

IPv6 Readiness Report

sapuraenergy.com — sapuraenergy.com



Scan to verify

Category: Enterprise • Generated: 04 Jul 2026, 22:13 MYT • Last Checked: 04 Jul 2026, 03:49 MYT • Verification ID: 73e12d52-9d14-4c86-9ad4-09a22401bb4e

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

Audit trail: <https://ipv6.my6.my/audit/73e12d52-9d14-4c86-9ad4-09a22401bb4e>

<p>X</p> <p>Non-Compliant</p> <p>MGv6C-1.0</p>	<p>47%</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>128.199.237.84</p>
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Network Information (WHOIS / RDAP)

IPv4 Network	
Organization	digitalocean
Country	GB
ASN	AS14061
ASN Name	DIGITALOCEAN-ASN - DigitalOcean, LLC, US
Network (CIDR)	128.199.0.0/16

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%) 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	128.199.237.84
2	HTTP over IPv4	PASS	HTTP (port 80) responds over IPv4 — 178ms TTFB.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 187ms TTFB.

Audit Trail & Evidence Record

Verification ID	73e12d52-9d14-4c86-9ad4-09a22401bb4e
Domain	sapuraenergy.com
Check Mode	Manual
Status	Completed
Started	04 Jul 2026, 03:48:52 MYT
Finished	04 Jul 2026, 03:49:17 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/73e12d52-9d14-4c86-9ad4-09a22401bb4e

Integrity Verification

✓ INTEGRITY VERIFIED	
Algorithm	hmac-sha256-v1
Root Hash	82364cd7ea9816b7ae063d89c13b5d262a73b3ef79379862bf023588475192de
http_headers	94945977fb31efd32239d0d576cde4d36c31663ebbf6483d80b77716d97637
dns_responses	1ccdf447a0eee6b02bbc708752f001cef85cf5634606319ec762fa6f4fe4e19a
tls_handshake	a66fe566c15f64f4c86ea523cd43a3e21fd4f0dca4f5fb7efd9764bcee423a3c
connectivity_log	f34f770303e01ee4969b8185b7ecedb896f7a0a83725c312301770905aa639ab
dns_resolution_times	cafe446c4a67dc5e2705a6935efe94aea01400f88aa9a1d782e1b1a6b4d1ce2c

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	11.34	29.46	16.05	19.68	+4.7
Google	IPv4	22.28	27.92	17.13	20.01	-5.2
Google	IPv6	21.7	24.47	34.94	35.87	+13.2
Cloudflare	IPv4	12.61	24.33	10.29	21.44	-2.3
Cloudflare	IPv6	20.66	31.08	17.22	30.18	-3.4

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 62981
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
sapuraenergy.com. 3600 IN A 128.199.237.84
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 29980
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
com. 877 IN SOA a.gtld-servers.net. nstld.verisign-grs.com. 1783108106 1800 900 604800 900
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 14100
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

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

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 22774
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
sapuraenergy.com. 3600 IN NS ns03.domaincontrol.com.
sapuraenergy.com. 3600 IN NS ns04.domaincontrol.com.
```

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 57939
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
sapuraenergy.com. 1800 IN TXT "MS=ms43845273"
sapuraenergy.com. 1800 IN TXT "v=spf1 ip4:198.21.3.77 ip4:149.72.80.177 ip4:49.255.189.58 ip4:110.232.151.245 ip4:49.255.221.208/29 include:spf.protection.outlook.com include:spf.au.exclaimer.net -all"
sapuraenergy.com. 1800 IN TXT "successfactors-site-verification=ZmNhMjE1OWY2NWQ4MjY3NDI0YjIjNmU1ZjQ0MmY5ZDg5NzVhMmYwYzgzOjYxMjg1ZjU0MTkxMGJhZjF0RkNA=="
sapuraenergy.com. 1800 IN TXT "google-site-verification=hNnyawKYS7TabhHhA_bMYs1TrF6ToPmehls2EkbdNBQ"
```

AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 6385
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
sapuraenergy.com. 577 IN SOA ns03.domaincontrol.com. dns.jomax.net. 2026062202 28800 7200 604800 600
```

RRSIG

```
ns03.domaincontrol.com. dns.jomax.net. 2026062202 28800 7200 604800 600
```

DNSKEY

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 65026
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
sapuraenergy.com.[]577[]IN[]SOA[]ns03.domaincontrol.com. dns.jomax.net. 2026062202 28800 7200 604800 600
```

DNSSEC_VALIDATION

```
; unsigned answer
sapuraenergy.com.[]577[]IN[]SOA[]ns03.domaincontrol.com. dns.jomax.net. 2026062202 28800 7200 604800 600
```



```

KwYBBQUHAWEGCCsGAQUFBwMCMBSGA1UdIAQUMBIwBgYEVR0gADAIgZngQwBAGew
VAYDVR0fBE0wSzBjOeEgRYZDaHR0cDovL2NybC5zZWNoawdvLmNvbS9TZWNoawdv
UHVibGljU2VydmyQXV0aGVudGljYXRpb255b290UjQ2LmNybDcBhAYIKwYBBQUH
AQEEeDB2ME8GCCsGAQUFBzAChkNodHRwOi8vY3J0LnNlY3RpZ28uY29tL1NlY3Rp
Z290dWJsawNTZXJ2ZXJBR0cW50awNhdGlvb1Jvb3RSNDYucDdjMCMGCCsGAQUF
BzABhhodHRwOi8vbn2zc5zZWNoawdvLmNvbTANBgkqhkiG9w0BAQwFAAOCAGEA
YtOC9Fy+TqECFw40IospI92klGgoSZGPOSQXMBqmsGWZUQ7rux7cj1du6d9rD6C8
ze1B2e0jkrGkIL/0F1s7vSmgYVafsRoZd/IHUrkoQvX8FZwUsmPu7amgBfaY3g+d
q1x0jNGKb6I6Bzd16LgMD9qxp+3i7GQ0nd9J8LFSietY6Z4jUBzVo0oz8iAU840F
h2HhAuiPw1ai0VnY38RTI+8kepGWVfGxfBWzwh9uIjeoIeaosVFvE8cmYUB4TSH
5dUyD0jHct2+8ceKEtIoFU/FfHq/mDaVnvcDCZxtIgitdMFQdMzaVehmObyhRdDD
4NQC9gaI9AAgfj4L90tkARzhQLNyRf87Kln+YU0lgCG9HLg3rG08q+Y4pplSod
unQZ6ZxPNGIf0ApbPVf5hCe58EZwiWdHIMn9LPP6+F404y8NNugbQixBber+x536
WrZfZLjEkhp7fFXf9r32rNPFb74X/U90Bdy4Lzpz+X1ukh1BuMxA/EEhDoTOS3L
7ABvc7BYSQubQ24900cdkIzUh3ZwDrakMvrbaTxUM2p24N6dB+ns2zptWCva6jzW
r8IWKIMxzxLPv5Kt3ePKcUdvkBU/smqjSczTzzSjIoR5QqQA6lN1ZRSnuHIWcvh
JEltkYnTAH41QJ6SAW066GrrUESwN/cgZzL4JLEqz1Y=
-----END CERTIFICATE-----
---
Server certificate
subject=CN = *.sapuraenergy.com
issuer=C = GB, O = Sectigo Limited, CN = Sectigo Public Server Authentication CA DV R36
---
No client certificate CA names sent
Peer signing digest: SHA256
Peer signature type: RSA-PSS
Server Temp Key: X25519, 253 bits

```

HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	200
Connected IP	128.199.237.84
Connect Time	26.77 ms
TTFB	175.9 ms
Total Time	176 ms

Response Headers:

```
{
  "0": "HTTP/1.1 301 Moved Permanently",
  "1": "Date: Fri, 03 Jul 2026 19:49:16 GMT",
  "2": "Server: Apache",
  "3": "Location: https://vantrisenergy.com/",
  "4": "Content-Type: text/html; charset=iso-8859-1",
  "6": "HTTP/1.1 200 OK",
  "7": "Date: Fri, 03 Jul 2026 19:49:16 GMT",
  "8": "Server: Apache",
  "9": "Content-Security-Policy: default-src 'self'; script-src 'self' https://www.googletagmanager.com https://www.google-analytics.com https://s7.addthis.com; connect-src 'self' https://www.google-analytics.com; img-src 'self' https://www.google-analytics.com data:; style-src 'self' 'unsafe-inline'; frame-ancestors 'self'; object-src 'none'; base-uri 'self'; form-action 'self';",
  "10": "Strict-Transport-Security: max-age=31536000; includeSubDomains; preload",
  "11": "Link: <https://vantrisenergy.com/wp-json/>; rel=\"https://api.w.org/\"",
  "12": "Link: <https://vantrisenergy.com/wp-json/wp/v2/pages/342>; rel=\"alternate\"; title=\"JSON\"; type=\"application/json\"",
  "13": "Link: <https://vantrisenergy.com/>; rel=shortlink",
  "14": "Content-Type: text/html; charset=UTF-8"
}
```

IPv4 HTTPS (port 443)

HTTP Status	200
Connected IP	128.199.237.84
Connect Time	19.92 ms
TTFB	252.14 ms
Total Time	252.23 ms

Response Headers:

```
{
  "0": "HTTP/1.1 301 Moved Permanently",
  "1": "Date: Fri, 03 Jul 2026 19:49:16 GMT",
  "2": "Server: Apache",
  "3": "X-Frame-Options: SAMEORIGIN",
  "4": "X-Content-Type-Options: nosniff",
  "5": "Referrer-Policy: strict-origin",
  "6": "Strict-Transport-Security: max-age=31536000; includeSubDomains",
  "7": "Permissions-Policy: geolocation=(),midi=(),sync-xhr=(),microphone=(),camera=(),magnetometer=(),gyroscope=(),fullscreen=(self),payment=()",
  "8": "Location: https://vantrisenergy.com/",
  "9": "Content-Type: text/html; charset=iso-8859-1",
  "11": "HTTP/1.1 200 OK",
  "12": "Date: Fri, 03 Jul 2026 19:49:16 GMT",
  "13": "Server: Apache",
  "14": "Content-Security-Policy: default-src 'self'; script-src 'self' https://www.googletagmanager.com https://www.google-analytics.com https://s7.addthis.com; connect-src 'self' https://www.google-analytics.com; img-src 'self' https://www.google-analytics.com data:; style-src 'self' 'unsafe-inline'; frame-ancestors 'self'; object-src 'none'; base-uri 'self'; form-action 'self';",
  "15": "Strict-Transport-Security: max-age=31536000; includeSubDomains; preload",
  "16": "Link: <https://vantrisenergy.com/wp-json/>; rel=\"https://api.w.org/\"",
  "17": "Link: <https://vantrisenergy.com/wp-json/wp/v2/pages/342>; rel=\"alternate\"; title=\"JSON\"; type=\"application/json\"",
  "18": "Link: <https://vantrisenergy.com/>; rel=shortlink",
  "19": "Content-Type: text/html; charset=UTF-8"
}
```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	301 0.008400 0.018005
TCP Connect IPv4 → port 443	301 0.009057 0.034132

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
```