

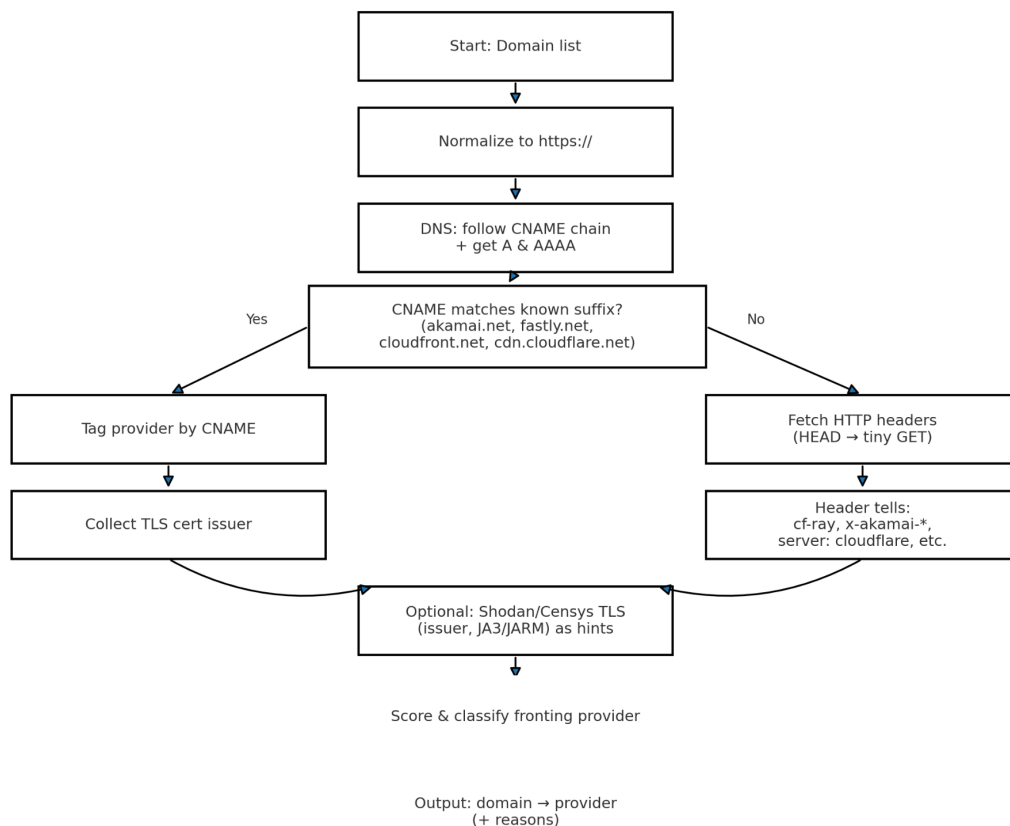
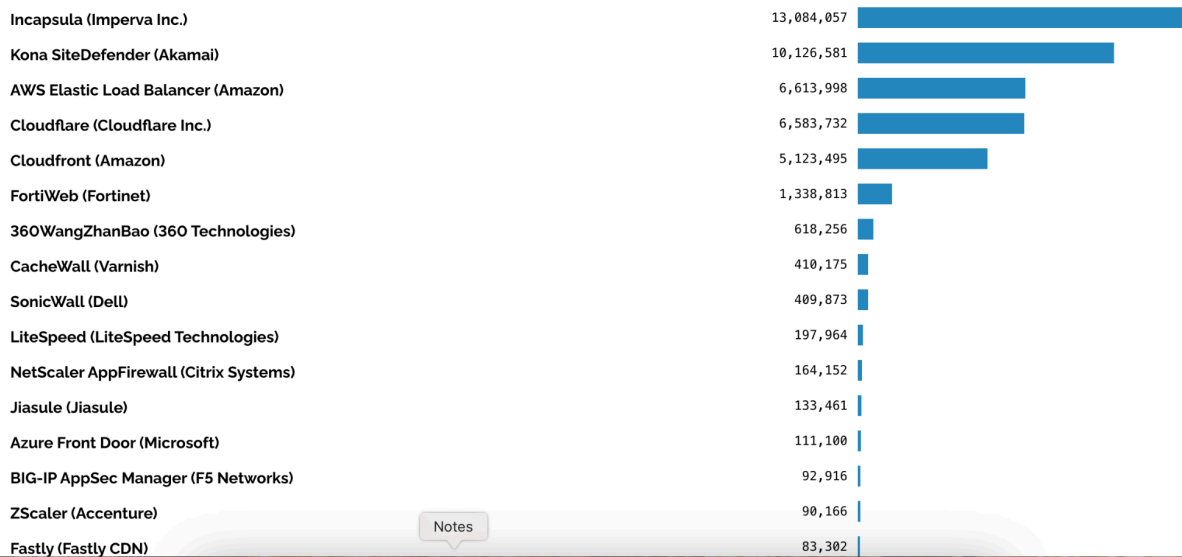
# Facet Analysis

net:0/0

http.waf



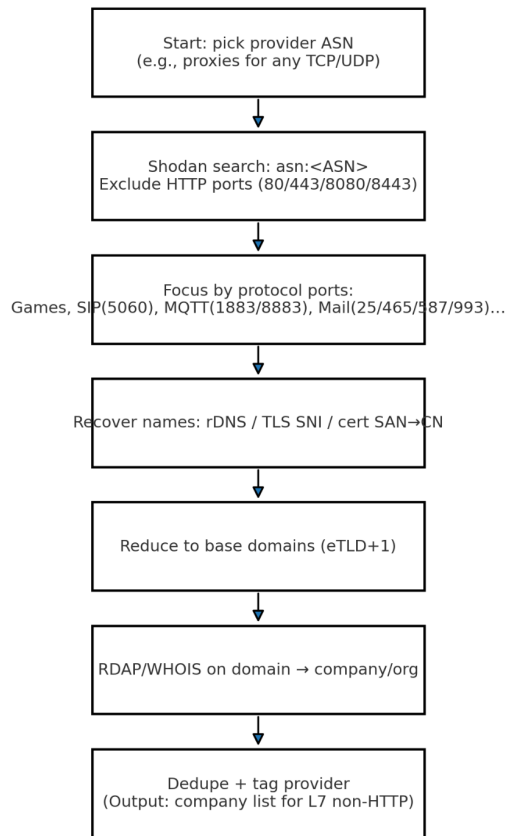
// TOTAL: 1,503,815,614



# 1) L7-HTTP (WAAP/WAF/API/Bot) — domain-first

Use Shodan to size by WAF vendor ([facets](#)), then pull host results, collapse to base domains, map to companies (RDAP), dedupe.

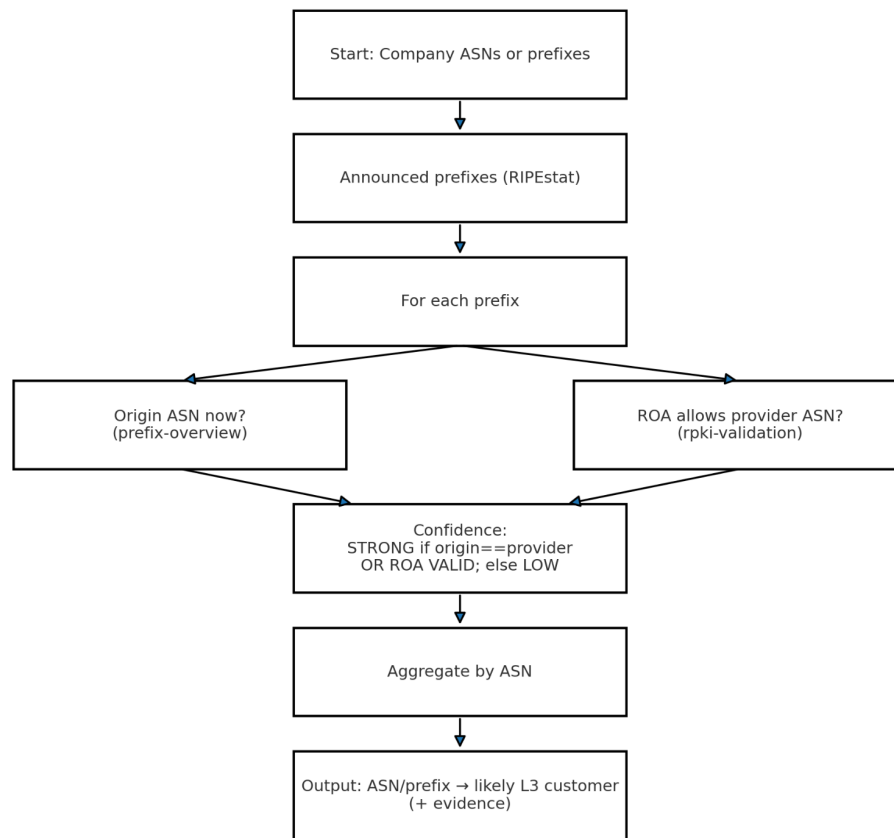
- Shodan API reference (host/count, host/search, facets). [developer.shodan.io](#)
  - Shodan filter reference (includes `http.waf`, `hostname`, `asn`, `port`). [beta.shodan.io](#)
  - Facets overview (how counts work). [help.shodan.io](#)
  - Python example for facet counts. [shodan.readthedocs.io](#)
-



## 2) L7 non-HTTP (any TCP/UDP) — service-first

Hunt services on non-80/443 ports that sit behind a provider ASN (e.g., “any-TCP/UDP” proxies), then map to domains/companies.

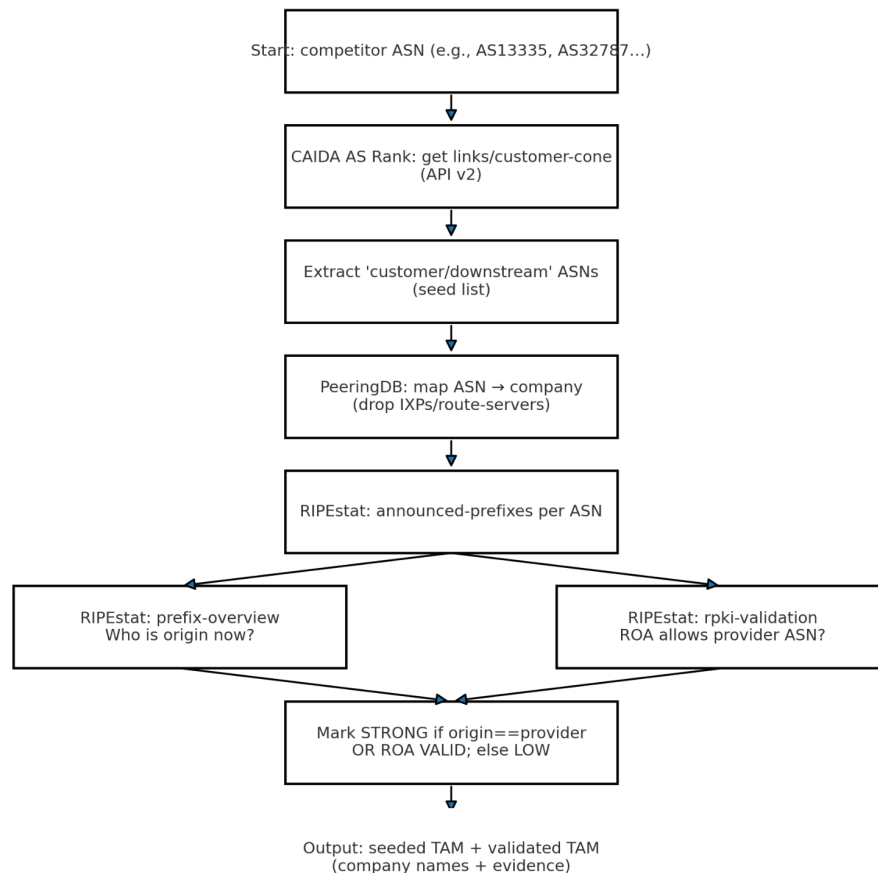
- Shodan API reference (host/search). [developer.shodan.io](https://developer.shodan.io)
  - Shodan filter reference (use `asn: + port::`; exclude 80/443/8080/8443). [beta.shodan.io](https://beta.shodan.io)
-



### 3) L3/L4 DDoS Company Validation (routing) — ASN/prefix evidence

Company → ASN(s) via PeeringDB; then RIPEstat for prefixes, current origin ASN, and ROA validity vs competitor ASNs.

- PeeringDB API (how to query org/net/ASN). [docs.peeringdb.com](https://docs.peeringdb.com)
- RIPEstat: announced-prefixes (AS → prefixes). [stat.ripe.net](https://stat.ripe.net)
- RIPEstat: prefix-overview (is it announced, by whom). [stat.ripe.net](https://stat.ripe.net)
- RIPEstat: RPKI validation (ROA status for ASN+prefix). [stat.ripe.net](https://stat.ripe.net)
- RIPEstat usage rules (polite concurrency, >1k/day note). [stat.ripe.net](https://stat.ripe.net)



## 4) L3/L4 TAM Mapping from Downstreams (lead discovery → validate)

Get customer/downstream ASNs from CAIDA AS Rank (customer-cone/links), map to companies (PeeringDB), then **validate** with Track 3.

- CAIDA **AS Rank** API docs (v2). [asrank.caida.org](https://asrank.caida.org)
- AS Rank “About” (customer-cone concept & data sources). [asrank.caida.org](https://asrank.caida.org)
- v2 / v2.1 posts (GraphQL + customer-cone support). [blog.caida.org+1](https://blog.caida.org+1)