

Implement a REST service in a software language of your choice.

This service accepts a job which monitors the CPU in use (total processor time) and memory usage (physical memory) of a process identified by its ID.

This service must:

- 1) Expose a "create" endpoint, which starts a monitoring job, the parameters in the request payload are:
 - process id
 - how often the statistics are refreshed, time in seconds, maximum 60 seconds
 - how long the job should run for, time in seconds, maximum 3600 seconds

On successful job creation a GUID is returned identifying the job.

- 2) Expose a "status" endpoint, which accepts the creation GUID and returns this information:
 - unix time of last statistics refresh
 - memory consumption in MiBs
 - total processor time in milliseconds
- 3) Handle the following use cases:
 - when a job reaches end of file it should be removed from the service
 - if the service goes down, the active jobs should be picked up and resumed if the job end time falls in the future.

The choice of the persistence layer is left to the developer.

Open points not explicitly part of the task:

- the process to monitor can be killed while the job is running