


IPv6 Readiness Report

admission.umpsa.edu.my — admission.umpsa.edu.my

Category: Education • Generated: 20 Apr 2026, 21:27 MYT • Last Checked: 07 Mar 2026, 01:13 MYT • Verification ID: 0523fa69-9bbe-4841-8f52-98c211da2d8e

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

Audit trail: <https://ipv6.my6.my/audit/0523fa69-9bbe-4841-8f52-98c211da2d8e>

 Non-Compliant <small>MGv6C-1.0</small>	20% No IPv6 Support	IPv6-ONLY READINESS Website: X Not Ready DNS: X Not Ready Email: X Not Ready
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IPv4 ADDRESSES 103.53.35.72

Network Information (WHOIS / RDAP)

IPv4 Network	
Organization	University Malaysia Pahang
Country	MY
ASN	AS134107
ASN Name	UMP-AS-AP University Malaysia Pahang, MY
Network (CIDR)	103.53.32.0/22

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%) 1 / 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	PASS	DNSSEC fully validated.
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.
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	103.53.35.72
2	HTTP over IPv4	PASS	HTTP (port 80) responds over IPv4 — 877ms TTFB.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 748ms TTFB.

Audit Trail & Evidence Record

Verification ID	0523fa69-9bbe-4841-8f52-98c211da2d8e
Domain	admission.umpsa.edu.my
Check Mode	Manual
Status	Completed
Started	07 Mar 2026, 01:13:11 MYT
Finished	07 Mar 2026, 01:13:23 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/0523fa69-9bbe-4841-8f52-98c211da2d8e

Integrity Verification

✓ INTEGRITY VERIFIED	
Algorithm	hmac-sha256-v1
Root Hash	5c49086db02205117d69564fbbb255784f060f1a327a63e9043c84bfc9b7c9a
http_headers	e9ea5e23b7d0a5eefe4d68fb6e68b5f10b4dff3743a2f61147e971279e11f1df
dns_responses	6ad5b7e1880d480b820a0cd2a05b1ea8b16db14deb300ab9629b131c582ed397
tls_handshake	3f41304d34cdd7129488a5e8cb813a2460581b1868a154ce943390453438da74
connectivity_log	cae88b431319aeb24d7665f2dfb0902fc287499047f57d6abce2853c6c70d422
dns_resolution_times	74dec9e5d434d92ef9394a3b81520908b1e6780bd61701d4d037ce43fc823a40

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	6.83	16.81	9.59	19.59	+2.8
Google	IPv4	19.12	28.88	29.98	32.92	+10.9
Google	IPv6	31	31.12	13.93	33.14	-17.1
Cloudflare	IPv4	17.92	18.05	10.94	18.01	-7
Cloudflare	IPv6	22.06	31.09	19.97	25.05	-2.1

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 11389
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
admission.umpsa.edu.my. 3600 IN CNAME portal03.umpsa.edu.my.
portal03.umpsa.edu.my. 1967 IN A 103.35.72
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: SERVFAIL, id: 52800
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
; EDE: 12 (NSEC Missing): (Invalid denial of existence of portal03.umpsa.edu.my/ds)
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 65478
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
admission.umpsa.edu.my. 3600 IN CNAME portal03.umpsa.edu.my.

;; AUTHORITY SECTION:
umpsa.edu.my. 299 IN SOA ns1-07.azure-dns.com. azuredns-hostmaster.microsoft.com. 2026022501 3600 300 2419200 300
```

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 61267
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
admission.umpsa.edu.my. 3600 IN CNAME portal03.umpsa.edu.my.

;; AUTHORITY SECTION:
umpsa.edu.my. 101 IN SOA ns1-07.azure-dns.com. azuredns-hostmaster.microsoft.com. 2026022501 3600 300 2419200 300
```

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 30185
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
admission.umpsa.edu.my. 3600 IN CNAME portal03.umpsa.edu.my.

;; AUTHORITY SECTION:
umpsa.edu.my. 298 IN SOA ns1-07.azure-dns.com. azuredns-hostmaster.microsoft.com. 2026022501 3600 300 2419200 300
```

AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 53215
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
admission.umpsa.edu.my. 3600 IN CNAME portal03.umpsa.edu.my.

;; AUTHORITY SECTION:
```

```
umpsa.edu.my. 3600 IN SOA ns1-07.azure-dns.com. azuredns-hostmaster.microsoft.com. 2026022501 3600 300 2419200 300
```

RRSIG

```
portal03.umpsa.edu.my.  

CNAME 13 4 3600 20260307101250 20260305081250 7186 umpsa.edu.my. 05qToJpHYlwFyVsmYtbz1302feoCDd2wNMH9LuLn0kvFitE39F6c7BhS 7bhcMDaZ45mUQQLMVG1mtJoWzdzQfQ==
```

DNSKEY

```
;; Got answer:  

;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 62109  

;; flags: qr rd ra ad; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 1  
  

;; OPT PSEUDOSECTION:  

; EDNS: version: 0, flags:; udp: 512  

;; ANSWER SECTION:  

admission.umpsa.edu.my. 3600 IN CNAME portal03.umpsa.edu.my.  
  

;; AUTHORITY SECTION:  

umpsa.edu.my. 297 IN SOA ns1-07.azure-dns.com. azuredns-hostmaster.microsoft.com. 2026022501 3600 300 2419200 300
```

DNSSEC_VALIDATION

```
;; resolution failed: ncache nxrrset  

; fully validated  

admission.umpsa.edu.my. 3600 IN CNAME portal03.umpsa.edu.my.  

admission.umpsa.edu.my. 3600 IN RRSIG CNAME 13 4 3600 20260307101259 20260305081259 7186 umpsa.edu.my. 37b9bbcFwfm8Yovu5vIplLL01EVg28sr0EbQE7d7diqntoiARwslvY4  

UKPWxk3M6kKm5pcIf4S5m1ztWFMiJA==  

; portal03.umpsa.edu.my. 210 IN \-SOA; -NXRRSET  

; umpsa.edu.my. SOA ns1-07.azure-dns.com. azuredns-hostmaster.microsoft.com. 2026022501 3600 300 2419200 300  

; umpsa.edu.my. RRSIG SOA ...  

; portal03.umpsa.edu.my. RRSIG NSEC ...  

; portal03.umpsa.edu.my. NSEC \000.portal03.umpsa.edu.my. A RRSIG NSEC
```



```
CCsGAQUFBzABhhodHRwOi8vb2NzcC5kaWdpY2VydC5jb20wQAYIKwYBBQUHMAKG
NGh0dHA6Ly9jYWNlcnRzLmRwZ21jZj0LmNvbS9EaWdpQ2VydEdsb2JhbFJvb3RH
Mi5jcnQwQgYDVR0fBDswOTA3oDwgM4YxaHR0cDovL2NybmMuZGlnaWNLcnQy29t
L0RpZ2LDZlZ0R2xvYmFsUm9vdEcyLmNyYDA9BGNVHSAENjA0MAsgCWCGSAGG/WwC
ATAHBGvngQwBATAIBgZngQwBAGewCAYGZ4EMAQICMAgBmeBDAECAzANBgkqhkiG
9w0BAQsFAA0CAQEAKPfwyYiXaZd8dP3A+iZ7U6utzWX9upwGnIrXWk0H7U1MVL+t
wcW1BSAuWdH/SvWgKtiwLa3JLko716f2b4gp/DA/JIS7w7d7kwcsr4drdjPtAFVS
slme5LnQ89/nD/7d+MS5EHKBCQRfz5eelJJIjs+aWNJXMX43AYGyZm0pGrFmCW3R
bpd0ufovARTFXFzkAdl9h6g4U5+LXUZtXMYnhIHUfoym05tS58aI7Dd8KvwwVVo4
chDYABPPTHPbjc1qCmBaZx2vN4Ye5DUys/vZwP9BFohFrH/6j/f3IL16/RZkiMN
JCqVJUzKoZhm1Lesh3S28W2jmdv51b2EQJ8HmA==
-----END CERTIFICATE-----
---
Server certificate
subject=C = MY, ST = Pahang, L = Kuantan, O = Universiti Malaysia Pahang Al Sultan Abdullah, CN = *.umps.edu.my
issuer=C = US, O = DigiCert Inc, CN = DigiCert Global G2 TLS RSA SHA256 2020 CA1
---
No client certificate CA names sent
Peer signing digest: SHA512
Peer signature type: RSA
Server Temp Key: ECDH, prime256v1, 256 bits
---
SSL handshake has read 3722 bytes and written 450 bytes
Verification: OK
---
New, TLSv1.2, Cipher is ECDHE-RSA-AES256-GCM-SHA384
Server public key is 2048 bit
```

HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	200
Connected IP	103.53.35.72
Connect Time	18.37 ms
TTFB	765.87 ms
Total Time	765.95 ms

Response Headers:

```
{
  "0": "HTTP/1.1 302 Found",
  "1": "Date: Fri, 06 Mar 2026 09:13:19 GMT",
  "2": "Server: Apache",
  "3": "Location: https://admission.umpsa.edu.my/",
  "4": "Content-Type: text/html; charset=iso-8859-1",
  "6": "HTTP/1.1 200 OK",
  "7": "Date: Fri, 06 Mar 2026 09:13:20 GMT",
  "8": "Server: Apache",
  "9": "X-Content-Type-Options: nosniff",
  "10": "X-Powered-By: PHP/7.4.33",
  "11": "Set-Cookie: 931274b7a8995548080e7e00cb01aa44=qas0ea1af2bvcnrkt7qjphp45o; path=/; HttpOnly",
  "12": "Expires: Wed, 17 Aug 2005 00:00:00 GMT",
  "13": "Last-Modified: Fri, 06 Mar 2026 09:13:20 GMT",
  "14": "Cache-Control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0",
  "15": "Pragma: no-cache",
  "16": "X-FRAME-OPTIONS: SAMEORIGIN",
  "17": "X-XSS-Protection: 1; mode=block",
  "18": "Content-Type: text/html; charset=utf-8"
}
```

IPv4 HTTPS (port 443)

HTTP Status	200
Connected IP	103.53.35.72
Connect Time	9.44 ms
TTFB	737.43 ms
Total Time	737.46 ms

Response Headers:

```
[
  "HTTP/1.1 200 OK",
  "Date: Fri, 06 Mar 2026 09:13:21 GMT",
  "Server: Apache",
  "X-Content-Type-Options: nosniff",
  "X-Powered-By: PHP/7.4.33",
  "Set-Cookie: 931274b7a8995548080e7e00cb01aa44=5464c7ovhtghuond4mf4bm520m; path=/; HttpOnly",
  "Expires: Wed, 17 Aug 2005 00:00:00 GMT",
  "Last-Modified: Fri, 06 Mar 2026 09:13:22 GMT",
  "Cache-Control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0",
  "Pragma: no-cache",
  "X-FRAME-OPTIONS: SAMEORIGIN",
  "X-XSS-Protection: 1; mode=block",
  "Content-Type: text/html; charset=utf-8"
]
```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	403 0.008799 0.019739
TCP Connect IPv4 → port 443	200 0.009800 0.765585

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
```