IPv6 Readiness Report

dosm.gov.my — dosm.gov.my

Scan to verify

Category: Government • Generated: 02 Nov 2026, 03:12 MYT • Last Checked: 08 Aug 2026, 18:24 MYT • Verification ID: 297792a9-5c3a-456d-ae35-00eba2a3724f
Report generated from National IPv6 Readiness Monitor — https://ipv6.my6.my
Audit trail: https://ipv6.my6.my/audit/297792a9-5c3a-456d-ae35-00eba2a3724f

✗
Non-Compliant
MGv6C-1.0

43%
No IPv6 Support

IPV6-ONLY READINESS
Website: ✗ **Not Ready**
DNS: ✓ **Ready**
Email: ✗ **Not Ready**

IPV4 ADDRESSES
202.75.7.189

Network Information (WHOIS / RDAP)

	IPv4 Network
Organization	GITN Sdn. Bhd.
Country	MY
ASN	AS17564
ASN Name	GITN-PCN-AS-AP - GITN (M) Sdn. Bhd., MY
Network (CIDR)	202.75.4.0/22

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	RSASHA256

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	DKIM selector found: default._domainkey
7	**DMARC Record**	PASS	DMARC record found.

IPv4 Baseline (15%) 2 / 3

#	CHECK	RESULT	DETAIL
1	**A Record**	PASS	202.75.7.189
2	**HTTP over IPv4**	FAIL	HTTP is not accessible over IPv4.
3	**HTTPS over IPv4**	PASS	HTTPS (port 443) responds over IPv4 — 97ms TTFB.

Audit Trail & Evidence Record

Verification ID	297792a9-5c3a-456d-ae35-00eba2a3724f
Domain	dosm.gov.my
Check Mode	Manual
Status	Completed
Started	08 Aug 2026, 18:24:12 MYT
Finished	08 Aug 2026, 18:24:41 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/297792a9-5c3a-456d-ae35-00eba2a3724f

Integrity Verification

✓ **INTEGRITY VERIFIED**

Algorithm	hmac-sha256-v1
Root Hash	23104bbd3c988d67aaba8d9f9c9e69c4ec6131c989673b067b440e1346a734d2
http_headers	4ad732d8dfab4b05e812f7bcd61fd36185fe47098ea97820c07b03f56dc125da
dns_responses	0c23f6d72464360e7ba04b84b66217e32bd9ce49707b5fcd0f42f084fa6041ae
tls_handshake	f8d35f67fded6a6b878094a82633ad04b6a2aeec831d88148ad2817780d43dc3
connectivity_log	0f649a0142fcba9447e97fb0a701b15f61fba203dd12e44af78fdb1687078df1
dns_resolution_times	4e16c91b1d1b3ea51f23133c45f7f9862e8314de3cfc6afde484062e501a157a

Test Node Identity

Os	Linux srv1440888 6.8.0-136-generic #136-Ubuntu SMP PREEMPT_DYNAMIC Wed Jul 1 21:53:05 UTC 2026 x86_64
Hostname	srv1440888
Php Version	8.3.33
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	28.76	31.16	24.81	25.31	-4
Google	IPv4	87.02	89.28	164.39	167.76	+77.4
Google	IPv6	157.97	158.03	79.2	161.76	-78.8
Cloudflare	IPv4	22.34	24.78	22.84	23.27	+0.5
Cloudflare	IPv6	44.17	56.39	39.74	44.61	-4.4

DNS Evidence

A

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 22620
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
dosm.gov.my.	3600	IN	A	202.75.7.189
```

DS

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 17354
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
dosm.gov.my.	59341	IN	DS	46300 8 1 710FC1207BB4833A28C19C6D23B227C5991649F1
dosm.gov.my.	59341	IN	DS	46300 8 2 30008C5FA7B0E4D5F5F4C9F0273B072BA568B17F6167D2B4CCCE3799 D85EE855
```

MX

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 49180
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
dosm.gov.my.	3600	IN	MX	10 isvw1.dosm.gov.my.
dosm.gov.my.	3600	IN	MX	20 isvw2.dosm.gov.my.
dosm.gov.my.	3600	IN	MX	5 spass.dosm.gov.my.
```

NS

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 28804
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
dosm.gov.my.	3600	IN	NS	dns1.gitn.net.my.
dosm.gov.my.	3600	IN	NS	dns2.gitn.net.my.
```

TXT

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 2787
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 5, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
dosm.gov.my.	3600	IN	TXT	"MS=54E2E8B27824DE160D2491EA65D0454CD9CC7A27"
dosm.gov.my.	3600	IN	TXT	"globalsign-domain-verification=Q48QXNr3jd_77eY9s1mVLcgbiAe4CQGfnvMJLyhRmQ"
dosm.gov.my.	3600	IN	TXT	"globalsign-domain-verification=O2t2mJwJwL8GDqIpdbt-KMW_4oIm-dOA-ggUw3Do1f"
dosm.gov.my.	3600	IN	TXT	"v=spf1 mx a:mail.dosm.gov.my a:spass.dosm.gov.my a:relay.dosm.gov.my a:mta.sprm.gov.my ip4:150.242.181.69 -all"
dosm.gov.my.	3600	IN	TXT	"86S-t71-h16"
```

AAAA

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 48809
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; AUTHORITY SECTION:
dosm.gov.my.	3600	IN	SOA	dns1.gitn.net.my. planning.gitn.com.my. 2026072499 10800 3600 604800 38400
```

RRSIG

```
dns1.gitn.net.my. planning.gitn.com.my. 2026072499 10800 3600 604800 38400
```

```
SOA 8 3 3600 20260907062529 20260808052529 58104 dosm.gov.my. UHtPFw9ohjOkgIJv1q7IzZ5yQGgii7OwgHhNjd6chXDjRiJwMqtBG6Yc
7UdQq3rdYHy9f8kpx73jRAz1gs5wfv2XN6+53sguphezTYbs+2hf9Xbp QMMQLeXtCBpsrF8iXHViX0Toi+aLQuz22FMvzcUEiTB+hd7mFqSFO+NO aOI=
```

DNSKEY

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 8151
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; ANSWER SECTION:
dosm.gov.my.□□3589□IN□DNSKEY□257 3 8 AwEAAcsB95cSQLSfYLxNg3id1vjPsXAEApvTyMp8LtSR/Xql20gmw+MG lXvfTeoo8zg/kbfufRZJeBmr547zH1QBnjvklTLPbv0m3pTCvbZtzIzB
r9ka91kOkLOgDMw8mxXmDiMNjf5oyTJxTCednzWIJMy1ZOsKkqYzyHoo 6CC0/EDqZNkoxdcGlN2vQKruEJNnYqZJ2UtnVT+CkdF3G+Gh79F8utCO
j3Y5lCzYEJeEoPpkxST3bzS0kGdTzyBHryK1G/NQ9tWZcXMnMCrsD6CL gCu0n+H0IXcbrT/0X5Qs1hpoSub954EPpUAjBt3C0kO3t9N9NdBinXN4 aPMGlZKHgAs=
dosm.gov.my.□□3589□IN□DNSKEY□256 3 8 AwEAAaYDbkOAQk8BZ/olNTg6ZvmdwfA4EgrmaPU0X2oKj315p/K/14fR 5hDhrTUBajB+fyPpA4u3L48U69y11TcyBELA8+LQ2z+Jyzlp6RoPRIZ1
3FZ17+l0MnAJetYNPK5Msnqo4Zs3/ptsBGDQ5z9Zb9RjiXZKGAAPN8rH WlhTfYMR
```

DNSSEC_VALIDATION

```
; fully validated
dosm.gov.my.□□3589□IN□SOA□dns1.gitn.net.my. planning.gitn.com.my. 2026072499 10800 3600 604800 38400
dosm.gov.my.□□3589□IN□RRSIG□SOA 8 3 3600 20260907062529 20260808052529 58104 dosm.gov.my. UHtPFw9ohjOkgIJv1q7IzZ5yQGgii7OwgHhNjd6chXDjRiJwMqtBG6Yc
7UdQq3rdYHy9f8kpx73jRAz1gs5wfv2XN6+53sguphezTYbs+2hf9Xbp QMMQLeXtCBpsrF8iXHViX0Toi+aLQuz22FMvzcUEiTB+hd7mFqSFO+NO aOI=
```

TLS Handshake Evidence

IPV4 Connection

IP Used	202.75.7.189
IP Version	4

```
depth=0 C = MY, ST = Putrajaya, L = Putrajaya, O = Jabatan Perangkaan Malaysia, CN = *.dosm.gov.my
verify error:num=20:unable to get local issuer certificate
verify return:1
depth=0 C = MY, ST = Putrajaya, L = Putrajaya, O = Jabatan Perangkaan Malaysia, CN = *.dosm.gov.my
verify error:num=21:unable to verify the first certificate
verify return:1
depth=0 C = MY, ST = Putrajaya, L = Putrajaya, O = Jabatan Perangkaan Malaysia, CN = *.dosm.gov.my
verify return:1
CONNECTED(00000010)
---
Certificate chain
 0 s:C = MY, ST = Putrajaya, L = Putrajaya, O = Jabatan Perangkaan Malaysia, CN = *.dosm.gov.my
   i:C = BE, O = GlobalSign nv-sa, CN = GlobalSign RSA OV SSL CA 2018
   a:PKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA256
   v:NotBefore: Jan 12 09:42:04 2026 GMT; NotAfter: Feb 13 09:42:03 2027 GMT
-----BEGIN CERTIFICATE-----
MIIGnjCCBYagAwIBAgIMTP41wllv0BrXFz/gMA0GCSqGSIb3DQEBCwUAMFAxCzAJ
BgNVBAYTAkJFMRkwFwYDVQQKExBHbG9iYWxTaWduIG52LXNhMSYwJAYDVQQDEx1H
bG9iYWxTaWduIFJTQSBPViBTU0wgQ0EgMjAxODAeFw0yNjAxMTIwOTQyMDRaFw0y
NzAyMTMwOTQyMDNaMHMxCzAJBgNVBAYTAk1ZMRIwEAYDVQQIEwlQdXRyYWpheWEx
EjAQBgNVBAcTCVB1dHJhamF5YTEkMCIGA1UEChMbSmFiYXRhbiBQZXJhbmdrYWFu
IE1hbGF5c2lhMRYwFAYDVQQDDA0qLmRvc20uZ292Lm15MIIBIjANBgkqhkiG9w0B
AQEFAAOCAQ8AMIIBCgKCAQEAspSVddPCcy+GbioiAJosn7G/ovIVGSxvy8xfDBr+
xFP1X9hxnzltmBhbO011MftMBobZluueGCXg083DCaUft5/sRBHGr+iXttWng69c
QyjND6GysA6H7hNdeLA8+e6e0+pYrfF0vPN1CRtF8TttZXALTCTfTeAUujybYBWy
FHG/JQZ9I64c07N6KpJGvMNVanNH5XCs5x4FNJ5wYASwyg2XDkSznf5UGT69e0oz
A+F7ij0wyGNP4Y9OJA5WqFtuGhIygP0qN/1SLPVh3eoeXr5VDHuNnI8vC1lo86CD
z0IWQRRxhu01iHGiIuSguu+n71c+V1MzX9T8oEEj0ONE9QIDAQABo4IDUzCCA08w
DgYDVR0PAQH/BAQDAgWgMAwGA1UdEwEB/wQCMAAwgY4GCCsGAQUFBwEBBIGBMH8w
RAYIKwYBBQUHMAKGOGh0dHA6Ly9zZWN1cmUuZ2xvYmFsc2lnbi5jb20vY2FjZXJ0
L2dzcnNhb3Zzc2xjYTIwMTguY3J0MDcGCCsGAQUFBzABhitodHRwOi8vb2NzcC5n
bG9iYWxzaWduLmNvbS9nc3JzYW92c3NsY2EyMDE4MFYGA1UdIARPME0wQQYJKwYB
BAGgMgEUMDQwMgYIKwYBBQUHAgEWJmh0dHBzOi8vd3d3Lmdsb2JhbHNpZ24uY29t
L3JlcG9zaXRvcnkvMAgGBmeBDAECAjA/BgNVHR8EODA2MDSgMqAwhi5odHRwOi8v
Y3JsLmdsb2JhbHNpZ24uY29tL2dzcnNhb3Zzc2xjYTIwMTguY3JsMCUGA1UdEQQe
MByCDSouZG9zbS5nb3YubXmCC2Rvc20uZ292Lm15MB0GA1UdJQQWMBQGCCsGAQUF
BwMBBggrBgEFBQcDAjAfBgNVHSMEGDAWgBT473/yzXhnqN5vjySNiPGHAwKz6zAd
BgNVHQ4EFgQUzZy+6hNF0WZjRH4+bRooC1DC8QwwggF9BgorBgEEAdZ5AgQCBIIB
bQSCAWkBZwB3AByfaCzp+vBFaVD4G5aKh93bMhDYTObIsuOCUkrEz1mfAAABm7GV
pNkAAAQDAEgwRgIhANsF9U5KGBuQbXHqPpEukKqnIwPqtKmyUUVAC28uWfNoAiEA
4NtvvsCx7CH/y09JAXRp1Ca0KIlAGtJ/Y/iW87xsxk8AdQBMY9yY5Zwdq4j2Hoo9
3q6Pq0SjN3tfm5TD+6Gc/MG+JgAAAZuxlaTKAAAEAwBGMEQCIDKpIKHPZpgKRzGX
ZFF5W7uqXSQeZPuPHaESI+OrwtZuAiAAsfuWpr9gbWkardEuu+5wuBcWM+8UimM3
Yc4rjS1tnwB1AGBMmq96f3dfAdQG/JINyJnrCxx9+MlSG/r6F3c7l4vJAAABm7GV
pfgAAAQDAEYwRAIgBynA3N5/j9EZ7TnNgfaOE94lfbDoYfcwVKOYmkx4BMICIGNY
YilZOuuWlDVtJQgtdrjNYnc9T4/oLeWC2xO5YNtsMA0GCSqGSIb3DQEBCwUAA4IB
AQBA5TcSiKwx1SncYfm5h0x93AUBQkljus5+VJ9nIV5XVD88J/HVhCn7jL89+NNh
+M2boizbL4pszJrpIjBbj7jJ/1YZCP4pBEVA681ZWUX3EUanVWuXJ3tObLxE7eg5
ihlfh45r/P/amzQipXbyhSovxEqgKd1iJQatwzlC0FwDVXZQS6MxL2nILb/lHRH5
bKseZKh/0cwDE2F7YkrSTXwtyBcVeqN801n7dnoGrYs9UQoF/9WB8KvbAZLGsn85
YjBaCM2ImnJFLsXMimwJSaBfQbDPVdJzlwFCn3j6uAysXh6RJzn1btee3bbAYd4G
9gwcR7GyUeEweWwbhLYEw3JO
-----END CERTIFICATE-----
 1 s:C = US, O = "Entrust, Inc.", OU = See www.entrust.net/legal-terms, OU = "(c) 2012 Entrust, Inc. - for authorized use only", CN = Entrust Certification Authority
- L1K
   i:C = US, O = "Entrust, Inc.", OU = See www.entrust.net/legal-terms, OU = "(c) 2009 Entrust, Inc. - for authorized use only", CN = Entrust Root Certification
Authority - G2
   a:PKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA256
   v:NotBefore: Oct  5 19:13:56 2015 GMT; NotAfter: Dec  5 19:43:56 2030 GMT
-----BEGIN CERTIFICATE-----
MIIFDjCCA/agAwIBAgIMDulMwwAAAABR03eFMA0GCSqGSIb3DQEBCwUAMIG+MQsw
CQYDVQQGEwJVUzEWMBQGA1UEChMNRW50cnVzdCwgSW5jLjEoMCYGA1UECxMfU2Vl
IHd3dy5lbnRydXN0Lm5ldC9sZWdhbC10ZXJtczE5MDcGA1UECxMwKGMpIDIwMDkg
RW50cnVzdCwgSW5jLiAtIGZvciBhdXRob3JpemVkIHVzZSBvbmx5MTIwMAYDVQQD
EylFbnRydXN0IFJvb3QgQ2VydGlmaWNhdGlvbiBBdXRob3JpdHkgLSBHMjAeFw0x
NTEwMDUxOTEzNTZaFw0zMDEyMDUxOTQzNTZaMIG6MQswCQYDVQQGEwJVUzEWMBQG
A1UEChMNRW50cnVzdCwgSW5jLjEoMCYGA1UECxMfU2VlIHd3dy5lbnRydXN0Lm5l
dC9sZWdhbC10ZXJtcyE5MDcGA1UECxMwKGMpIDIwMTIgRW50cnVzdCwgSW5jLiAt
IGZvciBhdXRob3JpemVkIHVzZSBvbmx5MS4wLAYDVQQDEyVFbnRydXN0IENlcnRp
ZmljYXRpb24gQXV0aG9yaXR5IC0gTDFLMIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8A
MIIBCgKCAQEA2j+W0E25L0Tn2zlem1DuXKVh2kFnUwmqAJqOV38pa9vH4SEkqjrQ
jUcj0u1yFvCRIdJdt7hLqIOPt5EyaM/OJZMssn2XyP7BtBe6CZ4DkJN7fEmDImiK
m95HwzGYei59QAvS7z7Tsoyqj0ip/wDoKVgG97aTWpRzJiatWA7lQrjV6nN5ZGhT
```

```
JbiEz5R6rgZFDKNrTdDGvuoYpDbwkrK6HIiPOlJ/915tgxyd8B/lw9bdpXiSPbBt
LOrJz5RBGXFEaLpHPATpXbo+8DX3Fbae8i4VHj9HyMg4p3NFXU2wO7GOFyk36t0F
ASK7lDYqjVs1/lMZLwhGwSqzGmIdTivZGwIDAQABo4IBDDCCAQgwDgYDVR0PAQH/
BAQDAgEGMBIGA1UdEwEB/wQIMAYBAf8CAQAwMwYIKwYBBQUHAQEEJzAlMCMGCCsG
AQUFBzABhhdodHRwOi8vb2NzcC5lbnRydXN0Lm5ldDAwBgNVHR8EKTAnMCWgI6Ah
hh9odHRwOi8vY3JsLmVudHJ1c3QubmV0L2cyY2EuY3JsMDsGA1UdIAQ0MDIwMAYE
VR0gADAoMCYGCCsGAQUFBwIBFhpodHRwOi8vd3d3LmVudHJ1c3QubmV0L3JwYTAd
BgNVHQ4EFgQUgqJwdN28Uz/Pe9T3zX+nYMYKTL8wHwYDVR0jBBgwFoAUanImetAe
733nO2lR1GyNn5ASZqswDQYJKoZIhvcNAQELBQADggEBADnVjpiDYcgsY9NwHRkw
y/YJrMxp1cncN0HyMg/vdMNY9ngnCTQIlZIv19+4o/0OgemknNM/TWgrFTEKFcxS
BJPok1DD2bHi4Wi3Ogl08TRYCj93mEC45mj/XeTIRsXsgdfJghhcg85x2Ly/rJkC
k9uUmITSnKa1/ly78EqvIazCP0kkZ9Yujs+szGQVGHLlbHfTUqi53Y2sAEo1GdRv
c6N172tkw+CNgxKhiucOhk3YtCAbvmqljEtoZuMrx1gL+1YQ1JH7HdMxWBCMRON1
exCdtTix9qrKgWRs6PLigVWXUX/hwidQosk8WwBD9lu51aX8/wdQQGcHsFXwt35u
Lcw=
-----END CERTIFICATE-----
 2 s:C = BE, O = GlobalSign nv-sa, CN = Trusted Root TLS CA SHA256 G3
   i:OU = GlobalSign Root CA - R3, O = GlobalSign, CN = GlobalSign
   a:PKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA256
   v:NotBefore: Jul  5 00:00:00 2020 GMT; NotAfter: Apr 25 11:00:00 2027 GMT
-----BEGIN CERTIFICATE-----
MIIEqTCCA5GgAwIBAgIQd70NdT8uGWAb1U4KAkRGdjANBgkqhkiG9w0BAQsFADBM
MSAwHgYDVQQLExdHbG9iYWxTaWduIFJvb3QgQ0EgLSBSMzETMBEGA1UEChMKR2xv
YmFsU2lnbjETMBEGA1UEAxMKR2xvYmFsU2lnbjAeFw0yMDA3MDUwMDAwMDBaFw0y
NzA0MjUxMTAwMDBaMFAxCzAJBgNVBAYTAkJFMRkwFwYDVQQKExBHbG9iYWxTaWdu
IG52LXNhMSYwJAYDVQQDEx1UcnVzdGVkIFJvb3QgVExTIENBIFNIQTI1NiBHMzCC
ASIwDQYJKoZIhvcNAQEBBQADggEPADCCAQoCggEBAKXRe6ZnoR+4xcoJL/S5vx1D
qMMe4LCFB+zMMOCi5stfYUfK6bBgilYKilk42F85z5o1eLKUfj4ycGfnaUVLdSsj
waP1HMlobr2xBMiH9+q1KgyWui1v8KRv+IhdPaxRojgLLM4jlPLlHvqvorcmGHQl
```

HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	0
Connected IP	202.75.7.189
Connect Time	5.02 ms
TTFB	0 ms
Total Time	10002.59 ms
Error	Operation timed out after 10002 milliseconds with 0 bytes received

IPv4 HTTPS (port 443)

HTTP Status	200
Connected IP	202.75.7.189
Connect Time	13.63 ms
TTFB	97.18 ms
Total Time	97.3 ms

Response Headers:

```
{
    "0": "HTTP/1.1 301 Moved Permanently",
    "1": "Server: nginx",
    "2": "Date: Sat, 08 Aug 2026 10:24:41 GMT",
    "3": "Content-Type: text/html",
    "4": "Content-Length: 162",
    "5": "Connection: keep-alive",
    "6": "Location: https://www.dosm.gov.my/",
    "7": "Upgrade: HTTP/2.0",
    "8": "Connection: Upgrade",
    "9": "Access-Control-Allow-Methods: GET, POST, OPTIONS, HEAD",
    "10": "Access-Control-Allow-Headers: DNT,User-Agent,X-Requested-With,If-Modified-Since,Cache-Control,Content-Type,Range",
    "11": "Access-Control-Expose-Headers: Content-Length,Content-Range",
    "12": "Access-Control-Max-Age: 31536000",
    "13": "X-Content-Type-Options: nosniff",
    "14": "X-Frame-Options: SAMEORIGIN",
    "15": "X-XSS-Protection: 1; mode=block",
    "16": "Strict-Transport-Security: max-age=31536000; includeSubDomains; preload",
    "17": "X-Permitted-Cross-Domain-Policies: master-only",
    "18": "Content-Security-Policy: default-src 'self'; script-src 'self' 'unsafe-inline' 'unsafe-eval' blob: *; img-src 'self' data: *; style-src 'self' 'unsafe-
inline' *; connect-src 'self' *; font-src 'self' data: *; frame-src 'self' *; object-src 'none'; media-src 'self' *; frame-ancestors 'self';",
    "19": "Permissions-Policy: geolocation=(), microphone=(), camera=(), fullscreen=*, autoplay=(self)",
    "20": "Referrer-Policy: strict-origin-when-cross-origin",
    "21": "Expect-CT: enforce; max-age=3600",
    "22": "Content-Security-Policy: upgrade-insecure-requests",
    "23": "Set-Cookie: Path=/; HttpOnly; Secure",
    "24": "Set-Cookie: cookiesession1=678B28A3EC19205964CB9187309C42B2;Expires=Sun, 08 Aug 2027 10:24:41 GMT;Path=/;HttpOnly",
    "26": "HTTP/1.1 200 OK",
    "27": "Server: nginx",
    "28": "Date: Sat, 08 Aug 2026 10:24:41 GMT",
    "29": "Content-Type: text/html; charset=UTF-8",
    "30": "Connection: keep-alive",
    "31": "Vary: Accept-Encoding",
    "32": "Upgrade: HTTP/2.0",
    "33": "Connection: Upgrade",
    "34": "Access-Control-Allow-Methods: GET, POST, OPTIONS, HEAD",
    "35": "Access-Control-Allow-Headers: DNT,User-Agent,X-Requested-With,If-Modified-Since,Cache-Control,Content-Type,Range",
    "36": "Access-Control-Expose-Headers: Content-Length,Content-Range",
    "37": "Access-Control-Max-Age: 31536000",
    "38": "X-Content-Type-Options: nosniff",
    "39": "X-Frame-Options: SAMEORIGIN",
    "40": "X-XSS-Protection: 1; mode=block",
    "41": "Strict-Transport-Security: max-age=31536000; includeSubDomains; preload",
    "42": "X-Permitted-Cross-Domain-Policies: master-only",
    "43": "Content-Security-Policy: default-src 'self'; script-src 'self' 'unsafe-inline' 'unsafe-eval' blob: *; img-src 'self' data: *; style-src 'self' 'unsafe-
inline' *; connect-src 'self' *; font-src 'self' data: *; frame-src 'self' *; object-src 'none'; media-src 'self' *; frame-ancestors 'self';",
    "44": "Permissions-Policy: geolocation=(), microphone=(), camera=(), fullscreen=*, autoplay=(self)",
    "45": "Referrer-Policy: strict-origin-when-cross-origin",
    "46": "Expect-CT: enforce; max-age=3600",
    "47": "Content-Security-Policy: upgrade-insecure-requests",
    "48": "Set-Cookie: Path=/; HttpOnly; Secure",
    "49": "Set-Cookie: cookiesession1=678B28A359F7E3188E03114AED0DC9DC;Expires=Sun, 08 Aug 2027 10:24:41 GMT;Path=/;HttpOnly"
}
```


Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	301 0.004876 0.009682
TCP Connect IPv4 → port 443	000 0.005302 0.000000

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
fd7a:115c:a1e0::1136:5807 dev tailscale0 proto kernel metric 256 pref medium
fe80::/64 dev eth0 proto kernel metric 256 pref medium
fe80::/64 dev tailscale0 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
```