


IPv6 Readiness Report

u.com.my — u.com.my

Category: Telco • Generated: 21 Apr 2026, 18:54 MYT • Last Checked: 07 Mar 2026, 01:13 MYT • Verification ID: 07204e11-08f5-4ff9-9bfa-4403b80a725b

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

Audit trail: <https://ipv6.my6.my/audit/07204e11-08f5-4ff9-9bfa-4403b80a725b>

 Non-Compliant MGv6C-1.0	52% Partial Support	IPV6-ONLY READINESS Website: ✗ Not Ready DNS: ✓ Ready Email: ✗ Not Ready
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IPV4 ADDRESSES 20.247.199.20
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Network Information (WHOIS / RDAP)

IPv4 Network	
Organization	Microsoft Corporation
Country	US
ASN	AS8075
ASN Name	MICROSOFT-CORP-MSN-AS-BLOCK - Microsoft Corporation, US
Network (CIDR)	20.192.0.0/10

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%) 4 / 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	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	PASS	RRSIG signatures are current and valid.
8	Signing Algorithm	INFO	ECDsap256SHA256

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	20.247.199.20
2	HTTP over IPv4	PASS	HTTP (port 80) responds over IPv4 — 146ms TTFB.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 99ms TTFB.

Audit Trail & Evidence Record

Verification ID	07204e11-08f5-4ff9-9bfa-4403b80a725b
Domain	u.com.my
Check Mode	Manual
Status	Completed
Started	07 Mar 2026, 01:13:34 MYT
Finished	07 Mar 2026, 01:13:58 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/07204e11-08f5-4ff9-9bfa-4403b80a725b

Integrity Verification

✓ INTEGRITY VERIFIED	
Algorithm	hmac-sha256-v1
Root Hash	43cebfa8ca8455685b618c01259ad7642c861b0fc986cc454e0f691c670e6dc
http_headers	eb1a262b7401e9dcefd725adaea4829f1d2fcfdd7b0409758bb046ab8c8d6ae
dns_responses	4de7a237323d5c3e719df2e1c5be4b9194cbe644ee773a0328fd4f60d797ac35
tls_handshake	6a16bf2a1154d087e16f2579f4510c6ce0dd4e8ad7f33b79d32887aa8bc034fe
connectivity_log	384245812d55dd25bf3a43cbe6377a202e0c3dcedbed1e2a19ec1060157c60cb
dns_resolution_times	36b7e87b1607f5bbd1a61cc274bc35451c602c06927de46972c3dc41ffe6d405

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	6.62	7.95	6.03	16.04	-0.6
Google	IPv4	19.25	25.7	28	32.18	+8.8
Google	IPv6	30.1	59.32	25.85	31.99	-4.3
Cloudflare	IPv4	18.95	19.92	19.08	19.84	+0.1
Cloudflare	IPv6	21.2	21.66	22.91	28.38	+1.7

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 38162
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
u.com.my. 0053 IN A 20.247.199.20
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 31704
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
u.com.my. 0021600 IN DS 65415 13 2 1E04F518EED1A86389011617D0518056FB389854B5C656EB1CDEBACC 6A783AC9
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 58118
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
u.com.my. 00600 IN MX 10 u-com-my.mail.protection.outlook.com.
```

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 63327
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
u.com.my. 0021600 IN NS ns-264.awsdns-33.com.
u.com.my. 0021600 IN NS ns-1120.awsdns-12.org.
u.com.my. 0021600 IN NS ns-1798.awsdns-32.co.uk.
u.com.my. 0021600 IN NS ns-967.awsdns-56.net.
```

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 3499
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 9, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
u.com.my. 00300 IN TXT "8522aa0c6a5525d49257"
u.com.my. 00300 IN TXT "postman-domain-verification=466ad7d40382ed2601041c839ec3f4cef5b8b12578c8e5f2dddb3e13d1bcce26bfb1abc1a228da8367af788d71c5fa0a534fd082d6dfd206ded74109a492eb7"
u.com.my. 00300 IN TXT "google-site-verification=dxJ3EtDMRTPLicdVINyQPGLGwDVGw1JpmLRxc3KiAjA"
u.com.my. 00300 IN TXT "v=spf1 mx a:pl30smtp2o365.u.com.my ip4:52.74.225.129 ip4:123.136.102.0/22 include:spf.protection.outlook.com include:amazonses.com include:spfdm-ap-southeast-1.aliyun.com -all"
u.com.my. 00300 IN TXT "atlassian-domain-verification=LqPC7YrHRlVr1NgGxGvMUNK1GrADHT0xKa7sqcrsGXRvJQXDMdRe5h1XFaeftk"
u.com.my. 00300 IN TXT "lpassword-site-verification=CBXCDU35WFCTLIQDLFZRXR6PPU"
u.com.my. 00300 IN TXT "facebook-domain-verification=8na77omnb4jjhcyu095nns7ztx1l2i"
u.com.my. 00300 IN TXT "globalsign-domain-verification=E9380637F0CDD63C356D84E61D58D491"
u.com.my. 00300 IN TXT "globalsign-domain-verification=EB7CBFDA06D71E54A42A65ADD5D5BE73"
```

AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 58305
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
```

```
;; AUTHORITY SECTION:
u.com.my. 360 IN SOA ns-1120.awsdns-12.org. awsdns-hostmaster.amazon.com. 1 7200 900 1209600 86400
```

RRSIG

```
ns-1120.awsdns-12.org. awsdns-hostmaster.amazon.com. 1 7200 900 1209600 86400
SOA 13 3 900 20260306102857 20260306081357 33342 u.com.my. jsdvab/752j3dstv63IU7+lhuV5L+Zurzqf42zFjYE2pTyMRN/BfgyS7 2IbXr8X4vktXrAANozvsxzRVSZob9g==
```

DNSKEY

```
;; Got answer:
;; ->HEADER<- opcode: QUERY, status: NOERROR, id: 48708
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
u.com.my. 360 IN DNSKEY 257 3 13 qex+oT47j6CszZE++VZajS95oPNTmom66PbEIG6rpoUTmXu8tztfucG0 MxsUX3JviV4oCNCyM+or8IqpzlemXA==
u.com.my. 360 IN DNSKEY 256 3 13 f2KPYXDAJdEtoBG961xZg0nN0mUuXno3PJCoZ8hjMNsmnVESpMT6dQPz eYuSPL6tP9bRIS9t6GatXgLYrALlFw==
u.com.my. 360 IN DNSKEY 256 3 13 bujlmQySU3In7VANj5skVgXLS+KnyGnHS5fdqKMcD0zLHZf2MxTNkcaI vuEFS7APcTLhmKwMuHCT7bKrIIG1zg==
```

DNSSEC_VALIDATION

```
; fully validated
u.com.my. 900 IN SOA ns-1120.awsdns-12.org. awsdns-hostmaster.amazon.com. 1 7200 900 1209600 86400
u.com.my. 900 IN RRSIG SOA 13 3 900 20260306102857 20260306081357 33342 u.com.my. 0G4WJlkdSDBhw/4zAhxfnBil0a+I+91ahbakS8UiPsdF9I60Y/TCxwWx
PMjVgbp6GJZEmsNXfTaLzBBGPNRSg==
```



```
HGH0dHBz0i8vd3d3LmRpZ2LjZXJ0LmNvbS9DUFMwDQYJKoZIhvcNAQELBQADggEB
AIIcBDqC6cWpyGUSXAJjAcYwsK4iGF7KweG97i1RJz1kwZhRoo6orU1JtBYnjzB
c4+/sXmnHJk3mLPyL1xuIAt9sMeC7+vreRIF5wFBC0MCN5sbHwhNN1JzKbifNeP5
ozpZdQFmkCo+neBiKR6HqIA+LMTMCMuv2khGGuPHmtDze4GmEGZtYLyF8EQpa5Y
jPuV6k2Cr/N3XxFpT3hRpt/3usU/Zb9wfKPtWpoznZ4/44c1p9rzFcZYrWkj3A+7
TNBJE0GmP2fhXhP1D/XVfIW/h0yCJGEiV9GLm/uG0a3DXHlmbAcxSyCRraG+ZBKA
7h4SeM6Y8L/7MBRpPCz618Y=
-----END CERTIFICATE-----
---
Server certificate
subject=C = MY, ST = Wilayah Persekutuan Kuala Lumpur, L = Kuala Lumpur, O = U Mobile Sdn Bhd, CN = *.u.com.my
issuer=C = US, O = DigiCert Inc, OU = www.digicert.com, CN = GeoTrust TLS RSA CA G1
---
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 3406 bytes and written 390 bytes
Verification: OK
---
New, TLSv1.3, Cipher is TLS_AES_256_GCM_SHA384
Server public key is 2048 bit
Secure Renegotiation IS NOT supported
Compression: NONE
Expansion: NONE
No ALPN negotiated
```


HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	200
Connected IP	20.247.199.20
Connect Time	34.15 ms
TTFB	149.74 ms
Total Time	150 ms

Response Headers:

```
{
  "0": "HTTP/1.0 302 Redirect",
  "1": "Connection: Close",
  "2": "Location: https://u.com.my/",
  "4": "HTTP/1.1 301 Moved Permanently",
  "5": "Content-Type: text/html",
  "6": "Content-Length: 134",
  "7": "Date: Fri, 06 Mar 2026 09:13:58 GMT",
  "8": "Location: https://www.u.com.my:443/",
  "9": "X-Cache: Miss from cloudfront",
  "10": "Via: 1.1 f737694e7f987d3598c18b29a3a4a300.cloudfront.net (CloudFront)",
  "11": "X-Amz-Cf-Pop: SIN2-P11",
  "12": "X-Amz-Cf-Id: c-MuIVD03bNvciIBsRS2p8dKAPepv5PvKC5T2zZ2o0TNMs0vp0iIWw==",
  "14": "HTTP/1.1 301 Moved Permanently",
  "15": "Content-Type: text/html; charset=iso-8859-1",
  "16": "Date: Fri, 06 Mar 2026 09:13:58 GMT",
  "17": "Expires: Fri, 06 Mar 2026 09:18:58 GMT",
  "18": "X-Dispatcher: dispatcher-1",
  "19": "X-Vhost: publish",
  "20": "Strict-Transport-Security: max-age=63072000; includeSubdomains;",
  "21": "X-Content-Type-Options: nosniff",
  "22": "Location: https://www.u.com.my/en/personal/home",
  "23": "Cache-Control: max-age=300",
  "24": "X-Cache: Miss from cloudfront",
  "25": "Via: 1.1 ba27ce03782dde4e1a9edba0c10f6262.cloudfront.net (CloudFront)",
  "26": "X-Amz-Cf-Pop: SIN2-P11",
  "27": "X-Amz-Cf-Id: UzeU-u0gLCDVSG099bir1pz2-cg6D6AJGhxqtsPkAQiA_1bYuA6vA==",
  "29": "HTTP/1.1 200 OK",
  "30": "Content-Type: text/html; charset=utf-8",
  "31": "Date: Fri, 06 Mar 2026 09:02:48 GMT",
  "32": "Referrer-Policy: Access-Control-Allow-Origin",
  "33": "Permissions-Policy: geolocation=(self), microphone=()",
  "34": "X-Dispatcher: dispatcher-2",
  "35": "X-Vhost: publish",
  "36": "Strict-Transport-Security: max-age=63072000; includeSubdomains;",
  "37": "X-Content-Type-Options: nosniff",
  "38": "X-Content-Type-Options: nosniff",
  "39": "Accept-Ranges: bytes",
  "40": "Cache-Control: max-age=300",
  "41": "Expires: Fri, 06 Mar 2026 09:07:48 GMT",
  "42": "X-Frame-Options: SAMEORIGIN",
  "43": "Content-Security-Policy: default-src https; connect-src https: 'self' wss://webmessaging.mypurecloud.jp; script-src 'unsafe-eval' 'unsafe-inline' 'self' https://assets.adobedtm.com https://maps.googleapis.com https://www.googletagmanager.com https://www.googleadservices.com https://www.google-analytics.com https://static.ads-twitter.com https://connect.facebook.net https://analytics.twitter.com https://googleads.g.doubleclick.net https://www.facebook.com https://www.google.com https://www.gstatic.com https://apps.mypurecloud.jp https://analytics.tiktok.com https://curator-assets.b-cdn.net https://cdn.curator.io https://platform.instagram.com https://www.instagram.com; font-src 'self' data: https://fonts.gstatic.com; style-src 'self' 'unsafe-inline' https://fonts.googleapis.com https://cdn.curator.io; img-src https: data:",
  "44": "Vary: Accept-Encoding",
  "45": "X-Cache: Hit from cloudfront",
  "46": "Via: 1.1 067a460162946a5f47314c2245c4a95a.cloudfront.net (CloudFront)",
  "47": "X-Amz-Cf-Pop: SIN2-P11",
  "48": "X-Amz-Cf-Id: k5a8Mkvm0Rlf3AB96mNT2TtbCxzJ3bEsbkJ51L70cYL2lRP3McEqw==",
  "49": "Age: 16871"
}
```

IPv4 HTTPS (port 443)

HTTP Status	200
Connected IP	20.247.199.20
Connect Time	16.79 ms
TTFB	95.69 ms
Total Time	95.82 ms

Response Headers:

```
{
  "0": "HTTP/1.1 301 Moved Permanently",
  "1": "Content-Type: text/html",
  "2": "Content-Length: 134",
  "3": "Connection: keep-alive",
  "4": "Date: Fri, 06 Mar 2026 09:13:58 GMT",
  "5": "Location: https://www.u.com.my:443/",
  "6": "X-Cache: Miss from cloudfront",
  "7": "Via: 1.1 99593f4af61be34fdb409aabe600d200.cloudfront.net (CloudFront)",
  "8": "X-Amz-Cf-Pop: SIN2-P11",
  "9": "X-Amz-Cf-Id: wPcjFGZ6dw-pNSgryPKu2sy9hVUWLWouU90fSs2jvmiSR79rk79CVw==",
  "11": "HTTP/1.1 301 Moved Permanently",
  "12": "Content-Type: text/html; charset=iso-8859-1",
  "13": "Connection: keep-alive",
  "14": "Date: Fri, 06 Mar 2026 09:13:58 GMT",
  "15": "Expires: Fri, 06 Mar 2026 09:18:58 GMT",
  "16": "X-Dispatcher: dispatcher-3",
  "17": "X-Vhost: publish",
  "18": "Strict-Transport-Security: max-age=63072000; includeSubdomains;",
  "19": "X-Content-Type-Options: nosniff",
  "20": "Location: https://www.u.com.my/en/personal/home",
  "21": "Cache-Control: max-age=300",
  "22": "X-Cache: Miss from cloudfront",
  "23": "Via: 1.1 dba91ecad9f349fee0b93c56ed43ad3a.cloudfront.net (CloudFront)",
  "24": "X-Amz-Cf-Pop: SIN2-P11",
  "25": "X-Amz-Cf-Id: 7Fk-yZGYXVFFhzB_INKFFVIAyu16Fo5gTr8Su98LeR4qqx046--qmA==",
  "27": "HTTP/1.1 200 OK",
  "28": "Content-Type: text/html; charset=utf-8",
  "29": "Connection: keep-alive",
  "30": "Date: Fri, 06 Mar 2026 09:02:48 GMT",
  "31": "Referrer-Policy: Access-Control-Allow-Origin",
  "32": "Permissions-Policy: geolocation=(self), microphone=()",
  "33": "X-Dispatcher: dispatcher-2",
  "34": "X-Vhost: publish",
  "35": "Strict-Transport-Security: max-age=63072000; includeSubdomains;",
  "36": "X-Content-Type-Options: nosniff",
  "37": "X-Content-Type-Options: nosniff",
  "38": "Accept-Ranges: bytes",
  "39": "Cache-Control: max-age=300",
  "40": "Expires: Fri, 06 Mar 2026 09:07:48 GMT",
  "41": "X-Frame-Options: SAMEORIGIN",
  "42": "Content-Security-Policy: default-src https; connect-src https: 'self' wss://webmessaging.mypurecloud.jp; script-src 'unsafe-eval' 'unsafe-inline' 'self' https://assets.adobedtm.com https://maps.googleapis.com https://www.googletagmanager.com https://www.googleadservices.com https://www.google-analytics.com https://static.ads-twitter.com https://connect.facebook.net https://analytics.twitter.com https://googleads.g.doubleclick.net https://www.facebook.com https://www.google.com https://www.gstatic.com https://apps.mypurecloud.jp https://analytics.tiktok.com https://curator-assets.b-cdn.net https://cdn.curator.io https://platform.instagram.com https://www.instagram.com; font-src 'self' data: https://fonts.gstatic.com; style-src 'self' 'unsafe-inline' https://fonts.googleapis.com https://cdn.curator.io; img-src https: data:",
  "43": "Vary: Accept-Encoding",
  "44": "X-Cache: Hit from cloudfront",
  "45": "Via: 1.1 dba91ecad9f349fee0b93c56ed43ad3a.cloudfront.net (CloudFront)",
  "46": "X-Amz-Cf-Pop: SIN2-P11",
  "47": "X-Amz-Cf-Id: qHW1TZXD2bobHuP4jaMX68gZYBDsp9_CAYNI_N2_2dHoh0KwcEk4TA==",
  "48": "Age: 16871"
}
```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	302 0.007848 0.015867
TCP Connect IPv4 → port 443	301 0.007482 0.053357

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
```