Hadoop 2.x Archi

Hadoop 1.x   Job Tracker.

① Resource management.

② Job Scheduling.

③ Job monitoring.

YARN (


```
4GB RAM          [ S1 ∨ ]
2 CPUs
                 [ S2 ∨ ]

Client ──→  Resource     ──────→ Node manager
            manager.                ↓            S3 ∨
(100GB)                         App master
                                   Job1   XX
        ↑
        ⬆
      (RM)  ⇐ (AM)
```

```
4GB RAM                         Container 1
2 CPU                          ┌─ 1 GB RAM
                               │  1 CPU
Client ──→ Resource            │    S1
  Job 1    manager  ──→ Node manager
                           ↓   Task
                           │   Job1
        ↑
      (Container)       Node manager   3 GB RAM
                           ↓            1 CPU
                     App master  Task    S2
                        Job1     Job1
```

① Global Resource Manager.

② Node Manager.

③ Application - Specific Application Master

④ Scheduler ✓

⑤ Container.

Hadoop 2.X	Hadoop 3.X
① YARN	① YARN along with Container ✓ ✓
② Job tracking Job monitoring Job Scheduling.	② Java 8
③ Java 7	③ It was Highly Scalable
④ Scalability was missing	