

# IPv6 Readiness Report

kpkm.gov.my — kpkm.gov.my



Scan to verify

Category: Government • Generated: 13 Jun 2026, 18:44 MYT • Last Checked: 13 Jun 2026, 00:52 MYT • Verification ID: 6e2c424d-faaf-4d43-b365-05ebce5b31b1

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

Audit trail: <https://ipv6.my6.my/audit/6e2c424d-faaf-4d43-b365-05ebce5b31b1>

<p><b>X</b></p> <p><b>Non-Compliant</b></p> <p>MGv6C-1.0</p>	<p><b>42%</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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<p><b>IPv4 ADDRESSES</b></p> <p>203.217.177.60</p>
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## Network Information (WHOIS / RDAP)

IPv4 Network	
Organization	JAKIM
Country	MY
ASN	AS17564
ASN Name	GITN-PCN-AS-AP - GITN (M) Sdn. Bhd., MY
Network (CIDR)	203.217.177.55/32

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%)				3 / 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	FAIL	Nameserver does not answer queries 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	<b>Signing Algorithm</b>	<b>INFO</b>	RSASHA256

**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>	No common DKIM selector found.
7	<b>DMARC Record</b>	<b>PASS</b>	DMARC record found.

**IPv4 Baseline** (15%) 2 / 3

#	CHECK	RESULT	DETAIL
1	<b>A Record</b>	<b>PASS</b>	203.217.177.60
2	<b>HTTP over IPv4</b>	<b>FAIL</b>	HTTP is not accessible over IPv4.
3	<b>HTTPS over IPv4</b>	<b>PASS</b>	HTTPS (port 443) responds over IPv4 — 723ms TTFB.

### Audit Trail & Evidence Record

Verification ID	6e2c424d-faaf-4d43-b365-05ebce5b31b1
Domain	kpkm.gov.my
Check Mode	Scheduled
Status	Completed
Started	13 Jun 2026, 00:50:44 MYT
Finished	13 Jun 2026, 00:52:24 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/6e2c424d-faaf-4d43-b365-05ebce5b31b1

### Integrity Verification

<p><b>✓ INTEGRITY VERIFIED</b></p>	
Algorithm	hmac-sha256-v1
Root Hash	93cb0614833c38b0a1c51773cde30743a78be71fb5fe4f5257d00d4f057f9569
http_headers	7e5735345031b29441b5f1271d524a8d7a7e9dadb32751195ec347e272185f46
dns_responses	f47965bb7c83e0fcff5e569929599d8b304cd68537d140f4d083bc574a5972ae
tls_handshake	9da3217086001f4512c7a46b787fd1b622e6bbc6b7a95e6863553f36745ec1f6
connectivity_log	fdaab1618ee8ba4830d7225b1bf70d8a4d59a48dda5c7382cfc20c67c945661d
dns_resolution_times	c37c46df09fbc3948435992713d7968fe6d32ca3b4bfce45f7564f16042e0bea

### 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	21.95	24.32	18.95	21.65	-3
Google	IPv4	41.34	53.04	47.05	56.52	+5.7
Google	IPv6	46.83	54.66	30.72	46	-16.1
Cloudflare	IPv4	24.78	27.42	20.04	23.55	-4.7
Cloudflare	IPv6	52.76	65.04	52.38	55.51	-0.4



**DNS Evidence**

**A**

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 63096
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
kpk.gov.my. IN NS dns1.gitn.net.my. planning.gitn.com.my. 2026051319 10800 3600 604800 38400
```

**DS**

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 51464
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
kpk.gov.my. IN DS 58582 8 2 F64AAD258A3F056FA8C77C6E71154FF20D52DB7C380DD0258F10EE67 9B67D6FC
kpk.gov.my. IN DS 58582 8 1 2148B52CF48A2A9CFD98A02D56F4611121AE83B5
```

**MX**

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 13402
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 5, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
kpk.gov.my. IN MX 10 alt3.aspmx.l.google.com.
kpk.gov.my. IN MX 10 alt4.aspmx.l.google.com.
kpk.gov.my. IN MX 5 alt2.aspmx.l.google.com.
kpk.gov.my. IN MX 5 alt1.aspmx.l.google.com.
kpk.gov.my. IN MX 1 aspmx.l.google.com.
```

**NS**

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 33368
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
kpk.gov.my. IN NS dns2.gitn.net.my.
kpk.gov.my. IN NS dns1.gitn.net.my.
```

**TXT**

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 55802
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 8, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
kpk.gov.my. IN TXT "google-site-verification=68IGUmAid19o6MSIYEcI76L_V5xSwX3yn3Eb3DM_PDE"
kpk.gov.my. IN TXT "_globalsign-domain-verification=VeEFkH4TwmfWcSPqS_PJDDJ1nzcrgfNjp8LFhwMMbi"
kpk.gov.my. IN TXT "6fmn2usqSfq4/e6ryhJW/WUuIiodyoKC1KqXVqyrwvg="
kpk.gov.my. IN TXT "v=spf1 ip4:103.8.147.12/30 ip4:219.92.54.177/32 ip4:103.156.82.32/29 ip4:103.156.83.32/29 include:_spf.google.com ~all"
kpk.gov.my. IN TXT "_globalsign-domain-verification=J6Rt3mBZve7rEr8d3fcZzkhbIB0_qG0CfG5d8nD5bh"
kpk.gov.my. IN TXT "MS=ms37233412"
kpk.gov.my. IN TXT "VeEFkH4TwmfWcSPqS_PJDDJ1nzcrgfNjp8LFhwMMbi"
kpk.gov.my. IN TXT "MS=12D6322BEBE8739CEECBCD658BB15916284DB5A"
```

**AAAA**

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 36384
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
```

```
;; AUTHORITY SECTION:
kpkm.gov.my. 3600 IN SOA dns1.gitn.net.my. planning.gitn.com.my. 2026051319 10800 3600 604800 38400
```

RRSIG

```
dns1.gitn.net.my. planning.gitn.com.my. 2026051319 10800 3600 604800 38400
SOA 8 3 3600 20260712163336 20260612153336 426 kpkm.gov.my. Liv7y3Ll9FwoLdBWLG0XLBECujG9g0JWZfS0s5Kk8B8ndTi/faZECqq9d
fq7FFGwoDsm5wPNltSckTRNVtC1c8XMm0fcQ6byiNSYlc50MTRYaQ54j 9BsD72fbBXy3JWt0bR+/vyyWwpXihUG5FUw/FZ8bpo7THCeuLw5SLunE XG0=
```

DNSKEY

```
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 51989
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
kpkm.gov.my. 3600 IN DNSKEY 256 3 8 AwEAAAbMeb6LwNPwES38DImC8POU9IV06ZKazK3bAw0DJHmTx9KWzWlZ2 WwE6g60mXfX0N6y6Ux4BU2g9kNG7UTzMHUNculthVksL4KfhXP8HrjCu
SmQwKZFv3KkpjjMsu9Jow30pq/pkVF60jng9mzfzxBZB2k1o7nNmTwpE FGHUPjwd
kpkm.gov.my. 3600 IN DNSKEY 257 3 8 AwEAAc9BcRvfaP9i2jMjE9vj0FG21IvIfGM7zVTdxAb5wHVC/teZLHQV B7GevybaYgXBxaGETiQBnv0MaJHTNpkJk1ahfyiR7baD+fEcJCfkt/m
MkUJFVLoeVvtBw/4wylteomfj8AtKMRPt8mv9/AcCdYIANELazuv1jha BJvfLjwmh8eQjMIUUGE0MRZMAwca1YyKwo7dy4o8UmUIZ75t24FjwW/g
50KZXiVGWyt2t8Nvs7B/YZPBFHj07hp2ORS0Nv8aoRabKlwrVhR0hhwGJ kMY/chjGX/USWJRmnjCZ8HmhdD0WeYHobbW/nwLGI/FN12C45Ryf91tG 2kNFIw0n4sk=
```

DNSSEC\_VALIDATION

```
; fully validated
kpkm.gov.my. 3600 IN SOA dns1.gitn.net.my. planning.gitn.com.my. 2026051319 10800 3600 604800 38400
kpkm.gov.my. 3600 IN RRSIG SOA 8 3 3600 20260712163336 20260612153336 426 kpkm.gov.my. Liv7y3Ll9FwoLdBWLG0XLBECujG9g0JWZfS0s5Kk8B8ndTi/faZECqq9d
fq7FFGwoDsm5wPNltSckTRNVtC1c8XMm0fcQ6byiNSYlc50MTRYaQ54j 9BsD72fbBXy3JWt0bR+/vyyWwpXihUG5FUw/FZ8bpo7THCeuLw5SLunE XG0=
```



TLS Handshake Evidence

IPV4 Connection

IP Used	203.217.177.60
IP Version	4

```

depth=2 OU = GlobalSign Root CA - R3, O = GlobalSign, CN = GlobalSign
verify return:1
depth=1 C = BE, O = GlobalSign nv-sa, CN = GlobalSign RSA OV SSL CA 2018
verify return:1
depth=0 C = MY, ST = Putrajaya, L = Putrajaya, O = KEMENTERIAN PERTANIAN DAN KETERJAMINAN MAKANAN, CN = *.kpk.gov.my
verify return:1
CONNECTED(00000010)
---
Certificate chain
0 s:C = MY, ST = Putrajaya, L = Putrajaya, O = KEMENTERIAN PERTANIAN DAN KETERJAMINAN MAKANAN, CN = *.kpk.gov.my
i:C = BE, O = GlobalSign nv-sa, CN = GlobalSign RSA OV SSL CA 2018
a:PKKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA256
v:NotBefore: Jun 3 01:06:07 2025 GMT; NotAfter: Jul 5 01:06:06 2026 GMT
-----BEGIN CERTIFICATE-----
MIIGs3CCBZqgAwIBAgIMQZtAxvvykvs9qE8NMA0GCSqGSIb3DQEBwUAMFAxZAJ
BgNVBAYTAkZFRMRkwFwYDQoKEjBhG9iYXwTaWduIFJ0S0EgMjAxODAEFw0yNTA2MDMwMTA2MDdaFw0y
NjA3MDUwMTA2MDZaMIGGMQswCQYDVQGEWJNWTESMBAGA1UECBMjUHV0cmFqYXl0
MRlWAEYDVQHEwLQdXRyYWpweWExNzA1BgNVBAoTLktFTU0V0EVSUFO1FBFULRB
TkltBTiBEQU4gS0VURVJKQU1JTkF0IE1BS0F0Q04xZjAUBG9NBAMMDSoua3BrbS5n
b3YubXkwggEiMA0GCSqGSIb3DQEBAQUAAIBDwAwggEKAoIBAQEIEINKVrTjz+X
NgydnAmhGx8vr0FsRyN8VBe++J+GpC0bqy90zQR/sjeNzy7bkvtL1UbjfF0ikf4
rX+vfAUQxQBtcS1z9ao0IHFy01sv5ZE04eN9f/DtFXMsBjFEmCne6AhG2vucERCh
t0sxiTB3uYrWwVTJmQeQJ01ppgErt6LxwP+eJvsL0HoIDshHnqsIoUYjZ2Y6D79
mg1xTC0hayGTzHZVJf1D4K8oy0xHgJwdwM30h6AD5IUJbkuULkvSID3H61yoCUPM
By5VhXw/AGWEeNddoqCTyZLVo0/o715/hJQ33kp208h2xTC9G+Qocloh2yIYbK
zPLIXXvAgMBAAGgggNTMIIDTzA0BgNVHQ8BAf8EBAMCBaAwDAYDVR0TAQH/BAU
ADCbjgYIKwYBBQUHAQEgYEWfzBEggRbGEBFQcwoAoY4aHR0cDovL3NlY3VyZS5n
bG9iYXwzaWduLmNvbS9jYWNlcnQvZ3Nyc2FvdnNzbnGhMjAxOC5jcnQwNwYIKwYB
BOUHMAGGK2h0dHA6Ly9vY3NwLmLmdsb2JhbHNpZ24uY29tL2dzc2Zzc2JjYTYy
MTgVgYDVR0gBE8wTTBBBgkrBgEEAAyARQWDAyBggRbGEBFQcCARYmaHR0cHM6
Ly93d3cuZ2xvYmFsc2lnbi5jb20vcmlvd3NpdG9yeS8wCAYGZ4EMAQICMD8GA1Ud
HwQ4MDYwNkA0DGLmh0dHA6Ly9jcmwwZ2xvYmFsc2lnbi5jb20vZ3Nyc2FvdnNz
bnGhMjAxOC5jcmwwJQYDVR0RBBAwHINKi5rcGttLmdvdi5teYILa3BrbS5nb3Yu
bXkwHQYDVR0LBBYwFAIKwYBBQUHAwEGCCsGAQUFBwMCMCB8GA1UdIwQYMBaAFFjv
f/LNeGeo3m+PJi2I8YcDARPrMB0GA1UdDgQWBWtq6q/PI0C7ACheDQlSxeCpm5I8
PDCCAX0GCSGAQQB1nkCBAIEggfTBIIBaQFNhUAhYzj3FYl8hKFEF1vB3fvJbvKa
wLHCmkFhbdLFMMUW0cAAAGM1MYHwAABAMARjBEA1Bgg7fngkG3P6cXpV8vplCn
4+uTDf048a8yMQYRiFwxIUA7IhZA1krCN68LNBhuW5vDMz8zhTVsAEHDMGJW
LHYAdgDCMX5XRrmjRe5/ON6ykEHRx8IhWiK/f9W1rXaa2Q5S2QAAAzcUxmZAAAE
AwBHMEUCIH9vgEaDU0001GPIEPk+uBZiHLqDEH+dxtC2ryzo4uAIEA020Y5sqW
WK3i0AtBhBfmbvsAWBLya2Iw44U5G0CE6VMAdgUcSGKsNBXxHvgrAQ0Hyy8jcn1
cnvJUIKUmEmhjunPAAAAZczUxn0AAAEAwBHMEUCIBjhm1nKFNT/rrj57LnX7Kt
r+3uEOP+kFvp+jnQhB1AIEAxrdlyDsSxjFFL0UzjSVhutFmaMiBAGbp61HVWt+
3AwDDQJKoZiHvcNAQELBQADggEBABU9z7Yb8jFGLWos3f5hZ4abmsw+Hj2fZB1
U4rSDpHTK3Iz5zykMYQfivZomCyCEKD6F11gsF8wLLK/sd/0ZKzRFFCcfo0DPohD
rcb3ZGNuk3wkV234cewf4R1T7e2N9owWYToaQuJr0J5W2srNlksvbwUgp95i2t58Xa
LRezq54fscA/0h+y/b6H80VjJvtbY5+yDMXKATVY4bDZ5zeUxyWuihGiUzQvos
h76KR2duLAZzI3srsNyZSTJ3G6hZL55Bkvfmc3n5FLXIL4BZwGpeMRLFktLcUD5
Lqf8xHEZKJt4dBj0P5rc6l9JNZkqoMRR9n8Gocn+KJ3XT54d85Y=
-----END CERTIFICATE-----
1 s:C = BE, O = GlobalSign nv-sa, CN = GlobalSign RSA OV SSL CA 2018
i:O = GlobalSign Root CA - R3, O = GlobalSign, CN = GlobalSign
a:PKKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA256
v:NotBefore: Nov 21 00:00:00 2018 GMT; NotAfter: Nov 21 00:00:00 2028 GMT
-----BEGIN CERTIFICATE-----
MIIEtjCCAzagAwIBAgINAe5fIh38YjvUmzqFVzANBgkqhkiG9w0BAQsFADBMMSAw
HgYDVQQLExdHbG9iYXwTaWduIFJ0S0EgMjAxODAEFw0yNTA2MDMwMTA2MDdaFw0y
U2lnbjETMBEGA1UEAxMKR2xvYmFsc2lnbi5jb20vcmlvd3NpdG9yeS8wCAYGZ4EMAQ
MjEwMDAwMDBaMFAXCzAJBgNVBAYTAkZFRMRkwFwYDQoKEjBhG9iYXwTaWduIFJ0S0
EgMjAxODAEFw0yNTA2MDMwMTA2MDdaFw0yNTA2MDMwMTA2MDdaFw0yNTA2MDMwMTA
2MDZaMIGGMQswCQYDVQGEWJNWTESMBAGA1UECBMjUHV0cmFqYXl0MRlWAEYDVQHE
wLQdXRyYWpweWExNzA1BgNVBAoTLktFTU0V0EVSUFO1FBFULRBTkltBTiBEQU4gS0
VURVJKQU1JTkF0IE1BS0F0Q04xZjAUBG9NBAMMDSoua3BrbS5nb3YubXkwggEiMA
0GCSqGSIb3DQEBAQUAAIBDwAwggEKAoIBAQEIEINKVrTjz+XNgydnAmhGx8vr0FsRy
N8VBe++J+GpC0bqy90zQR/sjeNzy7bkvtL1UbjfF0ikf4rX+vfAUQxQBtcS1z9ao0
IHFy01sv5ZE04eN9f/DtFXMsBjFEmCne6AhG2vucERCht0sxiTB3uYrWwVTJmQeQJ
01ppgErt6LxwP+eJvsL0HoIDshHnqsIoUYjZ2Y6D79mg1xTC0hayGTzHZVJf1D4K8
oy0xHgJwdwM30h6AD5IUJbkuULkvSID3H61yoCUPMBy5VhXw/AGWEeNddoqCTyZL
Vo0/o715/hJQ33kp208h2xTC9G+Qocloh2yIYbKzPLIXXvAgMBAAGgggNTMIIDTz
A0BgNVHQ8BAf8EBAMCBaAwDAYDVR0TAQH/BAUADCbjgYIKwYBBQUHAQEgYEWfzBE
ggRbGEBFQcwoAoY4aHR0cDovL3NlY3VyZS5nbG9iYXwzaWduLmNvbS9jYWNlcnQv
Z3Nyc2FvdnNzbnGhMjAxOC5jcnQwNwYIKwYBBQUHAwEGCCsGAQUFBwMCMCB8GA1Ud
IwQYMBaAFFjvLfLNeGeo3m+PJi2I8YcDARPrMB0GA1UdDgQWBWtq6q/PI0C7ACheD
QlSxeCpm5I8PDCCAX0GCSGAQQB1nkCBAIEggfTBIIBaQFNhUAhYzj3FYl8hKFEF1v
B3fvJbvKawLHCmkFhbdLFMMUW0cAAAGM1MYHwAABAMARjBEA1Bgg7fngkG3P6cXp
V8vplCn4+uTDf048a8yMQYRiFwxIUA7IhZA1krCN68LNBhuW5vDMz8zhTVsAEHDM
GJW LHYAdgDCMX5XRrmjRe5/ON6ykEHRx8IhWiK/f9W1rXaa2Q5S2QAAAzcUxmZAA
AEAwBHMEUCIH9vgEaDU0001GPIEPk+uBZiHLqDEH+dxtC2ryzo4uAIEA020Y5sqW
WK3i0AtBhBfmbvsAWBLya2Iw44U5G0CE6VMAdgUcSGKsNBXxHvgrAQ0Hyy8jcn1
cnvJUIKUmEmhjunPAAAAZczUxn0AAAEAwBHMEUCIBjhm1nKFNT/rrj57LnX7Ktr+3
uEOP+kFvp+jnQhB1AIEAxrdlyDsSxjFFL0UzjSVhutFmaMiBAGbp61HVWt+3AwDD
QJKoZiHvcNAQELBQADggEBABU9z7Yb8jFGLWos3f5hZ4abmsw+Hj2fZB1U4rSDpHT
K3Iz5zykMYQfivZomCyCEKD6F11gsF8wLLK/sd/0ZKzRFFCcfo0DPohDrcb3ZGNu
k3wkV234cewf4R1T7e2N9owWYToaQuJr0J5W2srNlksvbwUgp95i2t58XaLRezq5
4fscA/0h+y/b6H80VjJvtbY5+yDMXKATVY4bDZ5zeUxyWuihGiUzQvos h76KR2du
LAZzI3srsNyZSTJ3G6hZL55Bkvfmc3n5FLXIL4BZwGpeMRLFktLcUD5Lqf8xHEZKJ
t4dBj0P5rc6l9JNZkqoMRR9n8Gocn+KJ3XT54d85Y=
-----END CERTIFICATE-----
MIIEtjCCAzagAwIBAgINAe5fIh38YjvUmzqFVzANBgkqhkiG9w0BAQsFADBMMSAw
HgYDVQQLExdHbG9iYXwTaWduIFJ0S0EgMjAxODAEFw0yNTA2MDMwMTA2MDdaFw0y
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EgMjAxODAEFw0yNTA2MDMwMTA2MDdaFw0yNTA2MDMwMTA2MDdaFw0yNTA2MDMwMTA
2MDZaMIGGMQswCQYDVQGEWJNWTESMBAGA1UECBMjUHV0cmFqYXl0MRlWAEYDVQHE
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VURVJKQU1JTkF0IE1BS0F0Q04xZjAUBG9NBAMMDSoua3BrbS5nb3YubXkwggEiMA
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ggRbGEBFQcwoAoY4aHR0cDovL3NlY3VyZS5nbG9iYXwzaWduLmNvbS9jYWNlcnQv
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QlSxeCpm5I8PDCCAX0GCSGAQQB1nkCBAIEggfTBIIBaQFNhUAhYzj3FYl8hKFEF1v
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-----END CERTIFICATE-----

```

```
b20vcmVwb3NpdG9yeS8wDQYJKoZIhvcNAQELBQADggEBAJmQyC1fQorUC2bbmANz
EdSIhLIoU4r7rd/9c446ZwTbw1MUcBQJfMPg+NccmBqixD7b6QDjynCy8SIwIVbb
0615XoFYC20UgDX1b10d65pHBf9ZjQCxQNqQmJYaumxtf4z1s4dfjGRzNpZ5eWl0
6r/4ngGPoJVpjemEuunl1Iig423g7mNA2eymw0LIYkN5S0wCuaiFIFJ6GLazhgDEw
fpoLu4usBC0mmQDo8dIm7A9+04orkjgTHY+GzYZSR+Y0fFukAj6KYXwidlNaLFMz
hriSqHkvoFlShx8xpfywgVcvzft03PYkz6fiNJBonf6q8amaEsybwMbdqKwIX7e
SPY=
-----END CERTIFICATE-----
---
Server certificate
subject=C = MY, ST = Putrajaya, L = Putrajaya, O = KEMENTERIAN PERTANIAN DAN KETERJAMINAN MAKANAN, CN = *.kpkm.gov.my
issuer=C = BE, O = GlobalSign nv-sa, CN = GlobalSign RSA OV SSL CA 2018
---
No client certificate CA names sent
Peer signing digest: SHA256
Peer signature type: RSA-PSS
Server Temp Key: ECDH, prime256v1, 256 bits
---
SSL handshake has read 3505 bytes and written 439 bytes
Verification: OK
---
New, TLSv1.2, Cipher is ECDHE-RSA-AES256-GCM-SHA384
Server public key is 2048 bit
Secure Renegotiation IS supported
Compression: NONE
Expansion: NONE
No ALPN negotiated
```

## HTTP Response Evidence

### IPv4 HTTP (port 80)

HTTP Status	0
Connected IP	203.217.177.60
Connect Time	5.39 ms
TTFB	0 ms
Total Time	10002.96 ms
Error	Operation timed out after 10002 milliseconds with 0 bytes received

### IPv4 HTTPS (port 443)

HTTP Status	200
Connected IP	203.217.177.60
Connect Time	6.1 ms
TTFB	477.21 ms
Total Time	477.34 ms

### Response Headers:

```
{
  "0": "HTTP/1.1 301 Moved Permanently",
  "1": "Date: Fri, 12 Jun 2026 16:52:23 GMT",
  "2": "Server: Apache",
  "3": "X-Powered-By: PHP/8.3.28",
  "4": "Cache-Control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0",
  "5": "Expires: Wed, 17 Aug 2005 00:00:00 GMT",
  "6": "Pragma: no-cache",
  "7": "X-Content-Type-Options: nosniff",
  "8": "Strict-Transport-Security: max-age=63072000; includeSubDomains; preload",
  "9": "Permissions-Policy: geolocation=(self), camera=(), microphone=()",
  "10": "Set-Cookie: 314bf9e42f449b71d9222f12a14cbe0d=437tdulgl4qr124qligbmdaigq; path=/; HttpOnly;HttpOnly;Secure",
  "11": "Upgrade: h2,h2c",
  "12": "Connection: Upgrade",
  "13": "Location: https://kpk.gov.my/bm/",
  "14": "Last-Modified: Fri, 12 Jun 2026 16:52:23 GMT",
  "15": "Content-Type: text/html; charset=utf-8",
  "16": "Set-Cookie: cookiesession1=678B28BFD35566138067B31593C8859;Expires=Sat, 12 Jun 2027 16:52:23 GMT;Path=/;HttpOnly",
  "17": "X-Frame-Options: SAMEORIGIN",
  "18": "X-XSS-Protection: 1; mode=block",
  "19": "Content-Security-Policy: upgrade-insecure-requests",
  "21": "HTTP/1.1 200 OK",
  "22": "Date: Fri, 12 Jun 2026 16:52:23 GMT",
  "23": "Server: Apache",
  "24": "X-Powered-By: PHP/8.3.28",
  "25": "Expires: Wed, 17 Aug 2005 00:00:00 GMT",
  "26": "Cache-Control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0",
  "27": "Pragma: no-cache",
  "28": "X-Content-Type-Options: nosniff",
  "29": "Strict-Transport-Security: max-age=63072000; includeSubDomains; preload",
  "30": "Permissions-Policy: geolocation=(self), camera=(), microphone=()",
  "31": "Set-Cookie: 314bf9e42f449b71d9222f12a14cbe0d=km2sm3crnaq6eslaenii0sup3b; path=/; HttpOnly;HttpOnly;Secure",
  "32": "Last-Modified: Fri, 12 Jun 2026 16:52:23 GMT",
  "33": "Content-Type: text/html; charset=utf-8",
  "34": "X-Frame-Options: SAMEORIGIN",
  "35": "X-XSS-Protection: 1; mode=block",
  "36": "Content-Security-Policy: upgrade-insecure-requests"
}
```

## Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	302 0.011210 0.018101
TCP Connect IPv4 → port 443	301 0.005768 0.189339

**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
```