Distributed Systems

Group No: 4

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Cluster Middleware - II

In cluster, several machines are interconnected with each other. Cluster is used to perform specific tasks with the help of these machines which communicate through message passing. If large amount of jobs are assigned to small set of machines they become highly loaded and the rest of machines may remain idle. So, the work assigned to the cluster should be distributed among all the machines. In present project, we intend to implement distributed load-balancing cluster middleware. Our system will have following features:

- Jobs can be submitted to any machine.

- Machines will do distributed load balancing and jobs are migrated before start.

- Jobs will start at any machine after load balancing.

- Result will go back to the original machine.

- Machine may fail.

- Machine may rejoin.