

IPv6 Readiness Report

kedah.gov.my — kedah.gov.my



Scan to verify

Category: Government • Generated: 13 Jun 2026, 19:06 MYT • Last Checked: 13 Jun 2026, 00:57 MYT • Verification ID: e79d200b-c9dd-4e57-b40d-975786c6e4cb

Report generated from National IPv6 Readiness Monitor — <https://ipv6.my6.my>Audit trail: <https://ipv6.my6.my/audit/e79d200b-c9dd-4e57-b40d-975786c6e4cb>**X****Non-Compliant**

MGv6C-1.0

48%**No IPv6 Support****IPv6-ONLY READINESS**Website: **X Not Ready**DNS: **✓ Ready**Email: **X Not Ready****IPv4 ADDRESSES**

210.19.105.133

Network Information (WHOIS / RDAP)

IPv4 Network	
Organization	TT DOTCOM SDN BHD
Country	MY
ASN	AS9930
ASN Name	TTNET-MY - TIME dotCom Berhad No. 14, Jalan Majistret U1/26 Hicom Glenmarie Industrial Park 40150 Shah Alam Selangor, Malaysia, MY
Network (CIDR)	210.19.0.0/16

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.

#	CHECK	RESULT	DETAIL
8	Signing Algorithm	INFO	ECDSAP256SHA256

Email Services (25%) 3 / 6

#	CHECK	RESULT	DETAIL
1	MX Record Exists	PASS	MX record found.
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	PASS	SPF record found.
6	DKIM Selector	INFO	No common DKIM selector found.
7	DMARC Record	PASS	DMARC record found.

IPv4 Baseline (15%) 3 / 3

#	CHECK	RESULT	DETAIL
1	A Record	PASS	210.19.105.133
2	HTTP over IPv4	PASS	HTTP (port 80) responds over IPv4 — 583ms TTFB.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 580ms TTFB.

Audit Trail & Evidence Record

Verification ID	e79d200b-c9dd-4e57-b40d-975786c6e4cb
Domain	kedah.gov.my
Check Mode	Scheduled
Status	Completed
Started	13 Jun 2026, 00:57:28 MYT
Finished	13 Jun 2026, 00:57:33 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/e79d200b-c9dd-4e57-b40d-975786c6e4cb

Integrity Verification

✓ INTEGRITY VERIFIED	
Algorithm	hmac-sha256-v1
Root Hash	d1d7fdd79c4501cdf6fa5e668381602c10863ecd0bf05769158a1d65f76caa47
http_headers	178b7bddd2efe20192656f63083d67e60ad2830c3e7763198ad36ebd12476ff0
dns_responses	3da676a14c2e149c436755741cebfd30998a6f257782b04829a9bb9a1b22ee95
tls_handshake	02f724b20611a9c89a884703800800701de822f84c344c0d0f6d63af05a35e7a
connectivity_log	b7427d14b31ea0fb4c742ec33eb42a18ad2bae62d56e5fa91ac78419977d5773
dns_resolution_times	1492d1eec26006bc3fa4496ac9bd592d7f9b74d7b8ec80cab21abd0b69ed6e1b

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	-
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	25.33	50.27	11.59	41.18	-13.7
Google	IPv4	33.02	36.46	28.93	34.06	-4.1
Google	IPv6	19.92	30.28	22.36	25.66	+2.4
Cloudflare	IPv4	28.52	61.58	32.07	39.74	+3.6
Cloudflare	IPv6	19.91	26.47	20.92	21.63	+1

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 56079
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
kedah.gov.my. 0018000 IN A 210.19.105.133
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 29883
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
kedah.gov.my. 0086398 IN DS 12981 13 1 C014A8D8F0CDD7BDD4F0A03ECE59F4A4CBF6B19C
kedah.gov.my. 0086398 IN DS 54428 13 2 FCFCD6FC2E466AB3E7BF2C9E9DE40E98F584D39C6EF9D6D21432A628 B921FDB7
kedah.gov.my. 0086398 IN DS 54428 13 1 FB03379DDB3E4D7C7346A026B754C716ABEE943E
kedah.gov.my. 0086398 IN DS 12981 13 2 0E20857A9A6015945406AB27C1C242C8C508547CC39C4AE6582FDBD8D 686196A6
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 17945
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
kedah.gov.my. 0018000 IN MX 0 mail.kedahmail.gov.my.
```

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 53960
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 6, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
kedah.gov.my. 0086400 IN NS a22-64.akam.net.
kedah.gov.my. 0086400 IN NS a3-65.akam.net.
kedah.gov.my. 0086400 IN NS a5-65.akam.net.
kedah.gov.my. 0086400 IN NS a1-130.akam.net.
kedah.gov.my. 0086400 IN NS a20-64.akam.net.
kedah.gov.my. 0086400 IN NS a26-67.akam.net.
```

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 34201
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
kedah.gov.my. 0018000 IN TXT "google-site-verification=Ndo8lw4xzEBwXvpMwKDXCv_U7dGG5QkhC0salwKkwo"
kedah.gov.my. 0018000 IN TXT "v=spf1 +a +mx +ip4:210.19.105.136 +ip4:210.19.105.135 -all"
```

AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 8723
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
kedah.gov.my. 00300 IN SOA a1-130.akam.net. hostmaster.kedah.gov.my. 2023061483 3600 600 604800 300
```

RRSIG

```
a1-130.akam.net. hostmaster.kedah.gov.my. 2023061483 3600 600 604800 300
SOA 13 3 1800 20260614222317 20260611212317 29219 kedah.gov.my. qjIVSHHrsapJ2amJks2x1dCfBUySc6VVMWjyXb/uIPbc41zyLcGyqc2I 2ZbLzryh4ttmXs0SYQC/Sfc4svxfVg==
```

DNSKEY

```
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 32081
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
kedah.gov.my. 007198 IN DNSKEY 256 3 13 hxbGjKbStEIYm4JIV1KrNdv+qBYGuWVfdGxDajLakfTP7jttLqMrBciz 4rrA+Cr8+JAsQp95nVX0QJwXQFQRKw==
kedah.gov.my. 007198 IN DNSKEY 256 3 13 f4qMQvJHrc0S2WwokVIkSzBqxDvHjnBofSIGFzRGQ04UTBXYZzAbYjxx 0MpisIkVNICa9Zxw8AlK/4Vgem/Uqw==
kedah.gov.my. 007198 IN DNSKEY 257 3 13 9o8Vxwy7xWbpeFdxM6nSy0EtQBk8DbIo/Niqe9tjLtIkFQk5Ao2KZCh ib3CQ0m5iByI7DG//Ng0n/VNGnPxCQ==
kedah.gov.my. 007198 IN DNSKEY 257 3 13 /QzzDSxHA4c2FJKune9Ub/pn5NF3PIfJXr9LE45D3sq/VMHH/5UNeKJh UfBsUIz25VKFV9eAPPVzoL0YtHQ0LA==
```

DNSSEC_VALIDATION

```
; fully validated
kedah.gov.my. 007198 IN SOA a1-130.akam.net. hostmaster.kedah.gov.my. 2023061483 3600 600 604800 300
kedah.gov.my. 007198 IN RRSIG SOA 13 3 1800 20260614222317 20260611212317 29219 kedah.gov.my. qjIVSHHrsapJ2amJks2x1dCfBUySc6VVMWjyXb/uIPbc41zyLcGyqc2I 2ZbLzryh4ttmXs0SYQC/Sfc4svxfVg==
```



```

044CV98NRsU213f1kScIZntNagMBAAGjggGBMIIBFTAfBgNVHSMEDAwgBRWc1hk
LfmsGrASKgRieaFAFYghSTAdBgNVH04EFgQU42Z0u3Boj5xdTg6mSo+bnYKcgpIw
DgYDVR0PAAQH/BAQDAgGMBIGAIUdEwEB/wQIMAYBAf8CAQAwHQYDVR0LBBYwFAYI
KwYBBQUHAWEGCCsGAQUFBwMCMBSGA1UdIAQUMBIwBgYEVR0gADAIbgZngQwBAGIw
VAYDVR0fBE0wSzBjOeEgRYZDaHR0cDovL2NybzC5zZWNOaWdvLmNvbS9TZWNOaWdv
UHVibGljU2VydmlVYQXV0aGVudGljYXRpb255b290UjQ2LmNybDcBhAYIKwYBBQUH
AQEEeDB2ME8GCCsGAQUFBzAChkNodHRwOi8vY3J0LnNlY3RlZ28uY29tL1NlY3Rl
Z290dWJsaWNTZXJ2ZXJlYXN0ZW50aWNoZGlvdjV3b3RSNDYucDdjMCMGCCsGAQUF
BzABhdodHRwOi8vb2NzcC5zZWNOaWdvLmNvbTANBgkqhkiG9w0BAQwFAAOCAGEA
BZxWDHWC3cubb/e1I1kz181PFiK/ZUoH09ufmV0rc50bYH/XKkKWexSPqRkWKFKr
7r80uG+p7VNB8rifX6uopqKAgsvZtZs7iAFw04To6vNcxeBt1Eush3cQ4b8nbQR
MQLChgEAqwhuXp9P48T4QEBSksYav7+aFjNySsLYLPzNqVM3RNwvBdvp6vgDtGwc
xLKQZVuuNVIAoYyls8swhxDeSHKpRdxRauTLZ+pl+wGvy0pnrLEJGSz9m0Emfbod
e/XopR2NGqaHJ6bIjyxPu6UtyQGI26En7UAeozACRHz06Nx2jTAY9E6NeB6XuobE
wLK025ZRmvgLcURG1BrV24tGHHTGxCe8M3oGLpUSMTKQ2dkgLjZVyt+gKdFtWELZ
MuRdi+X3XsrR8LFz+aLUiDRfQqhmw3RxxjIyVKvuu9UPYY1nsvxYmFnUSEM+2q1z/
iPUry+xDY9MC6+IhleKT094VKdFVp7LXH42+wwU+17LRoLQ2mK2N/nBLVBwaIhib
QXw4VYKwB86Bc6e56iqsc94KEgD/U4VsjmgfhK+Xp4NM+VYzTTa3QeV3p8x0M0cw
q1p8oZFA+0Bcz3FYWpDiE5j0NWKlw9hXsTyPY/HeZUV59aksKS0SRsmdfe8WJDPX
58uB9/7Lud0G3x0pxQAcffP0ayKavNwDTw4UfJ34cEw=
-----END CERTIFICATE-----
2 s:C = GB, O = Sectigo Limited, CN = Sectigo Public Server Authentication Root R46
i:C = US, ST = New Jersey, L = Jersey City, O = The USERTRUST Network, CN = USERTrust RSA Certification Authority
a:PKKEY: rsaEncryption, 4096 (bit); sigalg: RSA-SHA384
v:NotBefore: Mar 22 00:00:00 2021 GMT; NotAfter: Jan 18 23:59:59 2038 GMT
-----BEGIN CERTIFICATE-----
MIIGLTCCBH2gAwIBAgIRANJ/u8HeNZ55Fq1hSVhgmcQwDQYJKoZIhvcNAQEMBQAw

```


HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	200
Connected IP	210.19.105.133
Connect Time	33.39 ms
TTFB	592.71 ms
Total Time	592.89 ms

Response Headers:

```
{
  "0": "HTTP/1.1 301 Moved Permanently",
  "1": "Date: Fri, 12 Jun 2026 16:57:31 GMT",
  "2": "Server: Apache",
  "3": "Strict-Transport-Security: max-age=31536000; includeSubDomains; preload",
  "4": "X-Content-Type-Options: nosniff",
  "5": "Location: https://kedah.gov.my/",
  "6": "Content-Type: text/html; charset=iso-8859-1",
  "8": "HTTP/1.1 301 Moved Permanently",
  "9": "Date: Fri, 12 Jun 2026 16:57:31 GMT",
  "10": "Server: Apache",
  "11": "Permissions-Policy: private-state-token-redemption=(self \"https://www.google.com\" \"https://www.gstatic.com\" \"https://recaptcha.net\" \"https://challenges.cloudflare.com\" \"https://hcaptcha.com\"), private-state-token-issuance=(self \"https://www.google.com\" \"https://www.gstatic.com\" \"https://recaptcha.net\" \"https://challenges.cloudflare.com\" \"https://hcaptcha.com\"),",
  "12": "X-Redirect-By: WordPress",
  "13": "Strict-Transport-Security: max-age=31536000; includeSubDomains; preload",
  "14": "X-Content-Type-Options: nosniff",
  "15": "Location: https://www.kedah.gov.my/",
  "16": "X-Frame-Options: SAMEORIGIN",
  "17": "Content-Type: text/html; charset=UTF-8",
  "19": "HTTP/1.1 200 OK",
  "20": "Date: Fri, 12 Jun 2026 16:57:31 GMT",
  "21": "Server: Apache",
  "22": "Permissions-Policy: private-state-token-redemption=(self \"https://www.google.com\" \"https://www.gstatic.com\" \"https://recaptcha.net\" \"https://challenges.cloudflare.com\" \"https://hcaptcha.com\"), private-state-token-issuance=(self \"https://www.google.com\" \"https://www.gstatic.com\" \"https://recaptcha.net\" \"https://challenges.cloudflare.com\" \"https://hcaptcha.com\"),",
  "23": "Link: <https://www.kedah.gov.my/index.php/wp-json/>; rel=\"https://api.w.org/\", <https://www.kedah.gov.my/index.php/wp-json/wp/v2/pages/807>; rel=\"alternate\"; title=\"JSON\"; type=\"application/json\", <https://www.kedah.gov.my/>; rel=shortlink",
  "24": "Strict-Transport-Security: max-age=31536000; includeSubDomains; preload",
  "25": "X-Content-Type-Options: nosniff",
  "26": "X-Frame-Options: SAMEORIGIN",
  "27": "Content-Type: text/html; charset=UTF-8"
}
```

IPv4 HTTPS (port 443)

HTTP Status	200
Connected IP	210.19.105.133
Connect Time	22.71 ms
TTFB	573.38 ms
Total Time	573.51 ms

Response Headers:

```
{
  "0": "HTTP/1.1 301 Moved Permanently",
  "1": "Date: Fri, 12 Jun 2026 16:57:32 GMT",
  "2": "Server: Apache",
  "3": "Permissions-Policy: private-state-token-redemption=(self \"https://www.google.com\" \"https://www.gstatic.com\" \"https://recaptcha.net\" \"https://challenges.cloudflare.com\" \"https://hcaptcha.com\"), private-state-token-issuance=(self \"https://www.google.com\" \"https://www.gstatic.com\" \"https://recaptcha.net\" \"https://challenges.cloudflare.com\" \"https://hcaptcha.com\"),",
  "4": "X-Redirect-By: WordPress",
  "5": "Strict-Transport-Security: max-age=31536000; includeSubDomains; preload",
  "6": "X-Content-Type-Options: nosniff",
  "7": "Location: https://www.kedah.gov.my/",
  "8": "X-Frame-Options: SAMEORIGIN",
  "9": "Content-Type: text/html; charset=UTF-8",
  "11": "HTTP/1.1 200 OK",
  "12": "Date: Fri, 12 Jun 2026 16:57:32 GMT",
  "13": "Server: Apache",
  "14": "Permissions-Policy: private-state-token-redemption=(self \"https://www.google.com\" \"https://www.gstatic.com\" \"https://recaptcha.net\" \"https://challenges.cloudflare.com\" \"https://hcaptcha.com\"), private-state-token-issuance=(self \"https://www.google.com\" \"https://www.gstatic.com\" \"https://recaptcha.net\" \"https://challenges.cloudflare.com\" \"https://hcaptcha.com\"),",
  "15": "Link: <https://www.kedah.gov.my/index.php/wp-json/>; rel=\"https://api.w.org/\", <https://www.kedah.gov.my/index.php/wp-json/wp/v2/pages/807>; rel=\"alternate\"; title=\"JSON\"; type=\"application/json\", <https://www.kedah.gov.my/>; rel=shortlink",
  "16": "Strict-Transport-Security: max-age=31536000; includeSubDomains; preload",
  "17": "X-Content-Type-Options: nosniff",
  "18": "X-Frame-Options: SAMEORIGIN",
  "19": "Content-Type: text/html; charset=UTF-8"
}
```

```
\ "https://recaptcha.net\" \"https://challenges.cloudflare.com\" \"https://hcaptcha.com\"),
  "15": "Link: <https://www.kedah.gov.my/index.php/wp-json/>; rel=\"https://api.w.org/\", <https://www.kedah.gov.my/index.php/wp-json/wp/v2/pages/807>;
rel=\"alternate\"; title=\"JSON\"; type=\"application/json\", <https://www.kedah.gov.my/>; rel=shortlink\",
  "16": "Strict-Transport-Security: max-age=31536000; includeSubDomains; preload",
  "17": "X-Content-Type-Options: nosniff",
  "18": "X-Frame-Options: SAMEORIGIN",
  "19": "Content-Type: text/html; charset=UTF-8"
}
```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	301 0.010832 0.039845
TCP Connect IPv4 → port 443	301 0.010257 0.308624

Test Node Network Evidence

Node Profile	dual stack
--------------	------------

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
```