Zewail City of Science and Technology

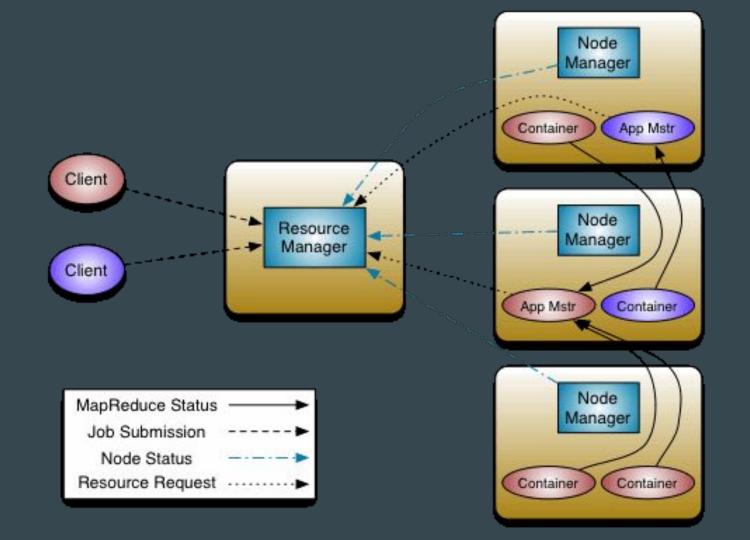
Communications and Information Engineering (CIE) Program

Big Data Analytics (CIE 427) - Fall 2020



YARN





on YARN

Hadoop Pseudo-Distributed Operation

Prerequisites: Shuffle Service

In the file etc/hadoop/yarn-site.xml, enable the shuffle service needed by MapReduce,

Prerequisites: MapReduce Framework

In the file etc/hadoop/mapred-site.xml, set YARN as the default framework for MapReduce jobs,

Run the Daemons

\$ sbin/yarn-daemon.sh start resourcemanager \$ sbin/yarn-daemon.sh start nodemanager

This should start local ResourceManager and NodeManager daemons!
You should be able to connect to the ResourceManager's web interface at http://localhost:8088/!

Pseudo-Distributed Word Count Demo

on YARN

Requirement: Pseudo-Distributed Pseudo-PageRank on YARN

Repeat the Pseudo-PageRank requirement form last time, but this time on YARN!

• Run the same MapReduce job after doing the previous YARN configurations and should *just work*.

Acknowledgement

The graph and the material introduced in YARN architecture were adapted from the official <u>Apache Hadoop documentation</u>.

A lot of the material introduced in running Hadoop Pseudo-Distributed Operation on YARN were adapted from the official <u>Apache Hadoop</u> documentation.

Thank you!