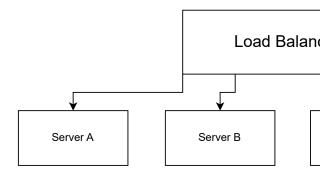


Internet

Cloudflare & Load bal

· WHY

- Cloudflare as the Entry Point: All in passes through Cloudflare, where secun applied.
- Load Balancer: After passing through routed to the load balancer.
- Internal Network: The load balancer the to the appropriate backend services (1 database).



Load Balancer: The load balancer receives incoming tra across multiple backend servers according to a specil algorithm.

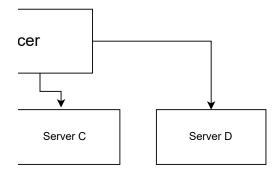
Client to Load Balancer: Clients (users) send HTTP/HTT application's public IP or domain name, which resolves to

lancer

ncoming traffic first rity measures are

Cloudflare, traffic is

en distributes traffic frontend, backend,



affic and distributes it fic load balancing

ΓPS requests to the the load balancer.

Resource Management

Specifying Resources for Servers

1. Frontend Server (Vue.js)

CPU: 8 vCPUsMemory: 16 GB RAMStorage: 256 GB SSD

2. Backend Server (Laravel)

CPU: 12 vCPUsMemory: 32 GB RAMStorage: 512 GB SSD

3. Database Server (MongoDB)

CPU: 16 vCPUsMemory: 64 GB RAM

• Storage: 2 TB SSD (scalable based on data growth)

4. Python Connectors Server

CPU: 8 vCPUsMemory: 16 GB RAMStorage: 512 GB SSD

This is a rough idea how much we can get cost per server

AMD Ryzen™ 7 PRO 8700GE

CPU 8 cores / 16 threads @ 3.65 GHz

Generation: Octa-Core Phoenix 1 (Zen4)

RAM 64 GB DDR5 ECC

Drives min. 2 x 512 GB NVMe SSD (Gen4)

Up to 2 x optional (at additional cost) NVMe, SATA and HDD available

Locations

Information IPv4

starting from

€54.74 €0.0877 max. per month per hour

setup fee €46.4