

IPv6 Readiness Report

kemasukan.upsi.edu.my — kemasukan.upsi.edu.my



Scan to verify

Category: Education • Generated: 04 Jul 2026, 22:41 MYT • Last Checked: 04 Jul 2026, 03:16 MYT • Verification ID: c36b3427-7814-4b7f-93ca-6d7b4a966212

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

Audit trail: <https://ipv6.my6.my/audit/c36b3427-7814-4b7f-93ca-6d7b4a966212>

<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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IPv4 ADDRESSES
202.45.132.99

Network Information (WHOIS / RDAP)

IPv4 Network	
Organization	UPSI
Country	MY
ASN	AS24314
ASN Name	UPSI-AS-AP - University Pendidikan Sultan Idris, MY
Network (CIDR)	202.45.132.0/22

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	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%) 2 / 3

#	CHECK	RESULT	DETAIL
1	A Record	PASS	202.45.132.99
2	HTTP over IPv4	FAIL	HTTP is not accessible over IPv4.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 680ms TTFB.

Audit Trail & Evidence Record

Verification ID	c36b3427-7814-4b7f-93ca-6d7b4a966212
Domain	kemasukan.upsi.edu.my
Check Mode	Scheduled
Status	Completed
Started	04 Jul 2026, 03:15:49 MYT
Finished	04 Jul 2026, 03:16:17 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/c36b3427-7814-4b7f-93ca-6d7b4a966212

Integrity Verification

✓ INTEGRITY VERIFIED	
Algorithm	hmac-sha256-v1
Root Hash	50e4ce1921666271c44d7eeebec4d7e7c979ed83da5d8de510be9633ef584b05
http_headers	19e348c71885a7d068625c866e1f96ac81333e967707cbe776d3ed39a25cfad4
dns_responses	33ec38afc015804fddcc2c3a0fe1ef6769a11e3d26c5227627bddde6017509c
tls_handshake	5e6d9829c772d3656ca203ff5dcc6e96b369124ee78cc23d474ee497ad353ed8
connectivity_log	ac084f19fd895fc0ed1121fc68cbbcc5530528415601656f922ef42f176b58c
dns_resolution_times	5dd542fae72e8fc75753aa25643012047e7d9b6b74691a03a6555633036dae8a

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	36.82	47.9	48.94	68.07	+12.1
Google	IPv4	58.23	69.51	76.77	78.77	+18.5
Google	IPv6	63.06	64.14	115.34	116.52	+52.3
Cloudflare	IPv4	52.71	74.95	67.31	73.36	+14.6
Cloudflare	IPv6	44.57	111.08	74.82	81.33	+30.3

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 27546
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
kemasukan.upsi.edu.my. 43190 IN CNAME cpweb.upsi.edu.my.
cpweb.upsi.edu.my. 43190 IN A 202.45.132.99
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 11332
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
kemasukan.upsi.edu.my. 43190 IN CNAME cpweb.upsi.edu.my.

;; AUTHORITY SECTION:
upsi.edu.my. 3590 IN SOA zaaba.upsi.edu.my. zaimi.upsi.edu.my. 2025047278 3600 3600 1209600 7200
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 7036
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
kemasukan.upsi.edu.my. 43190 IN CNAME cpweb.upsi.edu.my.

;; AUTHORITY SECTION:
upsi.edu.my. 3590 IN SOA zaaba.upsi.edu.my. zaimi.upsi.edu.my. 2025047278 3600 3600 1209600 7200
```

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 40685
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
kemasukan.upsi.edu.my. 43190 IN CNAME cpweb.upsi.edu.my.

;; AUTHORITY SECTION:
upsi.edu.my. 3590 IN SOA zaaba.upsi.edu.my. zaimi.upsi.edu.my. 2025047278 3600 3600 1209600 7200
```

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 23384
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
kemasukan.upsi.edu.my. 43190 IN CNAME cpweb.upsi.edu.my.

;; AUTHORITY SECTION:
upsi.edu.my. 3590 IN SOA zaaba.upsi.edu.my. zaimi.upsi.edu.my. 2025047278 3600 3600 1209600 7200
```

AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 15855
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 1

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

```
;; ANSWER SECTION:
kemasukan.upsi.edu.my. 43190 IN CNAME cpweb.upsi.edu.my.

;; AUTHORITY SECTION:
upsi.edu.my. 3590 IN SOA zaaba.upsi.edu.my. zaimi.upsi.edu.my. 2025047278 3600 3600 1209600 7200
```

RRSIG

```
cpweb.upsi.edu.my.
CNAME 13 4 43200 20260717064051 20260703062854 10293 upsi.edu.my. bhS919A8BosXX6wyQIh7/PG46oYc4IHs+up7pLRSJo9GGpmA+LUS9f2X nZ6ohctskPBA3UTgkf1qTzjeWHjh+w==
```

DNSKEY

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 17377
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:;, udp: 1232
;; ANSWER SECTION:
kemasukan.upsi.edu.my. 43190 IN CNAME cpweb.upsi.edu.my.

;; AUTHORITY SECTION:
upsi.edu.my. 3590 IN SOA zaaba.upsi.edu.my. zaimi.upsi.edu.my. 2025047278 3600 3600 1209600 7200
```

DNSSEC_VALIDATION

```
;; resolution failed: ncache nxrrset
; fully validated
kemasukan.upsi.edu.my. 43190 IN CNAME cpweb.upsi.edu.my.
kemasukan.upsi.edu.my. 43190 IN RRSIG CNAME 13 4 43200 20260717064051 20260703062854 10293 upsi.edu.my. bhS919A8BosXX6wyQIh7/PG46oYc4IHs+up7pLRSJo9GGpmA+LUS9f2X
nZ6ohctskPBA3UTgkf1qTzjeWHjh+w==
; cpweb.upsi.edu.my. 3590 IN SOA -SOA; - $NXRRSET
; upsi.edu.my. SOA zaaba.upsi.edu.my. zaimi.upsi.edu.my. 2025047278 3600 3600 1209600 7200
; upsi.edu.my. RRSIG SOA ...
; cpweb.upsi.edu.my. RRSIG NSEC ...
; cpweb.upsi.edu.my. NSEC csc2024.upsi.edu.my. A RRSIG NSEC
```



```

CCsGAQUFBzABhhodHRwOi8vb2NzcC5kaWdpY2Vydc5jb20wQAYIKwYBBQUHMAKG
NGh0dHA6Ly9jYWNlcnRzLmRpZ2ljZXJ0LmNvbS9EaWdpQ2VydEdsb2JhbFJvb3Rl
Mi5jcnQwQgYDVR0fBDswOTA3oDWgM4YxaHR0cDovL2NybmMuZGlnaWNLcnQy29t
L0RpZ2LDZlZ0R2xvYmFsUm9vdEcyLmNyYDA9BgNVHSAENjA0MAcGCWCGSAGG/WwC
ATAHBgVngQwBATAIBgZngQwBAGewCAYGZ4EMAQICMAgBmeBDAECAzANBgkqhkiG
9w0BAQsFAA0CAQEAKPFwyyiXaZd8dP3A+iZ7U6utzWX9upwGnIrXWk0H7U1MVL+t
wcW1BSAuWdH/SvWgKtiwLa3JLko716f2b4gp/DA/JIS7w7d7kwcsr4drdjPtAFVS
sLme5LnQ89/nD/7d+MS5EHKBCQRfz5eelJJIjs+aWNJXMX43AYGyZm0pGrFmCW3R
bpd0ufovARTFFZkAdl9h6g4U5+LXUZtXMYnhIHUfoymo5tS58aI7Dd8KvwwVVo4
chDYABPPTHPbjc1qCmBaZx2vN4Ye5DUys/vZwP9BFohFrH/6j/f3IL16/RZkiMN
JCqVJUzKoZhm1Lesh3S28W2jmdv51b2EQJ8HmA==
-----END CERTIFICATE-----
---
Server certificate
subject=C = MY, ST = Perak, L = Tanjong Malim, O = Universiti Pendidikan Sultan Idris, CN = *.upsi.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: SHA256
Peer signature type: RSA-PSS
Server Temp Key: X25519, 253 bits
---
SSL handshake has read 3571 bytes and written 403 bytes
Verification: OK
---
New, TLSv1.3, Cipher is TLS_AES_256_GCM_SHA384
Server public key is 2048 bit

```

HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	0
Connected IP	
Connect Time	0 ms
TTFB	0 ms
Total Time	8001.49 ms
Error	Failed to connect to kemasukan.upsi.edu.my port 80 after 8001 ms: Timeout was reached

IPv4 HTTPS (port 443)

HTTP Status	200
Connected IP	202.45.132.99
Connect Time	16.34 ms
TTFB	703.38 ms
Total Time	703.45 ms

Response Headers:

```
[
  "HTTP/2 200",
  "server: openresty",
  "date: Fri, 03 Jul 2026 19:16:11 GMT",
  "content-type: text/html; charset=UTF-8",
  "vary: Accept-Encoding",
  "vary: Accept-Encoding",
  "link: <https://kemasukan.upsi.edu.my/index.php?rest_route=/>; rel=\"https://api.w.org/\"",
  "link: <https://kemasukan.upsi.edu.my/index.php?rest_route=/wp/v2/pages/2>; rel=\"alternate\"; title=\"JSON\"; type=\"application/json\"",
  "link: <https://kemasukan.upsi.edu.my/>; rel=shortlink",
  "strict-transport-security: max-age=31536000",
  "strict-transport-security: max-age=31536000",
  "strict-transport-security: max-age=63072000; preload",
  "x-served-by: kemasukan.upsi.edu.my"
]
```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	000 0.000000 0.000000
TCP Connect IPv4 → port 443	200 0.015709 0.961122

Test Node Network Evidence

Node Profile	dual stack
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Egress Connectivity

IPv4 Egress	unreachable
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
```