

# IPv6 Readiness Report

redone.com.my — redone.com.my



Scan to verify

Category: Telco • Generated: 04 Jul 2026, 22:29 MYT • Last Checked: 04 Jul 2026, 03:21 MYT • Verification ID: f99bdf64-3e1c-4c8d-b78c-940bad3b5140

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

Audit trail: <https://ipv6.my6.my/audit/f99bdf64-3e1c-4c8d-b78c-940bad3b5140>

<p><b>X</b></p> <p><b>Non-Compliant</b></p> <p>MGv6C-1.0</p>	<p><b>47%</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>✓ Ready</b></p> <p>Email: <b>X Not Ready</b></p>
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<p><b>IPv4 ADDRESSES</b></p> <p>43.252.214.46</p>
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## Network Information (WHOIS / RDAP)

IPv4 Network	
Organization	Exa Bytes Network Sdn.Bhd.
Country	MY
ASN	AS46015
ASN Name	EXABYTES-AS-AP - Exa Bytes Network Sdn.Bhd., MY
Network (CIDR)	43.252.212.0/22

Web Services (35%) <span style="float: right;">0 / 8</span>			
#	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%) <span style="float: right;">3 / 5</span>			
#	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	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: selector1_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>	43.252.214.46
2	<b>HTTP over IPv4</b>	<b>PASS</b>	HTTP (port 80) responds over IPv4.
3	<b>HTTPS over IPv4</b>	<b>PASS</b>	HTTPS (port 443) responds over IPv4.

### Audit Trail & Evidence Record

Verification ID	f99bdf64-3e1c-4c8d-b78c-940bad3b5140
Domain	redone.com.my
Check Mode	Scheduled
Status	Completed
Started	04 Jul 2026, 03:21:13 MYT
Finished	04 Jul 2026, 03:21:44 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/f99bdf64-3e1c-4c8d-b78c-940bad3b5140

### Integrity Verification

<b>✓ INTEGRITY VERIFIED</b>	
Algorithm	hmac-sha256-v1
Root Hash	ed81b0f762632473b77a1c4a378cff8abc499d5791421fb9cdeec3ec51e151d6
http_headers	11d8cd3e7519e295782a6a6a90b6c9f9e57d0911cc7551ca65fa1a6dc15c76d0
dns_responses	6bacf00da49b4e4e825b66edf990d00f2f2f97088f3911e853149e96e79da701
tls_handshake	c0730c187baeb367224968a6b07d98961055c986462542b76501f2e0746573a3
connectivity_log	61a5437b612e1dd819d2447139f67f856331720156cb0d1f7d44e3d86f4f3b86
dns_resolution_times	6f2aea16008039e6f5b784805eaaf08e46d9cb737f7c71edff2bbde6ce1ede04

### 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	16.89	26.92	18.91	25.62	+2
Google	IPv4	34.51	43.18	28.96	36.85	-5.6
Google	IPv6	39.76	43.96	41.16	41.47	+1.4
Cloudflare	IPv4	16.42	16.73	29.61	32.01	+13.2
Cloudflare	IPv6	30.66	47.31	30.49	46.16	-0.2



## DNS Evidence

### A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 59861
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
redone.com.my. 300 IN A 43.252.214.46
```

### DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 7448
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
com.my. 2478 IN SOA e.nic.my. hostmaster.nic.my. 2026052750 1800 900 604800 3600
```

### MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 607
;; flags: qr rd ra; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
redone.com.my. 300 IN MX 10 mx1.hc1557-76.ap.iphmx.com.
redone.com.my. 300 IN MX 10 mx2.hc1557-76.ap.iphmx.com.
redone.com.my. 300 IN MX 0 redone-com-my.mail.protection.outlook.com.
```

### NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 35610
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
redone.com.my. 86400 IN NS razvan.ns.cloudflare.com.
redone.com.my. 86400 IN NS cruz.ns.cloudflare.com.
```

### TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 60114
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
redone.com.my. 300 IN TXT "v=DMARC1; p=reject; pct=100; rua=mailto:postmaster@redone.com.my"
redone.com.my. 300 IN TXT "v=spf1 mx ip4:211.24.122.211 ip4:1.9.116.241 include:spf.protection.outlook.com exists:%{i}.spf.hc1557-76.ap.iphmx.com -all"
redone.com.my. 300 IN TXT "google-site-verification=-med4XFFPdak92gn3Kbu6Zwdc5gTb35gX0EdtgqT3BY"
redone.com.my. 300 IN TXT "google-site-verification=gY0X_yevJpNbaGJj-QKaoF0UPGkTsERMYK_mtORD8r8"
```

### AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 39028
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
redone.com.my. 1774 IN SOA cruz.ns.cloudflare.com. dns.cloudflare.com. 2406716464 10000 2400 604800 1800
```

### RRSIG

```
cruz.ns.cloudflare.com. dns.cloudflare.com. 2406716464 10000 2400 604800 1800
```

**DNSKEY**

```
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 11180
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
redone.com.my. IN SOA cruz.ns.cloudflare.com. dns.cloudflare.com. 2406716464 10000 2400 604800 1800
```

**DNSSEC\_VALIDATION**

```
; unsigned answer
redone.com.my. IN SOA cruz.ns.cloudflare.com. dns.cloudflare.com. 2406716464 10000 2400 604800 1800
```









## HTTP Response Evidence

### IPv4 HTTP (port 80)

HTTP Status	302
Connected IP	43.252.214.46
Connect Time	11.91 ms
TTFB	1277.11 ms
Total Time	1277.25 ms
Error	Maximum (3) redirects followed

#### Response Headers:

```
{
  "0": "HTTP/1.1 301 Moved Permanently",
  "1": "Date: Fri, 03 Jul 2026 19:21:38 GMT",
  "2": "Server: Apache",
  "3": "Location: https://redone.com.my/",
  "4": "Content-Type: text/html; charset=iso-8859-1",
  "6": "HTTP/2 301",
  "7": "pragma: public",
  "8": "expires: Fri, 03 Jul 2026 20:21:38 GMT",
  "9": "cache-control: max-age=3600",
  "10": "x-redirect-by: WordPress",
  "11": "last-modified: Fri, 03 Jul 2026 19:09:53 GMT",
  "12": "etag: \"d41d8cd98f00b204e9800998ecf8427e\"",
  "13": "location: https://www.redone.com.my/",
  "14": "vary: User-Agent",
  "15": "access-control-allow-origin: *",
  "16": "referrer-policy: no-referrer-when-downgrade",
  "17": "content-type: text/html; charset=UTF-8",
  "18": "date: Fri, 03 Jul 2026 19:21:38 GMT",
  "19": "server: Apache",
  "21": "HTTP/2 301",
  "22": "pragma: public",
  "23": "expires: Fri, 03 Jul 2026 20:21:39 GMT",
  "24": "cache-control: max-age=3600",
  "25": "x-redirect-by: redirection",
  "26": "last-modified: Fri, 03 Jul 2026 19:09:49 GMT",
  "27": "etag: \"d41d8cd98f00b204e9800998ecf8427e\"",
  "28": "location: https://www.redone.com.my/en",
  "29": "vary: User-Agent",
  "30": "access-control-allow-origin: *",
  "31": "referrer-policy: no-referrer-when-downgrade",
  "32": "content-type: text/html; charset=UTF-8",
  "33": "date: Fri, 03 Jul 2026 19:21:38 GMT",
  "34": "server: Apache",
  "36": "HTTP/2 302",
  "37": "location: https://www.redonemobile.com.my/en",
  "38": "content-type: text/html; charset=iso-8859-1",
  "39": "date: Fri, 03 Jul 2026 19:21:39 GMT",
  "40": "server: Apache"
}
```

### IPv4 HTTPS (port 443)

HTTP Status	301
Connected IP	43.252.214.46
Connect Time	13.12 ms
TTFB	1838.05 ms
Total Time	1838.21 ms
Error	Maximum (3) redirects followed

#### Response Headers:

```
{
  "0": "HTTP/2 301",
  "1": "pragma: public",
  "2": "expires: Fri, 03 Jul 2026 20:21:40 GMT",
  "3": "cache-control: max-age=3600",
  "4": "x-redirect-by: WordPress",
  "5": "last-modified: Fri, 03 Jul 2026 19:09:53 GMT",
}
```

```

"6": "etag: \"d41d8cd98f00b204e9800998ecf8427e\"",
"7": "location: https://www.redone.com.my/",
"8": "vary: User-Agent",
"9": "access-control-allow-origin: *",
"10": "referrer-policy: no-referrer-when-downgrade",
"11": "content-type: text/html; charset=UTF-8",
"12": "date: Fri, 03 Jul 2026 19:21:39 GMT",
"13": "server: Apache",
"15": "HTTP/2 301",
"16": "pragma: public",
"17": "expires: Fri, 03 Jul 2026 20:21:40 GMT",
"18": "cache-control: max-age=3600",
"19": "x-redirect-by: redirection",
"20": "last-modified: Fri, 03 Jul 2026 19:09:49 GMT",
"21": "etag: \"d41d8cd98f00b204e9800998ecf8427e\"",
"22": "location: https://www.redone.com.my/en",
"23": "vary: User-Agent",
"24": "access-control-allow-origin: *",
"25": "referrer-policy: no-referrer-when-downgrade",
"26": "content-type: text/html; charset=UTF-8",
"27": "date: Fri, 03 Jul 2026 19:21:40 GMT",
"28": "server: Apache",
"30": "HTTP/2 302",
"31": "location: https://www.redonemobile.com.my/en",
"32": "content-type: text/html; charset=iso-8859-1",
"33": "date: Fri, 03 Jul 2026 19:21:40 GMT",
"34": "server: Apache",
"36": "HTTP/2 301",
"37": "expires: Fri, 03 Jul 2026 20:21:41 GMT",
"38": "cache-control: max-age=3600",
"39": "x-redirect-by: WordPress",
"40": "location: https://www.redonemobile.com.my/en/",
"41": "vary: User-Agent",
"42": "access-control-allow-origin: *",
"43": "referrer-policy: no-referrer-when-downgrade",
"44": "content-type: text/html; charset=UTF-8",
"45": "date: Fri, 03 Jul 2026 19:21:40 GMT",
"46": "server: Apache"
}
    
```

**Connectivity Test Evidence**

Test	Result
TCP Connect IPv4 → port 80	301 0.002070 0.005479
TCP Connect IPv4 → port 443	301 0.004464 0.044879

**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
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**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
    
```