https://hadoop.apache.org/docs/stable/hadoop-yarn/hadoop-yarn-site/yarn\_architecture.gif

* The **ResourceManager** is the ultimate authority that arbitrates resources among all the applications in the system. It is responsible for allocating resources to the various running applications subject to familiar constraints of capacities, queues etc.
* The **NodeManager** is the per-machine framework agent who is responsible for containers, monitoring their resource usage (cpu, memory, disk, network) and reporting the same to the ResourceManager/Scheduler. It is responsible for accepting job-submissions, negotiating the first container for executing the application specific ApplicationMaster and provides the service for restarting the ApplicationMaster container on failure.