

IPv6 Readiness Report

vk.com — vk.com

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Report generated from National IPv6 Readiness Monitor — <https://ipv6.my6.my>Audit trail: <https://ipv6.my6.my/audit/8fa8e4b4-2c00-42a5-b658-ce05e52ab74e>**Non-Compliant**

MGv6C-1.0

33%**Partial Support****IPV6-ONLY READINESS**Website: **X Not Ready**DNS: **X Not Ready**Email: **X Not Ready****IPv4 ADDRESSES**87.240.132.67
87.240.137.164
87.240.132.78
93.186.225.194
87.240.132.72
87.240.129.133**Network Information (WHOIS / RDAP)**

IPv4 Network	
Organization	VKCOMPANY-MNT
Country	RU
ASN	AS47541
ASN Name	VKONTAKTE-SPB-AS vk.com, RU
Network (CIDR)	87.240.128.0/19

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%)

1 / 5

#	CHECK	RESULT	DETAIL
1	NS Has AAAA Record	PASS	Nameserver has IPv6 address.
2	NS Reachable via IPv6	FAIL	No nameserver is reachable over IPv6.
3	NS Answers Queries via IPv6	FAIL	Nameserver does not answer queries over IPv6.
4	DNSSEC Validated	FAIL	DNSSEC validation failed or zone is unsigned.
5	Reverse DNS (PTR)	FAIL	No PTR record found.

#	CHECK	RESULT	DETAIL
6	DS Record at Parent	FAIL	No DS record at parent.
7	RRSIG Valid	FAIL	No valid RRSIG found.
8	Signing Algorithm	INFO	No DNSKEY record found.

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: mail_domainkey
7	DMARC Record	PASS	DMARC record found.

IPv4 Baseline (15%) 3 / 3

#	CHECK	RESULT	DETAIL
1	A Record	PASS	87.240.132.67, 87.240.137.164, 87.240.132.78, 93.186.225.194, 87.240.132.72, 87.240.129.133
2	HTTP over IPv4	PASS	HTTP (port 80) responds over IPv4 — 390ms TTFB.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 593ms TTFB.

Audit Trail & Evidence Record

Verification ID	8fa8e4b4-2c00-42a5-b658-ce05e52ab74e
Domain	vk.com
Check Mode	Manual
Status	Completed
Started	07 Mar 2026, 01:16:28 MYT
Finished	07 Mar 2026, 01:17:08 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/8fa8e4b4-2c00-42a5-b658-ce05e52ab74e

Integrity Verification

✓ INTEGRITY VERIFIED	
Algorithm	hmac-sha256-v1
Root Hash	a707c20965e8891b8fb8c80902502b1e6db997ac967ecd477d7b8b6f2ed99a13
http_headers	bd2e9d2ea847d3c67ff1e43a051011ae20bcc9d950890462ddcb93367afd4fd5
dns_responses	385ffbd1b7c4ef7f262fe05c30f4e558abd17ce50010c24f0ab1c8e0f694c5e6
tls_handshake	587f1699be31f4784269c6b15e9f8868c664d05d5a2207ffd789600a1ba5906d
connectivity_log	5a468f2c9226742db1172c84993a89c9181b10e087fbc2641d0c0b99a8a16a1e
dns_resolution_times	6d4f27c72b32f7fdd4c80d2d14ce144abb12e8992a5ebf594919f5bea59a722

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	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	8.32	12.53	14.27	17.56	+6
Google	IPv4	25.96	33.41	16.97	23.19	-9
Google	IPv6	29.7	32.17	29.88	30.97	+0.2
Cloudflare	IPv4	11.87	16.67	14.15	28.28	+2.3
Cloudflare	IPv6	28.45	31.58	34	47.15	+5.6

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 3591
;; flags: qr rd ra; QUERY: 1, ANSWER: 6, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
vk.com. 0002930INQAA093.186.225.194
vk.com. 0002930INQAA087.240.132.78
vk.com. 0002930INQAA087.240.129.133
vk.com. 0002930INQAA087.240.137.164
vk.com. 0002930INQAA087.240.132.72
vk.com. 0002930INQAA087.240.132.67
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 11989
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
com. 0002200INQSOAAa.gtld-servers.net. nstld.verisign-grs.com. 1772787916 1800 900 604800 900
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 43945
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
vk.com. 0009000INQMX00 mxs.mail.ru.
```

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 6861
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
vk.com. 0009300INQNS0ns4.vk.com.
vk.com. 0009300INQNS0ns2.vk.com.
vk.com. 0009300INQNS0ns3.vk.com.
vk.com. 0009300INQNS0ns1.vk.com.
```

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 51851
;; flags: qr rd ra; QUERY: 1, ANSWER: 11, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
vk.com. 0009000INQTXT00 "_globalsign-domain-verification=aXxk884iIZmgR50N_CbluBYfK4GyZLo08hLo293AHC"
vk.com. 0009000INQTXT00 "wmail-verification: 646ff42e916a2be1aa86be6d3c742949"
vk.com. 0009000INQTXT00 "LD6VaYCKete4UB5FIx7snCoJ8btInGdeCWe4my5HH5psRaTL" "zAmvc"
vk.com. 0009000INQTXT00 "yandex-verification: 0bb3aeafaf40a3fa"
vk.com. 0009000INQTXT00 "v=spf1 ip4:93.186.224.0/20 ip4:87.240.128.0/18 i" "p4:95.142.192.0/21 mx include:_spf.google.com in" "clude:_spf.mail.ru ~all"
vk.com. 0009000INQTXT00 "HARICA-A1PCCe7rY17J2K2Ifov"
vk.com. 0009000INQTXT00 "_globalsign-domain-verification=yIHjFPiraw7292Kzmm0aN_Hbhu0agFIXRGHf_3WH4"
vk.com. 0009000INQTXT00 "google-site-verification=b0E45QUYC7KTvk4XCaMdwF0e_tj-0-6ZXMFxW2a8mHY"
vk.com. 0009000INQTXT00 "_globalsign-domain-verification=3qRK19FWh1UX5CIN5FXwL6S3nSKkKJzadkVqSPaxdfc"
vk.com. 0009000INQTXT00 "HARICA-flc90EonBmci43ogW3C"
vk.com. 0009000INQTXT00 "_globalsign-domain-verification=YM9xQ7VI0TNzoxGpxAE1kwy28sLNTGWXflmZgt73D9"
```

AAAA

```
;; Got answer:
```

```
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 29108  
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1  
  
;; OPT PSEUDOSECTION:  
; EDNS: version: 0, flags:; udp: 512  
;; AUTHORITY SECTION:  
vk.com. 387 IN SOA ns1.vkontakte.ru. ncc.vk.com. 3562120699 900 600 604800 900
```

RRSIG

```
ns1.vkontakte.ru. ncc.vk.com. 3562120699 900 600 604800 900
```

DNSKEY

```
;; Got answer:  
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 62017  
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1  
  
;; OPT PSEUDOSECTION:  
; EDNS: version: 0, flags:; udp: 512  
;; AUTHORITY SECTION:  
vk.com. 887 IN SOA ns1.vkontakte.ru. ncc.vk.com. 3562120699 900 600 604800 900
```

DNSSEC_VALIDATION

```
; unsigned answer  
vk.com. 900 IN SOA ns1.vkontakte.ru. ncc.vk.com. 3562120699 900 600 604800 900
```



```

i:OU = GlobalSign ECC Root CA - R5, O = GlobalSign, CN = GlobalSign
a:PKKEY: id-ecPublicKey, 384 (bit); sigalg: ecdsa-with-SHA384
v:NotBefore: Nov 13 00:00:00 2012 GMT; NotAfter: Jan 19 03:14:07 2038 GMT
-----BEGIN CERTIFICATE-----
MIICHjCCaAsgAwIBAgIRYfLJ4CYuu1X5CneKcflK2GwwCgYIKoZIzj0EAwMwUDEK
MCIGA1UECxMbr2xvYmFsU2lnbiBFQ0MgUm9vdCBDQSAtIFI1MRMwEQYDVQKEwPH
bG9iYXxTaWduMRMwEQYDVQDEwPHbG9iYXxTaWduMB4XDTEyMTExMzAwMDAwMFOX
DTM4MDExOTAzMTQwN1owUDEKMCIGA1UECxMbr2xvYmFsU2lnbiBFQ0MgUm9vdCBD
QSAtIFI1MRMwEQYDVQKEwPHbG9iYXxTaWduMRMwEQYDVQDEwPHbG9iYXxTaWdu
MHYwEAYHKoZIzj0CAQYFK4EEACIDYgAER0U01vt9Xb/p0dEh+J8LttV7HpI6SFkc
8GIxLcB6KP4aplyztsyX50XUWPrRd21DosCHZTQKH3rd6zwcWdTaRvQZU4f8ke
h0vRnkmSh5SHDDqFSmafNmTTZdhBoZKo0IwQDA0BgNVHQ8BAf8EBAMCAQYwDwYD
VR0TAAQH/BAUwAwEB/zAdBgNVHQ4EFgQUPEyPSJvqB8ohREom3me0oPQn1kwCgYI
KoZIzj0EAwMDAAAwZQIXA0VpEsLu28YxuglB4Zf4+/2a4n0Sye18ZNPBLSWLVtmg
515dTguDnFt2KaAJJiFqYgIwcdK1j1zq0+F4CYWodZi7yFz9S08NdCKoC0JuxUn0
xwy8p2Fp8fc74SrL+SvzZpA3
-----END CERTIFICATE-----
---
Server certificate
subject=C = RU, ST = Moscow, L = Moscow, O = VK LLC, CN = *.vk.com
issuer=C = BE, O = GlobalSign nv-sa, CN = GlobalSign ECC 0V SSL CA 2018
---
No client certificate CA names sent
Peer signing digest: SHA384
Peer signature type: ECDSA
Server Temp Key: X25519, 253 bits
---
```

HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	418
Connected IP	87.240.132.67
Connect Time	196.57 ms
TTFB	395.65 ms
Total Time	395.72 ms

Response Headers:

```
[
  "HTTP/1.1 418",
  "Server: kittenx",
  "Date: Fri, 06 Mar 2026 09:17:05 GMT",
  "Content-Length: 0",
  "Connection: keep-alive",
  "X-Frontend: front920404",
  "Access-Control-Expose-Headers: X-Frontend",
  "X-Trace-Id: pvf-XAX_OdEkUxp88oWS_AnSLwWdw",
  "X-Trace-Id-V2: 019cc26fb1177bd2974f273037877291",
  "Server-Timing: tid;desc=\"pvf-XAX_OdEkUxp88oWS_AnSLwWdw\", front;dur=0.461"
]
```

IPv4 HTTPS (port 443)

HTTP Status	418
Connected IP	87.240.132.67
Connect Time	196.74 ms
TTFB	593.85 ms
Total Time	593.89 ms

Response Headers:

```
[
  "HTTP/2 418",
  "server: kittenx",
  "date: Fri, 06 Mar 2026 09:17:06 GMT",
  "content-length: 0",
  "x-frontend: front656000",
  "access-control-expose-headers: X-Frontend",
  "x-trace-id: Esd6ITZm2IVIjNzyQe2-VA9W8tjcSA",
  "x-trace-id-v2: 019cc26fb5c57bdca764ce6f248c5a88",
  "server-timing: tid;desc=\"Esd6ITZm2IVIjNzyQe2-VA9W8tjcSA\", front;dur=0.044"
]
```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	301 0.200832 0.401650
TCP Connect IPv4 → port 443	302 0.193708 0.599639

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
76.13.221.0/24 dev eth0 proto kernel scope link src 76.13.221.142
```