Software project 1 (Component 2)

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Problem definition

I want to build a MAS application for the purpose of load balancing.

Problem specification

In a scenario where we have multiple servers that run a web application, we want to redirect clients to servers that are lightly loaded, such that we can have quick response times.

By using JADE, I’m planning on having the following types of agents:

* WorkerAgent – this agent will be responsible for handling a task and notifying upon completion
* MasterAgent – this agent will direct tasks to worker agents based on a couple of metrics

We will create one master agent and N worker agents, each with its own specification (representing a server), such as CPU and Memory. These metrics will be relevant to the number of tasks a worker can handle.