YARN ARCHITECTURE Node Manager 1 Container Resource Manager Node Manager will allocate resources Node Manager and App Master to monitor Containers. MASTER NODE APP MASTER App Master will monitor resources and RESOURCE MANAGER` will negotiate about resources for running • App Master will running one for each Job. App Master will kill itself once job is finished. Container Node Manager 2 Node Manager will send the Status of slave Job Scheduler → Application Manager node using signal (heartbeat), signal sent at regular interval. Job Scheduler Application Manager Node Manager 3 1. When user submits Job, it goes to 1. Application Manager will accept Job Scheduler and it schedules Job, the Job from Job Scheduler. Using FIFO, FAIR and Capacity 2. It will request Node Manager to allocate App Master Containers (Resources - RAM, CPU, Network, Schedulers. 2. Job Scheduler will allocate resources Data Blocks). for the Job. 3. Application Manager will monitor Job Execution, if required more Resources. It will request to distribute resources as required.

4. If Job fails, Application Manager will request

to restart job.