Artivatic Data Labs - DevOps task

How will you help Artivatic do following programmatically:

1. Make a system that can spawn the above arrangement to respective cloud provider and scale or modify the cluster (both in instance type and number of instances) when needed. The system must be configurable such that we can change the number of machines and instance type for any provider and it can update an existing setup. We need to have the following things in the configured instances.
   * Resource Monitoring of these servers. We need a dashboard where it can monitor CPU usage, RAM usage. DevOps team needs to be alerted for following on all servers:
     1. RAM usage is more than 80% for more than 5 minutes.
     2. CPU usage is more than 90% for more than 2 minutes.

1. Create a script / dashboard to get information of all instance specs running in the cluster.- CPU, RAM configured, Linux kernel and distribution.

**Optional**

3. Collect the logs from different application to a central place. (Central logging system/application)

For all of the above mentioned 2 points, you are free to use tools of your choice.

You’ll be judged on: Simplicity, Extensible, Documentation