

IPv6 Readiness Report

bk.mufg.jp — bk.mufg.jp

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Report generated from National IPv6 Readiness Monitor — <https://ipv6.my6.my>Audit trail: <https://ipv6.my6.my/audit/8a247e2a-68c8-4945-8b6c-922db71b1909>**Non-Compliant**

MGv6C-1.0

43%**Partial Support****IPv6-ONLY READINESS**Website: **X Not Ready**DNS: **X Not Ready**Email: **X Not Ready****IPv4 ADDRESSES**

23.14.207.250

Network Information (WHOIS / RDAP)

IPv4 Network	
Organization	Akamai Technologies, Inc.
Country	US
ASN	AS16625
ASN Name	AKAMAI-AS - Akamai Technologies, Inc., US
Network (CIDR)	23.0.0.0/12

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.
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	23.14.207.250
2	HTTP over IPv4	PASS	HTTP (port 80) responds over IPv4 — 183ms TTFB.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 8ms TTFB.

Audit Trail & Evidence Record

Verification ID	8a247e2a-68c8-4945-8b6c-922db71b1909
Domain	bk.mufg.jp
Check Mode	Manual
Status	Completed
Started	07 Mar 2026, 01:01:00 MYT
Finished	07 Mar 2026, 01:01:04 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/8a247e2a-68c8-4945-8b6c-922db71b1909

Integrity Verification

✓ INTEGRITY VERIFIED	
Algorithm	hmac-sha256-v1
Root Hash	34351929ac415786926174ce43463a5a040a2bccdbd9b113f353de308a4ea2b9
http_headers	34c18d385244dbb494ddc047a88cb2cfabe0a1ccb4fbe563959ed4221136ab9e
dns_responses	11871c92ec759f2c8df3196263e23c12183da1026f7af110b2deb1aa3ca036c5
tls_handshake	da9edae1e955570772504b94a4d4a2172ab2d7009c69531335352a189623b135
connectivity_log	8936b9c0e1133973b9f2d295ad7bdb89770820bbf5c1ebf2676b3f91c9b2fcd8
dns_resolution_times	3211fb7adb1df5521375714f36a71d7f3f4a29b27b8345de39e1dc823eb85961

Test Node Identity

Os	Linux srv1440888 6.8.0-101-generic #101-Ubuntu SMP PREEMPT_DYNAMIC Mon Feb 9 10:15:05 UTC 2026 x86_64
Hostname	srv1440888
Php Version	8.3.30
Server Ipv4	-
Server Ipv6	-

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	20.77	21.04	12.06	18.1	-8.7
Google	IPv4	29.91	29.92	20.01	65.76	-9.9
Google	IPv6	20.61	22.29	32.49	102.62	+11.9
Cloudflare	IPv4	16.01	19.92	19.99	24.3	+4
Cloudflare	IPv6	19.8	20.76	17.16	18.03	-2.6

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 63688
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
bk.mufg.jp. 3600 IN NS dns01.mufg.jp. postmaster.mufg.jp. 2026030300 10800 3600 604800 3600
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 6988
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
bk.mufg.jp. 3600 IN DS 13 2 9891CF590FF7DED5C77F332598A06E2535194CE7FF42250A07F52004 EFAD8F05
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 3944
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
bk.mufg.jp. 3600 IN MX 10 mail01.acom.co.jp.
bk.mufg.jp. 3600 IN MX 10 mail02.acom.co.jp.
```

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 52429
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 9, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
bk.mufg.jp. 3600 IN NS a1-10.akam.net.
bk.mufg.jp. 3600 IN NS ns014-fc9tjt3ao0p42dr4.f.d-53.net.
bk.mufg.jp. 3600 IN NS a5-66.akam.net.
bk.mufg.jp. 3600 IN NS a26-65.akam.net.
bk.mufg.jp. 3600 IN NS ns014-fc9tjt3ao0p42dr4.f.d-53.info.
bk.mufg.jp. 3600 IN NS a16-64.akam.net.
bk.mufg.jp. 3600 IN NS ns014-fc9tjt3ao0p42dr4.f.d-53.jp.
bk.mufg.jp. 3600 IN NS a8-67.akam.net.
bk.mufg.jp. 3600 IN NS a11-67.akam.net.
```

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 22403
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
bk.mufg.jp. 3600 IN TXT "0cgbRy0BMCr04blrUTfekHVkVpWdUL"
bk.mufg.jp. 3600 IN TXT "apple-domain-verification=0pu0JMCfPKdJ092v"
bk.mufg.jp. 3600 IN TXT "v=spf1 +ip4:3.114.195.68 +ip4:13.114.116.117 include:spf0084.mediagalaxy.ne.jp ~all"
```

AAAA

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 6842
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
;; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
bk.mufg.jp. 1800 IN SOA dns01.mufg.jp. postmaster.mufg.jp. 2026030300 10800 3600 604800 3600
```

RRSIG

```
dns01.mufg.jp. postmaster.mufg.jp. 2026030300 10800 3600 604800 3600
SOA 13 3 3600 20260502091452 20260303074452 58934 bk.mufg.jp. 8b8hesd8f1SYH/NIVh0x/dkVCLzRMn5LH8/9WucYpafyiwQYHH3g3z8 Nkc3sQsxHM5d3o1Lf/x0YW0vLFC6SA==
```

DNSKEY

```
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 30399
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
;; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
bk.mufg.jp. 3597 IN DNSKEY 256 3 13 f7MDjk5MIyAYCu0w4iPpHB9vAtRV2FAnfKzwtPLIfuWBpXdnA0BLt9vs HeYSQQUjtd06wX0fRCaZwjcCKCaA==
bk.mufg.jp. 3597 IN DNSKEY 257 3 13 62WPYPmtTAcj4//t0wK2CIEi4iCcBzQThVA8lfnBEXs/Kh8L34DPtfj 8l4ib7k5g06BEFzFAhvBJL/BK7bn7A==
```

DNSSEC_VALIDATION

```
; fully validated
bk.mufg.jp. 3600 IN SOA dns01.mufg.jp. postmaster.mufg.jp. 2026030300 10800 3600 604800 3600
bk.mufg.jp. 3600 IN RRSIG SOA 13 3 3600 20260502091452 20260303074452 58934 bk.mufg.jp. 8b8hesd8f1SYH/NIVh0x/dkVCLzRMn5LH8/9WucYpafyiwQYHH3g3z8
Nkc3sQsxHM5d3o1Lf/x0YW0vLFC6SA==
```


TLS Handshake Evidence

IPV4 Connection

IP Used	23.14.207.250
IP Version	4

```
depth=2 C = JP, O = "SECOM Trust Systems CO.,LTD.", OU = Security Communication RootCA2
verify return:1
depth=1 C = JP, O = "Cybertrust Japan Co., Ltd.", CN = Cybertrust Japan SureServer EV CA G3
verify return:1
depth=0 jurisdictionC = JP, serialNumber = 0100-01-008846, businessCategory = Private Organization, C = JP, ST = Tokyo, L = Chiyoda Ku, O = "MUFG Bank, Ltd.", CN =
www.bk.mufg.jp
verify return:1
CONNECTED(00000010)
...
Certificate chain
0 s:jurisdictionC = JP, serialNumber = 0100-01-008846, businessCategory = Private Organization, C = JP, ST = Tokyo, L = Chiyoda Ku, O = "MUFG Bank, Ltd.", CN =
www.bk.mufg.jp
i:C = JP, O = "Cybertrust Japan Co., Ltd.", CN = Cybertrust Japan SureServer EV CA G3
a:PKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA256
v:NotBefore: Oct 17 08:22:19 2025 GMT; NotAfter: Oct 31 14:59:00 2026 GMT
-----BEGIN CERTIFICATE-----
MIIDHzCCBfegAwIBAgIU6fzclrIjU1BavkcvwdA+9L2nEPgwDQYJKoZIhvcNAQEL
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5C8Pc7pzzNe6bfYVKBFs2vd2sP0LnsHQ5pwK4KkQlsPQ0tHUE7ww7/mxCDR+snX
b77fnAmnu+Dzp8WnmOmt1uKhJ2drwXzZ6wiQ5JY8FeY2G0A=
-----END CERTIFICATE-----
1 s:C = JP, O = "Cybertrust Japan Co., Ltd.", CN = Cybertrust Japan SureServer EV CA G3
i:C = JP, O = "SECOM Trust Systems CO.,LTD.", OU = Security Communication RootCA2
a:PKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA256
v:NotBefore: Dec 13 06:28:45 2023 GMT; NotAfter: May 29 05:00:39 2029 GMT
-----BEGIN CERTIFICATE-----
MIIFATCCA+mgAwIBAgIQIrmxoS2R8YgTentttr00pzANBqkghkiG9w0BAQsFADBD
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DTIEMTIxMzA2Mjg0NVVoXDTISMDUyOTA1MDA2OVowYTELMAkGA1UEBHMCSlAxIzAh
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cnRydXN0IEphcGFuIFNlcmVtZXJ2ZXIgdGVyYyQ0EgRzZmHhcnMjUxMDE3MDgyMjE5
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MOMDEwMS0wMDg4NDYxHTAbBgNVBA8TFFByaXZhdGUGT3JnYW5pemF0aW9uMQswCQYDV
Q0GEwJkUDEM0MAwG1UECBMFVGR9reW8xEzARBgNVBAcTCkNoaXVZGEGS3UxGDABGgNV
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CSqGSIb3DQEBAQUAA4IBDwAwggEKAoIBAQDlhrI2M4m2FEeDNDYVx6r3DkFaLUzAojs
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C9zc2wvcmluZ3NpdG9yeS9pbmRleC5odG1sMTGLBggrrBgEFBQgCBAQR/MH0wNQYI
KwYBBQUHMAZGKWh0dHA6Ly9ldm9j3AuY3liZXJ0cnVzdC5uZS55cC9PY3NwU2Vj
dmVyeGQCCSQAQUBzAChjodHRwOi8vY3J3LmN5YmVydHJlc3QubmUuanAvU3Vy
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CisGAQQB1nkCBAlEgGfWBIIBBAFqAHCAl2I9ENGN9XfCx+lF1wC/+YLJm1p14dCz
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WfXrVw52++FZATYCIQDX7pQFTPP6sAQ0eFEqJ3Jek0LRNCFuqD5ra6cqtFJK0B3
ANgJVtU3r/yBYZ5rPhauw+PxeH1UmdXRLnK7RUsUAAABmfFW75wAAQDAEgW
RgIhAJL0aqrTqP0/008LZIEmdZSeBBmAKLJaQUUwKJao9nZaiEA4vAcepabM4YG
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LMDp4hYzumaJM6lb6+SIknVdq80LjTaDtFT0Ep3UVbm4YVkrqH4C1QfARb/7bpu
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b77fnAmnu+Dzp8WnmOmt1uKhJ2drwXzZ6wiQ5JY8FeY2G0A=
-----END CERTIFICATE-----
```

```

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AQYwSQYDVR0fBEIwQDA+oDygoOy4aHR0cDovL3JlcG9zaXRvcnkuc2Vjb210cnVz
dC5uZXQvU0MtUm9vdIvU0NSb290MkN5STC5jcmwwYwYDVR0gBFQwUjAHBGVngQwB
ATBHBgoqgwiMmxttkhVEBMDkNwYIKwYBBQUHAgEWK2h0dHBz0i8vcmVwb3NpdG9y
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CCsGAQUFBzAChjdodHRwOi8vcmVwb3NpdG9yeS5zZWNVbXRydXN0Lm5ldC9TQy1S
b290Mi9TQ1Jvb3QyY2EuY2VyMB0GA1UdJQWMBQGCCsGAQUFBwMBBggrBgEFBQcD
AjANBgkqhkiG9w0BAQsFAAQAQEAcr/yh9/+76PwMDluBP8hvn954FbK34U31c+j
67e1MMK8hgrh+s2CIEsI5CbTR5N1IAAdiTyvs/P8Zp7sXa/hxr3UJz91Wwn5xrqBF
/1fK3pC1g+7yqCGW1/TpPcBKFF+hm4VUqBAKS0H2zrmb//UzP6I0a/qPEha06d7
7dLns3bos/KGbxrsgKTPuPiJgsWy2rpQ0D0fiQUfpl0QAR33Y5EDGN727r+bLw8
IX37KQg9dWpze18uDnRyMcCHK/zFkAd0I0ljbL/L6nx/jUbICZp5j1rV6K2G6XZZ
Udpigo0bZ2KtHph3ZEmjZeT9Xr1hw2n0lwGbzVixtBGFmnc3Qw==
-----END CERTIFICATE-----
---
Server certificate
subject=jurisdictionC = JP, serialNumber = 0100-01-008846, businessCategory = Private Organization, C = JP, ST = Tokyo, L = Chiyoda Ku, O = "MUFG Bank, Ltd.", CN =
www.bk.mufg.jp
issuer=C = JP, O = "Cybertrust Japan Co., Ltd.", CN = Cybertrust Japan SureServer EV CA G3
---
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 3789 bytes and written 438 bytes
Verification: OK
---
New, TLSv1.2, Cipher is ECDHE-RSA-AES256-GCM-SHA384

```

HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	400
Connected IP	23.14.207.250
Connect Time	2.81 ms
TTFB	4.41 ms
Total Time	4.44 ms

Response Headers:

```
[
  "HTTP/1.0 400 Bad Request",
  "Server: AkamaiGHost",
  "Mime-Version: 1.0",
  "Content-Type: text/html",
  "Content-Length: 312",
  "Expires: Fri, 06 Mar 2026 09:01:04 GMT",
  "Date: Fri, 06 Mar 2026 09:01:04 GMT",
  "Connection: close"
]
```

IPv4 HTTPS (port 443)

HTTP Status	400
Connected IP	23.14.207.250
Connect Time	1.15 ms
TTFB	7.75 ms
Total Time	7.77 ms

Response Headers:

```
[
  "HTTP/1.0 400 Bad Request",
  "Server: AkamaiGHost",
  "Mime-Version: 1.0",
  "Content-Type: text/html",
  "Content-Length: 312",
  "Expires: Fri, 06 Mar 2026 09:01:04 GMT",
  "Date: Fri, 06 Mar 2026 09:01:04 GMT",
  "Connection: close"
]
```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	400 0.001413 0.003694
TCP Connect IPv4 → port 443	000 0.000904 0.000000

Test Node Network Evidence

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

Egress Connectivity

IPv4 Egress	unreachable
IPv6 Egress	unreachable

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
```