



Load Balancing Patterns

Traditional Load Balancing

- Traditionally, load balancing is performed by:
 - A dedicated appliance such as F5 or ServerIron
 - A software Reverse Proxy, such as Nginx, Apache Httpd or Cloud Foundry GoRouter
 - DNS Round Robin
- Configured manually
- Entry point for HTTP requests from end users. i.e. Public-facing
- Fronts monolithic server instances

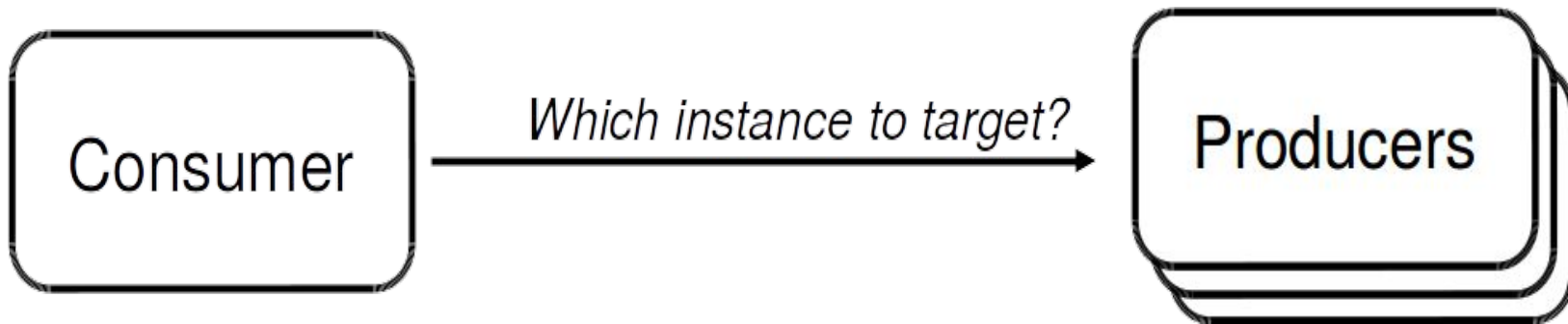
Drawbacks of Traditional Load Balancing

- Manual configuration does not scale, works against elastic scaling requirements
- Extra network hops and associated latency between consumers and providers
- Indeterministic timeout/retry characteristics

Client Load Balancing in a Cloud Native Application

- Embed load balancing logic in consumer (caller)
- Configuration is dynamic and automatic
- Not public-facing
- Load balancing is between services (inter-service)
- Server Pool endpoints are IP and Port address combinations

Service Instances are scaled out



A service registry lookup yields multiple service instances for a given service name

Inter-service Load Balancing

