g4U5+LXUZtXMYnhIHUfoym05t558aI7Dd8KvVwV04
chDYABPPThPbjc1qCmBaZx2vN4Ye5DUys/vZwP9BFohFrH/6j/f3IL16/RZkiMN
JCqVJUzKoZHm1Lesh3S8W2jmdv51b2EQJ8HmA==
-----END CERTIFICATE-----
---
Server certificate
subject=C = MY, L = Putrajaya, O = IOI CORPORATION BERHAD, CN = *.ioigroup.com
issuer=C = US, O = DigiCert Inc, CN = DigiCert Global G2 TLS RSA SHA256 2020 CA1
---
No client certificate CA names sent
Peer signing digest: SHA256
Peer signature type: RSA
Server Temp Key: ECDH, secp384r1, 384 bits
---
```


HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	200
Connected IP	103.199.216.134
Connect Time	15.4 ms
TTFB	76.29 ms
Total Time	76.42 ms

Response Headers:

```
{
  "0": "HTTP/1.1 301 Moved Permanently",
  "1": "Content-Length: 144",
  "2": "Content-Type: text/html; charset=UTF-8",
  "3": "Location: https://ioigroup.com/",
  "4": "Strict-Transport-Security: max-age=31536000; includeSubDomains",
  "5": "X-Frame-Options: SAMEORIGIN",
  "6": "X-Content-Type-Options: nosniff",
  "7": "Referrer-Policy: strict-origin-when-cross-origin",
  "8": "Permissions-Policy: camera=(), microphone=(), geolocation=(), payment=(), usb=()",
  "9": "Content-Security-Policy: default-src 'self'; script-src 'self' 'unsafe-inline' 'unsafe-eval' www.googletagmanager.com
www.google-analytics.com maps.googleapis.com www.google.com www.gstatic.com static.elfsight.com apps.elfsight.com cdn.jsdelivr.net; style-src 'self'
'unsafe-inline' fonts.googleapis.com apps.elfsight.com cdn.jsdelivr.net; img-src 'self' data: https: www.google-analytics.com www.googletagmanager.com
maps.gstatic.com www.gstatic.com apps.elfsight.com www.ioigroup.com; font-src 'self' data: fonts.gstatic.com; connect-src 'self' https:
www.google-analytics.com www.googletagmanager.com maps.googleapis.com apps.elfsight.com; frame-src www.youtube.com www.youtube-nocookie.com
www.google.com www.gstatic.com apps.elfsight.com; frame-ancestors 'self'; base-uri 'self'; form-action 'self'",
  "10": "Date: Fri, 03 Jul 2026 19:45:40 GMT",
  "12": "HTTP/2 301",
  "13": "content-length: 148",
  "14": "content-type: text/html; charset=UTF-8",
  "15": "location: https://www.ioigroup.com/",
  "16": "strict-transport-security: max-age=31536000; includeSubDomains",
  "17": "x-frame-options: SAMEORIGIN",
  "18": "x-content-type-options: nosniff",
  "19": "referrer-policy: strict-origin-when-cross-origin",
  "20": "permissions-policy: camera=(), microphone=(), geolocation=(), payment=(), usb=()",
  "21": "content-security-policy: default-src 'self'; script-src 'self' 'unsafe-inline' 'unsafe-eval' www.googletagmanager.com www.google-
analytics.com maps.googleapis.com www.google.com www.gstatic.com static.elfsight.com apps.elfsight.com cdn.jsdelivr.net; style-src 'self' 'unsafe-
inline' fonts.googleapis.com apps.elfsight.com cdn.jsdelivr.net; img-src 'self' data: https: www.google-analytics.com www.googletagmanager.com
maps.gstatic.com www.gstatic.com apps.elfsight.com www.ioigroup.com; font-src 'self' data: fonts.gstatic.com; connect-src 'self' https:
www.google-analytics.com www.googletagmanager.com maps.googleapis.com apps.elfsight.com; frame-src www.youtube.com www.youtube-nocookie.com
www.google.com www.gstatic.com apps.elfsight.com; frame-ancestors 'self'; base-uri 'self'; form-action 'self'",
  "22": "date: Fri, 03 Jul 2026 19:45:40 GMT",
  "24": "HTTP/2 200",
  "25": "content-length: 761398",
  "26": "content-type: text/html",
  "27": "last-modified: Fri, 03 Jul 2026 10:04:22 GMT",
  "28": "accept-ranges: bytes",
  "29": "etag: \"2d1f1152d3add1:0\"",
  "30": "strict-transport-security: max-age=31536000; includeSubDomains",
  "31": "x-frame-options: SAMEORIGIN",
  "32": "x-content-type-options: nosniff",
  "33": "referrer-policy: strict-origin-when-cross-origin",
  "34": "permissions-policy: camera=(), microphone=(), geolocation=(), payment=(), usb=()",
  "35": "content-security-policy: default-src 'self'; script-src 'self' 'unsafe-inline' 'unsafe-eval' www.googletagmanager.com www.google-
analytics.com maps.googleapis.com www.google.com www.gstatic.com static.elfsight.com apps.elfsight.com cdn.jsdelivr.net; style-src 'self' 'unsafe-
inline' fonts.googleapis.com apps.elfsight.com cdn.jsdelivr.net; img-src 'self' data: https: www.google-analytics.com www.googletagmanager.com
maps.gstatic.com www.gstatic.com apps.elfsight.com www.ioigroup.com; font-src 'self' data: fonts.gstatic.com; connect-src 'self' https:
www.google-analytics.com www.googletagmanager.com maps.googleapis.com apps.elfsight.com; frame-src www.youtube.com www.youtube-nocookie.com
www.google.com www.gstatic.com apps.elfsight.com; frame-ancestors 'self'; base-uri 'self'; form-action 'self'",
  "36": "date: Fri, 03 Jul 2026 19:45:40 GMT"
}
```

IPv4 HTTPS (port 443)

HTTP Status	200
Connected IP	103.199.216.134
Connect Time	6.96 ms
TTFB	65.48 ms
Total Time	65.56 ms

Response Headers:

```
{
  "0": "HTTP/2 301",
  "1": "content-length: 148",
  "2": "content-type: text/html; charset=UTF-8",
  "3": "location: https://www.ioigroup.com/",
  "4": "strict-transport-security: max-age=31536000; includeSubDomains",
  "5": "x-frame-options: SAMEORIGIN",
  "6": "x-content-type-options: nosniff",
  "7": "referrer-policy: strict-origin-when-cross-origin",
  "8": "permissions-policy: camera=(), microphone=(), geolocation=(), payment=(), usb=()",
  "9": "content-security-policy: default-src 'self'; script-src 'self' 'unsafe-inline' 'unsafe-eval' www.googletagmanager.com www.google-
analytics.com maps.googleapis.com www.google.com www.gstatic.com static.elfsight.com apps.elfsight.com cdn.jsdelivr.net; style-src 'self' 'unsafe-
inline' fonts.googleapis.com apps.elfsight.com cdn.jsdelivr.net; img-src 'self' data: https: www.google-analytics.com www.googletagmanager.com
maps.gstatic.com www.gstatic.com apps.elfsight.com www.ioigroup.com; font-src 'self' data: fonts.gstatic.com; connect-src 'self' https:
www.google-analytics.com www.googletagmanager.com maps.googleapis.com apps.elfsight.com; frame-src www.youtube.com www.youtube-nocookie.com
www.google.com www.gstatic.com apps.elfsight.com; frame-ancestors 'self'; base-uri 'self'; form-action 'self'",
  "10": "date: Fri, 03 Jul 2026 19:45:41 GMT",
  "12": "HTTP/2 200",
  "13": "content-length: 761398",
  "14": "content-type: text/html",
  "15": "last-modified: Fri, 03 Jul 2026 10:04:22 GMT",
  "16": "accept-ranges: bytes",
  "17": "etag: \"2d1f1152d3add1:0\"",
  "18": "strict-transport-security: max-age=31536000; includeSubDomains",
  "19": "x-frame-options: SAMEORIGIN",
  "20": "x-content-type-options: nosniff",
  "21": "referrer-policy: strict-origin-when-cross-origin",
  "22": "permissions-policy: camera=(), microphone=(), geolocation=(), payment=(), usb=()",
  "23": "content-security-policy: default-src 'self'; script-src 'self' 'unsafe-inline' 'unsafe-eval' www.googletagmanager.com www.google-
analytics.com maps.googleapis.com www.google.com www.gstatic.com static.elfsight.com apps.elfsight.com cdn.jsdelivr.net; style-src 'self' 'unsafe-
inline' fonts.googleapis.com apps.elfsight.com cdn.jsdelivr.net; img-src 'self' data: https: www.google-analytics.com www.googletagmanager.com
maps.gstatic.com www.gstatic.com apps.elfsight.com www.ioigroup.com; font-src 'self' data: fonts.gstatic.com; connect-src 'self' https:
www.google-analytics.com www.googletagmanager.com maps.googleapis.com apps.elfsight.com; frame-src www.youtube.com www.youtube-nocookie.com
www.google.com www.gstatic.com apps.elfsight.com; frame-ancestors 'self'; base-uri 'self'; form-action 'self'",
  "24": "date: Fri, 03 Jul 2026 19:45:41 GMT"
}
```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	301 0.003191 0.006317
TCP Connect IPv4 → port 443	301 0.003701 0.034101

Test Node Network Evidence

Node Profile	dual stack
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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
```