Explain the need for this project:  
J Internet Serv Appl (2010) 1: 7–18  
DOI 10.1007/s13174-010-0007-6  
O R I G I N A L PA P E R S  
Cloud computing: state-of-the-art and research challenges  
Qi Zhang · Lu Cheng · Raouf Boutaba  
  
  
Overview of the multiple available tools available (state of the art):  
See discussions, stats, and author profiles for this publication at: https://www.researchgate.net/publication/357340660  
A Survey of Big Data Pipeline Orchestration Tools from the Perspective of the  
DataCloud Project \*  
Conference Paper · December 2021

Analysis of one of these tools;  
Kafka: a Distributed Messaging System for Log Processing  
<https://course.ece.cmu.edu/~ece845/docs/kafka.pdf>

Apache Hadoop YARN: Yet Another Resource Negotiator

<https://dl.acm.org/doi/pdf/10.1145/2523616.2523633>

Models for cloud computing:  
<https://www.researchgate.net/publication/286266847_Quality-of-service_in_cloud_computing_modeling_techniques_and_their_applications>

Quality-of-service in cloud computing: modeling techniques and their applications  
Danilo Ardagna 1 , Giuliano Casale 2\* , Michele Ciavotta1 , Juan F Pérez 2 and Weikun Wang2

Maths around M/M/M+r queuing:  
<https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5959161>

Performance Analysis of Cloud Computing  
Centers Using M=G=m=m þ r  
Queuing Systems