

IPv6 Readiness Report

admission.utm.my — admission.utm.my



Scan to verify

Category: Education • Generated: 13 Jun 2026, 19:07 MYT • Last Checked: 13 Jun 2026, 01:00 MYT • Verification ID: 791619d1-dc91-456a-90ca-7262c5904b68

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

Audit trail: <https://ipv6.my6.my/audit/791619d1-dc91-456a-90ca-7262c5904b68>

<p>X</p> <p>Non-Compliant</p> <p>MGv6C-1.0</p>	<p>15%</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>161.139.22.87</p>

Network Information (WHOIS / RDAP)

IPv4 Network	
Organization	Universiti Teknologi Malaysia
Country	MY
ASN	AS133014
ASN Name	UTM-AS-AP - Universiti Teknologi Malaysia, MY
Network (CIDR)	161.139.0.0/16

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%) 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	PASS	DS record found at parent zone.
7	RRSIG Valid	FAIL	No valid RRSIG found.

#	CHECK	RESULT	DETAIL
8	Signing Algorithm	INFO	No DNSKEY record found.

Email Services (25%) 0 / 6

#	CHECK	RESULT	DETAIL
1	MX Record Exists	FAIL	No MX record found in DNS.
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	FAIL	No SPF record found.
6	DKIM Selector	INFO	No common DKIM selector found.
7	DMARC Record	FAIL	No DMARC record found.

IPv4 Baseline (15%) 3 / 3

#	CHECK	RESULT	DETAIL
1	A Record	PASS	161.139.22.87
2	HTTP over IPv4	PASS	HTTP (port 80) responds over IPv4 — 1070ms TTFB.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 4539ms TTFB.

Audit Trail & Evidence Record

Verification ID	791619d1-dc91-456a-90ca-7262c5904b68
Domain	admission.utm.my
Check Mode	Scheduled
Status	Completed
Started	13 Jun 2026, 01:00:11 MYT
Finished	13 Jun 2026, 01:00:33 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/791619d1-dc91-456a-90ca-7262c5904b68

Integrity Verification

<p>✓ INTEGRITY VERIFIED</p>	
Algorithm	hmac-sha256-v1
Root Hash	d475c30d23e59dc18b9db0b728a5a6cf8dc2e25c00fb0801762cf7bdcd9f0a6
http_headers	1fb239365dde7a438aaaf047ca254122cd3f028ca3c2f0038ba7a332a1c12fa7
dns_responses	1c0b0847307ac28faf6c73755ddf0f7ef3346bc8efd2b6b8cf07ddfc4a185f82
tls_handshake	69c8ec852ab1996ca692889671991a8a612b7e5f5896fec93f56080487753247
connectivity_log	28dd9e1ccdf4ed3afddcde47552e51409335c32071e1133c4d7ec488f2f0a1e1
dns_resolution_times	6bf65e4ffb84130dcf49a606ade2d5eca6bf3ba911d11c707bd50295c4346b91

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	8.3.31
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	22.05	22.84	8.55	18.79	-13.5
Google	IPv4	17.56	36.7	49.66	55.27	+32.1
Google	IPv6	31.45	32.08	48.36	48.48	+16.9
Cloudflare	IPv4	14.64	22.54	8.78	20.5	-5.9
Cloudflare	IPv6	37.4	45.28	24.96	211.99	-12.4

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 54584
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
admission.utm.my. 3591 IN CNAME www3.utm.my.
www3.utm.my. 3591 IN A 161.139.22.87
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 53705
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
admission.utm.my. 3591 IN CNAME www3.utm.my.

;; AUTHORITY SECTION:
utm.my. 3592 IN SOA ns3.utm.my. root.utm.my. 2020107541 1200 600 1209600 3600
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 22370
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
admission.utm.my. 3591 IN CNAME www3.utm.my.

;; AUTHORITY SECTION:
utm.my. 3592 IN SOA ns3.utm.my. root.utm.my. 2020107541 1200 600 1209600 3600
```

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 55557
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
admission.utm.my. 3591 IN CNAME www3.utm.my.

;; AUTHORITY SECTION:
utm.my. 3592 IN SOA ns3.utm.my. root.utm.my. 2020107541 1200 600 1209600 3600
```

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 36251
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
admission.utm.my. 3591 IN CNAME www3.utm.my.

;; AUTHORITY SECTION:
utm.my. 3592 IN SOA ns3.utm.my. root.utm.my. 2020107541 1200 600 1209600 3600
```

AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 60730
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
```

```
;; ANSWER SECTION:
admission.utm.my. 3591 IN CNAME www3.utm.my.

;; AUTHORITY SECTION:
utm.my. 3592 IN SOA ns3.utm.my. root.utm.my. 2020107541 1200 600 1209600 3600
```

RRSIG

```
www3.utm.my.
```

DNSKEY

```
;; Got answer:
;; ->HEADER<- opcode: QUERY, status: NOERROR, id: 26161
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
admission.utm.my. 3591 IN CNAME www3.utm.my.

;; AUTHORITY SECTION:
utm.my. 3592 IN SOA ns3.utm.my. root.utm.my. 2020107541 1200 600 1209600 3600
```

DNSSEC_VALIDATION

```
;; resolution failed: ncache nxrrset
; unsigned answer
admission.utm.my. 3591 IN CNAME www3.utm.my.
; www3.utm.my. 3592 IN \-SOA; -$NXRRSET
; utm.my. SOA ns3.utm.my. root.utm.my. 2020107541 1200 600 1209600 3600
```



```

c6wj0y0AvzVVdALJ2ELYGn+SNUZRkg7zJn0cTRe8yexDJtC/QV9AqURE9JnnV4ee
UB9XVKg+/XRjL7FQZQnmWEIuQxpMtPALR1n6BB6T1CZGS1CBst6+eLf8ZxXhyVeE
Hg9j1uLiutZfV57qXMYoCAQ10bgOK6nyTJccBz8NUvXt7y+CDwIDAQAB0IwQDAd
BgNVHQ4EFgOUU3m/WqorSs9UgOHYm8Cd8rIDZsSwDgYDVR0PAQH/BAQDAgEGMA8G
A1UdEwEB/wQFMAMBAf8wDQYJKoZIhvcNAQEMBOADggIBAFzUfA3P9wF9QZ1LDHPF
Up/L+M+ZBn8b2kMVn54CVVeWFFSPCeHLcjthzoBN6J2/FNQwISbxmt0uowhT6K0
VMKR82kV2LyI485qC/3vq0LLVSoGIG1VeCkZ7l8wXEsKvX/JJpuXior7gtNn3/3
ATiUfJVDBwn7YKnuHksSjKCaXqeYalltiz8I+8jRRa8YFWSQEG9zKC7F4iR0/Fjs
8PRF/iKz6y+00tLFYQXB12+odnKPi4w2r78NBc5xjeambx9spnFixdjQg3IM8WcR
iQycE0xyMN+81XHfqHd4bLsjDwSXWxavVcStkNr/+XeTWYRUc+ZruxTuhxkYze
Sf7dNXGiFSuHM9h4ya7b6NnJSF5t0dCy5oGzuCr+yDZ4XUMFF0sbmZgIn/f3gZ
XHLKYC65QK5MMyosycdiyA5d9zZbyuALJQG03RoHhHcAP9Dc1ew91Pq7P8yF1m9/
qS3fuQL39ZeatTXaw2ewh0qpKJ4jjv9cJ2vhsE/zB+4ALtRZ8t5QZq9eFX7mRB
VXyNWQK3VKdwrnuWih0hKwb5DHDAff9Yk2dDLWKMgWsvAvgnEzDHNb842m1R0aB
L6KcQ9NjRHDEjf8tM7qtj3u1cIiuPhnPQCjY/MiQu12ZiV55ljFH4gxQ+6IHdFG
jjxDah2nGN59PRbxYvnKkKj9
-----END CERTIFICATE-----
2 s:C = GB, O = Sectigo Limited, CN = Sectigo Public Server Authentication Root R46
i:C = US, ST = New Jersey, L = Jersey City, O = The USERTRUST Network, CN = USERTrust RSA Certification Authority
a:PKKEY: rsaEncryption, 4096 (bit); sigalg: RSA-SHA384
v:NotBefore: Mar 22 00:00:00 2021 GMT; NotAfter: Jan 18 23:59:59 2038 GMT
-----BEGIN CERTIFICATE-----
MIIGLTCCBH2gAwIBAgIRANJ/u8HeNZ55Fq1hSVhgmcQwDQYJKoZIhvcNAQEMBOAw
gYgxCzAJBgNVBAYTALVTMRMwEQYDVQVQIEwp0ZXcgSmVyc2V5MRQwEgYDVQQHEWtK
ZXJzZXkgQ2l0eTEeMBwGA1UEChMvVGVhIFVTRVJUUVlVTVCB0ZXR3b3JrMS4wLWYw
VQ0DEyVWU0VSVHJ1c3Q0U1NBIElnLnRpbzljYXRpb24gQXV0aG9yaXR5X5MB4XDITX
MDMyMjYwMDAwMFoXDTh4MDExODIzNTk1OVowXzELMAKGA1UEBHMCR0IxGDABBgNV

```

HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	200
Connected IP	161.139.22.87
Connect Time	418 ms
TTFB	2927.17 ms
Total Time	2927.3 ms

Response Headers:

```
{
  "0": "HTTP/1.1 301 Moved Permanently",
  "1": "Server: nginx",
  "2": "Date: Fri, 12 Jun 2026 17:00:25 GMT",
  "3": "Content-Type: text/html",
  "4": "Content-Length: 162",
  "5": "Connection: keep-alive",
  "6": "Location: https://admission.utm.my/",
  "7": "Strict-Transport-Security: max-age=31536000; includeSubDomains; preload",
  "8": "X-Frame-Options: SAMEORIGIN",
  "9": "X-Content-Type-Options: nosniff",
  "10": "X-XSS-Protection: 1; mode=block",
  "11": "Referrer-Policy: strict-origin-when-cross-origin",
  "13": "HTTP/2 200",
  "14": "server: nginx",
  "15": "date: Fri, 12 Jun 2026 17:00:27 GMT",
  "16": "content-type: text/html; charset=UTF-8",
  "17": "x-powered-by: PHP/8.3.31",
  "18": "link: <https://admission.utm.my/wp-json/>; rel=\"https://api.w.org/\"",
  "19": "link: <https://admission.utm.my/wp-json/wp/v2/pages/39987>; rel=\"alternate\"; title=\"JSON\"; type=\"application/json\"",
  "20": "link: <https://admission.utm.my/>; rel=shortlink",
  "21": "alt-svc: h3=\":443\"; ma=86400",
  "22": "x-cache-status: HIT",
  "23": "x-powered-by: PleskLin"
}
```

IPv4 HTTPS (port 443)

HTTP Status	200
Connected IP	161.139.22.87
Connect Time	1210.23 ms
TTFB	2075.7 ms
Total Time	2075.74 ms

Response Headers:

```
[
  "HTTP/2 200",
  "server: nginx",
  "date: Fri, 12 Jun 2026 17:00:29 GMT",
  "content-type: text/html; charset=UTF-8",
  "x-powered-by: PHP/8.3.31",
  "link: <https://admission.utm.my/wp-json/>; rel=\"https://api.w.org/\"",
  "link: <https://admission.utm.my/wp-json/wp/v2/pages/39987>; rel=\"alternate\"; title=\"JSON\"; type=\"application/json\"",
  "link: <https://admission.utm.my/>; rel=shortlink",
  "alt-svc: h3=\":443\"; ma=86400",
  "x-cache-status: HIT",
  "x-powered-by: PleskLin"
]
```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	301 1.245464 1.467299
TCP Connect IPv4 → port 443	200 0.224744 1.646524

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
```