

IPv6 Readiness Report

onexox.my — onexox.my



Scan to verify

Category: Telco • Generated: 04 Jul 2026, 22:12 MYT • Last Checked: 04 Jul 2026, 03:53 MYT • Verification ID: 9e3bb26e-3c26-4179-a378-c16bd59ad0cb

Report generated from National IPv6 Readiness Monitor — <https://ipv6.my6.my>

Audit trail: <https://ipv6.my6.my/audit/9e3bb26e-3c26-4179-a378-c16bd59ad0cb>

<p>X</p> <p>Non-Compliant</p> <p>MGv6C-1.0</p>	<p>43%</p> <p>No IPv6 Support</p>	<p>IPv6-ONLY READINESS</p> <p>Website: X Not Ready</p> <p>DNS: ✓ Ready</p> <p>Email: X Not Ready</p>
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<p>IPv4 ADDRESSES</p> <p>54.251.224.176</p>
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Network Information (WHOIS / RDAP)

IPv4 Network	
Organization	Amazon.com, Inc.
Country	US
ASN	AS16509
ASN Name	AMAZON-02 - Amazon.com, Inc., US
Network (CIDR)	54.251.0.0/16

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%) 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	DKIM selector found: default_domainkey
7	DMARC Record	PASS	DMARC record found.

IPv4 Baseline (15%) 3 / 3

#	CHECK	RESULT	DETAIL
1	A Record	PASS	54.251.224.176
2	HTTP over IPv4	PASS	HTTP (port 80) responds over IPv4 — 326ms TTFB.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 354ms TTFB.

Audit Trail & Evidence Record

Verification ID	9e3bb26e-3c26-4179-a378-c16bd59ad0cb
Domain	onexox.my
Check Mode	Manual
Status	Completed
Started	04 Jul 2026, 03:53:43 MYT
Finished	04 Jul 2026, 03:53:48 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/9e3bb26e-3c26-4179-a378-c16bd59ad0cb

Integrity Verification

✓ INTEGRITY VERIFIED	
Algorithm	hmac-sha256-v1
Root Hash	ba0dc84cb70ec5448616a45663d2d497c9182b0c5ba9a23d509c863cdb1987b8
http_headers	45c96199594d9436de2c3f09853ac589e86bf8dbe0e2fe8f3f7ca15454b48197
dns_responses	e5eb4c8d6e5aeb8bdd434f2ec4cd232f6e14afea59d111ab48a6b2c193a89693
tls_handshake	36c0f4ff2376b01a4bef53dd6e82c95ef3ff82bd7bade9224f8db1852d71cc86
connectivity_log	42bf671aa1f975c8f2c89e0b7a89243dd9b83627b3eb00959066e8b6cb15e178
dns_resolution_times	189df392da179d150d58b92409d6655ebc1d620177ba54f15b730d069d8e6f99

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	9.35	21.41	11.9	22.83	+2.6
Google	IPv4	26.35	39.53	23.09	32.15	-3.3
Google	IPv6	33.07	38.33	22.43	26.42	-10.6
Cloudflare	IPv4	14.57	34.88	10.42	18.82	-4.2
Cloudflare	IPv6	29.92	33.42	24.73	28.46	-5.2

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 48929
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
onexox.my. 300 IN A 54.251.224.176
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 8926
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
my. 3597 IN SOA e.nic.my. hostmaster.nic.my. 2026052760 1800 900 604800 3600
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 10989
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
onexox.my. 300 IN MX 0 mx2.mschostring.com.onexox.my.
onexox.my. 300 IN MX 0 mx1.mschostring.com.
onexox.my. 300 IN MX 0 mx1.mschostring.com.onexox.my.
onexox.my. 300 IN MX 0 mx2.mschostring.com.
```

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 28643
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
onexox.my. 86400 IN NS maria.ns.cloudflare.com.
onexox.my. 86400 IN NS derek.ns.cloudflare.com.
```

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 40702
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
onexox.my. 60 IN TXT "v=spf1 ip4:103.6.198.238 a mx include:spf "f.mschostring.com -all"
onexox.my. 60 IN TXT "v=spf1 ip4:103.6.198.238 a mx include:spf.mschostring.com -all"
```

AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 10847
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
onexox.my. 1798 IN SOA derek.ns.cloudflare.com. dns.cloudflare.com. 2406267266 10000 2400 604800 1800
```

RRSIG

```
derek.ns.cloudflare.com. dns.cloudflare.com. 2406267266 10000 2400 604800 1800
```

DNSKEY

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 47293
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
onexox.my. 1798 IN SOA derek.ns.cloudflare.com. dns.cloudflare.com. 2406267266 10000 2400 604800 1800
```

DNSSEC_VALIDATION

```
; unsigned answer
onexox.my. 1797 IN SOA derek.ns.cloudflare.com. dns.cloudflare.com. 2406267266 10000 2400 604800 1800
```


TLS Handshake Evidence

IPV4 Connection

IP Used	54.251.224.176
IP Version	4

```

depth=2 C = US, O = DigiCert Inc, OU = www.digicert.com, CN = DigiCert Global Root G2
verify return:1
depth=1 C = US, O = DigiCert Inc, OU = www.digicert.com, CN = GeoTrust TLS RSA CA G1
verify return:1
depth=0 C = MY, ST = Selangor, L = Petaling Jaya, O = XOX COM SDN. BHD., CN = *.onexox.my
verify return:1
CONNECTED(00000010)
...
Certificate chain
 0 s:C = MY, ST = Selangor, L = Petaling Jaya, O = XOX COM SDN. BHD., CN = *.onexox.my
  i:C = US, O = DigiCert Inc, OU = www.digicert.com, CN = GeoTrust TLS RSA CA G1
  a:PKKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA512
  v:NotBefore: Sep 30 00:00:00 2025 GMT; NotAfter: Oct 13 23:59:59 2026 GMT
-----BEGIN CERTIFICATE-----
MIIGdTCCBV2gAwIBAgIQD0Xxbr/5ZiFdZ9CkyXMKbDANBqkqkiG9w0BAQ0FADBg
MQswCQYDVQQGEwJVUzEVMBMGA1UEChMMRGlnaUNlcnQgSW5jMRkwFwYDVQLEExB3
d3cuZGlnaW50cnQuY29tMR8wHQYDQ0ExZHZhW9UcnVzdCBUTFMgU1NBIEBhIEcx
MB4XDTE1MDkzMDAwMDAwMfoXDTI2MTAxMzIzNk10VowajELMAkGA1UEBhMCTVxX
ETAPBgNVBAGTCFNLbGFuZ29yMRYwFAYDVQQHEw1QZXRhbGluZyBKYXl1hMR0wGAYD
VQQKEwYTYTggQ09NIFNETi4gQkhlELjEUMBIGA1UEAwwLKl5vbmV4b3gubXkwgEi
MA0GCSqGSIb3DQEBAQUAA4IBDwAwggEKAoIBAQCuE/3MHstw2nL2mF3Ydg9ggllq
nt5TvPD3QIw6TUQJjxyvHk10AmEYNseZwX/r/dw3RupFh17gouC02Z7nVgKYPgU
Arb18pYBk2z69DvNbrclWYAZVgLVgY0+F0i7N87HxN5XG00FD0pXNPTWdJk93RRr
7Wxw2alyF/X/6tz4ss5CoAV8Jsk/cP0FVwiA0DYi8wxNjF9swYxjNbhyaDwK/Z
otfdmB/1c1AU8dznL+D6FX0fUwKavkh/fiUjzW4cnc20xmVM06EyyxxuMmHGkK
7zYw/v7VbJPyMq0EvBknxgUuomF0zcnXV7ZiKHvMfFgd8seQaHEEzs0CwhAgMB
AAGjggMfMIIDGzAFBgNVHSMEGDAWgBSUT9Rdi+5k4qaA/v3Y+QDvo74CVzAdBgMB
HQ4EFgQUKw6CQGS5hi5eYKpKv2QuXvB0SxkwiQYDVR0RBbowGIIKl5vbmV4b3gu
bXmCCW9uZXhveC5teTA+BgnVHSAENzA1MDMGMbmeBDAECAjApMCcGCCsGAQUFBwIB
FhtodHRwOi8vd3d3LmRpZ2ljZXJ0LmNvbS9DUFMwDgYDVR0PAQH/BAQDAgMB0G
A1UdJQQwMBQGCCsGAQUFBwMBBggrBgEFBQcDAjA/BgNVHR8E0DA2MDSGMAwhi5o
dHRwOi8vY2RwLmLmdlLm3RydXN0LmNvbS9H2W9UcnVzdFRMU1JTQUNBRzEuY3J5SjMhY
CCsGAQUFBwEBBGowaDAmBgggrBgEFBQcwAYYAAHR0cDovL3N0YXR1cy5nZW90cnVz
dC5jb20wPgYIKwYBBQUHMAKGMh0dHA6Ly9jYWNlcnRzLmdlLm3RydXN0LmNvbS9H
ZW9UcnVzdFRMU1JTQUNBRzEuY3J0MAwGA1UdEwEB/wCMAAwgGF+BgorBgEEAdZ5
AgoQCBIIBgSCAWoBaB1ANgJVTUUT3r/yBYZb5RPhauw+PxeH1UmDxXRLN7RjU5
AAABmZj73sUAAQDAEYwRAIGYpZ+Wom0m8XncQvSKSabUMiKwDh80wp9ACuR3Yj
S1QCIEPywh7lVtich5n2q7ruCs0CxlKSwmd7kLpaNatsD6AHCAwjF+v0Uzo0h
fzjespBB68fCIVoiv3/Vta12mtk0U0AAAGZmPvesgAABAMASDBGAIEArNyU8mk/
qpBgnL7xLkt5nfmELzAQzSRMia0N03ZC0CIQDHzU7zUPZJwfbRsvfMwzPCmD
IoXstcSyMaSjrVFCfwB2AJR0Q4f67MHvgfMZjCaoGUGBx9NFOAIBP3JnfvU3LhnY
AAABmZj73sMAAAQDAECwRQIGhZyVEVYnr0frZvZKdtsAdCgPqrEGhxsxHkFJuFKs
51sCICV36XLT+01ahHr5k0puHgB1Pmknk+asJlJQu3wbnSvSjANBgkqhkiG9w0B
A0QFAA0CAEQ4F9YGFfAVgneidhdtSHMipQmJeYbASyDTAsGMHn1jImclia4H
EFYp7g2breP+d06Mgnj4c6+ppYxLaU8e7/Jh5pPBpBHfB9hWSDk2hoZjYIQKF+G1
wGCMnB4qRbBcR05MrjXbDBRFpt8vh1UfNM/s/o4qEMp405YoHn4tYiy6gidVq+
FLDVF9A0o4i7ZFfm60qJw1PDd8dRgu8xyQn+IemB11TvnV4Qz5AoBxONLRG/DyL
/BadUN3z5LiVVGcZm5s8klBNE5HEK70ZEwcT4E/QKZ1txf6BfngqLFXcbaqxN7I
n+9jF4P3k0eBRVZ4WopEvujpVLAN0WJEuw==
-----END CERTIFICATE-----
 1 s:C = US, O = DigiCert Inc, OU = www.digicert.com, CN = GeoTrust TLS RSA CA G1
  i:C = US, O = DigiCert Inc, OU = www.digicert.com, CN = DigiCert Global Root G2
  a:PKKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA256
  v:NotBefore: Nov 2 12:23:37 2017 GMT; NotAfter: Nov 2 12:23:37 2027 GMT
-----BEGIN CERTIFICATE-----
MIIEjTCCA3WgAwIBAgIQD0d4Khm/xvmLcpbhMf/ReTANBgkqhkiG9w0BAQ0SFADBh
MQswCQYDVQQGEwJVUzEVMBMGA1UEChMMRGlnaUNlcnQgSW5jMRkwFwYDVQLEExB3
d3cuZGlnaW50cnQuY29tMSAwHAYDVQQDExdEawdpQ2VydCBHbG9iYVwU9vdCBH
MjAeFw0xNzExMDIxMjIzMDZmFw0yMDYyMDYyMDYyMDYyMDYyMDYyMDYyMDYyMDYy
MRUwEwYDVQQKEwxEawdpQ2VydCBHbG9iYVwU9vdCBHbG9iYVwU9vdCBHbG9iYVwU
b20xZAdBgNVBAMTFkd1b1RydXN0IFRFRUJBSU0Eg0EgRzEwggEiMA0GCSqGSIb3
DQEBAQUAA4IBDwAwggEKAoIBAQC+F+jsviKky/65LWEx/TMKCDIUwEgh1Ngwvm4Q
yISgP7oU5d79eoySG3v0hC3w/3jEMuipoH1fbt7m0tTpsYbAch4XA7rFud6WhW
gajeErLVxoiWMPK/DnUvvgi74BjmdBiUgHQSd7LwsuXpTEGG9fYXcbTVNS5ATyQ
DfFebxYxTmWVJwovb6lRbEGM3gBBqkIAiy800xu1Nq07JdCIQkBsNpFtZbIZhsDS
fzLgWP4wEmB03067c+ZkXfr2DcrXBETHam80p25Nhou2U5U7UsDL/xgLK6/0d7
6TnEVMsUVJkZ8VeZr+IUIlvolrtjLbqub0T30YXw+CQ0k0BAGMBAAGjggFAMIIB
PDAdBgNVHQ4EFgQULE/UXYvKp0KmgP792PkA760+A1cwhwYDVR0jBBgwFoAUTiJU
IBiV5uNu5g/6+rks7QYXjzkWdYDVR0PAQH/BAQDAgGMB0GA1UdJQQwMBQGCCsG
AQUFBwMBBggrBgEFBQcDAjASBGNVHRMBAf8ECDAGAQH/AgEAMDQGCCsGAQUFBwEB
BcGwJjAKBgggrBgEFBQcwAYYAAHR0cDovL29j3c3AUZGlnaW50cnQuY29tMEIGA1Ud
HwQ7MDkxN6A1oDOGmWh0dHA6Ly9jcmwzLmRpZ2ljZXJ0LmNvbS9EawdpQ2VydEds
b2JhbFJvb3RHM15jcmwzPQYDVR0gBDYwNDAyBgRVHSAAMCOWKAYIKwYBBQUHAGwE

```



```
inline'; style-src 'self' https: 'unsafe-inline'; worker-src 'self' blob;; connect-src 'self' https: 'unsafe-inline';"
]
```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	301 0.008324 0.017326
TCP Connect IPv4 → port 443	200 0.009015 0.321656

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
```