**Components of Hadoop 2.x Architecture**

**1. Resource Manager:** Resource Manager is a Per-Cluster Level Component.

Resource Manager is again divided into two components:

a. Scheduler

b. Application Manager

a. Resource Manager’s Scheduler: is responsible to schedule required resources to Applications. It does only scheduling. It does care about monitoring or tracking of those Applications.

**2. Application Master:** Application Master is a per-application level component.

It is responsible for:

* Managing assigned Application Life cycle.
* It interacts with both Resource Manager’s Scheduler and Node Manager
* It interacts with Scheduler to acquire required resources.
* It interacts with Node Manager to execute assigned tasks and monitor those task’s status.

**3. Node Manager:** Node Manager is a Per-Node Level component.

It is responsible for:

* Managing the life-cycle of the Container.
* Monitoring each Container’s Resources utilization.

**4. Container**: Each Master Node or Slave Node contains set of Containers. Container is a portion of Memory in HDFS (Either Name Node or Data Node).

NOTE:- Resource Manager is Per-Cluster component where as Application Master is per-application component.