


# IPv6 Readiness Report

unifi.com.my — unifi.com.my

Category: Telco • Generated: 21 Apr 2026, 18:53 MYT • Last Checked: 07 Mar 2026, 01:14 MYT • Verification ID: 4149d93a-7242-439a-9d13-4609482a1058

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

Audit trail: <https://ipv6.my6.my/audit/4149d93a-7242-439a-9d13-4609482a1058>

 <b>Non-Compliant</b> <small>MGv6C-1.0</small>	<b>47%</b> <b>Partial Support</b>	<b>IPV6-ONLY READINESS</b> Website: <span style="color: red;">✗ Not Ready</span> DNS: <span style="color: green;">✓ Ready</span> Email: <span style="color: red;">✗ Not Ready</span>
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IPV4 ADDRESSES
45.60.245.95
45.60.243.95

## Network Information (WHOIS / RDAP)

IPv4 Network	
Organization	Incapsula Inc
Country	US
ASN	AS19551
ASN Name	INCAPSULA - Incapsula Inc, US
Network (CIDR)	45.60.0.0/16

Web Services (35%) <span style="float: right;">0 / 8</span>			
#	CHECK	RESULT	DETAIL
1	<b>AAAA Record</b>	<span style="color: red;">FAIL</span>	No AAAA record found in DNS.
2	<b>Globally Routable IPv6</b>	<span style="color: red;">FAIL</span>	IPv6 address is not globally routable.
3	<b>HTTP over IPv6</b>	<span style="color: red;">FAIL</span>	HTTP is not accessible over IPv6.
4	<b>HTTPS over IPv6</b>	<span style="color: red;">FAIL</span>	HTTPS is not accessible over IPv6.
5	<b>IPv6-Only Reachability</b>	<span style="color: red;">FAIL</span>	Site is not reachable when limited to IPv6-only.
6	<b>TLS Certificate Valid (IPv6)</b>	<span style="color: red;">FAIL</span>	TLS certificate is invalid, expired, or hostname mismatch over IPv6.
7	<b>Dual-Stack (IPv4 + IPv6)</b>	<span style="color: red;">FAIL</span>	Domain is IPv6-only or IPv4-only.
8	<b>HTTP/3 (QUIC)</b>	<span style="color: red;">FAIL</span>	No HTTP/3 support detected.

DNS & DNSSEC (25%) <span style="float: right;">3 / 5</span>			
#	CHECK	RESULT	DETAIL
1	<b>NS Has AAAA Record</b>	<span style="color: green;">PASS</span>	Nameserver has IPv6 address.
2	<b>NS Reachable via IPv6</b>	<span style="color: green;">PASS</span>	Nameserver is reachable via IPv6 on port 53.
3	<b>NS Answers Queries via IPv6</b>	<span style="color: green;">PASS</span>	DNS queries answered over IPv6.
4	<b>DNSSEC Validated</b>	<span style="color: red;">FAIL</span>	DNSSEC validation failed or zone is unsigned.
5	<b>Reverse DNS (PTR)</b>	<span style="color: red;">FAIL</span>	No PTR record found.
6	<b>DS Record at Parent</b>	<span style="color: red;">FAIL</span>	No DS record at parent.
7	<b>RRSIG Valid</b>	<span style="color: red;">FAIL</span>	No valid RRSIG found.
8	<b>Signing Algorithm</b>	<span style="color: purple;">INFO</span>	No DNSKEY record found.

**Email Services** (25%) 4 / 6

#	CHECK	RESULT	DETAIL
1	<b>MX Record Exists</b>	<b>PASS</b>	MX record found.
2	<b>MX Server Has IPv6</b>	<b>PASS</b>	MX server has AAAA record.
3	<b>SMTP Reachable via IPv6</b>	<b>FAIL</b>	SMTP is not reachable over IPv6.
4	<b>STARTTLS over IPv6</b>	<b>FAIL</b>	STARTTLS not available over IPv6.
5	<b>SPF Record</b>	<b>PASS</b>	SPF record found.
6	<b>DKIM Selector</b>	<b>INFO</b>	DKIM selector found: selector1._domainkey
7	<b>DMARC Record</b>	<b>PASS</b>	DMARC record found.

**IPv4 Baseline** (15%) 3 / 3

#	CHECK	RESULT	DETAIL
1	<b>A Record</b>	<b>PASS</b>	45.60.245.95, 45.60.243.95
2	<b>HTTP over IPv4</b>	<b>PASS</b>	HTTP (port 80) responds over IPv4 — 285ms TTFB.
3	<b>HTTPS over IPv4</b>	<b>PASS</b>	HTTPS (port 443) responds over IPv4 — 71ms TTFB.

## Audit Trail & Evidence Record

Verification ID	4149d93a-7242-439a-9d13-4609482a1058
Domain	unifi.com.my
Check Mode	Manual
Status	Completed
Started	07 Mar 2026, 01:14:34 MYT
Finished	07 Mar 2026, 01:14:57 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/4149d93a-7242-439a-9d13-4609482a1058

## Integrity Verification

✓ <b>INTEGRITY VERIFIED</b>	
Algorithm	hmac-sha256-v1
Root Hash	1aebeae9618184703a2e25c3c7ed1be59d99813c8148510aba6de87f16374a3b
http_headers	98f64682d6b3ed3b731062a15deba39039fd15560244bb24ad91f8e0eab3362a
dns_responses	178b6ac1d9b625fa68a300a5b29c1f97b043142a10cf499645522552f9fd16d8
tls_handshake	4185e2adcd1f16197eb8804fc97dabec8676414014024272c18af9907fcdc9e7
connectivity_log	f1ed9d95837008d2a44d29fc3b2b132f8387b77babcc857e41a1dcc4a2504d4
dns_resolution_times	6ba272df5950518bc49de5bf45031f630def5a9d23c571516cab1231a0913882

## Test Node Identity

Os	Linux srv1440888 6.8.0-101-generic #101-Ubuntu SMP PREEMPT_DYNAMIC Mon Feb 9 10:15:05 UTC 2026 x86_64
Hostname	srv1440888
Php Version	8.3.30
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	24.02	25.31	7.93	16.75	-16.1
Google	IPv4	16.16	17.94	10	15.27	-6.2
Google	IPv6	8.43	27.2	30.4	38.37	+22
Cloudflare	IPv4	17.92	27.62	8.02	18.04	-9.9
Cloudflare	IPv6	19.09	28.7	9.53	23.94	-9.6



## DNS Evidence

### A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 28141
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
unifi.com.my. 00600IN A 45.60.245.95
unifi.com.my. 00600IN A 45.60.243.95
```

### DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 60324
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
com.my. 00018000IN S 0A 0 b.nic.my. hostmaster.nic.my. 2026018482 1800 900 604800 3600
```

### MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 32591
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
unifi.com.my. 0011660IN MX 0 unifi-com-my.mail.protection.outlook.com.
```

### NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 63485
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
unifi.com.my. 00173260IN NS 0 ns1.a0.impervasecuredns.net.
unifi.com.my. 00173260IN NS 0 ns1.a1.impervasecuredns.net.
```

### TXT

```
;; Truncated, retrying in TCP mode.
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 51222
;; flags: qr rd ra; QUERY: 1, ANSWER: 14, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
unifi.com.my. 002050IN TXT "rovag_verification_token=5232FDE9B33E4CE78D704A025FCC1C2D" ""
unifi.com.my. 002050IN TXT "_globalsign-domain-verification=jsnFLZ-HKeNTz49xnnUqPx6pzZdYXaqU0Bwh6knyz"
unifi.com.my. 002050IN TXT "MS=ms94868603"
unifi.com.my. 002050IN TXT "globalsign-domain-verification=5c0b4348e5a06ad9de509a4995aacbdf"
unifi.com.my. 002050IN TXT "globalsign-domain-verification=3488e006a63eb8f1d872210918904689"
unifi.com.my. 002050IN TXT "google-site-verification=ldeBvjm6_QONLMKYhVolSr-lyYLCq_4hpyyQeWC8E5o"
unifi.com.my. 002050IN TXT "globalsign-domain-verification=8A80A2EB865B60E70D166D28DD070C3B"
unifi.com.my. 002050IN TXT "globalsign-domain-verification=LJwHmcQpCfihLNcKRyVTAk6X_Turk0y8oJgA64FRty"
unifi.com.my. 002050IN TXT "globalsign-domain-verification=3DD073E3E4DF543ACC51ED82131A337E"
unifi.com.my. 002050IN TXT "facebook-domain-verification=bzdeezw0lwrsg0dvkvb15ms9lytydm"
unifi.com.my. 002050IN TXT "globalsign-domain-verification=38C636965F971D76A6301E15AAD61B20"
unifi.com.my. 002050IN TXT "globalsign-domain-verification=D5EB695A771E307A43ED7F4DC4255CC9"
unifi.com.my. 002050IN TXT "google-site-verification=kv_lTUpf-F5gHTk00eX2-JwGBqZeAWpAf3_0eABcK_M"
unifi.com.my. 002050IN TXT "v=spf1 mx a ip4:58.27.27.2/32 ip4:58.26.47.33/32 ip4:58.26.47.41/32 ip4:58.26.47.39/32 ip4:58.27.10/32 ip4:58.27.27.8/32 ip4:49.236.195.140/32 ip4:202.188.145.10/32 ip4:202.188.145.11/32 ip4:202.188.145.12/32 ip4:58.27.122.10/32 ip4:58.27.122.11/32 ip4" " :58.27.122.12/32 include:aspmx.pardot.com include:spf.protection.outlook.com -all"
```

### AAAA

```
;; Got answer:
```

```
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 53050
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
unifi.com.my. 39 IN SOA ns1.a0.impervasecuredns.net. please_set_email.absolutely.nowhere. 871 10800 3600 2419200 900
```

## RRSIG

```
ns1.a0.impervasecuredns.net. please_set_email.absolutely.nowhere. 869 10800 3600 2419200 900
```

## DNSKEY

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 22076
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
unifi.com.my. 878 IN SOA ns1.a0.impervasecuredns.net. please_set_email.absolutely.nowhere. 871 10800 3600 2419200 900
```

## DNSSEC\_VALIDATION

```
; unsigned answer
unifi.com.my. 21600 IN SOA ns1.a0.impervasecuredns.net. please_set_email.absolutely.nowhere. 869 10800 3600 2419200 900
```





```
BggrBgEFBQCDAQYIKwYBBQUHAAwIwEgYDVDR0TAQH/BAGwBgEB/wIBADAdBgNVHQ4E
FgQUSE0eMHD23v1UHhI6HeD3Ycv7IMcWwYDVR0jBBgwFoAUj/BLf6guRSSuTVD6
Y5qL3uLdG7wwewYIKwYBBQUHAQEebzBtMC4GCCsGAQUFBzABhiJodHRwOi8vb2Nz
cdIuZ2xvYmFsY2lubi5jb20vc9vdHIzMDsGCCsGAQUFBzAChi9odHRwOi8vc2Vj
dXJlLmdsb2JhbHNpZ24uY29tL2NhY2VydC9yb290LXIzLmNydA2BgNVHR8ELZAt
MCugKAAnhiVodHRwOi8vY3J3sLmdsb2JhbHNpZ24uY29tL3Jvb3QtcjMuY3J3sMCEG
A1UdIAQAMBgwCAYGZ4EMAQIBMAwGCisGAQBoDIIKAQMwDQYJKoZIhvcNAQELBQAD
ggEBALJnnt6rIjXwL6+6W0XrYyUSF91baTVFiFLKG7I8YBEhiLBSYL4juDZcyWtB
Pvw1zHZHYWRC//ruG6diKB/hxeIf0U563a3dP0ct8GGakGL70/nKLeSoEWj nabNO
PeH4brw+ZgbRz7VBPXv+6y+P+1qqwUrvLmgawPRW4HYM065TXnKh7071N/SacDbZ
53J0YTNPy4JLQoK/gqGFmPiHOLblre/F4gbLRnsRmDY60w10Cv+6+a/ktWzmSioK
oeU4gGL5XuXhBJFv8kkJkgLNSotWuE/r/izVYXzcaI6e2hgwnA6AB2e2vCJmS1ow
ZqY63DngXSg4Vs9JR97+KjaDGu0=
-----END CERTIFICATE-----
---
Server certificate
subject=CN = imperva.com
issuer=C = BE, O = GlobalSign nv-sa, CN = GlobalSign Atlas R3 DV TLS CA 2025 Q4
---
No client certificate CA names sent
Peer signing digest: SHA256
Peer signature type: RSA-PSS
Server Temp Key: X25519, 253 bits
---
SSL handshake has read 3699 bytes and written 378 bytes
Verification: OK
---
```



## HTTP Response Evidence

### IPv4 HTTP (port 80)

HTTP Status	200
Connected IP	45.60.245.95
Connect Time	3.73 ms
TTFB	28.67 ms
Total Time	28.74 ms

#### Response Headers:

```
{
  "0": "HTTP/1.1 301 Moved Permanently",
  "1": "Location: https://unifi.com.my/",
  "2": "Content-Length: 0",
  "3": "Connection: close",
  "5": "HTTP/2 200",
  "6": "date: Fri, 06 Mar 2026 09:14:57 GMT",
  "7": "content-type: text/html; charset=UTF-8",
  "8": "content-length: 146766",
  "9": "cache-control: max-age=60, public",
  "10": "x-ua-compatible: IE=edge",
  "11": "content-language: en",
  "12": "x-content-type-options: nosniff",
  "13": "x-frame-options: SAMEORIGIN",
  "14": "expires: Sun, 19 Nov 1978 05:00:00 GMT",
  "15": "last-modified: Fri, 06 Mar 2026 09:08:51 GMT",
  "16": "x-grace: 30",
  "17": "x-ttl: 180",
  "18": "x-adv-varnish: Cache-enabled",
  "19": "content-security-policy: report-uri /report-csp-violation; upgrade-insecure-requests",
  "20": "x-drupal-cache: HIT",
  "21": "x-cacheable: YES",
  "22": "x-varnish: 25538350 29149628",
  "23": "age: 177",
  "24": "etag: W/\"1772788131-gzip\"",
  "25": "x-varnish-cache: HIT",
  "26": "x-cache-ttl-remaining: 2.996",
  "27": "x-cache-age: 177",
  "28": "x-cache-hits: 12",
  "29": "vary: X-Bin,Accept-Encoding, Cookie",
  "30": "accept-ranges: bytes",
  "31": "content-security-policy: frame-ancestors 'self' tsssb.unifi.com.my unifi.com.my selfcare.unifi.com.my shop.unifi.com.my;",
  "32": "set-cookie: visid_incap_2993746=lsGooTlsRaWx3vhtZENLpxCbqmkAAAAAQUIPAAAAAACycwmThwsf3zn8qtBt0wYs; expires=Fri, 05 Mar 2027 17:34:18 GMT; HttpOnly; path=/; Domain=.unifi.com.my",
  "33": "set-cookie: incap_ses_1130_2993746=0FGAIFHlbBQZaYc/hZGuDxCbqmkAAAAA+/WADt98RRrk+26qCRcUdw==; path=/; Domain=.unifi.com.my",
  "34": "x-cdn: Imperva",
  "35": "x-iinfo: 13-88863479-88863210 PNNy RT(1772788496991 9) q(0 0 0 -1) r(0 0) U6"
}
```

### IPv4 HTTPS (port 443)

HTTP Status	200
Connected IP	45.60.245.95
Connect Time	2.35 ms
TTFB	20.66 ms
Total Time	20.68 ms

#### Response Headers:

```
[
  "HTTP/2 200",
  "date: Fri, 06 Mar 2026 09:14:57 GMT",
  "content-type: text/html; charset=UTF-8",
  "content-length: 146766",
  "cache-control: max-age=60, public",
  "x-ua-compatible: IE=edge",
  "content-language: en",
  "x-content-type-options: nosniff",
  "x-frame-options: SAMEORIGIN",
  "expires: Sun, 19 Nov 1978 05:00:00 GMT",
  "last-modified: Fri, 06 Mar 2026 09:08:51 GMT",
  "x-grace: 30",

```

```
"x-ttl: 180",
"x-adv-varnish: Cache-enabled",
"content-security-policy: report-uri /report-csp-violation; upgrade-insecure-requests",
"x-drupal-cache: HIT",
"x-cacheable: YES",
"x-varnish: 27927071 27926901",
"age: 65",
"etag: W/"1772788131-gzip\"",
"x-varnish-cache: HIT",
"x-cache-ttl-remaining: 114.181",
"x-cache-age: 65",
"x-cache-hits: 5",
"vary: X-Bin,Accept-Encoding, Cookie",
"accept-ranges: bytes",
"content-security-policy: frame-ancestors 'self' tsssb.unifi.com.my unifi.com.my selfcare.unifi.com.my shop.unifi.com.my;",
"set-cookie: visid_incap_2993746=eSfXoKcCQuWvsmkY5ALRlxCbqmkAAAAAQUIPAAAAACKHNB2EoCedM9z8nTixJtG; expires=Fri, 05 Mar 2027 17:34:18 GMT; HttpOnly; path=/; Domain=.unifi.com.my",
"set-cookie: incap_ses_1130_2993746=mf2BUH46GUcqAyC/hZGuDxCbqmkAAAAA0Bx5k2e6MXydScWNfxi9wW==; path=/; Domain=.unifi.com.my",
"x-cdn: Imperva",
"x-iinfo: 3-35961246-35961171 PNNy RT(1772788497067 6) q(0 0 0 -1) r(0 0) U6"
]
```

**Connectivity Test Evidence**

Test	Result
TCP Connect IPv4 → port 80	301 0.003299 0.008136
TCP Connect IPv4 → port 443	200 0.002673 0.044794

**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
76.13.221.0/24 dev eth0 proto kernel scope link src 76.13.221.142
```