IPXO

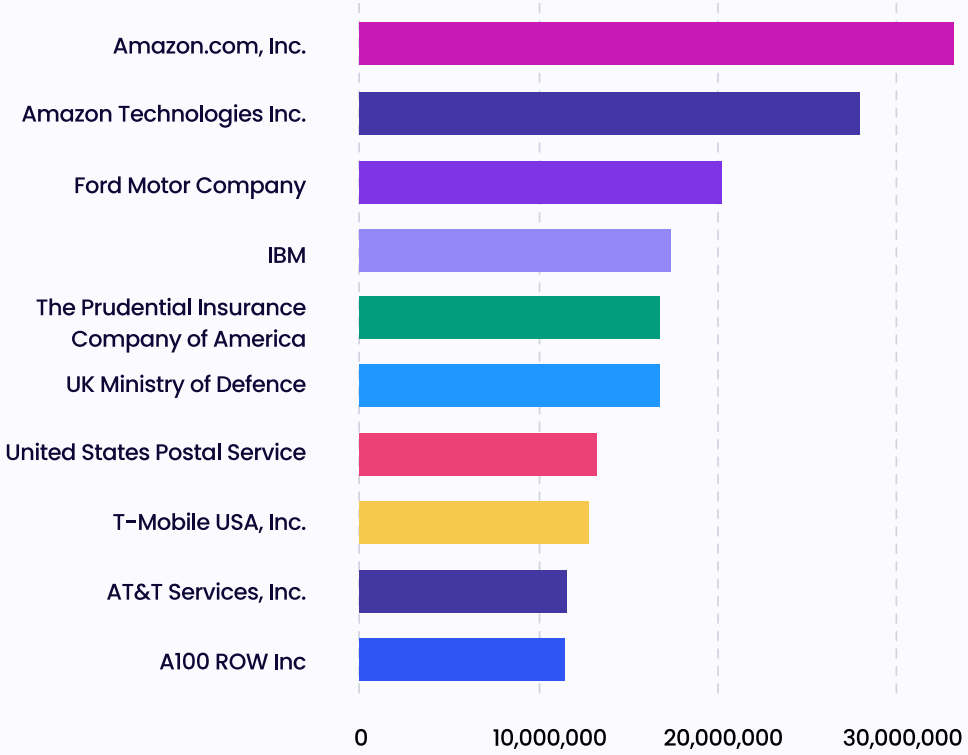
IPv4 Ecosystem Overview

February 2023

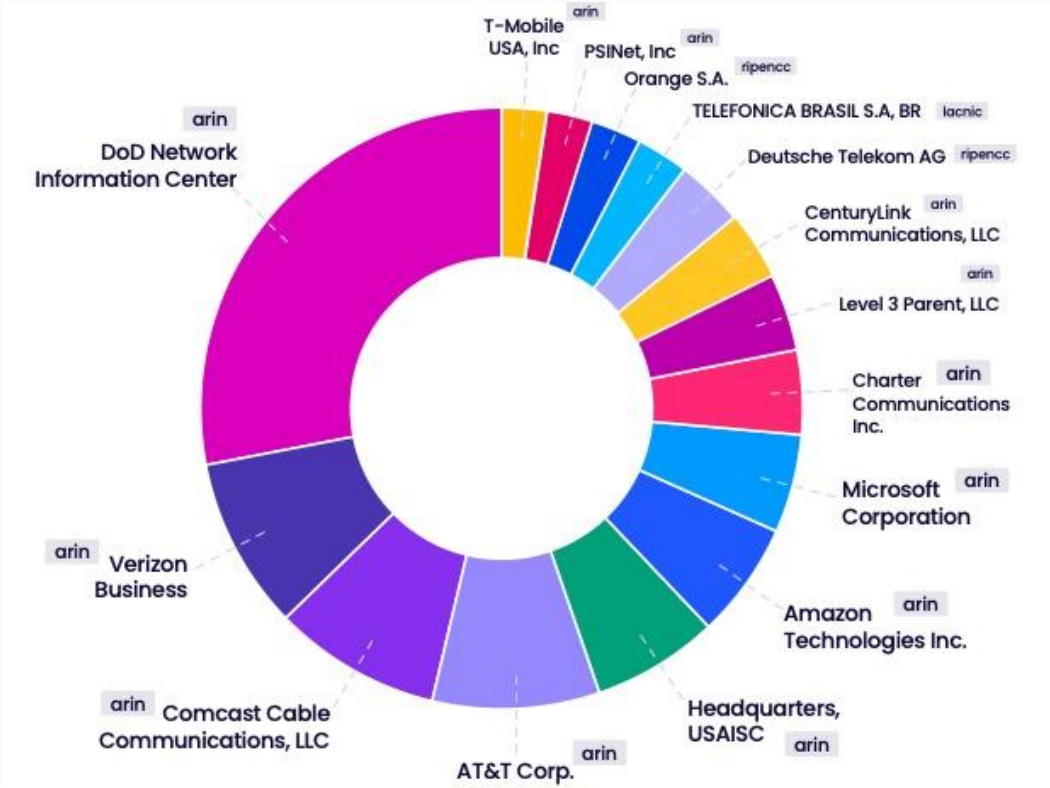
How sustainable is IPv4?

BGP Table

Largest holders of the unadvertised space

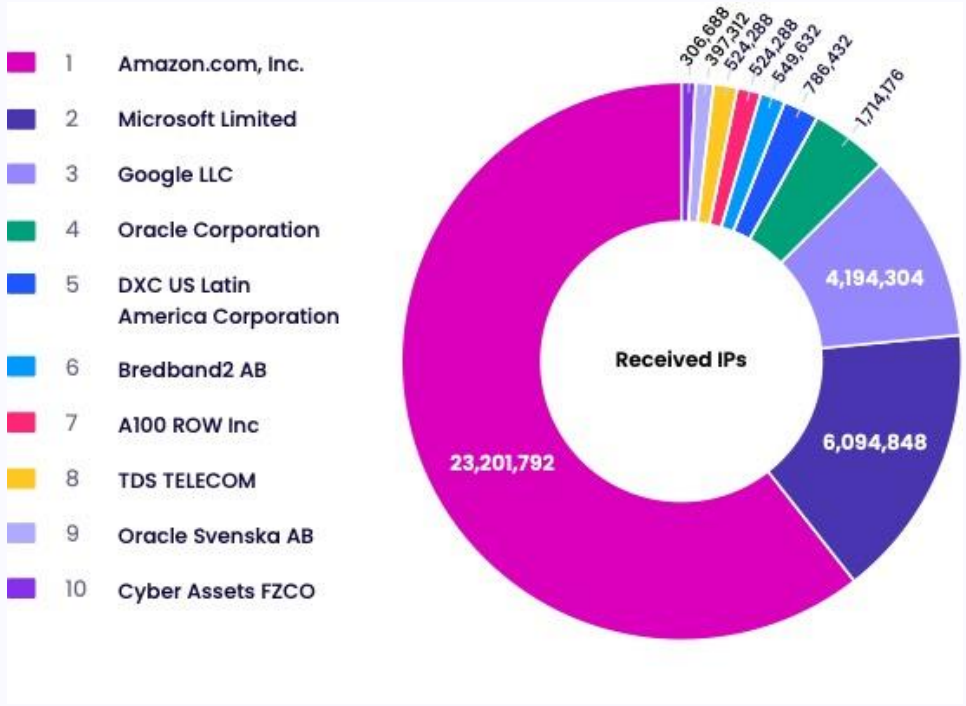


BGP biggest advertisers

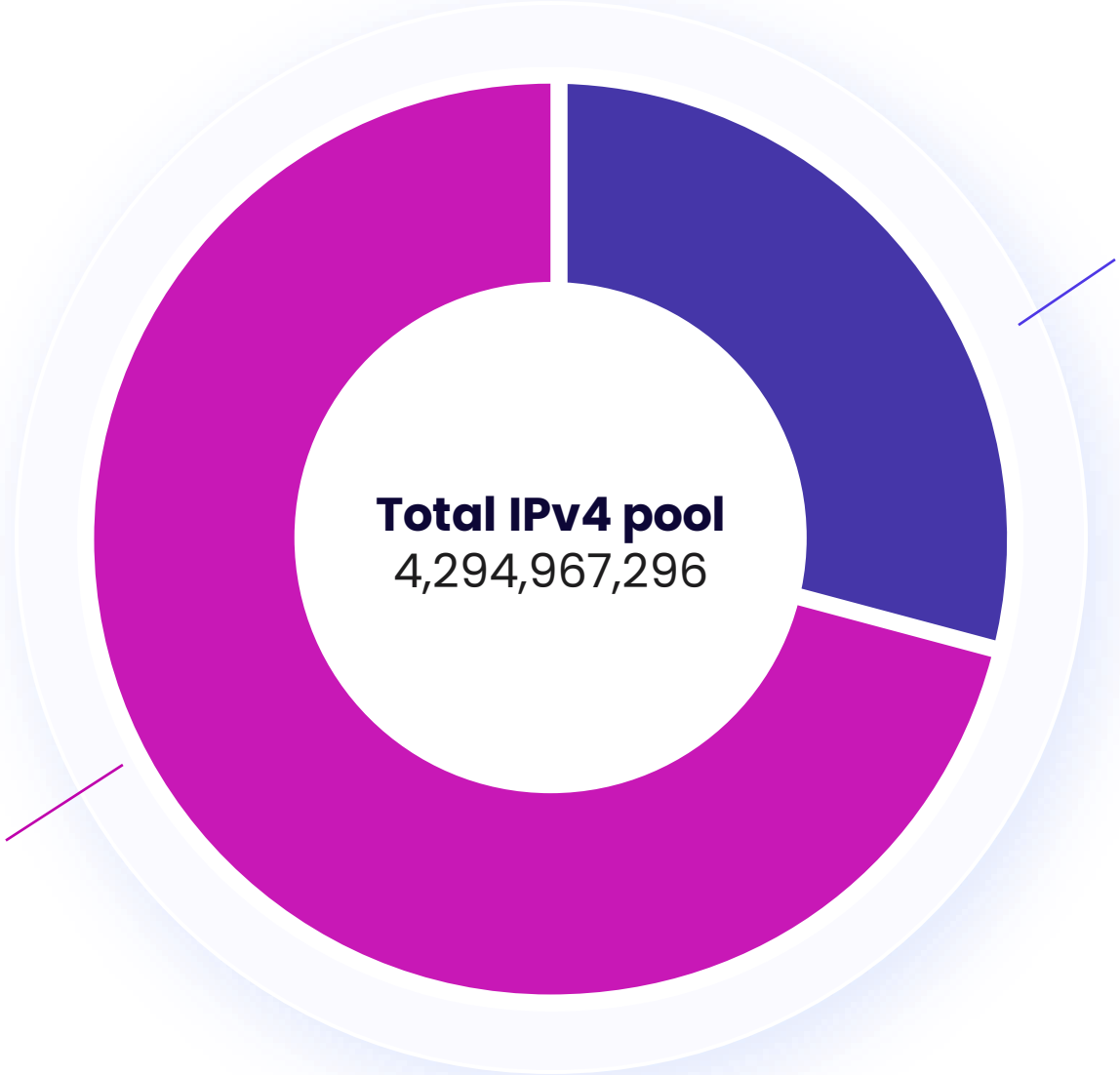


The Largest IPv4 Buyers vs. Sellers

Top 10 buyers



Top 10 sellers



28,57%

Not announced

(1,227,072,156 IPv4)

71,43%

Total IPv4 address space announced

(3,067,895,140 IPv4)

What are the alternatives?

The cloud! Trust and evolution.

aws

Google Cloud

1995-2005

2006

2008

2022

Alternatives to IPv4 Acquisition

IPv4 Leasing

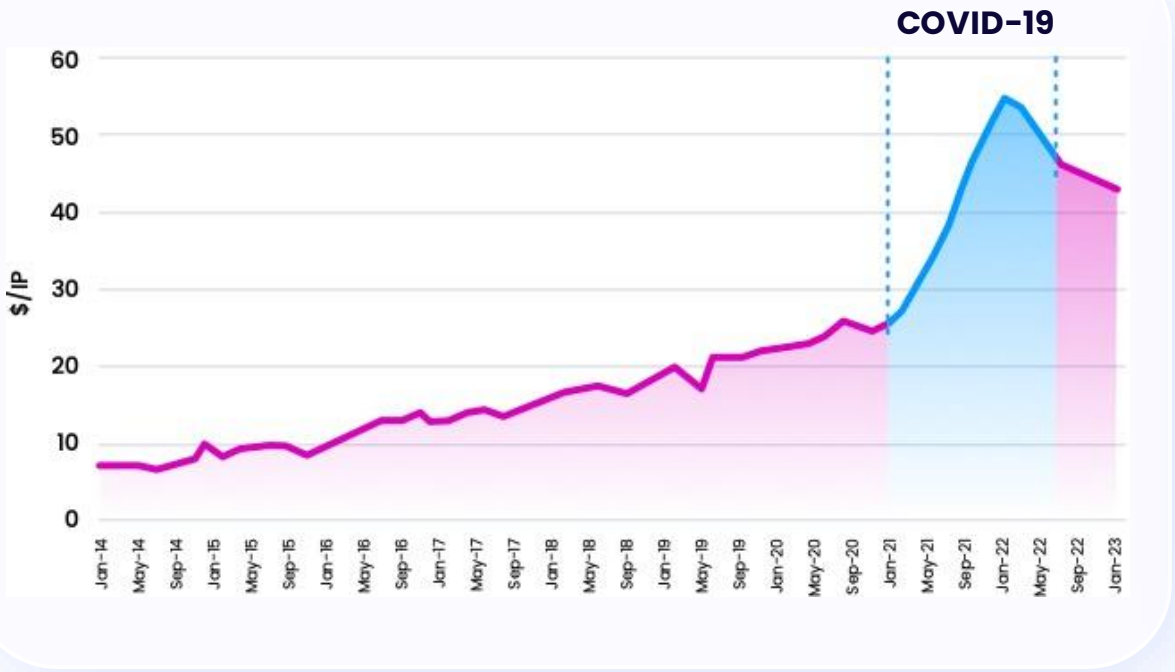
Risks

- Abuse observability
- rDNS records validation
- KYC process
- ASN blocklists
- Risky industries
- IP hi-jacking

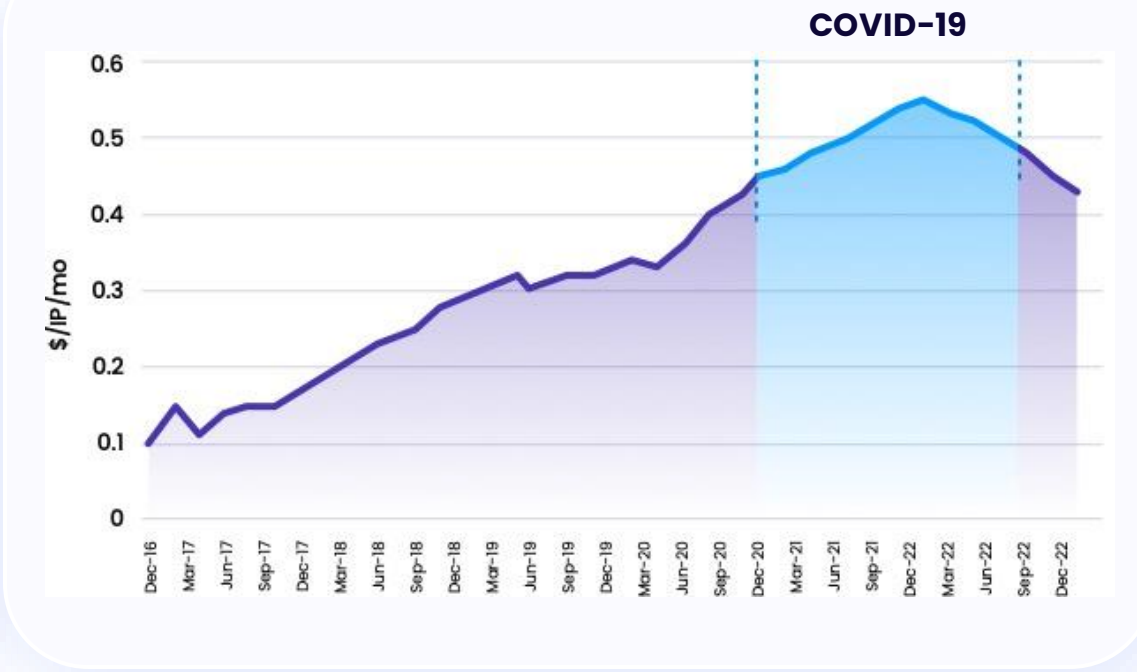
Benefits

- Instant provisioning
- No CAPEX required
- WHOIS accuracy
- Addressing legacy space
- RPKI adoption
- More IPv4 in the market
- Extra revenue

Prices for IPv4 Acquisition vs. Lease



IPv4 Acquisition



IPv4 Leasing

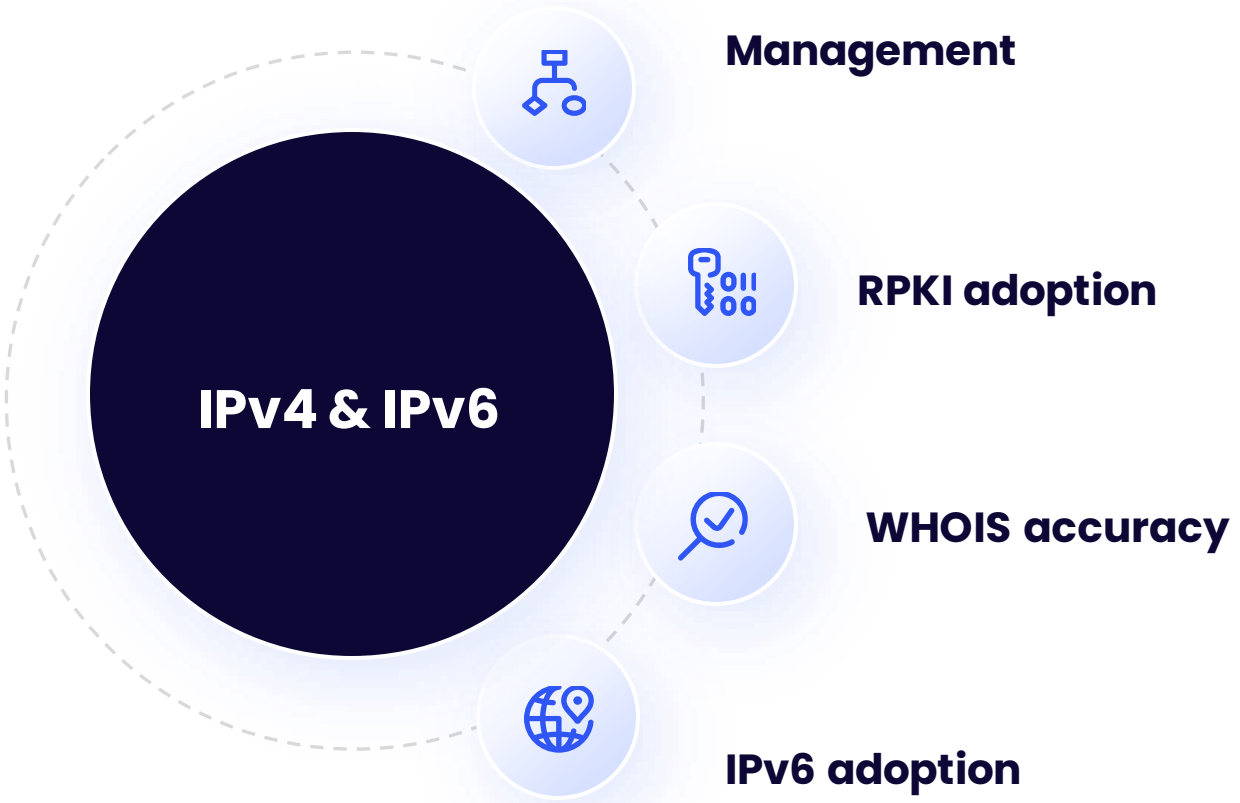
S&P 500 Index

https://www.marketwatch.com/investing/index/spx/charts?mod=mw_quote_advanced

How can the community impact the IPv4 ecosystem?

Network Operators

Lack of Management Efficiency



RIRs Improvement

FBI worried about IPv6 public traceability, says legislation may be needed.

Law enforcement agencies including the FBI and DEA are reportedly worried about the potential loss of tracking abilities that will come with the shift to IPv6.

The Verge

What about IPv6?

I know a great IPv6 joke, but I don’t think you’re ready for it.

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