

IPv6 Readiness Report

kedah.gov.my — kedah.gov.my



Scan to verify

Category: Government • Generated: 04 Jul 2026, 22:40 MYT • Last Checked: 04 Jul 2026, 04:08 MYT • Verification ID: b4e6e23a-280a-4336-98ff-4db8c765656b

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

Audit trail: <https://ipv6.my6.my/audit/b4e6e23a-280a-4336-98ff-4db8c765656b>

<p>X</p> <p>Non-Compliant</p> <p>MGv6C-1.0</p>	<p>48%</p> <p>No IPv6 Support</p>	<p>IPv6-ONLY READINESS</p> <p>Website: X Not Ready</p> <p>DNS: ✓ Ready</p> <p>Email: X Not Ready</p>
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<p>IPv4 ADDRESSES</p> <p>210.19.105.133</p>
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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 — 718ms TTFB.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 679ms TTFB.

Audit Trail & Evidence Record

Verification ID	b4e6e23a-280a-4336-98ff-4db8c765656b
Domain	kedah.gov.my
Check Mode	Scheduled
Status	Completed
Started	04 Jul 2026, 04:08:31 MYT
Finished	04 Jul 2026, 04:08:36 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/b4e6e23a-280a-4336-98ff-4db8c765656b

Integrity Verification

✓ INTEGRITY VERIFIED	
Algorithm	hmac-sha256-v1
Root Hash	74c38d2f16e63ff1735bf2003cf315f160cea856b948a253003b95bd42dc7717
http_headers	8ae001e65df0f6363fc78e26bfb872ba45cea142bd66f10cd0e8983739da20a1
dns_responses	c84d50221d7ca5dab4ab9612c462c5be3b61f3f9e2358e48c8cc1fcba5546e10
tls_handshake	02f724b20611a9c89a884703800800701de822f84c344c0d0f6d63af05a35e7a
connectivity_log	16129bc7622473d27d2de12a56fd9b5eb26c852b20f172f9604c72f1fb7d72db
dns_resolution_times	42cc096748488aef15ad3fd7b19342f7ac066402bf78e034613c1ad3d18dc4ca

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	9.93	20.93	9.15	9.37	-0.8
Google	IPv4	32.91	34.61	21.59	28.84	-11.3
Google	IPv6	30.36	30.73	21.03	36.16	-9.3
Cloudflare	IPv4	10.51	19.9	10.04	20.62	-0.5
Cloudflare	IPv6	10.02	28.89	21.01	21.83	+11

DNS Evidence

A

```
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 18820
;; 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: 35957
;; 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. 0086397 IN DS 12981 13 2 0E20857A9A6015945406AB27C1C42C8C508547CC39C4AE6582FDBD8D 686196A6
kedah.gov.my. 0086397 IN DS 54428 13 1 FB03379DDB3E4D7C7346A026B754C716ABEE943E
kedah.gov.my. 0086397 IN DS 54428 13 2 FCFCD6FC2E466AB3E7BF2C9E9DE40E98F584D39C6EF9D6D21432A628 B921FDB7
kedah.gov.my. 0086397 IN DS 12981 13 1 C014A8D8F0CDD7BDD4F0A03ECE59F4A4CBF6B19C
```

MX

```
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 23571
;; 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: 23435
;; 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 a3-65.akam.net.
kedah.gov.my. 0086400 IN NS a20-64.akam.net.
kedah.gov.my. 0086400 IN NS a22-64.akam.net.
kedah.gov.my. 0086400 IN NS a5-65.akam.net.
kedah.gov.my. 0086400 IN NS a26-67.akam.net.
kedah.gov.my. 0086400 IN NS a1-130.akam.net.
```

TXT

```
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 42688
;; 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: 28211
;; 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. 2023061484 3600 600 604800 300
```

RRSIG

```
a1-130.akam.net. hostmaster.kedah.gov.my. 2023061484 3600 600 604800 300
SOA 13 3 1800 20260705222335 20260702212335 15843 kedah.gov.my. RUaWs1S1QidD8ru/EITaE3WZXCTWLBg+G3rNqs7chcYLMnTz6RZ8Mss pvkjKWhD4GubMk5TyqYTSrNRF8NrIw==
```

DNSKEY

```
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 18092
;; 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.0071970IN0DNSKEY0257 3 13 9o8Vxwy7xWbpeFdxM6nSy0EtQ8Kk8DbIo/Niqe9tjLtIkF0k5Ao2KZCh ib3CQ0m5iByI7DG//Ng0n/VNGnPxCQ==
kedah.gov.my.0071970IN0DNSKEY0256 3 13 4rXoqp90EL7fR91CTfn/m+Zi1g+Sqp6z2VKp8a0h8UfjU12bHqhS69qV sa4cjVx4GiZ96w36XHWxaJ2HWDt3w==
kedah.gov.my.0071970IN0DNSKEY0257 3 13 /QzD5xHA4c2FJKune9Ub/pn5NF3PIfJXr9LE45D3sq/VMHH/5UNeKJh UfBsUIz25VKFV9eAPPVzoL0YtH001A==
kedah.gov.my.0071970IN0DNSKEY0256 3 13 gE97n820ejI1tKNq24GmplIZMv18W6J1fN0NyPdBb1GnnRzksjcsYny oghv5stIgKfNDiAzPovx0Saw0YIBNw==
```

DNSSEC_VALIDATION

```
; fully validated
kedah.gov.my.0071970IN0SOA0a1-130.akam.net. hostmaster.kedah.gov.my. 2023061484 3600 600 604800 300
kedah.gov.my.0071970IN0RRSIG0SOA 13 3 1800 20260705222335 20260702212335 15843 kedah.gov.my. RUaWs1S1QidD8ru/EITaE3WZXCTWLBg+G3rNqs7chcYLMnTz6RZ8Mss
pvkjKWhD4GubMk5TyqYTSrNRF8NrIw==
```



```

044CV98NRsU213f1kScIZntNagMBAAGjggGBMIIBFTAfBgNVHSMGDAWgBRWc1hk
LfmsGrASKgRieaFAFYghSTAdBgNVH04EFgQU42Z0u3Boj5xdTg6mSo+bnYKcgpIw
DgYDVR0PAAQH/BAQDAgGGMBIGAIUdEwEB/wQIMAYBAf8CAQAwHQYDVR0LBBYwFAYI
KwYBBQUHAWEGCCsGAQUFBwMCMBSGA1UdIAQUMBIwBgYEVR0gADAIbgZngQwBAGIw
VAYDVR0fBE0wSzBjOeEgRYZDaHR0cDovL2NybzC5zZWNoawdvLmNvbS9TZWNoawdv
UHVibGljU2VydMvyQXV0aGVudGljYXRpb255b290UjQ2LmNybcDBhYIKwYBBQUH
AQEEeDB2ME8GCCsGAQUFBzAChkNodHRwOi8vY3J0LnNlY3RrZ28uY29tL1NlY3Rr
Z290dWJsaWNTZXJ2ZXJBdXR0ZW50aWNoZGlvbG93b3R5b290dWJsaWNTZXJ2ZXJ2
BzABhdodHRwOi8vb2NzcC5zZWNoawdvLmNvbTANBgkqhkiG9w0BAQwFAAOCgEA
BZxWDHWC3cubb/e1I1kz181PFiK/ZUoH09ufmV0rc50bYH/XKkKWexSPqRkWKFKr
7r80uG+p7VNB8rifX6uopqKAgsvZtZsQ7iAFw04To6vNcxeBt1Eush3cQ4b8nbQR
MQLChgEAqwhuXp9P48T4QEBSksYav7+aFjNySsLYLPzNqVM3RNwvBdvp6vgDtGwc
xLKQZVuuNViAoYyls8swhxDeSHKpRdxRauTLZ+pl+wGvy0pnrLEJGSz9m0Emfbod
e/XopR2NGqaHJ6bIjyxPu6UtyQGI26E7UAeozACRHz06Nx2jTAY9E6NeB6XuobE
wLK025ZRmvgLcURGIbrV24tGHHTGxCe8M3oGLpUSMTKQ2dkgLjZVyt+gKdFtWELZ
MuRdi+X3XsrR8LFz+aLUiDRfQqhmw3RxxjIyVKvuu9UPYYInsvxYmFnUSEM+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	35.61 ms
TTFB	701.8 ms
Total Time	701.96 ms

Response Headers:

```
{
  "0": "HTTP/1.1 301 Moved Permanently",
  "1": "Date: Fri, 03 Jul 2026 20:08:35 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, 03 Jul 2026 20:08:35 GMT",
  "10": "Server: Apache",
  "11": "Vary: accept,content-type",
  "12": "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\"),",
  "13": "X-Redirect-By: WordPress",
  "14": "Strict-Transport-Security: max-age=31536000; includeSubDomains; preload",
  "15": "X-Content-Type-Options: nosniff",
  "16": "Location: https://www.kedah.gov.my/",
  "17": "X-Frame-Options: SAMEORIGIN",
  "18": "Content-Type: text/html; charset=UTF-8",
  "20": "HTTP/1.1 200 OK",
  "21": "Date: Fri, 03 Jul 2026 20:08:35 GMT",
  "22": "Server: Apache",
  "23": "Vary: accept,content-type",
  "24": "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\"),",
  "25": "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",
  "26": "Strict-Transport-Security: max-age=31536000; includeSubDomains; preload",
  "27": "X-Content-Type-Options: nosniff",
  "28": "X-Frame-Options: SAMEORIGIN",
  "29": "Content-Type: text/html; charset=UTF-8"
}
```

IPv4 HTTPS (port 443)

HTTP Status	200
Connected IP	210.19.105.133
Connect Time	22.99 ms
TTFB	704.63 ms
Total Time	704.74 ms

Response Headers:

```
{
  "0": "HTTP/1.1 301 Moved Permanently",
  "1": "Date: Fri, 03 Jul 2026 20:08:35 GMT",
  "2": "Server: Apache",
  "3": "Vary: accept,content-type",
  "4": "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\"),",
  "5": "X-Redirect-By: WordPress",
  "6": "Strict-Transport-Security: max-age=31536000; includeSubDomains; preload",
  "7": "X-Content-Type-Options: nosniff",
  "8": "Location: https://www.kedah.gov.my/",
  "9": "X-Frame-Options: SAMEORIGIN",
  "10": "Content-Type: text/html; charset=UTF-8",
  "12": "HTTP/1.1 200 OK",
  "13": "Date: Fri, 03 Jul 2026 20:08:36 GMT",
}
```

```

"14": "Server: Apache",
"15": "Vary: accept,content-type",
"16": "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\"),
"17": "Link: <https://www.kedah.gov.my/index.php/wp-json/>; rel=\"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",
"18": "Strict-Transport-Security: max-age=31536000; includeSubDomains; preload",
"19": "X-Content-Type-Options: nosniff",
"20": "X-Frame-Options: SAMEORIGIN",
"21": "Content-Type: text/html; charset=UTF-8"
}
    
```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	301 0.011413 0.025832
TCP Connect IPv4 → port 443	301 0.010413 0.340297

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
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
    
```