# The scenarios of Galaxy

There are many scenarios of Galaxy, we will only list the important ones here.

## Scenario 1

There are many machines in our group, but more machines means more energy and time to manage them to make them used reasonably. Till now, we even haven’t a dedicated person to do this. Some students always complain that they haven’t enough computing resource to do their experiments. The basic reason is that the machines aren’t used in a balanced mode. To use the resource fully, we need a distributed execution system deployed in the machine cluster to help them run their jobs.

## Scenarios 2

Sometimes we need to run executables on several machines concurrently (e.g. training SVM models on about 20 machines concurrently). It is very tedious to repeat the same thing several times (log on the machine, copy the executable, run the executable). To make it worse, we should often monitor the jobs and restart the jobs when the machine is restarted. The whole process will cost us a lot of time. So we need a distributed execution system which will help us to do these annoying things.

## Document History

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