

# Project Proposal

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## Project Objectives:

- Implement a configurable load balancer with a basic infrastructure
- Add GUI for load balancer management
- Deploy infrastructure on Google Cloud Platform VMs

## Initial Goals:

- Support for 3 load balancing strategies:
  - Round Robin
  - Least Connection
  - Chained Failover
- Allowing weighing of servers for certain strategies
- GUI allows for switching between strategies on the fly
- Deploy on GCP
- Performance analysis of each strategy

## Stretch Goals:

- Add more load balancing strategies with increased complexities
- Servers report current load to balancer

