YARN - Yet Another Resource Negotiator YARN is umbrella tramework under which Mapkedue YARN is resource management and Job scheduling technology in Hadoop DFS Node Manager container NM Reg Tontain 1 should rively YARN Components Resource Manager: - Assigns resources among application for optimal resource utilisation - One cluster has one instance of Resource Manager Node Manager: Run on each node & Communicates with Resource Manager about resources usage - Et receives requests from RM about resource allocation and maintains life cycle of container Application Master - Responsible for processing Request Resource manager for requests and works node manager to those resources for task execution. - Application Master can be / Map Reduce or any other processing tramewak Scheduler: Plugged with Resource Manager to help in resource allocation.

Container: It is a set of allocated System resources - Containers are allocated and Mangal managed by Node manager and are used by tasks Resource is managed by Resource Manager. Processing is handled by Application Master Map Reducer: is a slw framework for distributed processing of large datasets on clusters Mappers: Its a java programming unit which analyses one block of data, of bigdata file Reducers: It is a Java programming which aggregates of coming out of mappers, combines and presents final result. Anatormy of YARN Request 1. Client. Job 2. RM negotiates with NIM Submits Job 2. RM negotiates with NIM NodeMaron > Resource (client)-M anager 4. AM registed itself with Node Mary RM 3. NM allocates Container to AM and launches an instance