

# IPv6 Readiness Report

uniswa.edu.my — uniswa.edu.my



Scan to verify

Category: Education • Generated: 13 Jun 2026, 18:34 MYT • Last Checked: 13 Jun 2026, 01:01 MYT • Verification ID: 145fb6bc-5f6e-4964-8f3d-ba324f63a190

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

Audit trail: <https://ipv6.my6.my/audit/145fb6bc-5f6e-4964-8f3d-ba324f63a190>

<p><b>X</b></p> <p><b>Non-Compliant</b></p> <p>MGv6C-1.0</p>	<p><b>32%</b></p> <p><b>No IPv6 Support</b></p>	<p><b>IPv6-ONLY READINESS</b></p> <p>Website: <b>X Not Ready</b></p> <p>DNS: <b>X Not Ready</b></p> <p>Email: <b>X Not Ready</b></p>
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IPv4 ADDRESSES
103.16.183.3
103.16.182.3

## Network Information (WHOIS / RDAP)

IPv4 Network	
Organization	Universiti Sultan Zainal Abidin
Country	MY
ASN	AS58812
ASN Name	USZA-AS - Information Technology Center, MY
Network (CIDR)	103.16.182.0/23

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	FAIL	No DS record at parent.	
7	RRSIG Valid	FAIL	No valid RRSIG found.	

#	CHECK	RESULT	DETAIL
8	<b>Signing Algorithm</b>	<b>INFO</b>	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: google._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>	103.16.183.3, 103.16.182.3
2	<b>HTTP over IPv4</b>	<b>PASS</b>	HTTP (port 80) responds over IPv4 — 399ms TTFB.
3	<b>HTTPS over IPv4</b>	<b>PASS</b>	HTTPS (port 443) responds over IPv4 — 345ms TTFB.

### Audit Trail & Evidence Record

Verification ID	145fb6bc-5f6e-4964-8f3d-ba324f63a190
Domain	uniswa.edu.my
Check Mode	Scheduled
Status	Completed
Started	13 Jun 2026, 01:01:03 MYT
Finished	13 Jun 2026, 01:01:31 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/145fb6bc-5f6e-4964-8f3d-ba324f63a190

### Integrity Verification

<b>✓ INTEGRITY VERIFIED</b>	
Algorithm	hmac-sha256-v1
Root Hash	0d1122a1fd867171b708103f32c281f3300fede1486a1678d9568e63ee99d56f
http_headers	beba47f81506f0b3a3e5f71859321d9bf6670356271c8283f473e6812a0d6b1d
dns_responses	77ffa48e369042242eca0f64e4d89ae5ac56aaedbc398bb39ea72d1fe1ce1674
tls_handshake	ddab855044fbfe6af5a12897e89ec709d2fff5431ada1cf56a71e3ff32fb3584
connectivity_log	41d854a8de7a3ac8f2e722c108d0e2178fe6dd0b073ffb90146cce8975f23686
dns_resolution_times	a8c7dd632a4df2ff2a097c2fcd5496bc06871cc9f03a415a3de3495d9066ac75

### 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	8.75	9.27	7.49	7.99	-1.3
Google	IPv4	51.3	52.71	45.55	56.84	-5.8
Google	IPv6	37.9	38.56	47.16	52.14	+9.3
Cloudflare	IPv4	22.86	24.37	20.91	21.59	-2
Cloudflare	IPv6	8.89	20.33	49.42	49.5	+40.5



## DNS Evidence

### A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 234
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
uniswa.edu.my. 300 IN A 103.16.183.3
uniswa.edu.my. 300 IN A 103.16.182.3
```

### DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 13075
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
edu.my. 3471 IN SOA e.nic.my. hostmaster.nic.my. 2026046676 1800 900 604800 3600
```

### MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 11852
;; flags: qr rd ra; QUERY: 1, ANSWER: 5, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
uniswa.edu.my. 300 IN MX 10 ASPMX3.GOOGLEMAIL.COM.
uniswa.edu.my. 300 IN MX 5 ALT2.ASPMX.L.GOOGLE.COM.
uniswa.edu.my. 300 IN MX 1 ASPMX.L.GOOGLE.COM.
uniswa.edu.my. 300 IN MX 10 ASPMX2.GOOGLEMAIL.COM.
uniswa.edu.my. 300 IN MX 5 ALT1.ASPMX.L.GOOGLE.COM.
```

### NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 18750
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 3

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
uniswa.edu.my. 300 IN NS ns1.uniswa.edu.my.
uniswa.edu.my. 300 IN NS ns2.uniswa.edu.my.
```

### TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 13158
;; flags: qr rd ra; QUERY: 1, ANSWER: 6, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
uniswa.edu.my. 300 IN TXT "Universiti Sultan Zainal Abidin Malaysia, please visit www.uniswa.edu.my for more info"
uniswa.edu.my. 300 IN TXT "google-site-verification=JyE3EtNw--rZ1dZT3FNnXynt_aq_bRwTOWlfMMv8fHY"
uniswa.edu.my. 300 IN TXT "google-site-verification=JQLLbSHBLcbyw_hQLI08ERmqU_kLVivjxYk2zEQcV_0"
uniswa.edu.my. 300 IN TXT "v=spf1 include:_spf.google.com ~all"
uniswa.edu.my. 300 IN TXT "MS=B9B230EA6BFC636EEB6F130EDCE497B98D26BA84"
uniswa.edu.my. 300 IN TXT "cisco-ci-domain-verification=a5810c853568e2fcf687875b70a2045609525e0b924431f257146218130d649"
```

### AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 35912
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
uniswa.edu.my.[]274[]IN[]SOA[]ns1.uniswa.edu.my. admin.uniswa.edu.my. 2026061002 10800 3600 1209600 300
```

**RRSIG**

```
ns1.uniswa.edu.my. admin.uniswa.edu.my. 2026061002 10800 3600 1209600 300
```

**DNSKEY**

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 43514
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
uniswa.edu.my.[]274[]IN[]SOA[]ns1.uniswa.edu.my. admin.uniswa.edu.my. 2026061002 10800 3600 1209600 300
```

**DNSSEC\_VALIDATION**

```
; unsigned answer
uniswa.edu.my.[]274[]IN[]SOA[]ns1.uniswa.edu.my. admin.uniswa.edu.my. 2026061002 10800 3600 1209600 300
```



TLS Handshake Evidence

IPV4 Connection

IP Used	103.16.183.3
IP Version	4

```
depth=2 C = GB, O = Sectigo Limited, CN = Sectigo Public Server Authentication Root R46
verify return:1
depth=1 C = GB, O = Sectigo Limited, CN = Sectigo Public Server Authentication CA DV R36
verify return:1
depth=0 CN = *.unisza.edu.my
verify return:1
CONNECTED(00000010)
...
Certificate chain
0 s:CN = *.unisza.edu.my
i:C = GB, O = Sectigo Limited, CN = Sectigo Public Server Authentication CA DV R36
a:PKKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA256
v:NotBefore: Jan 3 00:00:00 2026 GMT; NotAfter: Jan 3 23:59:59 2027 GMT
-----BEGIN CERTIFICATE-----
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BgEFBQcDAjBjBGNVHSAEQjBAMDOGCysGAQQBsjEBAgIHMCIUwIwYIKwYBBQUHAgEw
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eDB2ME8GCCsGAQUFBzAChkNodHRwOi8vY3J0LnNlY3R3p228uY29tL1NlY3R3p229Q
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/mpkVxtcbr90feofGVdn7HLMN4CIQCFixPzZTLHNo4KhBx4C/fj1pJW4IjC5IUY
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xLsLr9oa0x3cbU=
-----END CERTIFICATE-----
1 s:CN = *.unisza.edu.my
i:C = GB, O = Sectigo Limited, CN = Sectigo Public Server Authentication CA DV R36
a:PKKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA256
v:NotBefore: Jan 3 00:00:00 2026 GMT; NotAfter: Jan 3 23:59:59 2027 GMT
-----BEGIN CERTIFICATE-----
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xLsLr9oa0x3cbU=
-----END CERTIFICATE-----
```

```

hhddoHRw0i8vb2NzcC5zZWNoaWdvLmNvbTApBgNVHREEIjAggg8qLnVuaXN6Y5S1
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caVhRoFEiKbA322GmU1N4LFJ63WZaAJ24h5IiP/k6DLie1pakyogadcp51Lq7q0w
se/qxMh5BNq3js0MC2iHGXL9CDT+7k6QSk6d7tr1Y/SZTNpm6FV2E10TpAJYwe
WTPthLfgQ97R9NhtjKaQwRRYJ4aCUTuDIqWax88iUCha9X9ScwCMYDtRhqmauwH
xlslLr9oa0x3cbu=
-----END CERTIFICATE-----
2 s:C = GB, 0 = Sectigo Limited, CN = Sectigo Public Server Authentication CA DV R36
i:C = GB, 0 = Sectigo Limited, CN = Sectigo Public Server Authentication Root R46
a:PKKEY: rsaEncryption, 3072 (bit); sigalg: RSA-SHA384
v:NotBefore: Mar 22 00:00:00 2021 GMT; NotAfter: Mar 21 23:59:59 2036 GMT
-----BEGIN CERTIFICATE-----
MIIGTDCCBDSgAwIBAgIQ0XpmzCdWni4NqofKbqvjSTANBgkqhkiG9w0BAQwFADBF
M0swCQYDVQQGEwJHMQYEMBYGA1UEChMPU2VjdGlnbyBmaW1pdGVkMTYwNAVDVQQD

```



## HTTP Response Evidence

### IPv4 HTTP (port 80)

HTTP Status	200
Connected IP	103.16.182.3
Connect Time	27.37 ms
TTFB	451.76 ms
Total Time	451.86 ms

#### Response Headers:

```
{
  "0": "HTTP/1.1 301 Moved Permanently",
  "1": "Server: nginx",
  "2": "Date: Fri, 12 Jun 2026 17:01:30 GMT",
  "3": "Content-Type: text/html",
  "4": "Content-Length: 178",
  "5": "Connection: keep-alive",
  "6": "Location: https://www.unisza.edu.my/",
  "7": "X-Frame-Options: SAMEORIGIN",
  "9": "HTTP/1.1 200 OK",
  "10": "Server: nginx",
  "11": "Date: Fri, 12 Jun 2026 17:01:31 GMT",
  "12": "Content-Type: text/html; charset=UTF-8",
  "13": "Connection: keep-alive",
  "14": "set-cookie: pll_language=en; expires=Sat, 12 Jun 2027 17:01:31 GMT; Max-Age=31536000; path=/; secure; SameSite=Lax",
  "15": "link: <https://www.unisza.edu.my/wp-json/>; rel=\"https://api.w.org/\"",
  "16": "link: <https://www.unisza.edu.my/wp-json/wp/v2/pages/51>; rel=\"alternate\"; type=\"application/json\"",
  "17": "link: <https://www.unisza.edu.my/>; rel=shortlink",
  "18": "x-frame-options: SAMEORIGIN",
  "19": "set-cookie: SERVERID=s1; path=/",
  "20": "Strict-Transport-Security: max-age=15768000; includeSubDomains; preload;",
  "21": "X-Content-Type-Options: nosniff",
  "22": "X-XSS-Protection: 1; mode=block",
  "23": "X-Download-Options: noopen",
  "24": "X-Permitted-Cross-Domain-Policies: none"
}
```

### IPv4 HTTPS (port 443)

HTTP Status	200
Connected IP	103.16.182.3
Connect Time	22.79 ms
TTFB	497.98 ms
Total Time	498.06 ms

#### Response Headers:

```
{
  "0": "HTTP/1.1 301 Moved Permanently",
  "1": "Server: nginx",
  "2": "Date: Fri, 12 Jun 2026 17:01:31 GMT",
  "3": "Content-Type: text/html",
  "4": "Content-Length: 178",
  "5": "Connection: keep-alive",
  "6": "Location: https://www.unisza.edu.my/",
  "8": "HTTP/1.1 200 OK",
  "9": "Server: nginx",
  "10": "Date: Fri, 12 Jun 2026 17:01:31 GMT",
  "11": "Content-Type: text/html; charset=UTF-8",
  "12": "Connection: keep-alive",
  "13": "set-cookie: pll_language=en; expires=Sat, 12 Jun 2027 17:01:31 GMT; Max-Age=31536000; path=/; secure; SameSite=Lax",
  "14": "link: <https://www.unisza.edu.my/wp-json/>; rel=\"https://api.w.org/\"",
  "15": "link: <https://www.unisza.edu.my/wp-json/wp/v2/pages/51>; rel=\"alternate\"; type=\"application/json\"",
  "16": "link: <https://www.unisza.edu.my/>; rel=shortlink",
  "17": "x-frame-options: SAMEORIGIN",
  "18": "set-cookie: SERVERID=s1; path=/",
  "19": "Strict-Transport-Security: max-age=15768000; includeSubDomains; preload;",
  "20": "X-Content-Type-Options: nosniff",
  "21": "X-XSS-Protection: 1; mode=block",
  "22": "X-Download-Options: noopen",
  "23": "X-Permitted-Cross-Domain-Policies: none"
}
```

### Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	301 0.014460 0.032019
TCP Connect IPv4 → port 443	301 0.010812 0.059231

### 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
```